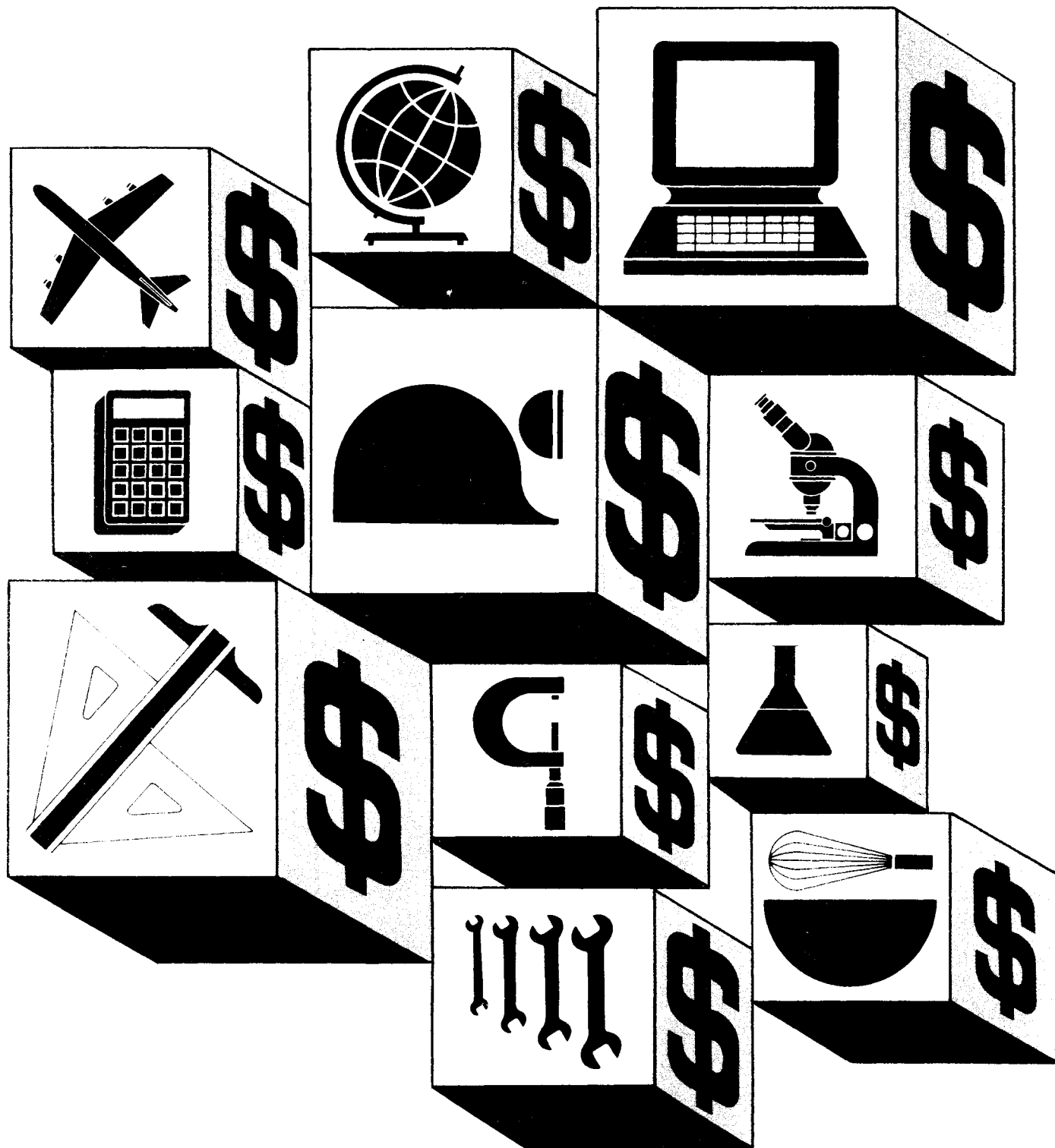




# EMPLOYMENT AND EARNINGS

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





## U.S. DEPARTMENT OF LABOR

Elizabeth Dole, Secretary

### BUREAU OF LABOR STATISTICS

Janet L. Norwood, *Commissioner*

*Employment and Earnings* is prepared in the Office of Employment and Unemployment Statistics in collaboration with the Office of Publications. The data are collected by the Bureau of the Census (Department of Commerce) and State employment security agencies, in cooperation with the Bureau of Labor Statistics. A brief description of the cooperative statistical programs of the BLS with these agencies is presented in the Explanatory Notes. The State agencies are listed on the inside back cover.

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## Calendar of Features

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

### Household data

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

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

### Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
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National data revised to reflect new benchmarks and new seasonal adjustment factors	June <sup>1</sup>
Revised historical national data	Supplement <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 will introduce March 1989 benchmarks.

<sup>2</sup> The latest supplement was published in August 1989.

# Employment and Earnings

Vol. 37 No. 6 June 1990

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Editors: Gloria Peterson Green, Rosalie K. Epstein

## Editors' Note

The Bureau of Labor Statistics usually introduces its annual revision of national establishment survey estimates to new benchmarks in June with the release of May data. This year's revision, which will incorporate March 1989 benchmark levels based on the 1987 Standard Industrial Classification structure, will be introduced in September with the release of August data.

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# Employment and Unemployment Developments, May 1990

Employment showed little growth in May and unemployment was about unchanged. Both the overall jobless rate and the civilian worker rate were 5.3 percent. There have been few changes in unemployment for over a year and a half.

Private sector employment, as reported by the survey of business establishments, was about unchanged in May, the third successive month of weakness. Government employment rose by 155,000; nearly all of this increase resulted from additional hiring of temporary workers to assist with the 1990 decennial census. Total civilian employment, as measured by the survey of households, rose by 230,000 in May, following a decline of a similar magnitude in April.

## Unemployment

The number of unemployed persons, 6.7 million, and the civilian worker unemployment rate, 5.3 percent, were essentially unchanged in May, after seasonal adjustment. The rate has hovered between 5.0 and 5.4 percent for the past 21 months. Jobless rates for all major worker groups—adult men (4.7 percent), adult women (4.6 percent), teenagers (15.5 percent), whites (4.6 percent), blacks (10.4 percent), and Hispanics (7.7 percent)—also showed little or no change in May. (See tables A-33 and A-34.)

The median duration of unemployment edged up in May to 5.4 weeks. About 1.4 million, or 1 in 5 unemployed workers, had been jobless for 15 weeks or longer, a situation that has prevailed for the past year and a half. (See table A-40.)

## Civilian employment and the labor force

Total civilian employment rose by 230,000 in May to a seasonally adjusted level of 118.4 million. The proportion of the working-age population that is employed (the employment-population ratio) was little changed at 63.0 percent; it has fluctuated around this high level for the past 15 months. (See table A-33.)

The civilian labor force, at 125.0 million, and the labor force participation rate, at 66.6 percent, were little changed over the month. Over the past 12 months, the labor force has increased by 1.4 million, with adult women accounting for about 70 percent of the gain. (See table A-33.)

## Industry payroll employment

With the addition of an estimated 145,000 temporary

census workers, total nonfarm payroll employment increased by 165,000 in May to a level of 110.6 million, after seasonal adjustment. Private payrolls, however, were little changed, following a loss of 125,000 jobs (as revised) in the previous month. (See table B-4.)

In May, the goods-producing sector suffered employment declines for the seventh month out of the last nine. Manufacturing employment fell by 35,000, with small losses throughout both the durable and nondurable goods components. Since reaching a post-recession peak in March 1989, 310,000 factory jobs have been lost; industries hardest hit include electrical equipment (-85,000), motor vehicles (-55,000), apparel (-50,000), fabricated metals (-35,000), and textile mills (-25,000). Reflecting continued weakness in the housing market, the construction industry added fewer workers than usual in May, resulting in a seasonally adjusted employment decline of 20,000. Mining employment rose slightly and has increased by 35,000 over the past year.

In the service-producing sector, government jobs rose by 155,000, with almost all of the net additions being temporary census workers. Elsewhere in the sector, employment in wholesale trade increased by 15,000 in May, with most of the increase in the nondurable goods component. For the second straight month, employment was little changed in transportation and public utilities and in finance, insurance, and real estate. Retail trade payrolls were also unchanged in May. Employment in this industry has been weak for the past 4 months, particularly in its general merchandise stores component, where 55,000 jobs have been lost. In the services industry, employment rose by only 35,000, following a small decline in the previous month. May gains were concentrated in health services, which added 45,000 workers; over the past year, health services accounted for half of the employment gain in the services industry and a third of the increase in total private jobs.

## Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls was unchanged in May at 34.6 hours, seasonally adjusted, and has shown little movement thus far in 1990. The manufacturing workweek rose 0.4 hour in May to 41.1 hours, as factory overtime climbed 0.5 hour to 4 hours. These increases were paced by large gains in overtime hours that were principally in the durable goods sector, particularly in motor vehicles and steel. (See table C-5.)

The index of aggregate weekly hours of private production or nonsupervisory workers was unchanged in May at 130.0 (1977 = 100), after seasonal adjustment. The manufacturing index rose 0.7 percent to 94.8, as the increase in hours more than offset the decline in employment. (See table C-6.)

**Hourly and weekly earnings**

Both hourly and weekly earnings of production or non-

supervisory workers on private nonfarm payrolls rose 0.4 percent in May, on a seasonally adjusted basis. Prior to seasonal adjustment, average hourly earnings rose 2 cents to \$9.98 and average weekly earnings advanced 69 cents to \$344.31. Both series increased by 4.1 percent over the past 12 months. (See tables C-1 and C-7.)

**Note on temporary census workers**

The number of temporary workers associated with the 1990 census has an impact on the employment levels for the Federal Government, as well as for higher aggregates ("B" tables). The estimate of these workers was 22,000 in January, 27,000 in February, 117,000 in March, and 178,000 in April. For May, the estimated number (preliminary) was 325,000, which may be subject to significant revision.

**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>
June	July 6	September	October 5
July	August 3	October	November 2
August	September 7	November	December 7

**HOUSEHOLD DATA  
HISTORICAL**

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

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
1956 .....	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402	
1957 .....	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336	
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 <sup>1</sup> .....	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963 .....	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964 .....	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982 .....	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983 .....	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984 .....	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839	
1985 .....	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987 .....	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
1988 .....	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944	
1989 .....	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
May .....	187,854	125,224	66.7	118,805	1,673	117,132	3,137	113,995	6,419	5.1	62,630	
June .....	187,995	125,777	66.9	119,208	1,666	117,542	3,138	114,404	6,569	5.2	62,218	
July .....	188,149	125,679	66.8	119,102	1,666	117,436	3,217	114,219	6,577	5.2	62,470	
August .....	188,286	125,758	66.8	119,238	1,688	117,550	3,275	114,275	6,520	5.2	62,528	
September .....	188,428	125,725	66.7	119,121	1,702	117,419	3,219	114,200	6,604	5.3	62,703	
October .....	188,580	125,857	66.7	119,294	1,709	117,585	3,197	114,388	6,563	5.2	62,723	
November .....	188,721	126,192	66.9	119,540	1,704	117,836	3,160	114,676	6,652	5.3	62,529	
December .....	188,865	126,246	66.8	119,588	1,700	117,888	3,197	114,691	6,658	5.3	62,619	
<b>1990:</b>												
January .....	188,990	126,094	66.7	119,560	1,697	117,863	3,134	114,728	6,535	5.2	62,896	
February .....	189,090	126,308	66.8	119,713	1,678	118,035	3,079	114,957	6,594	5.2	62,782	
March .....	189,198	126,498	66.9	120,003	1,669	118,334	3,200	115,133	6,495	5.1	62,700	
April .....	189,326	126,543	66.8	119,773	1,657	118,116	3,133	114,983	6,770	5.3	62,783	
May .....	189,467	126,643	66.8	119,989	1,639	118,350	3,305	115,045	6,653	5.3	62,824	

<sup>1</sup> Not strictly comparable with prior years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes.  
<sup>2</sup> The population and Armed Forces figures are not adjusted for

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



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

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
1979 .....	79,509	62,215	78.2	59,096	1,489	57,807	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,932	77.6	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	2,738	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	60,842	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,056	
1986 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	56,381	4,530	6.8	20,376	
1987 .....	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989 .....	90,283	69,360	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
May .....	90,167	69,142	76.7	65,713	1,511	64,202	2,465	61,737	3,429	5.0	21,025	
June .....	90,237	69,542	77.1	66,078	1,501	64,577	2,480	62,097	3,464	5.0	20,695	
July .....	90,315	69,366	76.8	65,939	1,499	64,440	2,539	61,901	3,427	4.9	20,949	
August .....	90,384	69,404	76.8	65,919	1,519	64,400	2,592	61,808	3,485	5.0	20,980	
September .....	90,456	69,360	76.7	65,681	1,531	64,150	2,520	61,630	3,679	5.3	21,096	
October .....	90,535	69,599	76.9	66,046	1,533	64,513	2,513	62,000	3,553	5.1	20,936	
November .....	90,806	69,635	76.9	66,011	1,529	64,482	2,477	62,005	3,624	5.2	20,971	
December .....	90,876	69,725	76.9	66,143	1,525	64,618	2,535	62,083	3,582	5.1	20,953	
<b>1990:</b>												
January .....	90,772	69,539	76.6	65,943	1,523	64,420	2,501	61,918	3,597	5.2	21,233	
February .....	90,822	69,639	76.7	66,108	1,506	64,602	2,461	62,141	3,530	5.1	21,183	
March .....	90,874	69,712	76.7	66,208	1,497	64,711	2,499	62,212	3,505	5.0	21,162	
April .....	90,942	69,779	76.7	66,043	1,499	64,544	2,415	62,129	3,735	5.4	21,163	
May .....	91,014	69,737	76.6	66,058	1,472	64,586	2,580	62,026	3,679	5.3	21,277	
<b>Annual averages</b>												
<b>WOMEN</b>												
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980 .....	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981 .....	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <sup>1</sup> .....	94,944	52,586	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987 .....	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.8	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
1989 .....	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
May .....	97,667	56,082	57.4	53,092	162	52,930	672	52,258	2,990	5.3	41,605	
June .....	97,758	56,235	57.5	53,130	165	52,965	658	52,307	3,105	5.5	41,523	
July .....	97,834	56,313	57.6	53,163	167	52,996	678	52,318	3,150	5.6	41,521	
August .....	97,902	56,354	57.6	53,319	169	53,150	683	52,467	3,035	5.4	41,548	
September .....	97,972	56,365	57.5	53,440	171	53,269	699	52,570	2,925	5.2	41,607	
October .....	98,045	56,258	57.4	53,248	176	53,072	684	52,388	3,010	5.4	41,787	
November .....	98,115	56,557	57.6	53,529	175	53,354	683	52,671	3,028	5.4	41,558	
December .....	98,187	56,521	57.6	53,445	175	53,270	662	52,608	3,076	5.4	41,666	
<b>1990:</b>												
January .....	98,218	56,555	57.6	53,617	174	53,443	633	52,810	2,938	5.2	41,663	
February .....	98,268	56,669	57.7	53,605	172	53,433	618	52,815	3,064	5.4	41,599	
March .....	98,324	56,785	57.8	53,795	172	53,623	702	52,921	2,990	5.3	41,539	
April .....	98,383	56,764	57.7	53,729	158	53,571	718	52,853	3,034	5.3	41,619	
May .....	98,453	56,906	57.8	53,931	167	53,764	745	53,019	2,975	5.2	41,547	

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

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

**HOUSEHOLD DATA  
HISTORICAL**

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

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
<b>Annual averages</b>								
1956 .....	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957 .....	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958 .....	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959 .....	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <sup>1</sup> .....	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961 .....	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 <sup>1</sup> .....	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963 .....	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964 .....	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965 .....	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966 .....	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967 .....	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968 .....	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969 .....	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970 .....	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971 .....	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 <sup>1</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974 .....	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975 .....	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976 .....	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977 .....	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979 .....	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980 .....	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981 .....	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982 .....	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983 .....	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984 .....	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985 .....	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987 .....	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988 .....	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
1989 .....	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1989:</b>								
May .....	186,181	123,551	66.4	117,132	6,419	5.2	5.1	5.3
June .....	186,329	124,111	66.6	117,542	6,569	5.3	5.1	5.5
July .....	186,483	124,013	66.5	117,436	6,577	5.3	5.0	5.6
August .....	186,598	124,070	66.5	117,550	6,520	5.3	5.1	5.4
September .....	186,726	124,023	66.4	117,419	6,604	5.3	5.4	5.2
October .....	186,871	124,148	66.4	117,585	6,563	5.3	5.2	5.4
November .....	187,017	124,488	66.6	117,836	6,652	5.3	5.3	5.4
December .....	187,165	124,546	66.5	117,888	6,658	5.3	5.3	5.5
<b>1990:</b>								
January .....	187,293	124,397	66.4	117,863	6,535	5.3	5.3	5.2
February .....	187,412	124,630	66.5	118,035	6,594	5.3	5.2	5.4
March .....	187,529	124,829	66.6	118,334	6,495	5.2	5.1	5.3
April .....	187,669	124,886	66.5	118,116	6,770	5.4	5.5	5.4
May .....	187,828	125,004	66.6	118,350	6,653	5.3	5.4	5.2

<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	May 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>TOTAL</b>											
16 years and over .....	187,828	124,640	66.4	118,277	6,363	5.1	63,188	26,272	8,837	3,759	24,319
16 to 19 years .....	13,832	7,258	52.5	6,118	1,141	15.7	6,574	407	5,703	26	438
16 to 17 years .....	6,605	2,798	42.4	2,257	541	19.3	3,808	101	3,566	4	137
18 to 19 years .....	7,227	4,461	61.7	3,861	600	13.5	2,766	306	2,136	22	302
20 to 24 years .....	17,799	13,725	77.1	12,531	1,194	8.7	4,074	1,433	1,932	84	625
25 to 54 years .....	105,328	88,201	83.7	84,628	3,572	4.1	17,127	11,468	1,148	1,533	2,978
25 to 34 years .....	42,800	35,950	84.0	34,118	1,832	5.1	6,851	4,662	758	360	1,071
25 to 29 years .....	20,926	17,553	83.9	16,610	943	5.4	3,373	2,184	492	127	571
30 to 34 years .....	21,874	18,397	84.1	17,508	889	4.8	3,478	2,478	266	233	501
35 to 44 years .....	37,185	31,793	85.5	30,698	1,095	3.4	5,392	3,699	267	535	890
35 to 39 years .....	19,848	16,925	85.3	16,325	600	3.5	2,923	2,073	159	238	453
40 to 44 years .....	17,336	14,867	85.8	14,373	495	3.3	2,469	1,627	108	298	436
45 to 54 years .....	25,343	20,458	80.7	19,813	646	3.2	4,885	3,107	124	637	1,017
45 to 49 years .....	13,880	11,485	82.7	11,078	407	3.5	2,395	1,547	89	299	461
50 to 54 years .....	11,463	8,973	78.3	8,735	238	2.7	2,490	1,560	35	339	556
55 to 64 years .....	21,191	11,808	55.7	11,471	337	2.9	9,383	4,233	26	932	4,191
55 to 59 years .....	10,510	6,958	66.2	6,759	199	2.9	3,552	1,853	18	476	1,205
60 to 64 years .....	10,681	4,850	45.4	4,712	138	2.8	5,831	2,380	8	456	2,987
65 years and over .....	29,678	3,647	12.3	3,529	119	3.3	26,031	8,731	28	1,186	16,086
65 to 69 years .....	10,164	2,240	22.0	2,162	78	3.5	7,924	2,753	7	282	4,882
70 to 74 years .....	7,888	887	11.2	859	28	3.2	7,001	2,345	8	254	4,394
75 years and over .....	11,626	520	4.5	508	13	2.4	11,106	3,634	14	649	6,809
<b>Men</b>											
16 years and over .....	89,542	68,097	76.1	64,624	3,473	5.1	21,445	524	4,337	2,074	14,509
16 to 19 years .....	6,961	3,819	54.9	3,206	613	16.0	3,142	9	2,885	11	237
16 to 17 years .....	3,371	1,478	43.8	1,195	283	19.1	1,893	4	1,810	4	76
18 to 19 years .....	3,589	2,341	65.2	2,011	330	14.1	1,248	5	1,076	7	161
20 to 24 years .....	8,666	7,270	83.9	6,635	635	8.7	1,396	34	978	52	333
25 to 54 years .....	51,558	48,182	93.5	46,240	1,942	4.0	3,376	224	459	1,014	1,679
25 to 34 years .....	21,037	19,828	94.3	18,868	960	4.8	1,209	77	323	264	546
25 to 29 years .....	10,265	9,626	93.8	9,154	472	4.9	638	32	223	89	296
30 to 34 years .....	10,772	10,201	94.7	9,713	488	4.8	571	45	100	175	250
35 to 44 years .....	18,224	17,227	94.5	16,631	596	3.5	997	80	93	332	493
35 to 39 years .....	9,752	9,240	94.7	8,923	317	3.4	512	41	62	156	253
40 to 44 years .....	8,472	7,987	94.3	7,708	279	3.5	485	39	30	176	240
45 to 54 years .....	12,297	11,128	90.5	10,742	386	3.5	1,169	68	44	418	640
45 to 49 years .....	6,745	6,162	91.4	5,911	252	4.1	583	31	30	211	311
50 to 54 years .....	5,552	4,965	89.4	4,831	134	2.7	587	37	14	207	329
55 to 64 years .....	9,978	6,703	67.2	6,488	215	3.2	3,275	77	4	535	2,658
55 to 59 years .....	4,985	3,926	78.8	3,806	121	3.1	1,059	42	1	277	739
60 to 64 years .....	4,992	2,777	55.6	2,683	94	3.4	2,215	35	3	258	1,919
65 years and over .....	12,379	2,123	17.1	2,054	69	3.2	10,257	180	11	463	9,602
65 to 69 years .....	4,594	1,262	27.5	1,223	38	3.0	3,332	41	4	162	3,126
70 to 74 years .....	3,470	536	15.5	514	23	4.2	2,934	49	-	121	2,764
75 years and over .....	4,316	325	7.5	317	8	2.3	3,991	90	8	180	3,713
<b>Women</b>											
16 years and over .....	98,286	56,542	57.5	53,653	2,890	5.1	41,743	25,748	4,500	1,685	9,810
16 to 19 years .....	6,871	3,439	50.0	2,911	528	15.4	3,432	399	2,817	15	201
16 to 17 years .....	3,234	1,319	40.8	1,062	258	19.5	1,914	97	1,757	-	61
18 to 19 years .....	3,638	2,120	58.3	1,850	270	12.7	1,518	302	1,061	15	140
20 to 24 years .....	9,133	6,455	70.7	5,896	559	8.7	2,677	1,398	954	32	292
25 to 54 years .....	53,770	40,018	74.4	38,388	1,630	4.1	13,752	11,244	689	519	1,299
25 to 34 years .....	21,764	16,122	74.1	15,250	872	5.4	5,642	4,585	435	96	526
25 to 29 years .....	10,661	7,926	74.3	7,455	471	5.9	2,735	2,153	269	38	275
30 to 34 years .....	11,103	8,196	73.8	7,794	401	4.9	2,907	2,432	166	58	251
35 to 44 years .....	18,960	14,566	76.8	14,067	499	3.4	4,394	3,619	174	204	397
35 to 39 years .....	10,097	7,686	76.1	7,402	283	3.7	2,411	2,032	97	81	201
40 to 44 years .....	8,864	6,880	77.6	6,665	215	3.1	1,984	1,588	77	122	196
45 to 54 years .....	13,046	9,331	71.5	9,071	260	2.8	3,716	3,039	80	220	377
45 to 49 years .....	7,135	5,323	74.6	5,167	156	2.9	1,812	1,515	59	88	150
50 to 54 years .....	5,911	4,008	67.8	3,904	104	2.6	1,903	1,524	21	132	227
55 to 64 years .....	11,213	5,105	45.5	4,983	122	2.4	6,108	4,156	22	397	1,533
55 to 59 years .....	5,525	3,032	54.9	2,954	79	2.6	2,493	1,811	17	199	466
60 to 64 years .....	5,688	2,073	36.4	2,029	43	2.1	3,615	2,345	5	198	1,067
65 years and over .....	17,299	1,524	8.8	1,475	50	3.3	15,774	8,552	17	722	6,484
65 to 69 years .....	5,570	978	17.6	939	39	4.0	4,592	2,712	3	121	1,757
70 to 74 years .....	4,418	351	7.9	345	6	1.6	4,067	2,296	8	133	1,630
75 years and over .....	7,310	196	2.7	191	5	2.6	7,115	3,543	6	469	3,097

**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	May 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>WHITE</b>											
16 years and over .....	160,271	107,075	66.8	102,350	4,724	4.4	53,197	22,623	6,581	2,917	21,075
16 to 19 years .....	11,148	6,278	56.3	5,403	875	13.9	4,870	306	4,201	13	349
16 to 17 years .....	5,278	2,451	46.4	2,036	415	16.9	2,827	70	2,634	4	120
18 to 19 years .....	5,869	3,827	65.2	3,367	460	12.0	2,042	236	1,567	10	229
20 to 24 years .....	14,696	11,590	78.9	10,765	825	7.1	3,106	1,119	1,525	61	400
25 to 54 years .....	89,289	75,456	84.5	72,812	2,645	3.5	13,833	9,562	817	1,156	2,298
25 to 34 years .....	35,838	30,466	85.0	29,171	1,295	4.2	5,372	3,793	536	264	779
25 to 29 years .....	17,432	14,838	85.1	14,171	667	4.5	2,594	1,744	348	100	402
30 to 34 years .....	18,406	15,628	84.9	15,000	628	4.0	2,778	2,049	189	164	377
35 to 44 years .....	31,709	27,287	86.1	26,475	812	3.0	4,422	3,148	195	386	693
35 to 39 years .....	16,779	14,419	85.9	14,000	419	2.9	2,360	1,747	122	161	329
40 to 44 years .....	14,931	12,868	86.2	12,476	393	3.1	2,062	1,401	72	225	364
45 to 54 years .....	21,742	17,703	81.4	17,165	538	3.0	4,039	2,621	86	506	827
45 to 49 years .....	11,906	9,937	83.5	9,589	347	3.5	1,969	1,303	63	241	362
50 to 54 years .....	9,836	7,766	79.0	7,576	190	2.5	2,070	1,318	23	265	465
55 to 64 years .....	18,557	10,465	56.4	10,183	282	2.7	8,092	3,706	19	727	3,640
55 to 59 years .....	9,166	6,152	67.1	5,991	161	2.6	3,014	1,620	15	360	1,020
60 to 64 years .....	9,391	4,314	45.9	4,192	121	2.8	5,078	2,086	4	367	2,620
65 years and over .....	26,581	3,285	12.4	3,187	98	3.0	23,296	7,930	19	960	14,388
65 to 69 years .....	8,984	2,011	22.4	1,949	61	3.0	6,973	2,446	5	222	4,300
70 to 74 years .....	7,109	798	11.2	773	24	3.0	6,312	2,136	8	211	3,957
75 years and over .....	10,488	477	4.5	464	13	2.7	10,011	3,347	6	526	6,131
<b>Men</b>											
16 years and over .....	77,010	59,200	76.9	56,574	2,626	4.4	17,810	366	3,218	1,633	12,592
16 to 19 years .....	5,626	3,298	58.6	2,836	462	14.0	2,328	6	2,127	8	187
16 to 17 years .....	2,702	1,299	48.1	1,090	210	16.1	1,402	1	1,334	4	64
18 to 19 years .....	2,924	1,999	68.3	1,746	253	12.6	925	5	793	4	123
20 to 24 years .....	7,213	6,194	85.9	5,751	443	7.1	1,019	20	777	36	187
25 to 54 years .....	44,241	41,755	94.4	40,277	1,479	3.5	2,486	132	305	774	1,275
25 to 34 years .....	17,858	17,019	95.3	16,316	703	4.1	839	37	221	191	390
25 to 29 years .....	8,655	8,204	94.8	7,867	337	4.1	451	12	154	71	213
30 to 34 years .....	9,203	8,815	95.8	8,449	366	4.2	389	25	67	119	177
35 to 44 years .....	15,725	14,990	95.3	14,541	449	3.0	734	51	60	247	376
35 to 39 years .....	8,351	7,993	95.7	7,765	228	2.8	358	23	43	109	183
40 to 44 years .....	7,373	6,997	94.9	6,776	221	3.2	376	27	17	138	193
45 to 54 years .....	10,659	9,746	91.4	9,419	327	3.4	912	45	23	336	509
45 to 49 years .....	5,853	5,396	92.2	5,180	215	4.0	458	21	16	174	246
50 to 54 years .....	4,805	4,351	90.5	4,239	112	2.6	455	24	7	162	263
55 to 64 years .....	8,831	6,010	68.1	5,828	182	3.0	2,821	53	4	434	2,329
55 to 59 years .....	4,405	3,520	79.9	3,419	101	2.9	885	27	1	221	637
60 to 64 years .....	4,426	2,490	56.3	2,409	81	3.3	1,935	26	3	214	1,693
65 years and over .....	11,099	1,943	17.5	1,882	60	3.1	9,156	155	6	380	8,614
65 to 69 years .....	4,107	1,157	28.2	1,123	34	3.0	2,950	37	4	133	2,776
70 to 74 years .....	3,104	484	15.6	465	18	3.8	2,620	34	-	97	2,489
75 years and over .....	3,888	302	7.8	294	8	2.5	3,586	85	2	150	3,349
<b>Women</b>											
16 years and over .....	83,261	47,874	57.5	45,776	2,099	4.4	35,387	22,257	3,363	1,284	8,483
16 to 19 years .....	5,522	2,980	54.0	2,568	413	13.8	2,542	300	2,074	5	162
16 to 17 years .....	2,576	1,151	44.7	946	205	17.8	1,425	69	1,300	-	56
18 to 19 years .....	2,945	1,829	62.1	1,621	208	11.3	1,117	232	774	6	106
20 to 24 years .....	7,483	5,396	72.1	5,014	382	7.1	2,087	1,100	748	26	214
25 to 54 years .....	45,048	33,701	74.8	32,535	1,166	3.5	11,347	9,430	512	382	1,023
25 to 34 years .....	17,980	13,447	74.8	12,855	592	4.4	4,533	3,756	315	73	388
25 to 29 years .....	8,777	6,634	75.6	6,304	330	5.0	2,143	1,732	194	28	189
30 to 34 years .....	9,203	6,813	74.0	6,552	262	3.8	2,389	2,024	121	45	200
35 to 44 years .....	15,985	12,297	76.9	11,934	363	3.0	3,687	3,098	134	139	317
35 to 39 years .....	8,427	6,426	76.3	6,234	192	3.0	2,001	1,724	79	52	146
40 to 44 years .....	7,557	5,871	77.7	5,699	172	2.9	1,686	1,374	55	87	171
45 to 54 years .....	11,083	7,957	71.8	7,746	211	2.6	3,127	2,576	63	170	318
45 to 49 years .....	6,052	4,541	75.0	4,409	132	2.9	1,511	1,282	47	67	116
50 to 54 years .....	5,031	3,415	67.9	3,337	79	2.3	1,616	1,294	16	103	202
55 to 64 years .....	9,726	4,455	45.8	4,355	100	2.2	5,271	3,653	15	292	1,311
55 to 59 years .....	4,761	2,632	55.3	2,571	60	2.3	2,129	1,593	14	139	383
60 to 64 years .....	4,966	1,824	36.7	1,784	40	2.2	3,142	2,060	1	153	928
65 years and over .....	15,483	1,342	8.7	1,305	38	2.8	14,140	7,774	14	579	5,773
65 to 69 years .....	4,877	853	17.5	826	27	3.2	4,024	2,409	1	89	1,524
70 to 74 years .....	4,006	314	7.8	308	6	1.8	3,692	2,102	8	114	1,468
75 years and over .....	6,600	175	2.7	170	5	2.9	6,425	3,263	4	376	2,781

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	May 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	21,261	13,499	63.5	12,093	1,406	10.4	7,763	2,756	1,653	763	2,591
16 to 19 years .....	2,150	784	36.5	547	237	30.2	1,366	86	1,188	12	80
16 to 17 years .....	1,064	273	25.6	161	112	41.1	791	28	747	-	16
18 to 19 years .....	1,086	512	47.1	387	125	24.4	575	58	441	12	64
20 to 24 years .....	2,443	1,689	69.1	1,362	328	19.4	754	257	279	22	197
25 to 54 years .....	12,063	9,665	80.1	8,895	771	8.0	2,397	1,349	175	379	534
25 to 34 years .....	5,343	4,252	79.6	3,785	467	11.0	1,092	653	115	79	245
25 to 29 years .....	2,688	2,134	79.4	1,895	240	11.2	554	328	69	22	135
30 to 34 years .....	2,655	2,117	79.7	1,890	227	10.7	538	325	47	57	110
35 to 44 years .....	4,063	3,390	83.4	3,165	224	6.6	673	346	39	139	149
35 to 39 years .....	2,265	1,880	83.0	1,728	152	8.1	385	197	24	75	88
40 to 44 years .....	1,797	1,510	84.0	1,437	72	4.8	288	149	14	63	61
45 to 54 years .....	2,657	2,024	76.2	1,945	79	3.9	633	350	21	121	140
45 to 49 years .....	1,392	1,095	78.6	1,050	44	4.0	298	165	14	54	65
50 to 54 years .....	1,264	929	73.5	894	35	3.8	335	186	7	67	75
55 to 64 years .....	2,107	1,073	50.9	1,023	49	4.6	1,034	397	5	184	449
55 to 59 years .....	1,079	636	58.9	603	33	5.2	443	184	4	106	150
60 to 64 years .....	1,028	437	42.5	421	16	3.7	591	213	2	78	299
65 years and over .....	2,497	287	11.5	266	21	7.3	2,211	667	6	206	1,332
65 to 69 years .....	915	173	18.9	157	17	9.7	742	242	2	57	441
70 to 74 years .....	622	82	13.2	78	4	5.3	540	169	-	34	337
75 years and over .....	961	31	3.3	32	-	( <sup>1</sup> )	929	257	4	114	554
<b>Men</b>											
16 years and over .....	9,550	6,679	69.9	5,957	722	10.8	2,871	139	790	401	1,541
16 to 19 years .....	1,063	424	39.9	285	138	32.6	639	3	590	2	44
16 to 17 years .....	541	143	26.5	77	66	46.3	398	3	384	-	10
18 to 19 years .....	522	280	53.7	208	72	25.7	242	-	206	2	34
20 to 24 years .....	1,114	831	74.6	663	168	20.2	283	11	129	15	127
25 to 54 years .....	5,428	4,743	87.4	4,364	379	8.0	685	81	68	215	320
25 to 34 years .....	2,422	2,154	88.9	1,933	222	10.3	268	38	39	61	130
25 to 29 years .....	1,227	1,101	89.8	985	116	10.5	125	19	24	15	67
30 to 34 years .....	1,195	1,053	88.1	947	106	10.0	142	19	14	46	63
35 to 44 years .....	1,820	1,609	88.4	1,495	114	7.1	212	24	18	80	90
35 to 39 years .....	1,012	890	88.0	814	76	8.5	122	13	13	47	49
40 to 44 years .....	808	718	88.8	680	38	5.2	90	11	5	33	41
45 to 54 years .....	1,185	981	82.7	937	44	4.5	205	19	11	74	101
45 to 49 years .....	610	517	84.7	488	29	5.6	94	6	5	35	47
50 to 54 years .....	575	464	80.6	449	15	3.2	111	13	6	39	54
55 to 64 years .....	937	545	58.2	517	28	5.1	392	21	-	91	280
55 to 59 years .....	473	321	67.7	305	15	4.7	153	16	-	51	86
60 to 64 years .....	463	224	48.4	212	13	5.6	239	6	-	40	194
65 years and over .....	1,009	136	13.5	127	9	6.5	872	23	3	77	770
65 to 69 years .....	369	74	20.0	69	5	( <sup>1</sup> )	296	2	-	28	266
70 to 74 years .....	288	48	16.5	43	4	( <sup>1</sup> )	240	15	-	21	204
75 years and over .....	351	15	4.2	15	-	( <sup>1</sup> )	337	5	3	28	300
<b>Women</b>											
16 years and over .....	11,711	6,820	58.2	6,136	684	10.0	4,891	2,616	864	362	1,050
16 to 19 years .....	1,088	361	33.2	262	99	27.4	727	84	598	10	35
16 to 17 years .....	523	129	24.7	83	46	35.4	394	25	363	-	5
18 to 19 years .....	565	232	41.0	179	53	22.9	333	58	235	10	30
20 to 24 years .....	1,329	858	64.6	698	160	18.6	471	245	150	6	69
25 to 54 years .....	6,635	4,922	74.2	4,531	391	8.0	1,713	1,268	107	124	214
25 to 34 years .....	2,921	2,097	71.8	1,852	245	11.7	824	614	77	18	115
25 to 29 years .....	1,461	1,033	70.7	909	124	12.0	428	309	44	7	68
30 to 34 years .....	1,460	1,064	72.9	943	121	11.4	396	306	32	11	47
35 to 44 years .....	2,242	1,781	79.4	1,670	111	6.2	461	322	20	59	59
35 to 39 years .....	1,253	990	79.0	914	76	7.7	263	184	12	28	40
40 to 44 years .....	989	791	80.0	757	35	4.4	198	139	9	31	20
45 to 54 years .....	1,471	1,043	70.9	1,008	35	3.4	428	331	10	47	40
45 to 49 years .....	782	578	73.9	562	15	2.6	204	158	9	19	18
50 to 54 years .....	689	466	67.6	446	20	4.3	224	173	2	28	21
55 to 64 years .....	1,171	528	45.1	506	22	4.1	643	375	5	93	169
55 to 59 years .....	606	315	52.1	297	18	5.7	290	168	4	55	64
60 to 64 years .....	565	213	37.6	209	4	1.7	352	207	2	38	105
65 years and over .....	1,489	151	10.1	138	12	8.0	1,338	644	3	129	562
65 to 69 years .....	546	100	18.3	87	12	12.3	446	239	2	30	175
70 to 74 years .....	334	34	10.3	34	-	( <sup>1</sup> )	300	153	-	13	133
75 years and over .....	609	17	2.7	17	-	( <sup>1</sup> )	593	252	1	86	254

<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	May 1990								
	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	27,556	17,565	63.7	15,926	216	15,711	1,638	9.3	9,991
16 to 19 years .....	2,685	980	36.5	714	4	711	266	27.1	1,704
16 to 17 years .....	1,327	347	26.1	221	-	221	126	36.4	980
18 to 19 years .....	1,358	633	46.7	494	4	490	140	22.1	724
20 to 24 years .....	3,103	2,135	68.8	1,766	32	1,734	369	17.3	967
25 to 54 years .....	16,039	12,744	79.5	11,817	141	11,676	928	7.3	3,294
25 to 34 years .....	6,962	5,484	78.8	4,946	52	4,894	537	9.8	1,479
25 to 29 years .....	3,494	2,715	77.7	2,439	24	2,415	276	10.2	779
30 to 34 years .....	3,468	2,769	79.8	2,507	28	2,480	261	9.4	699
35 to 44 years .....	5,475	4,505	82.3	4,223	65	4,158	283	6.3	970
35 to 39 years .....	3,070	2,507	81.7	2,326	36	2,290	181	7.2	563
40 to 44 years .....	2,406	1,999	83.1	1,897	30	1,868	102	5.1	407
45 to 54 years .....	3,601	2,755	76.5	2,647	24	2,624	108	3.9	846
45 to 49 years .....	1,974	1,548	78.4	1,488	16	1,473	60	3.9	426
50 to 54 years .....	1,627	1,207	74.2	1,159	8	1,151	48	4.0	420
55 to 64 years .....	2,633	1,343	51.0	1,288	23	1,265	55	4.1	1,291
55 to 59 years .....	1,344	807	60.0	768	12	756	38	4.8	537
60 to 64 years .....	1,289	536	41.6	519	10	509	16	3.0	753
65 years and over .....	3,097	362	11.7	342	16	326	21	5.7	2,735
65 to 69 years .....	1,180	229	19.4	213	7	206	16	7.2	951
70 to 74 years .....	779	90	11.5	85	3	83	4	4.8	689
75 years and over .....	1,138	43	3.8	44	7	37	-	( <sup>1</sup> )	1,095
<b>Men</b>									
16 years and over .....	12,532	8,897	71.0	8,049	177	7,872	846	9.5	3,635
16 to 19 years .....	1,335	521	39.1	371	4	367	150	28.9	814
16 to 17 years .....	670	179	26.7	106	-	106	73	40.9	491
18 to 19 years .....	665	343	51.5	265	4	262	77	22.5	323
20 to 24 years .....	1,453	1,076	74.0	884	29	855	192	17.9	377
25 to 54 years .....	7,316	6,427	87.8	5,963	112	5,851	463	7.2	890
25 to 34 years .....	3,179	2,809	88.4	2,552	37	2,515	257	9.2	370
25 to 29 years .....	1,610	1,422	88.3	1,287	18	1,269	135	9.5	188
30 to 34 years .....	1,568	1,386	88.4	1,265	18	1,246	122	8.8	182
35 to 44 years .....	2,500	2,237	89.5	2,089	55	2,034	147	6.6	263
35 to 39 years .....	1,401	1,247	89.0	1,158	30	1,128	89	7.1	154
40 to 44 years .....	1,099	990	90.1	932	25	906	58	5.9	109
45 to 54 years .....	1,638	1,381	84.3	1,322	20	1,302	59	4.3	257
45 to 49 years .....	892	767	86.0	730	12	718	36	4.7	125
50 to 54 years .....	746	615	82.4	592	8	584	23	3.7	132
55 to 64 years .....	1,147	693	60.4	660	18	642	33	4.8	454
55 to 59 years .....	580	406	70.0	386	9	378	20	4.9	174
60 to 64 years .....	567	286	50.6	274	9	265	13	4.5	280
65 years and over .....	1,281	180	14.1	172	15	157	8	4.7	1,101
65 to 69 years .....	487	104	21.5	100	6	94	4	4.0	382
70 to 74 years .....	366	53	14.4	48	3	46	4	( <sup>1</sup> )	314
75 years and over .....	427	23	5.4	23	7	16	-	( <sup>1</sup> )	405
<b>Women</b>									
16 years and over .....	15,024	8,668	57.7	7,877	38	7,839	791	9.1	6,356
16 to 19 years .....	1,350	459	34.0	343	-	344	115	25.2	891
16 to 17 years .....	657	168	25.6	115	-	115	53	31.5	489
18 to 19 years .....	692	291	42.0	228	-	228	63	21.5	401
20 to 24 years .....	1,649	1,059	64.2	882	3	879	177	16.7	590
25 to 54 years .....	8,722	6,318	72.4	5,853	29	5,824	464	7.3	2,405
25 to 34 years .....	3,784	2,675	70.7	2,395	15	2,379	280	10.5	1,109
25 to 29 years .....	1,884	1,293	68.6	1,152	6	1,146	141	10.9	592
30 to 34 years .....	1,900	1,382	72.8	1,243	9	1,233	140	10.1	517
35 to 44 years .....	2,976	2,269	76.2	2,133	10	2,123	135	6.0	707
35 to 39 years .....	1,669	1,260	75.5	1,168	6	1,162	92	7.3	409
40 to 44 years .....	1,306	1,009	77.2	966	4	961	43	4.3	298
45 to 54 years .....	1,963	1,374	70.0	1,325	4	1,322	49	3.6	589
45 to 49 years .....	1,082	781	72.2	758	4	754	24	3.0	301
50 to 54 years .....	880	593	67.3	567	-	567	25	4.2	288
55 to 64 years .....	1,487	650	43.7	628	5	623	22	3.4	837
55 to 59 years .....	764	401	52.4	382	4	378	18	4.6	364
60 to 64 years .....	723	249	34.5	246	1	245	3	1.4	473
65 years and over .....	1,816	182	10.0	170	1	169	12	6.7	1,634
65 to 69 years .....	693	125	18.0	112	1	111	12	9.9	568
70 to 74 years .....	412	37	9.0	37	-	37	-	( <sup>1</sup> )	375
75 years and over .....	711	21	2.9	21	-	21	-	( <sup>1</sup> )	690

<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	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
<b>TOTAL</b>								
Civilian noninstitutional population .....	186,181	187,828	81,524	82,581	90,432	91,414	14,224	13,832
Civilian labor force .....	123,196	124,640	63,500	64,278	52,078	53,103	7,617	7,258
Percent of population .....	66.2	66.4	77.9	77.8	57.6	58.1	53.6	52.5
Employed .....	117,039	118,277	60,899	61,417	49,682	50,742	6,459	6,118
Agriculture .....	3,284	3,452	2,385	2,481	668	713	232	258
Nonagricultural industries .....	113,755	114,825	58,514	58,936	49,013	50,029	6,227	5,860
Unemployed .....	6,156	6,363	2,602	2,861	2,396	2,362	1,158	1,141
Unemployment rate .....	5.0	5.1	4.1	4.5	4.6	4.4	15.2	15.7
Not in labor force .....	62,985	63,188	18,024	18,303	38,354	38,311	6,607	6,574
<b>White</b>								
Civilian noninstitutional population .....	159,200	160,271	70,566	71,384	77,063	77,740	11,572	11,148
Civilian labor force .....	105,898	107,075	55,265	55,902	44,039	44,894	6,593	6,278
Percent of population .....	66.5	66.8	78.3	78.3	57.1	57.7	57.0	56.3
Employed .....	101,412	102,350	53,354	53,739	42,324	43,208	5,734	5,403
Agriculture .....	3,077	3,236	2,219	2,308	632	674	226	254
Nonagricultural industries .....	98,335	99,114	51,135	51,431	41,692	42,534	5,508	5,149
Unemployed .....	4,486	4,724	1,911	2,163	1,716	1,686	859	875
Unemployment rate .....	4.2	4.4	3.5	3.9	3.9	3.8	13.0	13.9
Not in labor force .....	53,302	53,197	15,300	15,482	33,023	32,845	4,979	4,870
<b>Black</b>								
Civilian noninstitutional population .....	20,986	21,261	8,352	8,487	10,461	10,624	2,173	2,150
Civilian labor force .....	13,372	13,499	6,222	6,255	6,293	6,459	857	784
Percent of population .....	63.7	63.5	74.5	73.7	60.2	60.8	39.4	36.5
Employed .....	11,882	12,093	5,616	5,672	5,694	5,874	572	547
Agriculture .....	158	146	128	121	25	23	5	2
Nonagricultural industries .....	11,724	11,947	5,489	5,551	5,668	5,851	567	545
Unemployed .....	1,491	1,406	606	584	599	585	285	237
Unemployment rate .....	11.1	10.4	9.7	9.3	9.5	9.1	33.3	30.2
Not in labor force .....	7,613	7,763	2,129	2,232	4,168	4,165	1,316	1,366

**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	May 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	14,956	7,263	48.6	6,394	1,142	5,252	869	279	590	12.0
16 to 19 years .....	10,394	4,677	45.0	4,028	361	3,667	649	153	497	13.9
20 to 24 years .....	4,562	2,585	56.7	2,366	781	1,585	220	126	93	6.5
High school .....	8,542	3,726	43.6	3,169	179	2,991	556	107	450	14.9
College .....	6,414	3,537	55.1	3,224	963	2,261	313	173	140	8.8
Full-time students .....	5,570	2,766	49.7	2,485	502	1,983	281	153	128	10.2
Part-time students .....	844	771	91.3	739	461	278	32	20	12	4.2
Men, 16 to 24 years .....	7,509	3,637	48.4	3,189	572	2,617	448	165	282	12.3
16 to 19 years .....	5,264	2,378	45.2	2,046	174	1,872	332	90	242	14.0
20 to 24 years .....	2,245	1,259	56.1	1,143	398	745	116	75	41	9.2
High school .....	4,491	1,994	44.4	1,705	96	1,610	289	72	217	14.5
College .....	3,017	1,643	54.4	1,484	476	1,008	159	94	65	9.7
Full-time students .....	2,680	1,333	49.7	1,184	277	907	148	84	64	11.1
Part-time students .....	337	310	92.0	299	199	100	11	10	1	3.5
Women, 16 to 24 years .....	7,447	3,626	48.7	3,205	570	2,634	422	114	308	11.6
16 to 19 years .....	5,129	2,299	44.8	1,982	187	1,795	317	62	255	13.8
20 to 24 years .....	2,318	1,327	57.2	1,223	383	839	104	51	53	7.9
High school .....	4,051	1,732	42.8	1,464	83	1,381	268	35	233	15.5
College .....	3,397	1,894	55.8	1,741	487	1,254	154	79	75	8.1
Full-time students .....	2,889	1,434	49.6	1,301	225	1,076	132	69	64	9.2
Part-time students .....	507	461	90.8	440	262	177	21	10	11	4.6
<b>White</b>										
Total, 16 to 24 years .....	12,056	6,284	52.1	5,623	977	4,646	660	223	437	10.5
16 to 19 years .....	8,283	4,072	49.2	3,571	311	3,261	500	131	369	12.3
20 to 24 years .....	3,773	2,212	58.6	2,052	666	1,385	160	92	68	7.2
Men .....	6,050	3,155	52.2	2,810	491	2,319	345	128	217	10.9
Women .....	6,006	3,128	52.1	2,813	486	2,327	315	95	220	10.1
High school .....	6,709	3,249	48.4	2,825	156	2,669	424	93	332	13.1
College .....	5,347	3,034	56.7	2,798	821	1,977	236	130	106	7.8
Full-time students .....	4,652	2,400	51.6	2,190	440	1,750	211	110	100	8.8
Part-time students .....	696	634	91.2	609	381	227	25	20	5	4.0
<b>Black</b>										
Total, 16 to 24 years .....	2,175	702	32.3	525	100	426	177	45	132	25.2
16 to 19 years .....	1,660	467	28.2	338	29	309	129	20	109	27.6
20 to 24 years .....	515	235	45.6	187	71	117	48	25	22	20.3
Men .....	1,072	343	32.0	256	47	209	86	31	56	25.2
Women .....	1,103	359	32.6	269	52	217	90	14	76	25.1
High school .....	1,476	377	25.5	262	14	248	115	13	102	30.5
College .....	698	325	46.5	263	86	177	62	32	30	19.0
Full-time students .....	601	238	39.6	181	39	141	57	33	25	24.1
Part-time students .....	97	87	89.3	82	47	36	4	-	5	5.0
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,198	497	41.5	420	104	315	77	29	49	15.6
16 to 19 years .....	883	305	34.5	242	28	214	63	17	46	20.6
20 to 24 years .....	315	193	61.1	178	76	101	15	12	3	7.7
Men .....	582	269	46.2	231	51	180	38	18	19	14.0
Women .....	616	228	37.0	188	53	135	40	11	29	17.5
High school .....	817	266	32.5	209	27	182	57	12	45	21.5
College .....	381	231	60.7	211	77	134	20	17	3	8.8
Full-time students .....	311	167	53.6	149	28	120	18	16	2	10.8
Part-time students .....	70	65	( <sup>2</sup> )	62	49	14	2	1	1	( <sup>2</sup> )

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	May 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	16,675	13,721	82.3	12,255	10,540	1,715	1,466	1,334	131	10.7
16 to 19 years .....	3,439	2,581	75.1	2,089	1,565	524	491	441	50	19.0
20 to 24 years .....	13,236	11,140	84.2	10,166	8,974	1,191	974	893	81	8.7
Less than 4 years of high school .....	4,163	2,760	66.3	2,207	1,816	392	553	495	58	20.0
4 years of high school .....	8,085	6,907	85.4	6,272	5,393	880	634	572	62	9.2
1 to 3 years of college .....	2,961	2,673	90.3	2,461	2,111	350	211	200	11	7.9
4 years of college or more .....	1,467	1,381	94.1	1,314	1,220	94	67	68	-	4.9
<b>Men, 16 to 24 years .....</b>	<b>8,118</b>	<b>7,452</b>	<b>91.8</b>	<b>6,653</b>	<b>5,996</b>	<b>656</b>	<b>800</b>	<b>754</b>	<b>46</b>	<b>10.7</b>
16 to 19 years .....	1,697	1,441	84.9	1,161	926	234	281	263	18	19.5
20 to 24 years .....	6,422	6,011	93.6	5,492	5,070	422	519	491	28	8.6
Less than 4 years of high school .....	2,197	1,873	85.3	1,543	1,353	190	330	313	17	17.6
4 years of high school .....	3,986	3,724	93.4	3,383	3,085	299	341	316	25	9.2
1 to 3 years of college .....	1,292	1,240	96.0	1,145	1,011	134	95	91	4	7.7
4 years of college or more .....	644	615	95.5	582	548	34	33	33	-	5.4
<b>Women, 16 to 24 years .....</b>	<b>8,557</b>	<b>6,268</b>	<b>73.3</b>	<b>5,602</b>	<b>4,543</b>	<b>1,059</b>	<b>666</b>	<b>580</b>	<b>85</b>	<b>10.6</b>
16 to 19 years .....	1,742	1,140	65.4	929	639	290	211	178	33	18.5
20 to 24 years .....	6,815	5,129	75.3	4,673	3,904	769	455	402	53	8.9
Less than 4 years of high school .....	1,966	887	45.1	664	463	201	223	182	41	25.1
4 years of high school .....	4,099	3,183	77.7	2,889	2,308	581	294	256	38	9.2
1 to 3 years of college .....	1,668	1,433	85.9	1,317	1,100	216	116	109	7	8.1
4 years of college or more .....	824	766	93.0	732	672	60	34	34	-	4.4
<b>White</b>										
Total, 16 to 24 years .....	13,788	11,584	84.0	10,545	9,110	1,436	1,039	947	92	9.0
16 to 19 years .....	2,865	2,206	77.0	1,832	1,381	450	375	345	30	17.0
20 to 24 years .....	10,923	9,378	85.9	8,713	7,728	985	665	603	62	7.1
Men .....	6,789	6,336	93.3	5,777	5,235	542	560	529	31	8.8
Women .....	6,999	5,248	75.0	4,768	3,875	894	480	419	61	9.1
Less than 4 years of high school .....	3,332	2,331	70.0	1,926	1,600	327	405	368	37	17.4
4 years of high school .....	6,646	5,751	86.5	5,328	4,594	735	423	377	45	7.4
1 to 3 years of college .....	2,483	2,251	90.6	2,095	1,799	296	155	145	10	6.9
4 years of college or more .....	1,327	1,251	94.3	1,195	1,117	78	57	57	-	4.5
<b>Black</b>										
Total, 16 to 24 years .....	2,419	1,772	73.2	1,384	1,137	247	388	358	30	21.9
16 to 19 years .....	490	317	64.7	209	143	66	108	93	15	34.1
20 to 24 years .....	1,929	1,455	75.4	1,175	994	181	280	265	15	19.3
Men .....	1,105	912	82.5	692	589	104	220	208	12	24.1
Women .....	1,314	860	65.4	691	548	143	168	150	18	19.6
Less than 4 years of high school .....	692	334	48.3	198	141	57	136	117	18	40.6
4 years of high school .....	1,266	1,025	80.9	826	693	133	199	187	12	19.4
1 to 3 years of college .....	375	329	87.9	284	242	42	45	45	-	13.7
4 years of college or more .....	86	84	97.1	75	61	14	9	9	-	10.4
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,155	1,633	75.8	1,452	1,289	163	181	163	18	11.1
16 to 19 years .....	538	373	69.2	294	246	48	79	76	3	21.2
20 to 24 years .....	1,617	1,260	78.0	1,158	1,043	115	102	87	15	8.1
Men .....	1,153	1,057	91.6	958	884	74	99	88	11	9.3
Women .....	1,002	576	57.5	494	404	89	83	75	8	14.3
Less than 4 years of high school .....	1,179	823	69.8	709	649	60	113	101	12	13.8
4 years of high school .....	744	600	80.7	549	466	83	51	45	6	8.5
1 to 3 years of college .....	193	170	88.3	156	138	18	14	14	-	8.3
4 years of college or more .....	40	40	( <sup>2</sup> )	37	35	1	3	3	-	( <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							
	May 1989	May 1990	Total		Employed		Unemployed			
			May 1989	May 1990	May 1989	May 1990	Number		Percent of labor force	
							May 1989	May 1990	May 1989	May 1990
<b>VIETNAM-ERA VETERANS</b>										
Total, 35 years and over .....	7,422	7,623	6,772	6,930	6,583	6,696	190	234	2.8	3.4
35 to 49 years .....	6,467	6,523	6,143	6,164	5,968	5,947	176	217	2.9	3.5
35 to 39 years .....	1,789	1,446	1,685	1,338	1,621	1,290	64	49	3.8	3.6
40 to 44 years .....	3,276	3,326	3,133	3,199	3,055	3,091	78	109	2.5	3.4
45 to 49 years .....	1,402	1,751	1,324	1,626	1,291	1,567	33	59	2.5	3.6
50 years and over .....	955	1,100	629	767	615	749	14	17	2.2	2.3
<b>NONVETERANS</b>										
Total, 35 to 49 years .....	16,064	17,137	14,992	16,015	14,497	15,438	495	577	3.3	3.6
35 to 39 years .....	7,358	7,882	6,973	7,497	6,721	7,242	252	255	3.6	3.4
40 to 44 years .....	4,636	5,039	4,321	4,688	4,186	4,524	135	163	3.1	3.5
45 to 49 years .....	4,070	4,215	3,698	3,830	3,590	3,671	108	159	2.9	4.1

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. Data

for 30-to 34-year-old veterans are no longer shown in this table because the group is rapidly disappearing (into the 35-39 age category) and the numbers remaining for some labor force categories are not large enough to warrant their continued publication.

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

(In thousands)

Sex, age, and race	May 1990							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	97,873	96,187	1,686	20,403	17,524	2,879	5,157	1,206
16 to 19 years .....	1,926	1,841	85	4,191	3,930	261	594	547
16 to 17 years .....	170	156	14	2,087	2,032	55	162	379
18 to 19 years .....	1,757	1,686	71	2,104	1,898	206	432	168
20 years and over .....	95,947	94,346	1,601	16,212	13,594	2,618	4,563	659
20 to 24 years .....	9,755	9,500	255	2,776	2,299	477	1,020	174
25 years and over .....	86,192	84,845	1,346	13,436	11,295	2,141	3,543	485
25 to 54 years .....	75,014	73,893	1,121	9,614	7,826	1,788	3,226	346
55 years and over .....	11,178	10,952	226	3,822	3,469	352	317	139
Men, 16 years and over .....	57,871	56,925	946	6,753	5,527	1,225	2,997	476
16 to 19 years .....	1,100	1,044	56	2,106	1,969	137	354	259
20 years and over .....	56,771	55,881	890	4,646	3,559	1,088	2,643	217
20 to 24 years .....	5,468	5,310	158	1,167	956	212	566	69
25 years and over .....	51,303	50,571	732	3,479	2,603	876	2,077	148
25 to 54 years .....	44,342	43,732	610	1,898	1,177	721	1,865	77
55 years and over .....	6,962	6,839	122	1,581	1,425	155	212	72
Women, 16 years and over .....	40,002	39,262	740	13,651	11,997	1,654	2,160	730
16 to 19 years .....	826	797	29	2,085	1,961	123	240	288
20 years and over .....	39,176	38,465	711	11,566	10,035	1,530	1,919	442
20 to 24 years .....	4,287	4,191	97	1,609	1,343	266	454	106
25 years and over .....	34,888	34,274	614	9,957	8,693	1,265	1,466	336
25 to 54 years .....	30,672	30,161	511	7,716	6,649	1,067	1,361	269
55 years and over .....	4,216	4,113	103	2,241	2,044	197	105	67
<b>White</b>								
Men, 16 years and over .....	50,756	49,939	818	5,818	4,856	962	2,265	361
16 to 19 years .....	980	927	52	1,856	1,740	116	266	196
20 years and over .....	49,777	49,011	765	3,962	3,116	846	1,998	165
20 to 24 years .....	4,746	4,604	142	1,005	833	172	391	52
25 years and over .....	45,031	44,407	623	2,957	2,283	674	1,608	113
25 to 54 years .....	38,743	38,230	513	1,534	983	551	1,424	54
55 years and over .....	6,287	6,178	110	1,423	1,300	123	184	59
Women, 16 years and over .....	33,518	32,931	587	12,258	10,899	1,358	1,554	545
16 to 19 years .....	712	686	26	1,855	1,746	109	210	203
20 years and over .....	32,805	32,244	561	10,403	9,153	1,250	1,344	342
20 to 24 years .....	3,648	3,575	74	1,366	1,162	204	304	78
25 years and over .....	29,157	28,670	487	9,037	7,991	1,046	1,040	264
25 to 54 years .....	25,483	25,083	399	7,052	6,162	890	958	208
55 years and over .....	3,674	3,586	88	1,985	1,830	155	82	56
<b>Black</b>								
Men, 16 years and over .....	5,278	5,174	104	679	469	210	624	98
16 to 19 years .....	81	78	3	204	184	20	84	54
20 years and over .....	5,197	5,096	102	474	285	190	540	43
20 to 24 years .....	555	544	11	108	74	35	155	13
25 years and over .....	4,642	4,551	91	366	211	155	386	30
25 to 54 years .....	4,124	4,044	80	240	108	132	363	16
55 years and over .....	518	507	11	126	103	23	23	14
Women, 16 years and over .....	5,064	4,938	125	1,073	824	249	533	151
16 to 19 years .....	91	89	2	171	157	14	28	70
20 years and over .....	4,972	4,849	123	902	667	235	504	81
20 to 24 years .....	509	488	21	189	136	53	136	24
25 years and over .....	4,463	4,361	102	713	531	182	368	57
25 to 54 years .....	4,039	3,952	87	492	348	144	347	45
55 years and over .....	424	409	15	221	183	38	21	12

<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	May 1990									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	99,707	66.9	94,550	5,157	5.2	49,394	21,241	7,973	2,667	17,513
Husbands .....	40,072	78.2	38,898	1,174	2.9	11,196	183	192	1,072	9,749
With employed wife .....	26,977	92.0	26,232	746	2.8	2,357	77	106	431	1,743
With unemployed wife .....	864	92.3	778	86	9.9	72	-	3	18	51
With wife not in labor force .....	12,231	58.2	11,888	343	2.8	8,767	106	83	622	7,955
Wives .....	30,270	59.0	29,334	936	3.1	20,998	16,406	351	478	3,762
With employed husband .....	27,010	69.4	26,232	778	2.9	11,888	10,423	302	198	965
With unemployed husband .....	831	70.8	746	86	10.3	343	281	11	15	36
With husband not in labor force .....	2,429	21.7	2,357	72	3.0	8,767	5,703	38	265	2,761
Relatives in married-couple families .....	12,740	62.6	11,392	1,348	10.6	7,607	779	5,194	343	1,290
16 to 19 years .....	4,667	52.8	4,029	637	13.7	4,175	63	3,906	8	199
20 to 24 years .....	4,399	73.4	3,965	434	9.9	1,592	163	1,151	39	240
25 years and over .....	3,675	66.6	3,398	277	7.5	1,840	553	137	296	851
Women who maintain families .....	6,899	62.4	6,394	505	7.3	4,162	2,784	234	262	882
Relatives in families maintained by women .....	5,562	60.1	4,690	871	15.7	3,686	720	1,643	352	971
16 to 19 years .....	1,376	47.1	1,042	334	24.3	1,545	89	1,296	16	144
20 to 24 years .....	1,557	73.0	1,281	276	17.7	577	124	281	22	149
25 years and over .....	2,628	62.7	2,367	261	9.9	1,564	507	66	314	678
Men who maintain families .....	2,303	78.1	2,188	115	5.0	646	40	32	74	500
Relatives in families maintained by men .....	1,861	62.9	1,654	207	11.1	1,099	329	327	86	357
16 to 19 years .....	310	53.5	249	61	19.7	269	17	226	2	24
20 to 24 years .....	495	77.8	441	54	10.9	141	21	76	5	39
25 years and over .....	1,056	60.5	964	92	8.7	689	291	25	79	294

<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.

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	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
Total, 16 years and over .....	3,249	3,473	4.8	5.1	2,907	2,890	5.2	5.1
Married, spouse present .....	1,134	1,282	2.7	3.0	1,087	1,014	3.5	3.2
Widowed, divorced, or separated .....	337	450	4.9	6.1	658	615	6.0	5.4
Single (never married) .....	1,778	1,741	9.6	9.4	1,162	1,261	8.3	9.0
White, 16 years and over .....	2,393	2,626	4.1	4.4	2,093	2,099	4.4	4.4
Married, spouse present .....	909	1,035	2.4	2.8	881	841	3.2	3.0
Widowed, divorced, or separated .....	242	357	4.2	5.8	474	417	5.4	4.6
Single (never married) .....	1,242	1,234	8.1	8.0	738	840	6.6	7.6
Black, 16 years and over .....	767	722	11.5	10.8	724	684	10.8	10.0
Married, spouse present .....	187	191	5.8	5.9	158	125	6.2	5.1
Widowed, divorced, or separated .....	89	78	9.7	7.9	172	170	9.3	8.6
Single (never married) .....	491	452	19.6	18.6	394	389	17.2	16.2
Total, 25 years and over .....	2,002	2,226	3.6	3.9	1,853	1,802	4.1	3.9
Married, spouse present .....	1,051	1,221	2.6	3.0	906	878	3.2	3.0
Widowed, divorced, or separated .....	322	423	4.9	5.9	595	563	5.7	5.2
Single (never married) .....	630	581	6.9	6.3	350	361	5.7	5.5
White, 25 years and over .....	1,493	1,721	3.0	3.5	1,344	1,304	3.5	3.3
Married, spouse present .....	846	989	2.3	2.7	739	720	2.9	2.8
Widowed, divorced, or separated .....	232	334	4.2	5.6	422	380	5.0	4.4
Single (never married) .....	415	397	5.6	5.2	184	204	3.9	4.1
Black, 25 years and over .....	445	416	6.4	7.7	445	425	8.2	7.6
Married, spouse present .....	173	181	5.6	5.8	122	117	5.1	5.2
Widowed, divorced, or separated .....	84	76	9.4	7.8	162	156	9.0	8.1
Single (never married) .....	187	158	14.3	11.9	161	152	12.8	10.7

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
Total, 16 years and over .....	6,156	6,363	5.0	5.1	4.8	5.1	5.2	5.1
Managerial and professional specialty .....	588	589	1.9	1.9	1.7	1.8	2.1	2.0
Executive, administrative, and managerial .....	323	294	2.1	2.0	1.7	1.7	2.7	2.3
Professional specialty .....	265	295	1.7	1.8	1.7	1.9	1.6	1.8
Technical, sales, and administrative support .....	1,470	1,444	3.9	3.7	3.4	3.4	4.2	3.9
Technicians and related support .....	98	113	2.6	2.8	2.2	2.5	3.1	3.1
Sales occupations .....	594	629	4.1	4.2	3.0	3.3	5.1	5.1
Administrative support, including clerical .....	779	702	4.1	3.6	4.9	4.0	3.9	3.5
Service occupations .....	1,089	1,125	6.6	6.7	5.9	6.7	7.0	6.8
Private household .....	94	53	9.7	6.7	( <sup>1</sup> )	( <sup>1</sup> )	9.4	6.5
Protective service .....	65	90	3.3	4.4	2.9	3.8	5.2	7.9
Service, except private household and protective .....	930	982	6.9	7.1	6.9	7.7	6.8	6.7
Precision production, craft, and repair .....	721	735	5.1	5.1	4.9	5.1	6.6	4.9
Mechanics and repairers .....	154	142	3.2	3.1	3.2	3.0	2.3	5.2
Construction trades .....	385	433	7.2	7.6	7.2	7.6	9.9	6.7
Other precision production, craft, and repair .....	182	160	4.4	3.9	3.7	3.7	6.8	4.7
Operators, fabricators, and laborers .....	1,342	1,530	6.9	8.0	6.6	7.8	7.9	8.5
Machine operators, assemblers, and inspectors .....	641	592	7.2	6.9	6.1	6.0	8.6	8.2
Transportation and material moving occupations .....	208	269	4.0	5.3	4.1	5.4	3.8	4.3
Handlers, equipment cleaners, helpers, and laborers .....	493	669	9.3	12.2	9.8	12.3	7.2	11.7
Construction laborers .....	126	175	15.0	17.6	14.9	17.2	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	368	493	8.3	11.0	8.6	10.9	6.8	11.2
Farming, forestry, and fishing .....	205	168	5.4	4.4	5.3	3.9	5.6	6.6
No previous work experience .....	709	753	-	-	-	-	-	-
16 to 19 years .....	465	506	-	-	-	-	-	-
20 to 24 years .....	135	157	-	-	-	-	-	-
25 years and over .....	109	90	-	-	-	-	-	-

<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	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
Total, 16 years and over .....	6,156	6,363	5.0	5.1	4.8	5.1	5.2	5.1
Nonagricultural private wage and salary workers .....	4,681	4,907	5.1	5.3	4.8	5.4	5.4	5.1
Mining .....	41	28	5.1	3.7	5.5	3.7	3.0	3.6
Construction .....	546	658	8.5	10.3	8.9	10.6	5.7	6.7
Manufacturing .....	1,072	1,137	4.9	5.3	4.0	4.6	6.5	6.6
Durable goods .....	564	663	4.4	5.3	3.7	4.9	6.2	6.3
Lumber and wood products .....	46	64	6.1	8.4	6.3	8.2	5.2	9.9
Furniture and fixtures .....	45	38	6.5	5.5	5.4	4.6	8.8	7.3
Stone, clay, and glass products .....	18	38	2.7	6.2	1.5	7.1	8.2	3.6
Primary metal industries .....	31	51	3.7	5.3	2.0	5.0	12.8	7.4
Fabricated metal products .....	81	82	5.9	6.7	6.6	5.7	3.3	10.1
Machinery, except electrical .....	67	96	2.7	3.9	2.5	3.6	3.4	5.2
Electrical machinery, equipment, and supplies .....	108	101	5.2	4.9	3.3	4.9	7.9	4.7
Transportation equipment .....	103	131	3.7	5.0	3.4	5.0	5.0	4.8
Automobiles .....	67	75	5.0	6.0	4.7	5.6	6.4	7.5
Other transportation equipment .....	36	56	2.5	4.0	2.1	4.5	4.0	2.2
Professional and photographic equipment .....	19	19	2.8	2.8	1.7	1.6	4.2	4.4
Other durable goods industries .....	46	43	8.1	8.4	7.0	4.3	9.2	13.4
Nondurable goods .....	509	474	5.5	5.3	4.6	4.2	6.8	6.9
Food and kindred products .....	148	142	7.5	7.3	5.7	5.5	11.2	10.8
Textile mill products .....	27	29	4.0	4.0	2.2	3.8	6.0	4.3
Apparel and other textile products .....	115	108	9.0	9.5	10.0	8.6	8.6	9.7
Paper and allied products .....	41	24	5.2	3.3	3.4	2.5	9.8	5.5
Printing and publishing .....	71	66	3.8	3.6	4.3	2.9	3.0	4.5
Chemicals and allied products .....	43	37	3.0	2.6	2.0	2.0	4.8	4.0
Rubber and miscellaneous plastics products .....	41	42	5.3	5.3	6.3	5.8	3.7	4.3
Other nondurable goods industries .....	23	26	5.6	6.6	5.5	6.8	7.6	6.8
Transportation and public utilities .....	259	210	4.0	3.2	4.3	3.3	3.2	3.1
Transportation .....	192	165	4.9	4.5	5.1	4.2	4.5	5.2
Communications and other public utilities .....	68	45	2.6	1.6	3.0	1.8	1.9	1.3
Wholesale and retail trade .....	1,264	1,414	5.4	6.1	4.5	5.7	6.4	6.4
Wholesale trade .....	157	221	3.6	4.8	2.6	5.0	6.1	4.5
Retail trade .....	1,107	1,194	5.9	6.4	5.2	6.0	6.5	6.7
Finance, insurance, and real estate .....	265	188	3.6	2.5	3.9	2.2	3.4	2.7
Service industries .....	1,235	1,272	4.8	4.8	4.5	5.3	5.0	4.5
Professional services .....	446	507	3.1	3.4	2.5	3.7	3.3	3.2
Other service industries .....	789	765	6.9	6.7	5.9	6.5	7.9	6.9
Agricultural wage and salary workers .....	150	124	8.0	6.5	7.6	5.5	9.5	9.4
Government, self-employed, and unpaid family workers .....	616	579	2.2	2.0	2.3	1.9	2.0	2.0
No previous work experience .....	709	753	-	-	-	-	-	-

**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	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,156	6,363	2,602	2,861	2,396	2,362	1,158	1,141	4,486	4,724	1,491	1,406
Job losers .....	2,601	2,936	1,589	1,816	868	925	145	195	1,934	2,256	606	585
On layoff .....	681	822	420	532	230	252	31	38	558	675	109	130
Other job losers .....	1,920	2,114	1,169	1,285	638	673	114	157	1,376	1,581	498	455
Job leavers .....	965	887	388	372	417	384	160	130	756	677	176	170
Reentrants .....	1,880	1,845	527	591	965	902	389	351	1,341	1,333	468	437
New entrants .....	710	695	97	81	147	150	465	464	454	459	241	213
<b>PERCENT DISTRIBUTION</b>												
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	42.3	46.1	61.0	63.5	36.2	39.2	12.5	17.1	43.1	47.7	40.7	41.6
On layoff .....	11.1	12.9	16.1	18.6	9.6	10.7	2.7	3.4	12.4	14.3	7.3	9.3
Other job losers .....	31.2	33.2	44.9	44.9	26.6	28.5	9.8	13.7	30.7	33.5	33.4	32.4
Job leavers .....	15.7	13.9	14.9	13.0	17.4	16.3	13.8	11.4	16.9	14.3	11.8	12.1
Reentrants .....	30.5	29.0	20.3	20.7	40.3	38.2	33.5	30.8	29.9	28.2	31.4	31.1
New entrants .....	11.5	10.9	3.7	2.8	6.1	6.4	40.2	40.7	10.1	9.7	16.1	15.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.2	2.4	2.5	2.8	1.6	1.7	1.9	2.7	1.8	2.1	4.5	4.3
Job leavers .....	.8	.7	.6	.6	.8	.7	2.1	1.8	.7	.6	1.3	1.3
Reentrants .....	1.5	1.5	.8	.9	1.9	1.7	5.1	4.8	1.3	1.2	3.5	3.2
New entrants .....	.6	.6	.2	.1	.3	.3	6.1	6.4	.4	.4	1.8	1.6



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

(Percent distribution)

Reason, sex, and age	May 1990						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	6,363	100.0	46.5	30.2	23.3	13.3	10.0
Job losers .....	2,936	100.0	35.7	33.7	30.6	17.7	12.9
On layoff .....	822	100.0	44.4	31.3	24.2	16.5	7.7
Other job losers .....	2,114	100.0	32.3	34.7	33.0	18.1	14.9
Job leavers .....	887	100.0	51.7	30.2	18.0	12.0	6.0
Reentrants .....	1,845	100.0	54.3	26.7	19.0	9.4	9.6
New entrants .....	695	100.0	64.4	24.5	11.1	7.4	3.7
Men, 20 years and over .....	2,861	100.0	37.3	32.6	30.0	15.7	14.3
Job losers .....	1,816	100.0	33.4	34.1	32.6	17.1	15.4
On layoff .....	532	100.0	41.6	31.9	26.5	17.0	9.5
Other job losers .....	1,285	100.0	30.0	35.0	35.0	17.2	17.9
Job leavers .....	372	100.0	42.0	34.2	23.8	13.8	10.0
Reentrants .....	591	100.0	45.5	28.3	26.2	13.2	13.0
New entrants .....	81	100.0	44.8	25.7	29.5	9.9	19.6
Women, 20 years and over .....	2,362	100.0	48.3	29.6	22.1	14.1	8.0
Job losers .....	925	100.0	37.3	34.0	28.7	20.5	8.2
On layoff .....	252	100.0	43.9	35.1	21.0	17.4	3.6
Other job losers .....	673	100.0	34.8	33.7	31.6	21.6	9.9
Job leavers .....	384	100.0	55.3	27.4	17.4	13.7	3.7
Reentrants .....	902	100.0	53.2	27.1	19.6	9.2	10.4
New entrants .....	150	100.0	68.7	22.3	9.0	5.8	3.2
Both sexes, 16 to 19 years .....	1,141	100.0	65.6	25.3	9.1	5.8	3.3
Job losers .....	195	100.0	49.6	29.2	21.2	9.3	11.9
On layoff .....	38	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	157	100.0	40.4	36.6	23.0	10.7	12.3
Job leavers .....	130	100.0	69.1	27.5	3.4	2.1	1.3
Reentrants .....	351	100.0	72.0	22.8	5.2	3.2	2.0
New entrants .....	464	100.0	66.4	25.1	8.6	7.4	1.2

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

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

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
Total, 16 years and over .....	6,156	6,363	100.0	100.0	5,061	5,157	100.0	100.0
Less than 5 weeks .....	3,008	2,956	48.9	46.5	2,314	2,219	45.7	43.0
5 to 14 weeks .....	1,708	1,921	27.7	30.2	1,447	1,606	28.6	31.2
5 to 10 weeks .....	1,248	1,484	20.3	23.3	1,035	1,238	20.5	24.0
11 to 14 weeks .....	461	438	7.5	6.9	412	368	8.1	7.1
15 weeks and over .....	1,440	1,485	23.4	23.3	1,301	1,332	25.7	25.8
15 to 26 weeks .....	792	849	12.9	13.3	716	746	14.1	14.5
27 weeks and over .....	648	636	10.5	10.0	585	586	11.6	11.4
27 to 51 weeks .....	260	267	4.2	4.2	237	245	4.7	4.7
52 weeks and over .....	388	369	6.3	5.8	347	341	6.9	6.6
Average (mean) duration, in weeks .....	12.4	12.1	-	-	13.3	13.1	-	-
Median duration, in weeks .....	5.3	5.3	-	-	6.1	6.1	-	-

**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	
								May 1989	May 1990	May 1989	May 1990
	May 1990										
Total, 16 years and over .....	6,363	2,956	1,921	849	636	12.1	5.3	48.9	46.5	23.4	23.3
16 to 19 years .....	1,141	748	289	66	37	6.5	3.4	64.2	65.6	10.4	9.1
20 to 24 years .....	1,194	665	330	129	70	9.5	4.0	55.7	55.7	18.1	16.7
25 to 34 years .....	1,832	790	600	239	203	12.7	6.0	47.4	43.1	23.5	24.1
35 to 44 years .....	1,095	384	342	219	150	15.0	8.0	40.8	35.1	32.0	33.7
45 to 54 years .....	646	212	219	109	106	17.4	8.7	35.0	32.9	37.7	33.2
55 to 64 years .....	337	112	104	66	54	17.2	9.1	31.6	33.4	33.5	35.8
65 years and over .....	119	45	38	20	16	14.9	7.9	39.7	37.8	31.6	30.5
Men, 16 years and over .....	3,473	1,445	1,099	491	439	13.9	6.3	44.6	41.6	28.2	26.7
16 to 19 years .....	613	378	165	42	28	7.5	3.7	65.1	61.6	11.5	11.5
20 to 24 years .....	635	339	169	86	41	10.4	4.2	54.4	53.4	21.4	20.0
25 to 34 years .....	960	348	358	111	143	14.9	7.1	39.7	36.2	30.2	26.4
35 to 44 years .....	596	170	202	126	99	17.2	8.9	31.5	28.4	42.4	37.6
45 to 54 years .....	386	116	126	68	76	19.2	10.0	31.0	30.1	40.7	37.4
55 to 64 years .....	215	69	55	48	43	19.1	11.1	30.2	32.3	35.6	42.0
65 years and over .....	69	26	23	11	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,890	1,511	823	359	198	10.0	4.3	53.6	52.3	18.0	19.2
16 to 19 years .....	528	370	124	25	9	5.2	3.2	63.1	70.1	9.0	6.3
20 to 24 years .....	559	326	161	43	29	8.4	3.9	57.0	58.2	14.6	13.0
25 to 34 years .....	872	443	242	128	60	10.2	4.4	54.9	50.7	16.9	21.5
35 to 44 years .....	499	214	139	94	51	12.4	6.7	51.6	43.0	19.8	29.1
45 to 54 years .....	260	96	93	41	29	14.6	7.0	39.3	37.0	34.5	27.0
55 to 64 years .....	122	43	49	19	12	13.8	7.9	33.9	35.2	30.2	24.9
65 years and over .....	50	19	14	9	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,724	2,202	1,429	656	438	11.8	5.3	49.8	46.6	23.0	23.1
Men .....	2,626	1,106	815	403	302	13.5	6.2	44.9	42.1	28.5	26.8
Women .....	2,099	1,096	614	253	136	9.7	4.3	55.4	52.2	16.7	18.5
Black, 16 years and over .....	1,406	652	414	166	172	13.0	5.5	47.0	46.4	24.3	24.1
Men .....	722	293	237	70	121	15.3	6.8	44.2	40.6	27.8	26.5
Women .....	684	359	177	96	51	10.5	4.3	50.0	52.5	20.7	21.6
Men, 16 years and over:											
Married, spouse present .....	1,282	453	412	230	186	15.7	7.9	35.3	35.3	35.4	32.5
Widowed, divorced, or separated .....	450	143	158	74	74	16.7	8.7	34.9	31.8	38.7	33.1
Single (never married) .....	1,741	849	529	186	178	11.8	4.8	52.4	48.8	21.5	20.9
Women, 16 years and over:											
Married, spouse present .....	1,014	485	277	176	76	11.0	5.2	49.6	47.8	20.7	24.9
Widowed, divorced, or separated .....	615	277	196	84	58	12.4	5.7	48.6	45.0	21.6	23.1
Single (never married) .....	1,261	749	349	99	63	7.9	3.8	60.1	59.4	13.5	12.8

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

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	
	May 1990							May 1989	May 1990	May 1989	May 1990
<b>OCCUPATION</b>											
Managerial and professional specialty .....	589	208	211	106	65	13.7	7.7	42.7	35.3	28.2	29.0
Technical, sales, and administrative support .....	1,444	643	436	228	138	11.7	5.9	49.3	44.5	19.4	25.3
Service occupations .....	1,125	590	350	94	91	10.3	4.3	53.5	52.4	19.0	16.4
Precision production, craft, and repair .....	735	292	225	123	96	14.2	7.3	40.5	39.7	28.0	29.8
Operators, fabricators, and laborers .....	1,530	654	458	221	197	14.0	6.2	44.9	42.7	29.8	27.3
Farming, forestry, and fishing .....	168	81	46	22	18	13.2	4.8	52.0	48.2	29.1	23.8
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	124	62	27	23	12	12.9	4.5	45.2	50.0	31.1	29.0
Construction .....	679	254	212	112	101	15.5	7.6	40.2	37.4	28.2	31.4
Manufacturing .....	1,140	418	387	196	139	14.3	7.4	41.8	36.7	28.7	29.4
Durable goods .....	666	242	199	133	93	15.5	8.1	39.5	36.3	30.5	33.9
Nondurable goods .....	473	176	188	63	46	12.5	6.6	44.3	37.2	26.7	23.0
Transportation and public utilities .....	254	104	101	28	22	11.1	6.4	43.3	40.9	26.4	19.3
Wholesale and retail trade .....	1,420	697	410	165	148	12.1	4.7	48.6	49.1	22.0	22.0
Finance and service industries .....	1,662	802	487	226	148	11.0	4.9	52.8	48.3	21.6	22.4
Public administration .....	130	59	48	9	14	11.8	5.3	48.5	45.4	23.6	17.7
No previous work experience .....	753	481	189	54	29	8.1	3.5	60.9	63.9	15.7	11.0

<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	May 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	6,363	5,403	21.1	8.9	70.9	38.9	20.8	4.8	1.66
16 to 19 years .....	1,141	1,065	7.5	3.6	79.7	26.5	17.9	3.5	1.39
20 to 24 years .....	1,194	1,051	25.6	9.2	71.6	36.6	17.4	4.3	1.65
25 to 34 years .....	1,832	1,535	23.8	10.4	69.2	44.7	22.0	3.8	1.74
35 to 44 years .....	1,095	886	25.2	10.9	69.9	41.6	24.9	6.4	1.79
45 to 54 years .....	646	521	26.6	13.4	63.2	47.1	23.7	6.2	1.80
55 to 64 years .....	337	264	20.9	6.7	67.4	40.3	22.4	7.9	1.66
65 years and over .....	119	82	13.5	4.8	52.6	38.7	14.0	10.8	1.34
Men, 16 years and over .....	3,473	2,844	23.0	8.7	71.9	37.9	23.9	5.4	1.71
16 to 19 years .....	613	563	7.4	3.4	81.3	24.2	19.4	2.7	1.39
20 to 24 years .....	635	534	29.3	8.1	74.2	37.7	21.6	3.7	1.75
25 to 34 years .....	960	766	27.5	11.4	69.8	42.1	24.9	5.1	1.81
35 to 44 years .....	596	457	27.9	10.5	69.7	40.9	29.1	9.3	1.87
45 to 54 years .....	386	305	25.1	10.8	62.3	47.1	25.3	7.1	1.78
55 to 64 years .....	215	168	20.8	7.6	69.6	38.3	29.0	7.2	1.73
65 years and over .....	69	52	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,890	2,559	19.0	9.2	69.9	40.1	17.4	4.1	1.60
16 to 19 years .....	528	502	7.5	3.8	77.8	28.9	16.2	4.5	1.39
20 to 24 years .....	559	518	21.7	10.3	69.0	35.5	13.0	4.9	1.54
25 to 34 years .....	872	769	20.2	9.3	68.6	47.3	19.1	2.5	1.67
35 to 44 years .....	499	428	22.3	11.3	70.2	42.4	20.4	3.4	1.70
45 to 54 years .....	260	216	28.8	17.1	64.5	47.0	21.4	4.9	1.84
55 to 64 years .....	122	96	21.1	5.0	63.5	43.8	10.7	9.0	1.53
65 years and over .....	50	30	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,724	3,925	20.2	8.9	71.6	40.1	21.3	4.8	1.67
Men .....	2,626	2,094	21.7	8.8	71.8	38.7	25.2	5.7	1.72
Women .....	2,099	1,831	18.5	9.1	71.3	41.7	16.9	3.8	1.61
Black, 16 years and over .....	1,406	1,263	24.8	9.4	69.1	33.9	18.2	4.8	1.60
Men .....	722	631	27.9	9.2	72.8	33.1	19.6	4.6	1.67
Women .....	684	632	21.7	9.7	65.4	34.7	16.9	5.0	1.53

<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	May 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	6,363	5,403	21.1	8.9	70.9	38.9	20.8	4.8	1.66
Job losers <sup>1</sup> .....	2,936	2,090	29.2	11.0	72.7	44.6	25.5	4.2	1.87
Job leavers .....	887	869	19.3	12.0	72.8	41.8	17.7	3.3	1.67
Reentrants .....	1,845	1,773	17.9	6.3	65.8	36.2	18.6	6.3	1.51
New entrants .....	695	672	7.2	5.3	76.7	25.0	16.0	4.7	1.35
Men, 16 years and over .....	3,473	2,844	23.0	8.7	71.9	37.9	23.9	5.4	1.71
Job losers <sup>1</sup> .....	1,965	1,382	28.0	9.6	71.4	44.2	28.0	5.8	1.87
Job leavers .....	428	419	21.0	11.9	75.9	37.3	19.5	1.2	1.67
Reentrants .....	775	744	21.4	6.9	66.5	31.8	21.9	8.2	1.57
New entrants .....	306	299	7.0	4.3	82.2	24.6	16.4	2.7	1.37
Women, 16 years and over .....	2,890	2,559	19.0	9.2	69.9	40.1	17.4	4.1	1.60
Job losers <sup>1</sup> .....	971	708	31.6	13.8	75.4	45.4	20.7	.9	1.88
Job leavers .....	459	450	17.6	12.2	69.9	46.0	16.1	5.3	1.67
Reentrants .....	1,069	1,029	15.3	5.8	65.2	39.3	16.2	4.9	1.47
New entrants .....	390	372	7.3	6.0	72.4	25.3	15.8	6.3	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	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
All industries .....	117,039	118,277	64,220	64,624	52,819	53,653
16 to 19 years .....	6,459	6,118	3,321	3,206	3,138	2,911
16 to 17 years .....	2,471	2,257	1,289	1,195	1,182	1,062
18 to 19 years .....	3,988	3,861	2,032	2,011	1,955	1,850
20 to 24 years .....	12,864	12,531	6,783	6,635	6,082	5,896
25 to 54 years .....	82,741	84,628	45,530	46,240	37,212	38,388
25 to 34 years .....	33,940	34,118	18,957	18,868	14,983	15,250
35 to 44 years .....	29,445	30,698	15,964	16,631	13,482	14,067
45 to 54 years .....	19,356	19,813	10,609	10,742	8,746	9,071
55 to 64 years .....	11,503	11,471	6,542	6,488	4,961	4,983
55 to 59 years .....	6,873	6,759	3,873	3,806	2,999	2,954
60 to 64 years .....	4,630	4,712	2,669	2,683	1,961	2,029
65 years and over .....	3,472	3,529	2,044	2,054	1,428	1,475
Agriculture .....	3,284	3,452	2,578	2,675	706	777
16 to 19 years .....	232	258	194	194	38	64
16 to 17 years .....	101	114	87	84	14	30
18 to 19 years .....	131	144	107	110	24	34
20 to 24 years .....	359	356	296	302	63	54
25 to 54 years .....	1,934	2,056	1,483	1,551	452	506
25 to 34 years .....	833	870	665	677	169	193
35 to 44 years .....	671	706	485	515	186	191
45 to 54 years .....	429	480	332	359	97	121
55 to 64 years .....	416	446	315	340	101	105
55 to 59 years .....	203	229	143	168	59	61
60 to 64 years .....	213	217	171	173	42	44
65 years and over .....	344	336	291	288	53	48
Nonagricultural industries .....	113,755	114,825	61,642	61,948	52,113	52,876
16 to 19 years .....	6,227	5,860	3,127	3,012	3,100	2,847
16 to 17 years .....	2,370	2,143	1,201	1,111	1,168	1,032
18 to 19 years .....	3,857	3,717	1,926	1,902	1,931	1,815
20 to 24 years .....	12,506	12,175	6,487	6,333	6,019	5,842
25 to 54 years .....	80,807	82,572	44,047	44,689	36,760	37,882
25 to 34 years .....	33,107	33,248	18,292	18,191	14,815	15,057
35 to 44 years .....	28,774	29,992	15,478	16,116	13,296	13,876
45 to 54 years .....	18,926	19,332	10,277	10,383	8,649	8,950
55 to 64 years .....	11,087	11,026	6,227	6,148	4,860	4,878
55 to 59 years .....	6,670	6,531	3,730	3,638	2,940	2,893
60 to 64 years .....	4,417	4,495	2,498	2,510	1,920	1,985
65 years and over .....	3,128	3,193	1,752	1,766	1,375	1,427

**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	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
Total .....	117,039	118,277	64,220	64,624	60,899	61,417	52,819	53,653	49,682	50,742
Managerial and professional specialty .....	30,627	30,542	16,791	16,569	16,674	16,464	13,836	13,974	13,730	13,882
Executive, administrative, and managerial .....	15,041	14,733	9,084	8,828	9,047	8,786	5,957	5,905	5,919	5,866
Officials and administrators, public administration .....	574	597	336	366	336	366	238	230	238	230
Other executive, administrative, and managerial .....	10,546	10,178	6,762	6,493	6,728	6,461	3,784	3,684	3,754	3,658
Management-related occupations .....	3,921	3,959	1,986	1,968	1,983	1,959	1,935	1,991	1,927	1,978
Professional specialty .....	15,586	15,809	7,707	7,741	7,627	7,677	7,879	8,068	7,811	8,016
Engineers .....	1,840	1,803	1,681	1,666	1,679	1,666	160	137	160	137
Mathematical and computer scientists .....	870	801	549	528	549	528	320	272	320	271
Natural scientists .....	451	394	309	291	306	291	143	103	140	103
Health diagnosing occupations .....	880	868	753	735	753	734	127	133	127	133
Health assessment and treating occupations .....	2,210	2,325	333	314	329	313	1,877	2,011	1,877	2,007
Teachers, college and university .....	699	778	392	499	390	497	307	279	305	276
Teachers, except college and university .....	3,999	4,145	1,105	1,133	1,094	1,120	2,895	3,012	2,863	2,994
Lawyers and judges .....	791	736	601	589	601	589	190	147	190	147
Other professional specialty occupations .....	3,846	3,959	1,985	1,985	1,927	1,939	1,860	1,974	1,829	1,947
Technical, sales, and administrative support .....	35,786	37,141	12,517	13,062	11,945	12,421	23,269	24,079	21,588	22,488
Technicians and related support .....	3,613	3,910	1,838	2,001	1,822	1,973	1,775	1,909	1,762	1,888
Health technologists and technicians .....	1,297	1,317	215	213	213	210	1,082	1,105	1,080	1,094
Engineering and science technicians .....	1,125	1,239	891	968	883	951	234	271	230	265
Technicians, except health, engineering, and science .....	1,191	1,354	732	821	725	812	459	533	452	529
Sales occupations .....	14,005	14,355	7,027	7,279	6,648	6,895	6,979	7,076	5,871	6,038
Supervisors and proprietors .....	3,931	3,890	2,572	2,558	2,546	2,538	1,359	1,332	1,333	1,302
Sales representatives, finance and business services .....	2,333	2,419	1,317	1,385	1,302	1,374	1,015	1,034	980	1,009
Sales representatives, commodities, except retail .....	1,586	1,627	1,267	1,248	1,256	1,242	319	379	315	370
Sales workers, retail and personal services .....	6,070	6,331	1,850	2,062	1,524	1,714	4,220	4,269	3,187	3,302
Sales-related occupations .....	85	87	20	26	20	26	65	61	56	56
Administrative support, including clerical .....	18,168	18,875	3,652	3,782	3,475	3,554	14,516	15,094	13,955	14,562
Supervisors .....	727	796	327	329	327	327	400	467	399	465
Computer equipment operators .....	845	879	306	310	298	299	539	569	513	553
Secretaries, stenographers, and typists .....	4,682	4,616	84	62	77	56	4,598	4,554	4,459	4,412
Financial records processing .....	2,414	2,485	225	215	218	209	2,189	2,270	2,165	2,232
Mail and message distributing .....	946	921	599	589	572	559	347	332	333	317
Other administrative support, including clerical .....	8,554	9,179	2,111	2,276	1,984	2,104	6,443	6,902	6,087	6,584
Service occupations .....	15,434	15,611	6,252	6,257	5,336	5,370	9,182	9,355	8,092	8,388
Private household .....	878	743	47	14	38	12	832	728	690	651
Protective service .....	1,916	1,947	1,603	1,677	1,571	1,640	313	270	290	251
Service, except private household and protective .....	12,640	12,921	4,602	4,566	3,727	3,719	8,037	8,356	7,112	7,486
Food service .....	5,315	5,268	2,129	2,154	1,480	1,512	3,186	3,115	2,505	2,527
Health service .....	2,098	2,055	226	224	211	210	1,873	1,832	1,776	1,762
Cleaning and building service .....	2,934	3,032	1,806	1,705	1,656	1,590	1,128	1,327	1,069	1,276
Personal service .....	2,292	2,566	442	483	380	437	1,851	2,083	1,761	1,920
Precision production, craft, and repair .....	13,551	13,638	12,428	12,556	12,119	12,278	1,123	1,082	1,107	1,063
Mechanics and repairers .....	4,650	4,465	4,508	4,304	4,383	4,199	142	161	142	160
Construction trades .....	4,949	5,258	4,828	5,165	4,697	5,061	121	93	116	91
Other precision production, craft, and repair .....	3,953	3,915	3,093	3,086	3,039	3,017	860	829	849	812
Operators, fabricators, and laborers .....	18,037	17,665	13,243	13,091	12,142	12,062	4,794	4,574	4,587	4,380
Machine operators, assemblers, and inspectors .....	8,312	8,004	4,808	4,725	4,650	4,551	3,504	3,278	3,412	3,191
Manufacturing industries .....	6,773	6,519	3,847	3,852	3,734	3,713	2,926	2,668	2,854	2,611
Durable goods .....	3,765	3,625	2,501	2,525	2,440	2,436	1,264	1,100	1,238	1,075
Nondurable goods .....	3,008	2,895	1,346	1,327	1,294	1,277	1,661	1,568	1,616	1,536
Nonmanufacturing industries .....	1,539	1,485	960	874	916	838	579	611	558	580
Transportation and material moving occupations .....	4,925	4,845	4,474	4,390	4,323	4,272	452	455	438	438
Motor vehicle operators .....	3,632	3,598	3,213	3,179	3,083	3,095	419	419	408	403
Other transportation and material moving occupations .....	1,293	1,247	1,261	1,210	1,240	1,177	32	36	29	35
Handlers, equipment cleaners, helpers, and laborers .....	4,800	4,817	3,961	3,976	3,169	3,240	838	840	737	750
Construction laborers .....	713	822	691	807	634	732	22	15	20	14
Other handlers, equipment cleaners, helpers, and laborers .....	4,087	3,994	3,270	3,169	2,535	2,508	816	826	718	737
Farming, forestry, and fishing .....	3,604	3,679	2,989	3,089	2,683	2,823	614	590	576	540
Farm operators and managers .....	1,225	1,373	1,021	1,172	1,015	1,167	205	201	204	201
Other farming, forestry, and fishing occupations .....	2,379	2,307	1,969	1,917	1,668	1,656	410	389	373	339

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	May 1989	May 1990	May 1989	May 1990	May 1989	May 1990
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	117,039	118,277	64,220	64,624	52,819	53,653
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.2	25.8	26.1	25.6	26.2	26.0
Executive, administrative, and managerial .....	12.9	12.5	14.1	13.7	11.3	11.0
Professional specialty .....	13.3	13.4	12.0	12.0	14.9	15.0
Technical, sales, and administrative support .....	30.6	31.4	19.5	20.2	44.1	44.9
Technicians and related support .....	3.1	3.3	2.9	3.1	3.4	3.6
Sales occupations .....	12.0	12.1	10.9	11.3	13.2	13.2
Administrative support, including clerical .....	15.5	16.0	5.7	5.9	27.5	28.1
Service occupations .....	13.2	13.2	9.7	9.7	17.4	17.4
Private household .....	.8	.6	.1	-	1.6	1.4
Protective service .....	1.6	1.6	2.5	2.6	.6	.5
Service, except private household and protective .....	10.8	10.9	7.2	7.1	15.2	15.6
Precision production, craft, and repair .....	11.6	11.5	19.4	19.4	2.1	2.0
Operators, fabricators, and laborers .....	15.4	14.9	20.6	20.3	9.1	8.5
Machine operators, assemblers, and inspectors .....	7.1	6.8	7.5	7.3	6.6	6.1
Transportation and material moving occupations .....	4.2	4.1	7.0	6.8	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.1	6.2	6.2	1.6	1.6
Farming, forestry, and fishing .....	3.1	3.1	4.7	4.8	1.2	1.1
<b>White</b>						
Total, 16 years and over (thousands) .....	101,412	102,350	56,333	56,574	45,079	45,776
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	27.3	26.9	27.4	26.8	27.2	27.1
Executive, administrative, and managerial .....	13.6	13.2	15.0	14.4	11.8	11.6
Professional specialty .....	13.8	13.8	12.4	12.3	15.4	15.5
Technical, sales, and administrative support .....	30.8	31.8	19.5	20.5	44.9	45.7
Technicians and related support .....	3.0	3.3	2.9	3.1	3.2	3.5
Sales occupations .....	12.5	12.8	11.5	11.9	13.8	13.8
Administrative support, including clerical .....	15.3	15.7	5.2	5.5	27.9	28.4
Service occupations .....	11.9	12.0	8.6	8.7	16.1	16.0
Private household .....	.6	.5	.1	-	1.3	1.1
Protective service .....	1.5	1.5	2.3	2.4	.5	.5
Service, except private household and protective .....	9.8	9.9	6.3	6.3	14.2	14.5
Precision production, craft, and repair .....	12.0	11.9	20.0	19.9	2.1	2.0
Operators, fabricators, and laborers .....	14.6	14.1	19.6	19.1	8.4	8.0
Machine operators, assemblers, and inspectors .....	6.7	6.3	7.3	7.0	6.0	5.6
Transportation and material moving occupations .....	4.1	3.9	6.7	6.4	.8	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.8	3.9	5.7	5.8	1.6	1.5
Farming, forestry, and fishing .....	3.3	3.3	4.9	5.0	1.3	1.2
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,882	12,093	5,889	5,957	5,993	6,136
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.8	15.4	13.1	13.2	18.4	17.4
Executive, administrative, and managerial .....	7.0	6.6	6.9	6.9	7.2	6.3
Professional specialty .....	8.7	8.8	6.2	6.4	11.2	11.1
Technical, sales, and administrative support .....	28.1	28.7	17.3	16.1	38.8	40.8
Technicians and related support .....	3.1	2.9	2.1	2.1	4.0	3.7
Sales occupations .....	7.6	7.4	6.1	5.5	9.2	9.1
Administrative support, including clerical .....	17.4	18.4	9.1	8.5	25.7	28.0
Service occupations .....	23.5	22.8	19.4	17.9	27.4	27.5
Private household .....	2.0	1.7	.2	-	3.8	3.4
Protective service .....	2.9	2.9	4.7	4.8	1.1	.9
Service, except private household and protective .....	18.5	18.2	14.5	13.1	22.5	23.2
Precision production, craft, and repair .....	8.4	9.3	15.2	16.6	1.7	2.3
Operators, fabricators, and laborers .....	22.4	22.2	31.7	32.9	13.3	11.7
Machine operators, assemblers, and inspectors .....	9.9	10.0	9.6	10.8	10.1	9.1
Transportation and material moving occupations .....	5.9	6.2	10.7	11.7	1.3	.9
Handlers, equipment cleaners, helpers, and laborers .....	6.6	6.0	11.3	10.4	1.9	1.7
Farming, forestry, and fishing .....	1.8	1.7	3.3	3.1	.4	.3

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	May 1990								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over .....	105,779	972	18,167	86,640	8,774	272	1,795	1,534	123
16 to 19 years .....	5,768	127	308	5,334	71	21	219	17	23
16 to 17 years .....	2,118	76	96	1,946	21	4	92	11	11
18 to 19 years .....	3,650	51	212	3,387	49	17	127	6	12
20 to 24 years .....	11,868	103	1,120	10,645	273	34	284	66	6
25 to 34 years .....	31,199	167	4,451	26,581	2,000	49	564	289	17
35 to 44 years .....	27,256	144	5,742	21,371	2,679	56	336	341	29
45 to 54 years .....	17,304	134	3,904	13,267	1,964	65	168	293	19
55 to 64 years .....	9,780	166	2,149	7,465	1,214	32	159	269	18
55 to 59 years .....	5,834	74	1,304	4,456	681	15	77	144	8
60 to 64 years .....	3,946	93	844	3,009	532	17	82	125	10
65 years and over .....	2,603	132	493	1,978	575	15	66	260	10
Men, 16 years and over .....	56,398	142	8,370	47,886	5,496	55	1,352	1,281	42
16 to 19 years .....	2,964	49	139	2,776	39	9	161	14	20
16 to 17 years .....	1,092	32	48	1,012	18	1	64	10	11
18 to 19 years .....	1,872	17	91	1,764	22	8	98	3	9
20 to 24 years .....	6,162	16	473	5,672	155	16	237	58	6
25 to 34 years .....	17,027	22	2,117	14,888	1,154	10	430	244	3
35 to 44 years .....	14,452	18	2,595	11,840	1,656	8	239	274	2
45 to 54 years .....	9,115	13	1,772	7,330	1,267	1	120	237	2
55 to 64 years .....	5,321	14	1,044	4,263	825	1	114	220	6
55 to 59 years .....	3,172	4	610	2,558	467	-	57	111	-
60 to 64 years .....	2,149	10	434	1,705	359	2	57	109	7
65 years and over .....	1,358	11	230	1,117	399	9	51	234	3
Women, 16 years and over .....	49,381	830	9,797	38,754	3,279	217	443	253	81
16 to 19 years .....	2,804	78	168	2,558	31	12	57	3	3
16 to 17 years .....	1,026	44	47	935	3	2	28	1	1
18 to 19 years .....	1,778	34	121	1,623	28	9	29	2	3
20 to 24 years .....	5,706	87	647	4,972	118	17	47	8	-
25 to 34 years .....	14,172	145	2,334	11,693	846	39	134	44	14
35 to 44 years .....	12,805	126	3,147	9,531	1,023	48	97	67	27
45 to 54 years .....	8,189	121	2,132	5,937	696	64	47	56	18
55 to 64 years .....	4,459	153	1,105	3,202	388	30	45	49	12
55 to 59 years .....	2,663	70	695	1,898	215	15	20	33	8
60 to 64 years .....	1,797	83	410	1,304	174	15	25	16	4
65 years and over .....	1,245	121	264	860	176	6	16	25	7



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	May 1990												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	3,452	92	89	33	37	131	-	25	29	10	42	33	2,931
Mining .....	752	118	72	30	12	90	-	8	248	17	134	19	5
Construction .....	7,800	1,043	116	69	80	416	-	32	4,522	111	504	881	26
Manufacturing .....	21,008	2,530	1,715	772	760	2,367	-	339	3,930	6,519	839	1,133	103
Durable goods .....	12,337	1,419	1,138	518	319	1,364	-	172	2,716	3,625	446	528	92
Nondurable goods .....	8,670	1,111	577	254	441	1,002	-	166	1,214	2,895	394	605	11
Transportation and public utilities .....	8,118	936	460	339	341	2,133	-	292	1,263	114	1,779	444	18
Wholesale and retail trade .....	23,982	2,014	430	139	10,140	2,335	-	4,328	1,424	337	973	1,818	44
Wholesale trade .....	4,679	522	83	54	1,861	790	-	22	347	132	486	366	15
Retail trade .....	19,303	1,492	347	85	8,278	1,545	-	4,306	1,077	204	488	1,453	29
Finance, insurance, and real estate .....	8,185	2,121	209	175	1,932	3,119	-	337	156	14	17	19	86
Services .....	39,126	4,676	11,905	2,114	1,032	6,549	743	8,091	1,822	848	503	429	414
Private households .....	985	7	10	8	-	5	743	91	21	2	9	10	80
Other service industries .....	38,141	4,669	11,895	2,107	1,032	6,544	-	8,000	1,801	846	494	419	334
Professional services .....	25,470	2,661	10,536	1,720	166	4,787	-	4,526	400	214	280	103	78
Public administration .....	5,854	1,204	814	239	21	1,736	-	1,417	243	34	53	40	53

<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					
	May 1989	May 1990	Total		Wage and salary workers <sup>1</sup>			
			May 1989	May 1990	Paid absences		Unpaid absences	
					May 1989	May 1990	May 1989	May 1990
Total, 16 years and over .....	4,578	4,485	4,483	4,414	2,069	2,149	1,891	1,777
Vacation .....	1,981	1,903	1,956	1,887	1,276	1,294	490	389
Illness .....	1,291	1,346	1,268	1,320	523	582	636	650
Bad weather .....	141	74	121	60	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	49	30	49	30	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,116	1,132	1,089	1,116	269	273	765	737
Men, 16 years and over .....	2,261	2,229	2,190	2,174	1,071	1,130	828	791
Vacation .....	1,076	1,012	1,060	1,001	741	714	209	177
Illness .....	613	654	594	639	242	290	285	305
All other reasons <sup>3</sup> .....	572	562	536	533	88	126	334	310
Women, 16 years and over .....	2,317	2,257	2,293	2,240	999	1,017	1,063	985
Vacation .....	905	891	896	886	535	579	282	212
Illness .....	678	691	674	681	282	291	351	346
All other reasons <sup>3</sup> .....	734	675	723	673	182	148	430	427

<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	May 1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	113,791	3,381	110,411	100.0	100.0	100.0
1 to 34 hours .....	25,619	944	24,675	22.5	27.9	22.3
1 to 4 hours .....	760	40	720	.7	1.2	.7
5 to 14 hours .....	4,534	216	4,317	4.0	6.4	3.9
15 to 29 hours .....	13,070	462	12,608	11.5	13.7	11.4
30 to 34 hours .....	7,256	226	7,030	6.4	6.7	6.4
35 hours and over .....	88,172	2,436	85,736	77.5	72.1	77.7
35 to 39 hours .....	7,540	140	7,400	6.6	4.1	6.7
40 hours .....	46,526	733	45,793	40.9	21.7	41.5
41 hours and over .....	34,106	1,563	32,543	30.0	46.2	29.5
41 to 48 hours .....	12,192	230	11,962	10.7	6.8	10.8
49 to 59 hours .....	12,474	456	12,018	11.0	13.5	10.9
60 hours and over .....	9,440	877	8,563	8.3	25.9	7.8
Average hours, total at work .....	39.6	44.1	39.4	-	-	-
Average hours, workers on full-time schedules .....	43.9	51.3	43.7	-	-	-

**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	May 1990					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	25,619	6,415	19,204	24,675	6,147	18,528
Economic reasons .....	4,565	1,686	2,879	4,419	1,632	2,787
Slack work .....	2,224	1,303	921	2,132	1,259	873
Material shortages or repairs to plant and equipment .....	48	48	-	47	47	-
New job started during week .....	253	253	-	247	247	-
Job terminated during week .....	81	81	-	79	79	-
Could find only part-time work .....	1,958	-	1,958	1,914	-	1,914
Other reasons .....	21,054	4,729	16,325	20,256	4,514	15,742
Does not want, or unavailable for, full-time work .....	13,671	-	13,671	13,188	-	13,188
Vacation .....	1,375	1,375	-	1,371	1,371	-
Illness .....	1,423	1,261	162	1,390	1,239	151
Bad weather .....	533	533	-	392	392	-
Industrial dispute .....	11	11	-	11	11	-
Legal or religious holiday .....	-	-	-	-	-	-
Full time for this job .....	1,825	-	1,825	1,784	-	1,784
All other reasons .....	2,251	1,584	667	2,156	1,538	618
Average hours:						
Economic reasons .....	22.6	24.7	21.4	22.7	24.7	21.5
Other reasons .....	20.9	26.0	19.4	20.9	26.0	19.5
Worked 30 to 34 hours:						
Economic reasons .....	1,551	757	794	1,504	738	766
Other reasons .....	5,704	2,579	3,125	5,526	2,476	3,050

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

(Numbers in thousands)

Industry	May 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules	
				Total	40 hours or less	41 to 48 hours			49 hours or more
Total, 16 years and over .....	110,411	4,419	15,742	90,250	57,707	11,962	20,581	39.4	43.7
Wage and salary workers .....	101,817	3,836	14,164	83,817	54,861	11,367	17,588	39.3	43.4
Mining .....	705	12	6	688	365	112	211	46.1	46.7
Construction .....	6,037	359	235	5,444	3,683	653	1,107	40.5	42.7
Manufacturing .....	19,790	494	692	18,603	11,848	3,092	3,663	42.2	43.4
Durable goods .....	11,628	189	275	11,163	7,070	1,882	2,211	42.6	43.4
Nondurable goods .....	8,162	305	417	7,440	4,779	1,210	1,451	41.5	43.3
Transportation and public utilities .....	7,420	213	417	6,790	4,376	897	1,517	42.2	44.1
Wholesale and retail trade .....	21,242	1,117	5,189	14,937	8,918	2,226	3,792	37.2	44.3
Finance, insurance, and real estate .....	7,279	127	623	6,529	4,494	774	1,262	40.3	42.6
Service industries .....	33,685	1,438	6,681	25,566	17,370	3,022	5,173	37.5	43.1
Private households .....	946	145	410	391	255	32	104	27.9	46.2
All other industries .....	32,739	1,293	6,271	25,175	17,115	2,990	5,069	37.8	43.1
Public administration .....	5,658	78	321	5,259	3,806	591	863	41.0	42.6
Self-employed workers .....	8,322	569	1,448	6,305	2,788	588	2,929	41.0	48.1
Unpaid family workers .....	272	14	129	128	58	7	63	34.1	47.6

**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	May 1990							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	110,411	4,419	15,742	90,250	57,707	32,543	39.4	43.7
16 to 19 years .....	5,652	334	3,627	1,691	1,334	357	23.9	39.9
16 to 17 years .....	2,043	64	1,841	139	109	30	16.7	37.0
18 to 19 years .....	3,609	270	1,786	1,553	1,225	327	27.9	40.2
20 years and over .....	104,758	4,085	12,115	88,559	56,373	32,186	40.3	43.8
20 to 24 years .....	11,781	699	2,115	8,967	6,384	2,583	37.0	42.1
25 years and over .....	92,977	3,386	9,999	79,592	49,989	29,602	40.7	44.0
25 to 44 years .....	60,983	2,263	5,464	53,256	32,877	20,379	41.2	44.1
45 to 64 years .....	28,998	955	3,040	25,003	16,177	8,826	40.8	43.9
65 years and over .....	2,996	168	1,495	1,333	935	398	29.1	43.1
Men, 16 years and over .....	59,774	2,054	4,803	52,917	30,041	22,876	42.3	45.2
16 to 19 years .....	2,912	185	1,789	938	703	235	24.9	41.0
16 to 17 years .....	1,070	44	950	76	57	18	17.4	38.8
18 to 19 years .....	1,842	141	838	862	645	217	29.3	41.2
20 years and over .....	56,862	1,869	3,015	51,979	29,338	22,640	43.2	45.3
20 to 24 years .....	6,150	336	887	4,927	3,259	1,667	38.7	43.1
25 years and over .....	50,712	1,533	2,127	47,052	26,079	20,973	43.8	45.5
25 to 44 years .....	33,266	1,018	792	31,456	16,913	14,543	44.4	45.7
45 to 64 years .....	15,792	443	576	14,773	8,620	6,153	43.7	45.3
65 years and over .....	1,653	73	759	821	545	276	30.7	43.8
Women, 16 years and over .....	50,636	2,365	10,938	37,333	27,666	9,667	36.0	41.6
16 to 19 years .....	2,740	149	1,838	753	631	122	22.8	38.5
16 to 17 years .....	973	20	890	63	51	12	16.0	( <sup>1</sup> )
18 to 19 years .....	1,767	129	948	690	580	110	26.5	38.9
20 years and over .....	47,896	2,216	9,100	36,580	27,035	9,545	36.8	41.6
20 to 24 years .....	5,631	362	1,228	4,040	3,125	916	35.1	40.8
25 years and over .....	42,265	1,854	7,872	32,540	23,910	8,629	37.0	41.8
25 to 44 years .....	27,717	1,247	4,673	21,797	15,962	5,835	37.3	41.7
45 to 64 years .....	13,204	513	2,463	10,228	7,555	2,673	37.3	41.9
65 years and over .....	1,343	95	736	512	390	122	27.0	42.0
<b>RACE</b>								
White, 16 years and over .....	95,300	3,607	14,143	77,551	48,049	29,502	39.5	44.0
Men .....	52,187	1,680	4,207	46,300	25,407	20,894	42.6	45.5
Women .....	43,113	1,927	9,935	31,251	22,642	8,609	35.9	41.7
Black, 16 years and over .....	11,470	668	1,161	9,641	7,529	2,112	38.4	41.8
Men .....	5,622	302	413	4,907	3,567	1,340	40.2	43.1
Women .....	5,848	366	747	4,734	3,962	772	36.7	40.5
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,868	957	1,410	35,501	19,140	16,361	44.2	45.8
Widowed, divorced, or separated .....	6,388	283	309	5,796	3,314	2,481	43.1	45.4
Single (never married) .....	15,518	814	3,085	11,620	7,587	4,033	37.4	43.5
Women, 16 years and over:								
Married, spouse present .....	28,324	1,124	6,461	20,738	15,612	5,127	35.9	41.4
Widowed, divorced, or separated .....	10,185	560	1,291	8,334	5,852	2,482	38.6	42.4
Single (never married) .....	12,128	682	3,186	8,261	6,202	2,059	34.2	41.3

<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	May 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup> .....	110,196	4,370	15,711	90,116	57,541	11,951	20,623	39.5	43.7
Managerial and professional specialty .....	29,493	526	2,833	26,134	14,371	3,523	8,240	42.4	45.3
Executive, administrative, and managerial .....	14,265	200	723	13,342	6,832	1,838	4,672	44.5	46.1
Professional specialty .....	15,229	326	2,110	12,793	7,540	1,685	3,568	40.6	44.6
Technical, sales, and administrative support .....	35,661	1,124	6,437	28,099	19,256	3,522	5,322	38.0	42.8
Technicians and related support .....	3,700	68	410	3,222	2,267	457	498	39.9	42.6
Sales occupations .....	13,846	565	2,887	10,395	5,460	1,406	3,529	39.3	45.7
Administrative support, including clerical .....	18,115	492	3,141	14,482	11,529	1,659	1,294	36.7	40.8
Service occupations .....	15,003	1,139	4,341	9,523	6,787	1,027	1,710	34.4	42.9
Private household .....	722	105	308	310	212	22	75	28.2	45.6
Protective service .....	1,870	39	170	1,661	1,000	239	423	42.6	45.5
Service, except private household and protective .....	12,411	995	3,864	7,552	5,575	766	1,212	33.6	42.2
Precision production, craft, and repair .....	13,115	569	446	12,100	7,724	1,748	2,628	41.8	43.5
Operators, fabricators, and laborers .....	16,923	1,012	1,652	14,259	9,403	2,132	2,724	39.9	43.4
Machine operators, assemblers, and inspectors .....	7,693	370	372	6,951	4,883	1,108	959	40.5	42.3
Transportation and material moving occupations .....	4,631	237	397	3,997	2,114	558	1,325	43.1	46.6
Handlers, equipment cleaners, helpers, and laborers .....	4,600	405	883	3,311	2,406	466	439	35.7	42.0
Men, 16 years and over <sup>1</sup> .....	59,379	2,007	4,708	52,664	29,812	7,421	15,431	42.4	45.3
Managerial and professional specialty .....	16,124	243	778	15,102	7,026	2,053	6,022	45.5	47.3
Executive, administrative, and managerial .....	8,600	121	275	8,204	3,511	1,136	3,557	46.6	47.8
Professional specialty .....	7,524	123	504	6,898	3,515	917	2,465	44.3	46.6
Technical, sales, and administrative support .....	12,593	279	1,275	11,038	5,906	1,597	3,535	42.5	45.7
Technicians and related support .....	1,882	31	112	1,739	1,143	275	321	41.8	43.5
Sales occupations .....	7,093	142	708	6,243	2,628	884	2,731	44.5	47.9
Administrative support, including clerical .....	3,617	106	456	3,056	2,135	438	483	38.9	42.5
Service occupations .....	6,042	317	1,232	4,494	2,995	545	954	37.8	44.1
Private household .....	15	3	5	7	6	-	1	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,603	32	120	1,452	853	199	400	43.6	46.0
Service, except private household and protective .....	4,424	282	1,108	3,034	2,135	346	553	35.7	43.2
Precision production, craft, and repair .....	12,079	500	347	11,232	7,089	1,613	2,530	42.1	43.7
Operators, fabricators, and laborers .....	12,541	668	1,075	10,798	6,796	1,612	2,389	40.8	44.2
Machine operators, assemblers, and inspectors .....	4,539	129	134	4,276	2,871	680	725	42.0	43.2
Transportation and material moving occupations .....	4,200	212	241	3,747	1,940	534	1,273	44.0	46.8
Handlers, equipment cleaners, helpers, and laborers .....	3,802	327	701	2,775	1,985	398	392	35.8	42.1
Women, 16 years and over <sup>1</sup> .....	50,818	2,363	11,003	37,452	27,729	4,530	5,192	36.0	41.6
Managerial and professional specialty .....	13,370	282	2,055	11,033	7,345	1,470	2,218	38.8	42.7
Executive, administrative, and managerial .....	5,665	79	448	5,137	3,320	702	1,115	41.2	43.2
Professional specialty .....	7,705	203	1,607	5,895	4,025	768	1,103	36.9	42.2
Technical, sales, and administrative support .....	23,069	846	5,162	17,061	13,350	1,924	1,787	35.6	40.9
Technicians and related support .....	1,818	37	298	1,483	1,124	182	177	37.9	41.4
Sales occupations .....	6,753	423	2,179	4,152	2,831	522	798	33.8	42.4
Administrative support, including clerical .....	14,497	386	2,685	11,426	9,395	1,221	811	36.1	40.3
Service occupations .....	8,961	822	3,109	5,030	3,792	482	755	32.2	41.8
Private household .....	708	102	303	302	206	23	74	28.2	45.7
Protective service .....	268	8	51	209	146	40	23	36.4	42.4
Service, except private household and protective .....	7,986	712	2,756	4,518	3,440	420	658	32.4	41.5
Precision production, craft, and repair .....	1,036	69	99	868	635	135	98	38.4	41.4
Operators, fabricators, and laborers .....	4,382	344	577	3,461	2,607	519	335	37.2	41.1
Machine operators, assemblers, and inspectors .....	3,154	241	238	2,675	2,012	428	235	38.2	40.8
Transportation and material moving occupations .....	431	25	156	250	174	23	52	33.7	43.6
Handlers, equipment cleaners, helpers, and laborers .....	797	79	183	536	420	68	48	35.1	41.3

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and sex	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	187,854	187,995	188,149	188,286	188,428	188,580	188,721	188,865	188,990	189,090	189,198	189,326	189,467
Labor force <sup>1</sup> .....	125,224	125,777	125,679	125,758	125,725	125,857	126,192	126,246	126,094	126,308	126,498	126,543	126,643
Percent of population <sup>2</sup> .....	66.7	66.9	66.8	66.8	66.7	66.7	66.9	66.8	66.7	66.8	66.9	66.8	66.8
Total employed <sup>1</sup> .....	118,805	119,208	119,102	119,238	119,121	119,294	119,540	119,588	119,560	119,713	120,003	119,773	119,989
Employment-population ratio <sup>3</sup> .....	63.2	63.4	63.3	63.3	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.3	63.3
Resident Armed Forces .....	1,673	1,666	1,666	1,688	1,702	1,709	1,704	1,700	1,697	1,678	1,669	1,657	1,639
Civilian employed .....	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350
Agriculture .....	3,137	3,138	3,217	3,275	3,219	3,197	3,160	3,197	3,134	3,079	3,200	3,133	3,305
Nonagricultural industries .....	113,995	114,404	114,219	114,275	114,200	114,388	114,676	114,691	114,728	114,957	115,133	114,983	115,045
Unemployed .....	6,419	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653
Unemployment rate <sup>4</sup> .....	5.1	5.2	5.2	5.2	5.3	5.2	5.3	5.3	5.2	5.2	5.1	5.3	5.3
Not in labor force .....	62,630	62,218	62,470	62,528	62,703	62,723	62,529	62,619	62,896	62,782	62,700	62,783	62,824
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	90,167	90,237	90,315	90,384	90,456	90,535	90,606	90,678	90,772	90,822	90,874	90,942	91,014
Labor force <sup>1</sup> .....	69,142	69,542	69,366	69,404	69,360	69,599	69,635	69,725	69,539	69,639	69,712	69,779	69,737
Percent of population <sup>2</sup> .....	76.7	77.1	76.8	76.8	76.7	76.9	76.9	76.9	76.6	76.7	76.7	76.7	76.6
Total employed <sup>1</sup> .....	65,713	66,078	65,939	65,919	65,681	66,046	66,011	66,143	65,943	66,108	66,208	66,043	66,058
Employment-population ratio <sup>3</sup> .....	72.9	73.2	73.0	72.9	72.6	73.0	72.9	72.9	72.6	72.8	72.9	72.6	72.6
Resident Armed Forces .....	1,511	1,501	1,499	1,519	1,531	1,533	1,529	1,525	1,523	1,506	1,497	1,499	1,472
Civilian employed .....	64,202	64,577	64,440	64,400	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586
Unemployed .....	3,429	3,464	3,427	3,485	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679
Unemployment rate <sup>4</sup> .....	5.0	5.0	4.9	5.0	5.3	5.1	5.2	5.1	5.2	5.1	5.0	5.4	5.3
Not in labor force .....	21,025	20,695	20,949	20,980	21,096	20,936	20,971	20,953	21,233	21,183	21,162	21,163	21,277
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	97,687	97,758	97,834	97,902	97,972	98,045	98,115	98,187	98,218	98,268	98,324	98,383	98,453
Labor force <sup>1</sup> .....	56,082	56,235	56,313	56,354	56,365	56,258	56,557	56,521	56,555	56,669	56,785	56,764	56,906
Percent of population <sup>2</sup> .....	57.4	57.5	57.6	57.6	57.5	57.4	57.6	57.6	57.6	57.7	57.8	57.7	57.8
Total employed <sup>1</sup> .....	53,092	53,130	53,163	53,319	53,440	53,248	53,529	53,445	53,617	53,605	53,795	53,729	53,931
Employment-population ratio <sup>3</sup> .....	54.3	54.3	54.3	54.5	54.5	54.3	54.6	54.4	54.6	54.5	54.7	54.6	54.8
Resident Armed Forces .....	162	165	167	169	171	176	175	175	174	172	172	158	167
Civilian employed .....	52,930	52,965	52,996	53,150	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764
Unemployed .....	2,990	3,105	3,150	3,035	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975
Unemployment rate <sup>4</sup> .....	5.3	5.5	5.6	5.4	5.2	5.4	5.4	5.4	5.2	5.4	5.3	5.3	5.2
Not in labor force .....	41,605	41,523	41,521	41,548	41,607	41,787	41,558	41,666	41,663	41,599	41,539	41,619	41,547

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

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

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

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

Armed Forces).

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

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

(Numbers in thousands)

Employment status, sex, and age	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	186,181	186,329	186,483	186,598	186,726	186,871	187,017	187,165	187,293	187,412	187,529	187,669	187,828
Civilian labor force .....	123,551	124,111	124,013	124,070	124,023	124,148	124,488	124,546	124,397	124,630	124,829	124,886	125,004
Percent of population .....	66.4	66.6	66.5	66.5	66.4	66.4	66.6	66.5	66.4	66.5	66.6	66.5	66.6
Employed .....	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350
Employment-population ratio <sup>2</sup> .....	62.9	63.1	63.0	63.0	62.9	62.9	63.0	63.0	62.9	63.0	63.1	62.9	63.0
Unemployed .....	6,419	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653
Unemployment rate .....	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	81,524	81,592	81,679	81,754	81,790	81,905	81,968	82,055	82,168	82,248	82,378	82,487	82,581
Civilian labor force .....	63,535	63,874	63,736	63,717	63,771	63,918	63,967	64,071	63,958	64,101	64,183	64,251	64,312
Percent of population .....	77.9	78.3	78.0	77.9	78.0	78.0	78.0	78.1	77.8	77.9	77.9	77.9	77.9
Employed .....	60,774	61,072	60,915	60,861	60,729	61,026	61,033	61,154	60,976	61,172	61,270	61,138	61,265
Employment-population ratio <sup>2</sup> .....	74.5	74.9	74.6	74.4	74.2	74.5	74.5	74.5	74.2	74.4	74.4	74.1	74.2
Agriculture .....	2,295	2,279	2,329	2,340	2,330	2,304	2,292	2,293	2,269	2,254	2,268	2,258	2,388
Nonagricultural industries .....	58,479	58,793	58,586	58,521	58,399	58,722	58,741	58,861	58,706	58,918	59,002	58,879	58,877
Unemployed .....	2,761	2,802	2,821	2,856	3,042	2,892	2,934	2,917	2,983	2,929	2,913	3,113	3,047
Unemployment rate .....	4.3	4.4	4.4	4.5	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7
Not in labor force .....	17,989	17,718	17,943	18,037	18,019	17,987	18,001	17,984	18,210	18,147	18,195	18,236	18,269
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	90,432	90,526	90,607	90,684	90,771	90,860	90,952	91,042	91,091	91,157	91,237	91,330	91,414
Civilian labor force .....	52,120	52,219	52,385	52,352	52,358	52,281	52,541	52,586	52,686	52,814	52,800	52,954	53,146
Percent of population .....	57.6	57.7	57.8	57.7	57.7	57.5	57.8	57.8	57.8	57.9	57.9	58.0	58.1
Employed .....	49,649	49,687	49,817	49,875	49,984	49,796	50,043	50,048	50,255	50,287	50,344	50,427	50,709
Employment-population ratio <sup>2</sup> .....	54.9	54.9	55.0	55.0	55.1	54.8	55.0	55.0	55.2	55.2	55.2	55.2	55.5
Agriculture .....	633	622	639	642	660	641	624	618	594	582	648	669	680
Nonagricultural industries .....	49,016	49,065	49,178	49,233	49,324	49,155	49,419	49,430	49,661	49,704	49,696	49,758	50,029
Unemployed .....	2,471	2,532	2,568	2,477	2,374	2,485	2,498	2,538	2,431	2,527	2,456	2,526	2,438
Unemployment rate .....	4.7	4.8	4.9	4.7	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6
Not in labor force .....	38,312	38,307	38,222	38,332	38,413	38,579	38,411	38,456	38,405	38,343	38,437	38,376	38,268
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,224	14,211	14,196	14,160	14,166	14,107	14,097	14,067	14,034	14,008	13,914	13,852	13,832
Civilian labor force .....	7,896	8,018	7,892	8,001	7,894	7,949	7,980	7,889	7,752	7,715	7,846	7,681	7,545
Percent of population .....	55.5	56.4	55.6	56.5	55.7	56.3	56.6	56.1	55.2	55.1	56.4	55.4	54.6
Employed .....	6,709	6,783	6,704	6,814	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376
Employment-population ratio <sup>2</sup> .....	47.2	47.7	47.2	48.1	47.3	47.9	48.0	47.5	47.3	47.0	48.3	47.3	46.1
Agriculture .....	209	237	249	293	229	252	244	286	270	243	285	206	237
Nonagricultural industries .....	6,500	6,546	6,455	6,521	6,477	6,511	6,516	6,400	6,361	6,334	6,435	6,345	6,139
Unemployed .....	1,187	1,235	1,188	1,187	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169
Unemployment rate .....	15.0	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5
Not in labor force .....	6,328	6,193	6,304	6,159	6,272	6,158	6,117	6,178	6,282	6,293	6,068	6,171	6,287

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

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

population.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	159,200	159,297	159,400	159,470	159,549	159,644	159,736	159,832	159,938	160,007	160,076	160,170	160,271
Civilian labor force .....	106,152	106,474	106,384	106,485	106,393	106,618	106,834	106,896	106,884	107,080	107,061	107,133	107,353
Percent of population .....	66.7	66.8	66.7	66.8	66.7	66.8	66.9	66.9	66.8	66.9	66.9	66.9	67.0
Employed .....	101,432	101,683	101,546	101,684	101,579	101,862	101,991	102,032	102,074	102,117	102,206	102,027	102,362
Employment-population ratio <sup>2</sup> .....	63.7	63.8	63.7	63.8	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.7	63.9
Unemployed .....	4,720	4,791	4,838	4,801	4,814	4,756	4,843	4,864	4,811	4,962	4,856	5,106	4,991
Unemployment rate .....	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6
<b>Men, 20 years and over</b>													
Civilian labor force .....	55,280	55,544	55,463	55,443	55,465	55,626	55,676	55,747	55,771	55,815	55,828	55,826	55,919
Percent of population .....	78.3	78.7	78.5	78.4	78.3	78.5	78.5	78.5	78.4	78.4	78.4	78.3	78.3
Employed .....	53,222	53,437	53,331	53,307	53,153	53,483	53,482	53,580	53,560	53,547	53,593	53,425	53,578
Employment-population ratio <sup>2</sup> .....	75.4	75.7	75.4	75.4	75.1	75.5	75.4	75.5	75.3	75.2	75.2	74.9	75.1
Unemployed .....	2,058	2,107	2,132	2,136	2,312	2,143	2,194	2,167	2,211	2,268	2,235	2,400	2,341
Unemployment rate .....	3.7	3.8	3.8	3.9	4.2	3.9	3.9	3.9	4.0	4.1	4.0	4.3	4.2
<b>Women, 20 years and over</b>													
Civilian labor force .....	44,057	44,076	44,230	44,184	44,198	44,207	44,360	44,469	44,475	44,615	44,523	44,740	44,925
Percent of population .....	57.2	57.2	57.3	57.2	57.2	57.1	57.3	57.4	57.4	57.5	57.4	57.6	57.8
Employed .....	42,268	42,279	42,377	42,391	42,520	42,437	42,586	42,641	42,718	42,782	42,765	42,895	43,165
Employment-population ratio <sup>2</sup> .....	54.8	54.8	54.9	54.9	55.0	54.9	55.0	55.0	55.1	55.2	55.1	55.2	55.5
Unemployed .....	1,789	1,797	1,853	1,793	1,678	1,770	1,774	1,828	1,757	1,833	1,758	1,844	1,760
Unemployment rate .....	4.1	4.1	4.2	4.1	3.8	4.0	4.0	4.1	4.0	4.1	3.9	4.1	3.9
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,815	6,854	6,691	6,858	6,730	6,785	6,798	6,680	6,639	6,650	6,710	6,568	6,509
Percent of population .....	58.9	59.3	58.0	59.6	58.7	59.4	59.7	58.9	58.7	59.0	59.8	58.8	58.4
Employed .....	5,942	5,967	5,838	5,986	5,906	5,942	5,923	5,811	5,796	5,788	5,847	5,707	5,619
Employment-population ratio <sup>2</sup> .....	51.3	51.6	50.6	52.0	51.5	52.0	52.0	51.2	51.3	51.4	52.1	51.1	50.4
Unemployed .....	873	887	853	872	824	843	875	869	843	862	863	861	890
Unemployment rate .....	12.8	12.9	12.7	12.7	12.2	12.4	12.9	13.0	12.7	13.0	12.7	13.1	13.7
Men .....	14.1	13.5	12.8	13.1	13.3	13.8	14.3	14.0	12.9	12.7	13.0	13.8	14.2
Women .....	11.4	12.3	12.6	12.3	11.1	10.9	11.3	11.9	12.4	13.2	12.7	12.4	13.1
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	20,986	21,012	21,038	21,060	21,085	21,108	21,136	21,164	21,163	21,188	21,211	21,228	21,261
Civilian labor force .....	13,454	13,569	13,548	13,476	13,518	13,507	13,576	13,522	13,510	13,437	13,581	13,570	13,587
Percent of population .....	64.1	64.6	64.4	64.0	64.1	64.0	64.2	63.9	63.8	63.4	64.0	63.9	63.9
Employed .....	11,962	11,969	12,063	11,961	11,938	11,923	11,954	11,920	11,978	12,030	12,148	12,161	12,179
Employment-population ratio <sup>2</sup> .....	57.0	57.0	57.3	56.8	56.6	56.5	56.6	56.3	56.6	56.8	57.3	57.3	57.3
Unemployed .....	1,492	1,600	1,485	1,515	1,580	1,584	1,622	1,602	1,532	1,407	1,433	1,409	1,408
Unemployment rate .....	11.1	11.8	11.0	11.2	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,209	6,206	6,209	6,198	6,239	6,234	6,247	6,244	6,189	6,172	6,227	6,240	6,241
Percent of population .....	74.3	74.2	74.1	73.9	74.6	74.2	74.2	74.0	73.5	73.3	73.6	73.7	73.5
Employed .....	5,617	5,613	5,621	5,584	5,610	5,593	5,587	5,569	5,496	5,603	5,631	5,651	5,672
Employment-population ratio <sup>2</sup> .....	67.3	67.1	67.1	66.6	67.0	66.6	66.4	66.0	65.2	66.6	66.5	66.8	66.8
Unemployed .....	592	593	588	614	629	641	660	675	693	569	596	589	569
Unemployment rate .....	9.5	9.6	9.5	9.9	10.1	10.3	10.6	10.8	11.2	9.2	9.6	9.4	9.1
<b>Women, 20 years and over</b>													
Civilian labor force .....	6,341	6,401	6,386	6,362	6,360	6,336	6,373	6,311	6,393	6,423	6,456	6,451	6,516
Percent of population .....	60.6	61.1	60.9	60.6	60.5	60.2	60.4	59.7	60.5	60.7	60.9	60.8	61.3
Employed .....	5,734	5,732	5,755	5,753	5,743	5,706	5,722	5,681	5,802	5,821	5,872	5,858	5,921
Employment-population ratio <sup>2</sup> .....	54.8	54.7	54.9	54.8	54.6	54.2	54.2	53.8	54.9	55.0	55.4	55.2	55.7
Unemployed .....	607	669	631	609	617	630	651	630	591	602	584	594	595
Unemployment rate .....	9.6	10.5	9.9	9.6	9.7	9.9	10.2	10.0	9.2	9.4	9.0	9.2	9.1

See footnotes at end of table.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	904	962	953	916	919	937	956	967	928	842	898	879	830
Percent of population .....	41.6	44.2	43.8	42.2	41.8	43.0	44.0	44.6	42.8	38.5	41.7	40.8	38.6
Employed .....	611	624	687	624	585	624	645	670	680	606	645	652	586
Employment-population ratio <sup>2</sup> .....	28.1	28.7	31.6	28.7	26.6	28.6	29.7	30.9	31.3	27.7	30.0	30.3	27.3
Unemployed .....	293	338	266	292	334	313	311	297	248	236	253	227	244
Unemployment rate .....	32.4	35.1	27.9	31.9	36.3	33.4	32.5	30.7	26.7	28.0	28.2	25.8	29.4
Men .....	35.4	33.8	23.2	30.3	33.8	32.0	32.3	30.1	29.2	28.5	30.0	27.2	31.1
Women .....	29.6	36.8	33.1	33.6	38.8	34.9	32.7	31.4	24.0	27.5	26.2	24.3	27.6
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,731	13,772	13,813	13,853	13,894	13,936	13,977	14,019	14,080	14,119	14,159	14,198	14,238
Civilian labor force .....	9,359	9,289	9,403	9,361	9,342	9,339	9,424	9,495	9,440	9,400	9,565	9,618	9,669
Percent of population .....	68.2	67.4	68.1	67.6	67.2	67.0	67.4	67.7	67.0	66.6	67.6	67.7	67.9
Employed .....	8,619	8,543	8,579	8,541	8,564	8,595	8,672	8,691	8,769	8,666	8,831	8,850	8,927
Employment-population ratio <sup>2</sup> .....	62.8	62.0	62.1	61.7	61.6	61.7	62.0	62.0	62.3	61.4	62.4	62.3	62.7
Unemployed .....	740	746	824	820	778	744	752	804	671	734	734	768	742
Unemployment rate .....	7.9	8.0	8.8	8.8	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7

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

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

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

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

(In thousands)

Category	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTIC</b>													
Total .....	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350
Married men, spouse present .....	40,932	41,025	41,067	40,723	40,649	40,839	40,886	41,041	40,982	41,347	40,989	40,730	40,881
Married women, spouse present .....	29,608	29,499	29,520	29,259	29,506	29,544	29,767	29,695	29,897	29,704	29,618	29,742	30,046
Women who maintain families .....	6,354	6,401	6,446	6,371	6,429	6,354	6,351	6,349	6,215	6,378	6,291	6,325	6,400
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,647	1,557	1,685	1,723	1,680	1,678	1,687	1,677	1,634	1,578	1,620	1,621	1,728
Self-employed workers .....	1,377	1,411	1,424	1,410	1,424	1,406	1,373	1,369	1,354	1,375	1,457	1,429	1,502
Unpaid family workers .....	127	126	127	133	132	124	122	125	107	118	115	112	101
Nonagricultural industries:													
Wage and salary workers .....	105,232	105,430	105,353	105,317	105,476	105,504	105,960	105,643	105,747	106,117	106,029	105,938	106,176
Government .....	17,305	17,328	17,501	17,559	17,613	17,595	17,681	17,728	17,626	17,607	17,724	17,816	18,113
Private industries .....	87,927	88,102	87,852	87,758	87,863	87,909	88,279	87,915	88,121	88,510	88,306	88,122	88,063
Private households .....	1,123	1,128	1,094	1,147	1,065	987	1,051	1,077	1,035	1,021	1,003	957	941
Other industries .....	86,804	86,974	86,758	86,611	86,798	86,922	87,228	86,838	87,086	87,489	87,302	87,165	87,122
Self-employed workers .....	8,573	8,578	8,602	8,621	8,581	8,610	8,528	8,653	8,733	8,628	8,852	8,716	8,783
Unpaid family workers .....	299	245	248	272	279	280	264	251	256	313	261	258	254
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	4,883	4,928	4,773	4,802	4,864	4,767	4,803	4,802	4,983	4,887	5,004	4,871	4,831
Slack work .....	2,314	2,315	2,301	2,281	2,321	2,314	2,297	2,277	2,402	2,307	2,476	2,407	2,439
Could only find part-time work .....	2,307	2,269	2,172	2,142	2,161	2,082	2,162	2,106	2,255	2,211	2,127	2,138	2,052
Voluntary part time .....	15,350	15,466	15,577	15,550	15,506	15,368	15,254	15,388	14,931	15,381	15,464	15,193	15,592
Nonagricultural industries:													
Part time for economic reasons .....	4,643	4,738	4,583	4,567	4,605	4,526	4,552	4,554	4,729	4,703	4,747	4,630	4,666
Slack work .....	2,137	2,183	2,164	2,129	2,165	2,166	2,132	2,111	2,240	2,183	2,293	2,218	2,317
Could only find part-time work .....	2,246	2,198	2,104	2,076	2,095	2,021	2,097	2,051	2,172	2,173	2,050	2,096	2,004
Voluntary part time .....	14,977	15,016	15,138	15,071	15,076	14,936	14,805	14,983	14,515	14,924	14,975	14,804	15,064

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350
16 to 24 years .....	19,748	19,889	19,781	19,813	19,489	19,487	19,482	19,298	19,309	19,247	19,459	19,196	19,080
16 to 19 years .....	6,709	6,783	6,704	6,814	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376
16 to 17 years .....	2,597	2,557	2,465	2,574	2,571	2,645	2,598	2,518	2,501	2,513	2,557	2,460	2,386
18 to 19 years .....	4,115	4,199	4,233	4,236	4,149	4,130	4,152	4,161	4,132	4,072	4,164	4,086	3,992
20 to 24 years .....	13,039	13,106	13,077	12,999	12,783	12,724	12,722	12,612	12,678	12,670	12,739	12,646	12,704
25 years and over .....	97,353	97,643	97,726	97,809	97,946	98,122	98,345	98,594	98,547	98,722	98,803	98,836	99,285
25 to 54 years .....	82,458	82,704	82,821	83,064	83,170	83,316	83,594	83,680	83,690	83,856	83,938	83,969	84,344
55 years and over .....	14,938	14,878	14,914	14,780	14,825	14,818	14,784	14,849	14,805	14,867	14,870	14,856	14,971
Men, 16 years and over .....	64,202	64,577	64,440	64,400	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586
16 to 24 years .....	10,249	10,372	10,291	10,275	10,070	10,211	10,123	10,128	10,091	10,071	10,110	10,018	9,992
16 to 19 years .....	3,428	3,505	3,525	3,539	3,421	3,487	3,449	3,464	3,444	3,430	3,441	3,407	3,321
16 to 17 years .....	1,315	1,305	1,288	1,372	1,280	1,357	1,329	1,308	1,298	1,315	1,317	1,270	1,224
18 to 19 years .....	2,090	2,187	2,245	2,159	2,138	2,134	2,140	2,153	2,149	2,121	2,126	2,130	2,071
20 to 24 years .....	6,821	6,867	6,766	6,736	6,649	6,724	6,674	6,664	6,647	6,640	6,669	6,611	6,671
25 years and over .....	53,933	54,197	54,182	54,171	54,095	54,302	54,362	54,494	54,335	54,463	54,558	54,475	54,605
25 to 54 years .....	45,388	45,568	45,603	45,708	45,696	45,829	45,938	46,048	45,832	46,013	46,081	46,041	46,099
55 years and over .....	8,539	8,576	8,583	8,462	8,439	8,488	8,432	8,441	8,509	8,485	8,480	8,432	8,498
Women, 16 years and over .....	52,930	52,965	52,996	53,150	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764
16 to 24 years .....	9,499	9,517	9,490	9,538	9,419	9,276	9,359	9,170	9,218	9,176	9,349	9,178	9,088
16 to 19 years .....	3,281	3,278	3,179	3,275	3,285	3,276	3,311	3,222	3,187	3,146	3,279	3,144	3,056
16 to 17 years .....	1,282	1,252	1,177	1,202	1,291	1,288	1,269	1,210	1,203	1,198	1,240	1,190	1,162
18 to 19 years .....	2,025	2,012	1,988	2,077	2,011	1,996	2,012	2,008	1,983	1,951	2,038	1,956	1,921
20 to 24 years .....	6,218	6,239	6,311	6,263	6,134	6,000	6,048	5,948	6,030	6,029	6,070	6,034	6,032
25 years and over .....	43,420	43,446	43,544	43,638	43,851	43,820	43,983	44,100	44,212	44,259	44,245	44,361	44,679
25 to 54 years .....	37,070	37,136	37,218	37,356	37,474	37,487	37,656	37,632	37,859	37,844	37,857	37,928	38,245
55 years and over .....	6,399	6,302	6,331	6,318	6,386	6,330	6,352	6,408	6,296	6,382	6,390	6,424	6,472

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

(In thousands)

Sex and age	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	6,419	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653
16 to 24 years .....	2,312	2,485	2,419	2,437	2,426	2,428	2,472	2,428	2,299	2,294	2,274	2,425	2,349
16 to 19 years .....	1,187	1,235	1,188	1,187	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169
16 to 17 years .....	516	540	530	545	534	536	548	558	434	509	520	519	597
18 to 19 years .....	684	719	638	623	684	645	665	645	683	609	615	609	587
20 to 24 years .....	1,125	1,250	1,231	1,250	1,238	1,242	1,252	1,225	1,178	1,156	1,148	1,295	1,180
25 years and over .....	4,060	4,054	4,106	4,069	4,197	4,144	4,188	4,242	4,279	4,304	4,237	4,347	4,245
25 to 54 years .....	3,637	3,546	3,629	3,568	3,701	3,652	3,688	3,744	3,780	3,781	3,727	3,864	3,832
55 years and over .....	453	507	480	473	465	464	496	494	525	526	515	505	464
Men, 16 years and over .....	3,429	3,464	3,427	3,485	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679
16 to 24 years .....	1,260	1,332	1,263	1,330	1,361	1,349	1,380	1,361	1,267	1,226	1,236	1,343	1,261
16 to 19 years .....	668	662	606	629	637	661	690	665	614	601	592	622	632
16 to 17 years .....	302	316	279	295	311	308	312	319	214	259	267	281	318
18 to 19 years .....	371	347	309	325	340	353	382	346	397	336	336	341	320
20 to 24 years .....	592	670	657	701	724	688	690	696	653	625	644	721	629
25 years and over .....	2,118	2,102	2,132	2,143	2,313	2,214	2,258	2,238	2,373	2,313	2,291	2,387	2,358
25 to 54 years .....	1,863	1,815	1,858	1,821	1,978	1,919	1,967	1,917	2,079	2,018	1,997	2,099	2,089
55 years and over .....	265	275	278	293	310	280	303	314	313	308	300	310	296
Women, 16 years and over .....	2,990	3,105	3,150	3,035	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975
16 to 24 years .....	1,052	1,153	1,156	1,107	1,065	1,079	1,092	1,067	1,032	1,069	1,038	1,082	1,087
16 to 19 years .....	519	573	582	558	551	525	530	538	507	537	534	508	537
16 to 17 years .....	214	224	251	250	223	228	236	239	220	250	253	238	279
18 to 19 years .....	313	372	329	298	344	292	283	299	286	273	279	268	267
20 to 24 years .....	533	580	574	549	514	554	562	529	525	532	504	574	550
25 years and over .....	1,942	1,952	1,974	1,926	1,884	1,930	1,930	2,004	1,906	1,991	1,945	1,961	1,887
25 to 54 years .....	1,774	1,731	1,771	1,747	1,723	1,733	1,721	1,827	1,701	1,763	1,730	1,765	1,742
55 years and over .....	188	232	202	180	155	184	193	180	212	218	216	195	169

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

(Civilian workers)

Sex and age	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total, 16 years and over .....	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3
16 to 24 years .....	10.5	11.1	10.9	11.0	11.1	11.1	11.3	11.2	10.6	10.7	10.5	11.2	11.0
16 to 19 years .....	15.0	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5
16 to 17 years .....	16.6	17.4	17.7	17.5	17.2	16.9	17.4	18.1	14.8	16.8	16.9	17.4	20.0
18 to 19 years .....	14.3	14.6	13.1	12.8	14.2	13.5	13.8	13.4	14.2	13.0	12.9	13.0	12.8
20 to 24 years .....	7.9	8.7	8.6	8.8	8.8	8.9	9.0	8.9	8.5	8.4	8.3	9.3	8.5
25 years and over .....	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.2	4.2	4.1	4.2	4.1
25 to 54 years .....	4.2	4.1	4.2	4.1	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.4	4.3
55 years and over .....	2.9	3.3	3.1	3.1	3.0	3.0	3.2	3.2	3.4	3.4	3.3	3.3	3.0
Men, 16 years and over .....	5.1	5.1	5.0	5.1	5.4	5.2	5.3	5.3	5.3	5.2	5.1	5.5	5.4
16 to 24 years .....	10.9	11.4	10.9	11.5	11.9	11.7	12.0	11.8	11.2	10.9	10.9	11.8	11.2
16 to 19 years .....	16.3	15.9	14.7	15.1	15.7	15.9	16.7	16.1	15.1	14.9	14.7	15.4	16.0
16 to 17 years .....	18.7	19.5	17.8	17.7	19.5	18.5	19.0	19.6	14.2	16.5	16.9	18.1	20.6
18 to 19 years .....	15.1	13.7	12.1	13.1	13.7	14.2	15.1	13.8	15.6	13.7	13.6	13.8	13.4
20 to 24 years .....	8.0	8.9	8.9	9.4	9.8	9.3	9.4	9.5	8.9	8.6	8.8	9.8	8.6
25 years and over .....	3.8	3.7	3.8	3.8	4.1	3.9	4.0	3.9	4.2	4.1	4.0	4.2	4.1
25 to 54 years .....	3.9	3.8	3.9	3.8	4.1	4.0	4.1	4.0	4.3	4.2	4.2	4.4	4.3
55 years and over .....	3.0	3.1	3.1	3.3	3.5	3.2	3.5	3.6	3.6	3.5	3.4	3.5	3.4
Women, 16 years and over .....	5.3	5.5	5.6	5.4	5.2	5.4	5.4	5.5	5.2	5.4	5.3	5.4	5.2
16 to 24 years .....	10.0	10.8	10.9	10.4	10.2	10.4	10.4	10.4	10.1	10.4	10.0	10.5	10.7
16 to 19 years .....	13.7	14.9	15.5	14.6	14.4	13.8	13.8	14.3	13.7	14.6	14.0	13.9	14.9
16 to 17 years .....	14.3	15.2	17.6	17.2	14.7	15.0	15.7	16.5	15.5	17.3	16.9	16.7	19.4
18 to 19 years .....	13.4	15.6	14.2	12.5	14.6	12.8	12.3	13.0	12.6	12.3	12.0	12.1	12.2
20 to 24 years .....	7.9	8.5	8.3	8.1	7.7	8.5	8.5	8.2	8.0	8.1	7.7	8.7	8.4
25 years and over .....	4.3	4.3	4.3	4.2	4.1	4.2	4.2	4.3	4.1	4.3	4.2	4.2	4.1
25 to 54 years .....	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.6	4.3	4.5	4.4	4.4	4.4
55 years and over .....	2.9	3.6	3.1	2.8	2.4	2.8	2.9	2.7	3.3	3.3	3.3	2.9	2.5

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

(Unemployment rates)

Category	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3
Men, 20 years and over .....	4.3	4.4	4.4	4.5	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7
Women, 20 years and over .....	4.7	4.8	4.9	4.7	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6
Both sexes, 16 to 19 years .....	15.0	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5
White .....	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6
Black and other .....	9.6	10.2	9.6	9.7	10.2	10.2	10.3	10.2	10.1	9.2	9.4	9.1	9.3
Black .....	11.1	11.8	11.0	11.2	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4
Hispanic origin .....	7.9	8.0	8.8	8.8	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7
Married men, spouse present .....	2.9	2.9	3.0	3.1	3.3	3.0	3.1	3.0	3.4	3.0	3.2	3.3	3.3
Married women, spouse present .....	3.8	3.8	3.8	3.9	3.8	3.9	3.8	3.9	3.7	3.8	3.6	3.5	3.5
Women who maintain families .....	8.2	7.9	8.5	8.0	7.7	7.8	8.2	8.1	7.5	7.5	8.4	7.5	7.4
Full-time workers .....	4.9	4.9	5.0	4.9	5.0	4.9	5.0	5.0	5.0	4.9	4.9	5.1	4.9
Part-time workers .....	6.9	7.7	7.2	7.1	7.3	7.1	7.4	7.5	7.0	7.4	7.2	7.1	7.4
Unemployed 15 weeks and over <sup>1</sup> .....	1.1	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Labor force time lost <sup>2</sup> .....	6.0	6.0	6.0	6.0	6.0	5.9	5.9	6.0	6.0	5.9	5.9	6.2	6.0
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.2	5.3	5.4	5.4	5.4	5.3	5.4	5.4	5.5	5.5	5.5	5.7	5.5
Goods-producing industries .....	5.9	6.2	6.2	6.3	6.3	6.2	6.3	6.5	6.7	6.6	6.6	6.9	6.7
Mining .....	4.6	3.9	5.8	6.4	8.4	4.8	6.2	4.4	6.8	4.8	5.9	4.6	3.3
Construction .....	9.5	10.0	10.3	10.2	10.1	9.3	9.8	9.8	9.3	8.9	10.0	10.6	11.5
Manufacturing .....	4.9	5.1	5.1	5.2	5.2	5.4	5.4	5.6	5.9	5.9	5.5	5.9	5.4
Durable goods .....	4.6	4.6	4.7	4.9	4.9	5.2	5.4	5.4	5.8	5.5	5.3	5.7	5.5
Nondurable goods .....	5.5	5.8	5.6	5.7	5.5	5.6	5.3	5.9	5.9	6.4	5.9	6.3	5.2
Service-producing industries .....	4.9	4.9	5.0	4.9	5.0	4.9	5.0	4.9	5.0	5.0	5.0	5.1	5.0
Transportation and public utilities .....	4.0	4.1	4.1	3.7	4.5	3.9	3.6	3.4	4.3	4.0	3.4	4.3	3.2
Wholesale and retail trade .....	5.6	6.0	6.1	6.0	5.9	5.9	6.4	6.3	6.2	6.0	6.2	6.2	6.3
Finance and service industries .....	4.6	4.3	4.4	4.4	4.5	4.3	4.3	4.2	4.3	4.4	4.5	4.5	4.4
Government workers .....	2.9	2.9	2.8	2.7	2.8	2.7	2.7	2.6	2.4	2.5	2.3	2.1	2.5
Agricultural wage and salary workers .....	9.9	10.4	8.9	9.0	7.8	9.8	12.1	9.7	9.2	9.3	10.1	11.0	7.9

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

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Weeks of unemployment	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>DURATION</b>													
Less than 5 weeks .....	3,070	3,279	3,156	3,125	3,169	3,166	3,258	3,302	3,119	3,159	3,194	3,204	3,026
5 to 14 weeks .....	1,993	2,006	1,965	2,002	2,030	1,995	1,991	2,013	2,012	2,079	2,044	2,175	2,236
15 weeks and over .....	1,331	1,295	1,461	1,338	1,359	1,378	1,422	1,362	1,430	1,369	1,333	1,386	1,374
15 to 26 weeks .....	711	684	838	759	769	743	765	730	777	731	702	697	764
27 weeks and over .....	620	611	623	579	590	635	657	632	653	638	631	688	610
Average (mean) duration, in weeks .....	11.9	11.2	11.9	11.4	11.5	11.7	11.6	11.5	12.1	11.7	12.0	12.1	11.6
Median duration, in weeks .....	5.3	5.4	5.4	5.0	5.0	5.0	4.8	4.8	5.1	5.4	5.1	5.0	5.4
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	48.0	49.8	47.9	48.3	48.3	48.4	48.8	49.5	47.5	47.8	48.6	47.4	45.6
5 to 14 weeks .....	31.2	30.5	29.9	31.0	31.0	30.5	29.8	30.1	30.7	31.5	31.1	32.2	33.7
15 weeks and over .....	20.8	19.7	22.2	20.7	20.7	21.1	21.3	20.4	21.8	20.7	20.3	20.5	20.7
15 to 26 weeks .....	11.1	10.4	12.7	11.7	11.7	11.4	11.5	10.9	11.8	11.1	10.7	10.3	11.5
27 weeks and over .....	9.7	9.3	9.5	9.0	9.0	9.7	9.8	9.5	9.9	9.7	9.6	10.2	9.2

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

(Numbers in thousands)

Reasons for unemployment	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	2,798	2,820	2,916	2,964	2,932	2,979	3,092	3,097	3,183	3,103	3,038	3,147	3,171
On layoff .....	805	813	829	865	852	780	969	957	1,033	964	941	999	979
Other job losers .....	1,993	2,007	2,087	2,099	2,080	2,199	2,123	2,140	2,150	2,139	2,097	2,148	2,192
Job leavers .....	1,103	1,021	1,016	1,031	1,034	994	1,049	1,055	1,016	1,006	1,014	1,179	1,014
Reentrants .....	1,853	1,993	1,901	1,772	1,920	1,890	1,845	1,853	1,730	1,805	1,859	1,780	1,820
New entrants .....	696	726	723	643	648	685	695	686	640	680	644	617	683
<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 .....	43.4	43.0	44.5	46.2	44.9	45.5	46.3	46.3	48.5	47.1	46.3	46.8	47.4
On layoff .....	12.5	12.4	12.6	13.5	13.0	11.9	14.5	14.3	15.7	14.6	14.4	14.9	14.6
Other job losers .....	30.9	30.6	31.8	32.7	31.8	33.6	31.8	32.0	32.7	32.4	32.0	31.9	32.8
Job leavers .....	17.1	15.6	15.5	16.1	15.8	15.2	15.7	15.8	15.5	15.3	15.5	17.5	15.2
Reentrants .....	28.7	30.4	29.0	27.6	29.4	28.9	27.6	27.7	26.3	27.4	28.4	26.5	27.2
New entrants .....	10.8	11.1	11.0	10.0	9.9	10.5	10.4	10.3	9.7	10.3	9.8	9.2	10.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.4	2.5	2.5
On layoff .....	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9	.8
Other job losers .....	1.5	1.6	1.5	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.4	1.5
Job leavers .....	.6	.6	.6	.5	.5	.6	.6	.6	.5	.5	.5	.5	.5



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Total</b> .....		107,944	108,745	109,581	110,263	111,031	-	-	-	-	-
<b>Total private</b> .....		89,975	90,715	91,088	91,699	92,306	72,751	73,428	73,569	74,139	74,679
<b>Mining</b> .....		711	719	737	747	755	511	518	530	539	545
Metal mining .....	10	59.5	61.1	65.3	65.9	-	47.2	48.5	51.8	52.3	-
Iron ores .....	101	9.0	9.3	9.9	9.9	-	7.4	7.6	8.1	8.1	-
Copper ores .....	102	13.9	14.0	15.0	15.1	-	11.0	11.1	12.1	12.3	-
Coal mining .....	11,12	143.2	144.0	145.5	147.5	-	117.5	117.9	119.6	121.0	-
Bituminous coal and lignite mining .....	12	141.0	141.8	142.7	144.5	-	115.6	116.0	117.2	118.4	-
Oil and gas extraction .....	13	394.0	395.9	415.0	418.0	420.6	258.7	260.6	275.3	277.5	-
Crude petroleum, natural gas, and natural gas liquids ...	131,2	196.1	196.1	195.6	195.7	-	97.5	97.1	95.3	94.8	-
Oil and gas field services .....	138	197.9	199.8	219.4	222.3	-	161.2	163.5	180.0	182.7	-
Nonmetallic minerals, except fuels .....	14	114.7	118.3	110.7	115.7	-	87.7	91.0	83.1	88.2	-
Crushed and broken stone .....	142	41.5	42.7	38.7	41.2	-	32.8	34.0	29.6	32.1	-
Sand and gravel .....	144	35.2	37.2	33.7	35.7	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	17.7	17.8	17.8	17.9	-	-	-	-	-	-
<b>Construction</b> .....		5,121	5,325	5,003	5,177	5,355	3,960	4,152	3,821	3,983	4,145
General building contractors .....	15	1,331.7	1,383.9	1,320.8	1,336.2	1,380.1	955.4	1,004.4	936.5	953.3	-
Residential building construction .....	152	716.2	748.1	708.9	716.0	-	500.1	529.7	489.5	497.0	-
Operative builders .....	153	45.3	45.3	42.5	42.2	-	19.6	20.0	18.4	18.3	-
Nonresidential building construction .....	154	570.2	590.5	569.4	578.0	-	435.7	454.7	428.6	438.0	-
Heavy construction contractors .....	16	775.3	822.8	743.1	801.9	-	642.6	688.7	609.0	666.0	-
Highway and street construction .....	161	236.4	265.4	201.1	235.1	-	191.4	219.5	158.6	191.0	-
Heavy construction, except highway .....	162	538.9	557.4	542.0	566.8	-	451.2	469.2	450.4	475.0	-
Special trade contractors .....	17	3,013.8	3,118.2	2,938.7	3,039.1	-	2,361.9	2,459.2	2,275.6	2,363.9	-
Plumbing, heating, and air conditioning .....	171	661.3	671.1	652.4	654.7	-	486.7	495.8	476.3	478.5	-
Painting, paper hanging, and decorating .....	172	170.4	179.6	162.5	167.3	-	140.9	150.5	133.3	137.7	-
Electrical work .....	173	540.7	549.7	552.1	551.9	-	415.6	423.3	424.3	424.0	-
Masonry, stonework, and plastering .....	174	492.9	511.5	481.2	501.1	-	421.5	439.8	410.0	427.3	-
Carpentering and flooring .....	175	197.1	198.8	185.9	184.0	-	153.4	154.5	140.3	138.9	-
Roofing and sheet metal work .....	176	208.0	215.5	204.9	214.4	-	164.7	170.7	160.2	169.2	-
<b>Manufacturing</b> .....		19,580	19,619	19,317	19,320	19,329	13,362	13,390	13,107	13,124	13,137
<b>Durable goods</b> .....		11,573	11,587	11,342	11,336	11,345	7,727	7,738	7,528	7,535	7,548
Lumber and wood products .....	24	757.8	769.1	745.6	749.5	760.3	628.4	638.8	614.2	618.1	627.9
Logging camps and logging contractors .....	241	83.1	89.6	86.8	85.3	-	67.3	73.4	70.8	69.2	-
Sawmills and planing mills .....	242	206.6	208.4	205.2	205.6	-	180.6	182.4	178.8	179.3	-
Sawmills and planing mills, general .....	2421	167.7	169.1	167.1	167.4	-	146.4	148.0	145.5	145.9	-
Hardwood dimension and flooring .....	2426	35.2	35.6	34.6	34.7	-	31.1	31.3	30.4	30.5	-
Millwork, plywood, and structural members .....	243	268.9	271.6	260.6	263.8	-	220.1	222.2	211.1	213.9	-
Millwork .....	2431	107.4	109.0	102.7	104.2	-	86.7	88.1	81.5	82.6	-
Wood kitchen cabinets .....	2434	72.4	72.7	69.8	70.7	-	57.8	57.9	55.3	56.1	-
Hardwood veneer and plywood .....	2435	24.7	24.9	23.9	23.9	-	21.5	21.6	20.5	20.7	-
Softwood veneer and plywood .....	2436	35.1	35.2	36.3	36.5	-	31.5	31.5	32.6	32.8	-
Wood containers .....	244	43.8	43.8	42.2	42.3	-	37.1	37.2	35.5	35.8	-
Wood buildings and mobile homes .....	245	69.5	70.0	65.5	66.8	-	52.7	53.3	49.0	50.5	-
Mobile homes .....	2451	48.6	49.3	46.9	47.7	-	39.5	40.2	37.6	38.4	-
Miscellaneous wood products .....	249	85.9	85.7	85.3	85.7	-	70.6	70.3	69.0	69.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	536.0	531.3	522.9	520.6	519.1	427.0	423.8	414.5	413.2	410.8
Household furniture .....	251	313.1	310.0	303.4	302.4	-	264.9	262.0	254.3	253.6	-
Wood household furniture .....	2511	138.6	137.7	133.2	132.2	-	121.2	120.4	115.0	114.1	-
Upholstered household furniture .....	2512	102.1	101.7	102.2	102.7	-	85.6	85.1	85.2	85.8	-
Metal household furniture .....	2514	28.5	26.7	25.5	25.1	-	23.3	21.6	20.6	20.2	-
Mattresses and bedsprings .....	2515	30.5	30.3	29.7	29.7	-	23.4	23.3	22.7	22.8	-
Office furniture .....	252	71.3	69.4	67.6	66.0	-	52.2	51.9	50.4	49.3	-
Public building and related furniture .....	253	34.8	34.7	33.0	33.3	-	27.4	27.2	25.6	25.9	-
Partitions and fixtures .....	254	79.1	79.2	80.9	81.2	-	57.1	57.0	58.1	58.3	-
Miscellaneous furniture and fixtures .....	259	37.7	38.0	38.0	37.7	-	25.4	25.7	26.1	26.1	-
Stone, clay, and glass products .....	32	603.3	609.2	584.8	591.5	598.1	469.4	474.8	451.4	457.9	462.7
Flat glass .....	321	16.4	16.3	16.0	15.6	-	13.3	13.2	12.6	12.2	-
Glass and glassware, pressed or blown .....	322	83.6	84.3	82.5	81.8	-	72.3	72.9	71.2	70.7	-
Glass containers .....	3221	41.8	42.6	41.9	41.1	-	38.0	38.8	37.8	37.0	-
Pressed and blown glass, nec .....	3229	41.8	41.7	40.6	40.7	-	34.3	34.1	33.4	33.7	-
Products of purchased glass .....	323	55.7	55.5	53.6	53.2	-	42.9	42.6	40.8	40.7	-
Cement, hydraulic .....	324	19.3	19.4	19.3	19.4	-	14.6	14.7	14.8	14.8	-
Structural clay products .....	325	38.4	38.6	36.7	37.2	-	29.9	30.0	28.3	28.6	-
Pottery and related products .....	326	38.2	38.3	38.5	38.2	-	30.5	30.6	30.6	30.3	-
Concrete, gypsum, and plaster products .....	327	214.7	219.6	205.5	212.2	-	164.6	169.3	155.7	162.2	-
Concrete block and brick .....	3271	19.3	19.9	17.9	18.7	-	12.5	13.0	11.7	12.2	-
Concrete products, nec .....	3272	75.3	75.8	72.9	73.8	-	57.4	57.8	54.4	55.6	-
Ready-mixed concrete .....	3273	100.2	104.2	95.1	100.1	-	79.5	83.2	74.5	79.2	-
Misc. nonmetallic mineral products .....	329	121.2	121.4	117.7	118.5	-	89.1	89.2	86.1	86.9	-
Abrasive products .....	3291	22.6	22.8	22.1	22.2	-	16.0	16.2	15.6	15.6	-
Asbestos products .....	3292	8.9	8.9	8.9	8.9	-	6.7	6.7	6.6	6.7	-
Mineral wool .....	3296	26.6	26.5	25.8	25.8	-	-	-	-	-	-
Primary metal industries .....	33	788.7	786.9	766.8	767.0	766.2	603.7	601.7	583.3	583.7	582.0
Blast furnaces and basic steel products .....	331	275.2	275.5	267.1	267.7	266.4	212.8	212.7	205.2	205.5	203.8
Blast furnaces and steel mills .....	3312	206.2	206.4	200.5	200.8	-	161.0	160.8	155.4	155.5	-
Steel pipe and tubes .....	3317	24.9	24.8	24.3	24.6	-	18.8	18.7	18.4	18.5	-
Iron and steel foundries .....	332	145.7	144.8	140.4	139.4	-	116.3	115.5	112.1	111.2	-
Gray iron foundries .....	3321	87.9	87.6	85.4	86.1	-	72.3	71.9	69.6	70.3	-
Malleable iron foundries .....	3322	9.8	9.8	8.7	8.8	-	7.4	7.4	6.6	6.8	-
Steel foundries, nec .....	3325	31.9	31.3	30.5	29.0	-	25.2	24.6	24.0	22.5	-
Primary nonferrous metals .....	333	45.3	45.4	45.2	45.3	-	33.9	34.1	33.6	33.7	-
Primary aluminum .....	3334	26.9	27.0	26.6	26.6	-	20.7	20.9	20.3	20.4	-
Nonferrous rolling and drawing .....	335	182.6	182.1	179.0	178.8	-	131.1	130.8	128.3	128.5	-
Copper rolling and drawing .....	3351	23.5	23.5	22.6	22.7	-	18.0	18.1	17.3	17.4	-
Aluminum sheet, plate, and foil .....	3353	28.4	28.3	28.3	28.4	-	19.2	19.1	18.9	19.0	-
Nonferrous wire drawing and insulating .....	3357	78.2	77.7	76.1	75.9	-	57.2	56.7	55.5	55.5	-
Nonferrous foundries .....	336	92.3	91.7	89.1	89.8	-	74.1	73.4	70.6	71.1	-
Aluminum foundries .....	3361	55.1	54.8	52.1	52.6	-	45.0	44.6	42.0	42.5	-
Fabricated metal products .....	34	1,449.5	1,451.0	1,416.1	1,420.4	1,419.4	1,076.5	1,077.6	1,043.1	1,047.3	1,046.6
Metal cans and shipping containers .....	341	52.3	52.8	52.5	52.9	-	45.0	45.4	44.9	45.1	-
Metal cans .....	3411	41.4	41.6	41.5	41.8	-	36.0	36.1	35.9	36.2	-
Cutlery, hand tools, and hardware .....	342	136.6	135.9	132.7	132.1	-	101.3	100.3	97.5	96.7	-
Hand and edge tools, and hand saws and blades .....	3423	46.2	45.9	45.7	45.4	-	33.8	33.3	33.7	33.1	-
Hardware, nec .....	3429	79.2	78.8	75.1	74.9	-	59.8	59.3	55.6	55.6	-
Plumbing and heating, except electric .....	343	59.8	60.0	60.4	60.3	-	43.3	43.4	42.9	42.9	-
Plumbing fittings and brass goods .....	3432	26.1	25.9	26.0	26.0	-	19.6	19.3	19.2	19.2	-
Heating equipment, except electric .....	3433	21.0	21.4	21.8	21.5	-	14.0	14.4	14.2	14.1	-
Fabricated structural metal products .....	344	432.2	434.4	425.1	426.3	-	308.0	310.1	299.8	301.0	-
Fabricated structural metal .....	3441	78.5	79.0	78.0	77.5	-	56.3	56.7	55.7	55.4	-
Metal doors, sash, and trim .....	3442	81.7	83.5	78.3	80.2	-	59.2	60.9	55.7	57.6	-
Fabricated plate work (boiler shops) .....	3443	107.3	107.3	107.7	108.0	-	72.7	72.5	72.4	72.5	-
Sheet metal work .....	3444	99.4	99.2	97.3	96.6	-	74.2	74.3	72.2	71.5	-
Architectural metal work .....	3446	33.2	33.1	31.9	31.7	-	24.1	23.9	22.6	22.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>b</sup>	May 1990 <sup>b</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>b</sup>	May 1990 <sup>b</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Screw machine products, bolts, etc .....	345	101.9	101.4	99.3	98.9	-	77.9	77.3	76.2	76.1	-
Screw machine products .....	3451	50.6	50.2	49.2	48.9	-	41.3	40.8	39.8	39.7	-
Bolts, nuts, rivets, and washers .....	3452	51.3	51.2	50.1	50.0	-	36.6	36.5	36.4	36.4	-
Metal forgings and stampings .....	346	237.1	236.6	223.9	226.1	-	189.7	189.2	176.1	178.7	-
Iron and steel forgings .....	3462	33.6	33.4	32.0	32.2	-	25.9	25.7	24.5	24.7	-
Automotive stampings .....	3465	106.9	106.3	97.2	99.3	-	90.6	90.0	80.8	83.0	-
Metal stampings, nec .....	3469	84.0	84.2	82.2	82.3	-	63.7	63.9	61.5	61.9	-
Metal services, nec .....	347	129.1	130.0	128.2	128.9	-	102.6	103.4	100.7	101.0	-
Plating and polishing .....	3471	83.4	83.9	82.5	82.7	-	66.7	67.1	65.3	65.2	-
Metal coating and allied services .....	3479	45.7	46.1	45.7	46.2	-	35.9	36.3	35.4	35.8	-
Ordnance and accessories, nec .....	348	73.1	72.3	68.2	68.0	-	43.8	43.4	42.5	42.6	-
Ammunition, except for small arms, nec .....	3483	40.7	40.1	37.3	37.1	-	21.4	21.1	20.6	20.7	-
Misc. fabricated metal products .....	349	227.4	227.6	225.8	226.9	-	164.9	165.1	162.5	163.2	-
Valves and pipe fittings .....	3494	78.1	78.5	78.6	78.7	-	52.4	52.7	52.1	52.2	-
Misc. fabricated wire products .....	3496	55.8	55.6	56.1	56.5	-	42.5	42.6	42.4	42.8	-
Machinery, except electrical .....	35	2,148.4	2,153.9	2,137.7	2,129.3	2,126.7	1,303.1	1,306.2	1,298.6	1,294.1	1,291.3
Engines and turbines .....	351	97.9	98.2	99.0	98.2	-	64.3	64.8	64.6	63.5	-
Turbines and turbine generator sets .....	3511	27.4	27.7	29.4	29.8	-	16.0	16.3	16.8	17.1	-
Internal combustion engines, nec .....	3519	70.5	70.5	69.6	68.4	-	48.3	48.5	47.8	46.4	-
Farm and garden machinery .....	352	111.7	110.3	123.2	124.4	-	81.5	80.1	92.5	93.0	-
Farm machinery and equipment .....	3523	80.3	80.3	85.2	85.2	-	56.8	56.7	61.4	61.3	-
Construction and related machinery .....	353	236.6	238.0	240.9	241.2	-	145.6	146.6	148.2	148.6	-
Construction machinery .....	3531	86.0	86.8	87.2	87.4	-	53.6	54.2	53.8	54.0	-
Mining machinery .....	3532	16.7	16.7	17.2	17.2	-	10.3	10.4	10.7	10.7	-
Oil field machinery .....	3533	42.5	42.6	43.1	43.2	-	25.1	25.1	25.7	25.8	-
Conveyors and conveying equipment .....	3535	36.2	36.2	36.1	36.1	-	19.8	19.9	20.0	20.0	-
Industrial trucks and tractors .....	3537	28.2	28.6	29.1	29.1	-	19.5	19.6	19.7	19.7	-
Metalworking machinery .....	354	334.7	335.6	331.8	330.8	-	242.0	243.0	238.6	237.9	-
Machine tools, metal cutting types .....	3541	53.2	53.6	52.9	52.6	-	34.8	35.2	34.4	34.1	-
Machine tools, metal forming types .....	3542	19.4	19.4	19.8	19.7	-	12.6	12.6	12.5	12.4	-
Special dies, tools, jigs, and fixtures .....	3544	157.2	157.5	157.0	156.7	-	121.2	121.5	121.5	121.2	-
Machine tool accessories .....	3545	61.8	61.7	59.8	59.4	-	44.0	44.1	42.0	41.9	-
Power driven hand tools .....	3546	23.5	23.7	23.0	22.9	-	16.9	17.0	15.9	15.9	-
Special industry machinery .....	355	179.2	179.4	175.7	175.4	-	107.4	107.5	103.9	103.7	-
Food products machinery .....	3551	36.0	36.2	35.7	35.5	-	21.7	21.9	21.7	21.3	-
Textile machinery .....	3552	21.2	21.2	21.0	20.9	-	14.0	14.0	13.9	13.8	-
Printing trades machinery .....	3555	29.5	29.5	26.8	26.7	-	17.3	17.4	15.1	15.2	-
General industrial machinery .....	356	256.2	256.9	256.5	255.5	-	166.6	166.6	166.7	166.5	-
Pumps and pumping equipment .....	3561	46.0	46.1	46.4	46.3	-	26.7	26.7	27.4	27.5	-
Ball and roller bearings .....	3562	43.7	43.9	43.9	43.7	-	34.2	34.4	34.1	34.0	-
Air and gas compressors .....	3563	22.4	22.6	22.6	22.7	-	12.9	12.8	12.8	12.9	-
Blowers and fans .....	3564	31.5	31.5	31.5	31.6	-	21.0	21.1	21.3	21.4	-
Speed changers, drives, and gears .....	3566	17.7	17.7	17.7	17.6	-	12.4	12.2	12.3	12.3	-
Power transmission equipment, nec .....	3568	18.9	18.9	18.6	18.6	-	13.0	13.0	12.7	12.7	-
Office and computing machines .....	357	473.7	475.2	463.9	458.3	-	154.7	154.6	154.2	151.7	-
Electronic computing equipment .....	3573	418.7	420.4	410.0	404.8	-	129.1	129.0	129.1	127.0	-
Refrigeration and service machinery .....	358	188.3	189.6	177.9	178.1	-	135.8	137.0	125.3	125.7	-
Refrigeration and heating equipment .....	3585	131.5	132.7	123.5	123.7	-	97.8	99.0	89.7	90.1	-
Misc. machinery, except electrical .....	359	270.1	270.7	268.8	267.4	-	205.2	206.0	204.6	203.5	-
Carburetors, pistons, rings, and valves .....	3592	30.5	30.3	28.4	27.8	-	24.1	24.1	22.9	22.6	-
Machinery, except electrical, nec .....	3599	239.6	240.4	240.4	239.6	-	181.1	181.9	181.7	180.9	-
Electrical and electronic equipment .....	36	2,047.8	2,039.6	1,981.9	1,973.5	1,966.4	1,205.8	1,198.0	1,169.1	1,165.5	1,162.8
Electric distributing equipment .....	361	108.4	107.2	104.3	104.2	-	76.6	75.6	73.4	73.3	-
Transformers .....	3612	53.6	53.2	51.0	50.9	-	38.4	38.0	36.2	36.2	-
Switchgear and switchboard apparatus .....	3613	54.8	54.0	53.3	53.3	-	38.2	37.6	37.2	37.1	-
Electrical industrial apparatus .....	362	186.3	186.9	183.3	182.7	-	130.6	131.3	127.2	126.4	-
Motors and generators .....	3621	90.8	91.1	88.1	87.3	-	71.4	71.8	69.0	68.4	-
Industrial controls .....	3622	60.8	60.9	60.9	61.0	-	36.2	36.4	35.4	35.3	-
Household appliances .....	363	137.8	137.5	133.6	135.4	-	110.4	109.9	107.6	109.2	-
Household refrigerators and freezers .....	3632	29.2	28.7	25.8	27.3	-	23.7	23.4	21.4	23.1	-
Household laundry equipment .....	3633	22.3	21.5	23.1	23.1	-	18.1	17.2	18.9	18.7	-
Electric housewares and fans .....	3634	37.1	37.4	36.3	36.8	-	29.3	29.5	27.9	28.2	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Electrical and electronic equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	201.0	198.9	195.1	194.0	-	145.3	143.5	141.7	140.5	-
Electric lamps .....	3641	26.5	26.5	26.4	26.4	-	22.6	22.6	22.6	22.6	-
Current-carrying wiring devices .....	3643	78.2	78.0	75.4	75.1	-	51.0	50.8	49.2	48.7	-
Noncurrent-carrying wiring devices .....	3644	17.1	16.9	16.7	16.9	-	12.8	12.6	12.3	12.5	-
Residential lighting fixtures .....	3645	28.1	27.1	27.3	26.7	-	20.9	19.9	20.3	19.7	-
Radio and TV receiving equipment .....	365	92.4	92.2	93.6	93.5	-	65.6	64.8	65.9	66.0	-
Radio and TV receiving sets .....	3651	68.6	68.4	69.3	68.9	-	47.3	46.7	46.9	46.7	-
Communication equipment .....	366	543.6	541.6	514.6	511.3	-	220.6	219.3	207.8	205.9	-
Telephone and telegraph apparatus .....	3661	104.8	103.7	95.0	94.9	-	62.3	62.3	58.1	58.2	-
Radio and TV communication equipment .....	3662	438.8	437.9	419.6	416.4	-	158.3	157.0	149.7	147.7	-
Electronic components and accessories .....	367	621.6	619.9	603.7	598.4	-	346.1	344.5	338.1	336.1	-
Electronic tubes .....	3671-3	38.6	38.6	37.9	37.7	-	24.7	24.6	23.6	23.6	-
Semiconductors and related devices .....	3674	257.7	257.7	253.2	250.9	-	96.3	96.2	97.6	97.4	-
Electronic components, nec .....	3679	251.6	250.0	244.6	242.3	-	170.3	169.3	166.9	165.4	-
Misc. electrical equipment and supplies .....	369	156.7	155.4	153.7	154.0	-	110.6	109.1	107.4	108.1	-
Storage batteries .....	3691	27.9	26.4	28.3	28.5	-	21.0	19.7	21.8	21.9	-
Engine electrical equipment .....	3694	69.6	70.0	66.6	66.9	-	53.5	53.8	50.3	50.8	-
Transportation equipment .....	37	2,075.1	2,078.0	2,021.9	2,022.8	2,023.9	1,301.7	1,303.4	1,243.6	1,246.8	1,250.7
Motor vehicles and equipment .....	371	876.7	879.4	824.1	827.8	827.0	683.1	684.8	630.8	634.3	634.9
Motor vehicles and car bodies .....	3711	364.8	369.1	341.4	341.3	-	273.7	277.2	249.8	249.9	-
Truck and bus bodies .....	3713	43.9	44.5	43.0	43.1	-	34.2	34.4	33.8	33.8	-
Motor vehicle parts and accessories .....	3714	415.9	414.6	395.2	397.4	-	334.0	332.6	313.1	315.3	-
Truck trailers .....	3715	31.1	30.6	26.9	26.9	-	24.7	24.3	21.1	21.2	-
Aircraft and parts .....	372	697.9	700.0	706.5	705.1	-	340.3	341.8	340.6	339.9	-
Aircraft .....	3721	375.6	378.0	383.3	381.5	-	165.9	167.1	165.1	164.1	-
Aircraft engines and engine parts .....	3724	150.4	150.1	151.7	152.0	-	75.9	75.7	76.5	77.1	-
Aircraft equipment, nec .....	3728	171.9	171.9	171.5	171.6	-	98.5	99.0	99.0	98.7	-
Ship and boat building and repairing .....	373	191.5	191.1	184.8	184.7	-	143.6	143.1	138.3	139.1	-
Ship building and repairing .....	3731	120.1	120.8	122.2	122.0	-	83.7	84.4	87.1	87.4	-
Boat building and repairing .....	3732	71.4	70.3	62.6	62.7	-	59.9	58.7	51.2	51.7	-
Railroad equipment .....	374	38.3	38.7	39.5	39.7	-	28.6	28.8	29.2	29.4	-
Guided missiles, space vehicles, and parts .....	376	207.7	207.3	205.8	204.4	-	62.4	62.8	63.1	62.6	-
Guided missiles and space vehicles .....	3761	152.7	152.3	153.8	152.7	-	42.3	42.4	43.0	42.7	-
Miscellaneous transportation equipment .....	379	49.4	48.1	47.5	47.4	-	33.9	32.5	31.4	31.4	-
Travel trailers and campers .....	3792	20.5	19.4	20.1	20.2	-	16.3	15.1	15.6	15.6	-
Instruments and related products .....	38	775.7	776.6	773.9	772.2	772.7	427.6	429.7	426.4	427.1	429.3
Engineering and scientific instruments .....	381	99.6	99.3	100.9	100.7	-	46.1	46.3	48.6	48.6	-
Measuring and controlling devices .....	382	269.5	270.1	266.9	265.2	-	154.5	155.5	151.3	150.8	-
Environmental controls .....	3822	49.4	49.6	47.7	47.5	-	33.2	33.3	32.1	32.1	-
Process control instruments .....	3823	63.0	62.9	63.5	63.3	-	33.9	33.9	33.2	33.3	-
Instruments to measure electricity .....	3825	108.6	109.1	107.6	106.3	-	54.9	55.7	54.3	53.6	-
Optical instruments and lenses .....	383	30.7	30.5	29.8	29.5	-	16.2	16.3	15.3	15.3	-
Medical instruments and supplies .....	384	209.9	210.5	214.3	215.4	-	126.2	126.5	128.0	129.0	-
Surgical and medical instruments .....	3841	104.6	104.9	106.7	106.8	-	61.1	61.2	61.2	61.4	-
Surgical appliances and supplies .....	3842	90.4	90.6	92.8	93.8	-	56.8	56.9	58.2	59.0	-
Ophthalmic goods .....	385	39.1	39.3	40.9	40.8	-	26.6	26.9	28.1	28.4	-
Photographic equipment and supplies .....	386	115.5	115.6	110.1	109.9	-	49.4	49.7	46.9	46.9	-
Watches, clocks, and watchcases .....	387	11.4	11.3	11.0	10.7	-	8.6	8.5	8.2	8.1	-
Miscellaneous manufacturing .....	39	390.2	391.4	390.4	389.4	391.7	283.5	283.5	283.3	281.7	283.4
Jewelry, silverware, and plated ware .....	391	53.6	53.7	53.3	52.8	-	38.0	38.1	37.1	36.7	-
Jewelry, precious metal .....	3911	38.7	38.7	38.7	38.1	-	27.3	27.4	26.7	26.1	-
Musical instruments .....	393	13.4	13.4	12.6	12.7	-	11.0	11.0	10.3	10.4	-
Toys and sporting goods .....	394	105.6	105.2	105.6	105.6	-	77.7	77.0	76.8	76.6	-
Dolls, games, toys, and children's vehicles .....	3942.4	44.6	44.7	44.1	44.0	-	31.3	31.3	30.8	30.6	-
Sporting and athletic goods, nec .....	3949	61.0	60.5	61.5	61.6	-	46.4	45.7	46.0	46.0	-
Pens, pencils, office, and art supplies .....	395	34.3	34.7	33.6	33.6	-	23.8	24.0	23.7	23.6	-
Costume jewelry and notions .....	396	41.0	42.2	44.5	45.0	-	32.0	33.0	34.9	35.0	-
Costume jewelry .....	3961	22.2	23.0	26.0	25.3	-	17.1	17.7	20.7	19.8	-
Miscellaneous manufactures .....	399	142.3	142.2	140.8	139.7	-	101.0	100.4	100.5	99.4	-
Signs and advertising displays .....	3993	62.4	61.9	62.7	61.9	-	43.1	42.3	43.7	43.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>
<b>Nondurable goods</b> .....		8,007	8,032	7,975	7,984	7,984	5,635	5,652	5,579	5,589	5,589
Food and kindred products .....	20	1,600.4	1,616.4	1,612.5	1,616.8	1,624.5	1,133.1	1,145.1	1,145.4	1,150.5	1,155.6
Meat products .....	201	409.7	413.8	422.6	421.8	-	347.4	350.7	358.7	358.3	-
Meat packing plants .....	2011	142.2	143.1	144.3	144.2	-	118.8	119.6	121.0	121.2	-
Sausages and other prepared meats .....	2013	82.0	82.8	82.1	82.2	-	60.3	60.8	60.6	60.7	-
Poultry dressing plants .....	2016	162.4	164.7	171.8	171.5	-	147.8	149.6	155.2	155.0	-
Dairy products .....	202	156.1	158.0	153.2	153.4	-	95.6	97.2	93.8	94.3	-
Cheese, natural and processed .....	2022	41.5	42.1	41.4	41.3	-	31.6	32.1	31.6	31.7	-
Fluid milk .....	2026	74.5	74.6	73.6	73.2	-	37.5	37.6	36.5	36.5	-
Preserved fruits and vegetables .....	203	227.5	231.7	227.3	229.6	-	183.3	186.6	185.1	187.2	-
Canned specialties .....	2032	23.3	23.1	23.1	23.0	-	16.6	16.5	17.2	17.4	-
Canned fruits and vegetables .....	2033	70.7	72.7	67.0	67.9	-	57.4	59.4	55.1	55.9	-
Frozen fruits and vegetables .....	2037	44.6	45.8	48.8	50.4	-	38.5	39.4	42.3	43.6	-
Grain mill products .....	204	124.7	124.7	130.2	130.8	-	86.7	87.0	90.3	90.7	-
Flour and other grain mill products .....	2041	22.0	22.0	24.3	24.5	-	15.1	15.0	16.0	16.1	-
Prepared feeds, nec .....	2048	42.2	42.0	43.2	42.8	-	26.7	26.6	27.6	27.2	-
Bakery products .....	205	198.1	200.4	199.6	200.2	-	120.7	122.5	122.5	123.6	-
Bread, cake, and related products .....	2051	153.6	156.2	154.7	154.6	-	87.0	89.2	87.9	88.2	-
Cookies and crackers .....	2052	44.5	44.2	44.9	45.6	-	33.7	33.3	34.6	35.4	-
Sugar and confectionery products .....	206	91.4	91.7	97.4	95.4	-	70.4	70.1	75.0	72.9	-
Cane and beet sugar .....	2061-3	17.5	17.1	17.4	17.0	-	13.2	12.9	13.3	12.9	-
Confectionery products .....	2065	53.2	53.4	58.5	56.8	-	43.5	43.1	47.5	45.7	-
Fats and oils .....	207	32.2	31.8	31.2	31.1	-	23.7	23.1	22.6	22.7	-
Beverages .....	208	196.9	199.1	190.3	191.1	-	83.4	84.8	78.9	79.6	-
Malt beverages .....	2082	40.8	41.0	40.1	40.6	-	24.7	24.9	24.0	24.5	-
Bottled and canned soft drinks .....	2086	111.7	113.0	109.2	109.7	-	36.9	37.5	35.2	35.9	-
Misc. food and kindred products .....	209	163.8	165.2	160.7	163.4	-	121.9	123.1	118.5	121.2	-
Tobacco manufactures .....	21	51.4	49.2	49.0	46.1	46.2	37.4	35.2	36.1	33.6	33.4
Cigarettes .....	211	39.9	38.5	36.3	36.1	-	29.3	27.8	27.1	27.1	-
Textile mill products .....	22	727.7	728.5	709.9	710.1	705.5	629.7	630.3	609.9	610.7	606.5
Weaving mills, cotton .....	221	96.4	96.2	93.3	92.3	-	86.6	86.3	83.9	83.2	-
Weaving mills, synthetics .....	222	91.0	90.3	88.2	88.6	-	80.8	80.2	77.6	78.1	-
Weaving and finishing mills, wool .....	223	19.6	19.7	17.9	17.9	-	15.9	16.0	14.2	14.3	-
Narrow fabric mills .....	224	24.5	24.5	24.0	24.1	-	20.9	21.0	20.1	20.2	-
Knitting mills .....	225	211.3	212.2	205.4	205.1	-	186.6	187.3	179.2	178.9	-
Women's hosiery, except socks .....	2251	33.7	33.5	32.8	32.9	-	30.4	30.2	29.2	29.4	-
Hosiery, nec .....	2252	36.9	37.0	37.1	36.8	-	33.5	33.6	33.4	33.1	-
Knit outerwear mills .....	2253	70.0	70.8	66.9	66.8	-	62.4	63.2	58.6	58.5	-
Knit underwear mills .....	2254	25.4	25.1	23.7	23.5	-	21.6	21.1	20.2	19.9	-
Circular knit fabric mills .....	2257	26.6	27.0	27.1	27.0	-	23.2	23.6	23.4	23.3	-
Textile finishing, except wool .....	226	61.5	61.5	61.7	61.6	-	50.7	50.7	50.1	50.1	-
Finishing plants, cotton .....	2261	25.7	25.6	26.7	26.7	-	21.1	21.0	21.4	21.4	-
Finishing plants, synthetics .....	2262	21.7	21.8	21.4	21.4	-	17.6	17.6	17.1	17.2	-
Floor covering mills .....	227	61.4	61.6	64.2	64.6	-	50.0	50.1	52.6	53.2	-
Yarn and thread mills .....	228	106.1	106.4	100.5	101.2	-	94.9	95.3	90.0	90.6	-
Yarn mills, except wool .....	2281	79.9	80.0	75.7	76.1	-	72.1	72.1	68.0	68.5	-
Throwing and winding mills .....	2282	14.4	14.6	13.7	13.6	-	12.7	13.0	12.2	12.0	-
Miscellaneous textile goods .....	229	55.9	56.1	54.7	54.7	-	43.3	43.4	42.2	42.1	-
Apparel and other textile products .....	23	1,100.3	1,099.5	1,057.4	1,058.8	1,054.2	929.6	928.5	888.2	889.2	886.3
Men's and boys' suits and coats .....	231	57.1	57.6	51.0	50.7	-	48.9	49.5	43.2	42.8	-
Men's and boys' furnishings .....	232	300.9	301.2	286.5	291.3	-	260.7	260.5	246.2	251.4	-
Men's and boys' shirts and nightwear .....	2321	75.0	75.1	69.7	72.6	-	64.4	64.3	59.3	62.3	-
Men's and boys' separate trousers .....	2327	50.3	50.0	45.6	45.1	-	43.6	43.2	39.1	38.9	-
Men's and boys' work clothing .....	2328	91.4	92.2	87.8	90.4	-	80.2	80.9	76.3	78.9	-
Women's and misses' outerwear .....	233	342.0	339.2	322.5	319.2	-	287.0	284.1	268.7	265.9	-
Women's and misses' blouses and waists .....	2331	43.0	42.6	39.6	38.7	-	35.6	35.2	32.4	31.6	-
Women's and misses' dresses .....	2335	77.0	75.6	73.8	71.4	-	64.2	62.9	61.0	58.7	-
Women's and misses' suits and coats .....	2337	37.8	38.6	34.2	36.5	-	31.5	32.2	27.7	29.9	-
Women's and misses' outerwear, nec .....	2339	184.2	182.4	174.9	172.6	-	155.7	153.8	147.6	145.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	70.8	70.4	65.8	65.3	-	58.8	58.3	54.5	54.0	-
Women's and children's underwear .....	2341	56.9	56.4	52.6	52.1	-	49.0	48.5	45.5	45.1	-
Brassieres and allied garments .....	2342	13.9	14.0	13.2	13.2	-	9.8	9.8	9.0	8.9	-
Children's outerwear .....	236	56.5	56.8	56.3	55.4	-	47.3	47.8	47.5	46.8	-
Children's dresses and blouses .....	2361	22.2	22.5	21.5	21.0	-	19.3	19.6	18.7	18.3	-
Misc. apparel and accessories .....	238	44.2	44.5	42.8	43.6	-	36.5	36.9	35.3	35.9	-
Misc. fabricated textile products .....	239	210.1	210.7	212.8	213.6	-	175.2	175.8	176.6	176.0	-
Curtains and draperies .....	2391	25.8	26.3	26.0	25.7	-	21.5	21.9	21.5	21.3	-
House furnishings, nec .....	2392	55.8	55.6	57.2	57.4	-	46.9	46.8	47.9	47.4	-
Automotive and apparel trimmings .....	2396	44.8	44.6	46.0	46.8	-	38.2	37.9	38.7	38.7	-
Paper and allied products .....	26	692.1	694.6	693.9	694.0	694.6	520.4	523.1	522.6	523.8	524.4
Paper and pulp mills .....	261,2,6	191.9	193.3	193.9	194.1	-	145.5	147.0	146.8	147.6	-
Paper mills, except building paper .....	262	171.8	173.0	173.7	173.9	-	129.6	131.0	130.7	131.5	-
Paperboard mills .....	263	52.4	52.6	52.1	52.0	-	40.1	40.3	39.7	39.7	-
Misc. converted paper products .....	264	238.3	238.5	238.8	238.4	-	172.9	173.2	174.6	174.5	-
Paper coating and glazing .....	2641	60.1	59.8	59.4	59.3	-	34.7	34.4	34.8	34.8	-
Envelopes .....	2642	26.8	26.8	26.5	26.5	-	20.8	20.8	20.5	20.4	-
Bags, except textile bags .....	2643	52.9	52.8	53.4	53.2	-	41.4	41.2	41.7	41.5	-
Paperboard containers and boxes .....	265	209.5	210.2	209.1	209.5	-	161.9	162.6	161.5	162.0	-
Folding paperboard boxes .....	2651	46.4	46.7	46.5	46.0	-	36.9	37.3	37.1	36.8	-
Corrugated and solid fiber boxes .....	2653	113.6	113.7	114.3	114.4	-	85.3	85.3	85.7	85.7	-
Sanitary food containers .....	2654	22.3	22.6	21.9	22.4	-	18.7	19.0	18.4	18.8	-
Printing and publishing .....	27	1,602.2	1,601.8	1,627.5	1,628.5	1,625.7	893.0	892.0	905.8	906.2	903.3
Newspapers .....	271	474.8	475.4	480.9	480.5	-	168.0	167.9	167.5	166.8	-
Periodicals .....	272	134.5	134.6	139.1	139.2	-	47.4	47.9	51.0	50.8	-
Books .....	273	123.5	123.0	123.9	124.1	-	66.2	65.6	67.3	67.4	-
Book publishing .....	2731	91.3	91.1	91.7	92.1	-	40.6	40.2	40.9	41.2	-
Book printing .....	2732	32.2	31.9	32.2	32.0	-	25.6	25.4	26.4	26.2	-
Miscellaneous publishing .....	274	82.9	82.3	84.0	84.0	-	42.7	42.1	43.1	43.3	-
Commercial printing .....	275	572.3	571.8	581.8	583.6	-	416.0	415.6	422.1	423.9	-
Commercial printing, letterpress .....	2751	176.0	176.6	179.2	179.7	-	127.0	127.1	128.4	128.8	-
Commercial printing, lithographic .....	2752	367.9	367.1	374.7	376.0	-	266.2	265.9	271.6	273.0	-
Manifold business forms .....	276	49.2	49.1	48.2	48.0	-	33.5	33.3	33.4	33.3	-
Blankbooks and bookbinding .....	278	80.3	80.7	82.0	81.6	-	62.3	62.8	63.1	62.7	-
Printing trade services .....	279	60.5	60.5	61.3	61.0	-	44.5	44.3	45.1	44.7	-
Chemicals and allied products .....	28	1,086.4	1,092.2	1,102.8	1,102.4	1,104.2	608.1	612.5	612.8	612.4	614.6
Industrial inorganic chemicals .....	281	133.9	134.5	136.7	137.3	-	68.3	68.9	69.7	69.6	-
Industrial inorganic chemicals, nec .....	2819	90.4	90.5	92.1	92.6	-	48.0	48.1	48.5	48.9	-
Plastics materials and synthetics .....	282	184.0	186.3	189.0	189.1	-	120.4	122.2	122.7	123.3	-
Plastics materials and resins .....	2821	86.0	86.5	87.7	88.0	-	50.9	51.3	51.7	52.2	-
Organic fibers, noncellulosic .....	2824	68.8	70.4	71.0	71.0	-	48.7	50.1	49.9	50.1	-
Drugs .....	283	239.5	240.1	247.9	246.5	-	104.0	104.2	110.2	110.3	-
Pharmaceutical preparations .....	2834	197.3	197.8	204.5	202.6	-	85.0	85.5	91.9	91.6	-
Soap, cleaners, and toilet goods .....	284	161.4	162.4	158.8	158.6	-	102.2	103.2	98.2	97.6	-
Soap and other detergents .....	2841	43.4	43.6	43.4	43.2	-	27.1	27.3	27.7	27.5	-
Polishing, sanitation, and finishing preparations .....	2842,3	46.3	46.3	47.3	47.2	-	26.4	26.5	25.8	25.6	-
Toilet preparations .....	2844	71.7	72.5	68.1	68.2	-	48.7	49.4	44.7	44.5	-
Paints and allied products .....	285	62.9	63.3	62.9	63.0	-	31.6	31.8	31.8	31.7	-
Industrial organic chemicals .....	286	149.2	149.5	152.2	152.2	-	87.0	87.5	86.3	85.4	-
Cyclic crudes and intermediates .....	2865	30.6	30.6	31.5	31.5	-	18.9	18.9	19.0	18.9	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	118.6	118.9	120.7	120.7	-	68.1	68.6	67.3	66.5	-
Agricultural chemicals .....	287	54.3	54.8	54.3	54.9	-	34.5	34.6	33.8	34.3	-
Miscellaneous chemical products .....	289	101.2	101.3	101.0	100.8	-	60.1	60.1	60.1	60.2	-
Petroleum and coal products .....	29	160.6	162.9	161.8	163.9	166.3	104.2	106.5	105.3	107.6	110.3
Petroleum refining .....	291	121.6	121.9	123.7	123.8	-	77.2	77.5	79.3	79.7	-
Paving and roofing materials .....	295	26.2	28.1	24.9	26.9	-	19.9	21.7	18.6	20.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>o</sup>	May 1990 <sup>o</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>o</sup>	May 1990 <sup>o</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	844.5	844.3	825.7	829.6	828.4	661.6	661.0	640.8	643.2	643.9
Tires and inner tubes .....	301	84.8	85.3	83.1	85.9	-	63.9	64.2	61.0	63.1	-
Rubber and plastics footwear .....	302	11.0	10.9	11.0	10.9	-	9.0	8.9	9.0	8.8	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	27.8	27.7	27.1	26.8	-	20.7	20.9	20.2	20.0	-
Fabricated rubber products, nec .....	306	101.1	100.7	95.3	95.1	-	77.9	77.7	72.0	71.9	-
Miscellaneous plastics products .....	307	619.8	619.7	609.2	610.9	-	490.1	489.3	478.6	479.4	-
Leather and leather products .....	31	141.8	142.2	134.7	134.2	134.2	117.5	117.9	111.6	111.4	110.8
Leather tanning and finishing .....	311	14.3	14.4	14.6	14.6	-	12.0	12.1	12.2	12.2	-
Footwear, except rubber .....	314	80.9	80.6	75.4	75.1	-	69.0	68.8	64.2	64.0	-
Men's footwear, except athletic .....	3143	35.8	35.5	33.0	32.8	-	29.0	28.9	26.9	26.8	-
Women's footwear, except athletic .....	3144	27.8	27.8	26.4	26.3	-	24.6	24.6	23.3	23.3	-
Luggage .....	316	11.7	11.8	11.7	11.5	-	8.4	8.5	8.5	8.3	-
Handbags and personal leather goods .....	317	15.7	16.1	14.0	14.1	-	12.1	12.5	11.1	11.2	-
<b>Transportation and public utilities .....</b>		<b>5,649</b>	<b>5,699</b>	<b>5,816</b>	<b>5,840</b>	<b>5,881</b>	<b>4,707</b>	<b>4,752</b>	<b>4,857</b>	<b>4,874</b>	<b>4,917</b>
Transportation .....		3,443	3,487	3,612	3,632	3,669	-	-	-	-	-
Railroad transportation .....	40	297.0	299.1	283.5	286.1	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	253.7	255.6	240.0	242.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	341.8	344.0	350.2	345.9	-	314.6	316.4	319.4	314.9	-
Local and suburban transportation .....	411	128.2	129.5	137.4	137.7	-	116.7	118.0	123.3	123.6	-
Taxicabs .....	412	35.9	34.8	35.2	34.9	-	-	-	-	-	-
Intercity highway transportation .....	413	29.5	29.6	20.6	19.3	-	26.4	26.5	17.1	16.2	-
School buses .....	415	116.8	117.8	125.1	121.8	-	-	-	-	-	-
Trucking and warehousing .....	42	1,616.8	1,637.1	1,666.1	1,677.2	-	1,410.9	1,427.8	1,449.6	1,460.4	-
Trucking and trucking terminals .....	421,3	1,498.9	1,519.9	1,543.9	1,555.4	-	1,312.2	1,329.8	1,347.8	1,359.1	-
Public warehousing .....	422	117.9	117.2	122.2	121.8	-	98.7	98.0	101.8	101.3	-
Water transportation .....	44	173.5	181.3	166.1	167.1	-	-	-	-	-	-
Local water transportation .....	445	28.6	30.1	29.1	30.2	-	-	-	-	-	-
Water transportation services .....	446	95.3	101.1	87.6	88.2	-	-	-	-	-	-
Transportation by air .....	45	658.0	668.0	766.2	774.0	-	-	-	-	-	-
Air transportation .....	451,2	563.5	573.0	660.9	668.3	-	-	-	-	-	-
Air transportation services .....	458	94.5	95.0	105.3	105.7	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	18.2	18.4	19.3	19.3	-	12.9	13.0	14.0	14.0	-
Transportation services .....	47	337.3	339.3	360.8	361.9	-	-	-	-	-	-
Freight forwarding .....	471	75.1	75.0	79.0	77.6	-	-	-	-	-	-
Communication and public utilities .....		2,206	2,212	2,204	2,208	2,212	-	-	-	-	-
Communication .....	48	1,276.0	1,279.3	1,264.2	1,265.7	-	971.2	974.1	970.1	968.6	-
Telephone communication .....	481	882.4	884.0	857.8	859.4	-	652.3	654.1	642.2	640.9	-
Radio and television broadcasting .....	483	243.1	244.5	248.0	247.3	-	201.0	202.1	204.7	204.1	-
Radio broadcasting .....	4832	120.8	121.8	123.2	122.8	-	-	-	-	-	-
Television broadcasting .....	4833	122.3	122.7	124.8	124.5	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	929.7	933.0	939.9	942.2	-	733.8	736.5	742.4	744.0	-
Electric services .....	491	448.6	449.5	447.5	447.7	-	342.9	343.9	344.8	345.2	-
Gas production and distribution .....	492	164.9	166.0	168.4	168.5	-	129.5	130.5	131.3	131.3	-
Combination utility services .....	493	192.8	193.1	192.3	192.7	-	157.1	156.7	155.3	155.2	-
Sanitary services .....	495	94.1	94.8	102.1	103.6	-	81.6	82.3	88.0	89.3	-
<b>Wholesale trade .....</b>		<b>6,186</b>	<b>6,217</b>	<b>6,301</b>	<b>6,320</b>	<b>6,351</b>	<b>4,976</b>	<b>5,007</b>	<b>5,054</b>	<b>5,074</b>	<b>5,102</b>
Durable goods .....	50	3,669	3,685	3,747	3,748	3,759	2,931	2,945	2,985	2,986	-
Motor vehicles and automotive equipment .....	501	436.9	437.6	433.5	434.0	-	353.2	354.0	349.5	350.0	-
Automobiles and other motor vehicles .....	5012	124.2	123.4	122.6	123.0	-	-	-	-	-	-
Automotive parts and supplies .....	5013	282.2	283.7	280.4	280.2	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Wholesale trade—Continued</b>											
<b>Durable goods—Continued</b>											
Furniture and home furnishings .....	502	155.8	154.9	154.6	153.9	-	125.8	125.2	124.2	124.0	-
Furniture .....	5021	72.7	72.3	70.4	70.0	-	-	-	-	-	-
Home furnishings .....	5023	83.1	82.6	84.2	83.9	-	-	-	-	-	-
Lumber and construction materials .....	503	232.1	235.7	240.7	243.1	-	189.5	193.5	196.3	198.6	-
Lumber, plywood, and millwork .....	5031	120.9	122.0	126.2	127.0	-	-	-	-	-	-
Construction materials, nec .....	5039	111.2	113.7	114.5	116.1	-	-	-	-	-	-
Sporting goods, toys, and hobby goods .....	504	95.2	97.7	97.1	97.4	-	75.9	78.1	77.2	77.3	-
Metals and minerals, except petroleum .....	505	145.7	146.6	143.4	143.9	-	115.4	116.1	113.7	114.3	-
Electrical goods .....	506	520.6	521.8	548.5	547.1	-	398.6	398.3	416.4	415.7	-
Electrical apparatus and equipment .....	5063	272.4	273.1	290.0	289.9	-	-	-	-	-	-
Electrical appliances, TV and radios .....	5064	69.0	68.4	70.6	69.4	-	-	-	-	-	-
Electronic parts and equipment .....	5065	179.2	180.3	187.9	187.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	283.4	284.5	280.5	280.8	-	229.7	230.3	225.7	226.1	-
Hardware .....	5072	97.9	98.1	94.8	95.0	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	117.7	117.9	116.7	116.2	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	1,563.6	1,569.8	1,610.2	1,608.8	-	1,253.0	1,259.2	1,290.4	1,287.7	-
Commercial machines and equipment .....	5081	557.8	556.8	566.6	560.1	-	-	-	-	-	-
Construction and mining machinery .....	5082	85.0	85.5	87.8	89.0	-	-	-	-	-	-
Farm machinery and equipment .....	5083	123.0	124.8	126.5	129.2	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	344.9	347.3	359.2	360.3	-	-	-	-	-	-
Industrial supplies .....	5085	144.7	145.9	151.9	151.4	-	-	-	-	-	-
Professional equipment and supplies .....	5086	179.4	179.7	182.9	183.0	-	-	-	-	-	-
Miscellaneous durable goods .....	509	235.3	236.6	238.8	239.1	-	190.1	190.7	192.0	192.0	-
Scrap and waste materials .....	5093	111.0	112.1	112.6	112.9	-	-	-	-	-	-
Nondurable goods .....	51	2,517	2,532	2,554	2,572	2,592	2,045	2,062	2,069	2,088	-
Paper and paper products .....	511	225.7	226.2	231.7	231.1	-	182.0	182.4	184.1	183.8	-
Drugs, proprietaries, and sundries .....	512	186.8	186.6	191.2	190.7	-	157.0	156.5	159.3	159.3	-
Apparel, piece goods, and notions .....	513	197.1	198.3	204.7	204.3	-	152.1	153.1	159.5	158.5	-
Groceries and related products .....	514	827.4	835.4	835.1	842.5	-	694.7	704.4	697.8	705.1	-
Groceries, general line .....	5141	270.0	271.8	277.6	278.0	-	-	-	-	-	-
Meats and meat products .....	5147	66.7	66.8	66.1	66.1	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	100.4	103.6	98.1	103.8	-	-	-	-	-	-
Chemicals and allied products .....	516	130.1	131.1	130.6	129.7	-	93.6	94.7	95.2	94.9	-
Petroleum and petroleum products .....	517	207.2	208.2	206.4	206.8	-	162.5	162.8	163.6	164.5	-
Petroleum bulk stations and terminals .....	5171	87.0	87.5	87.7	87.7	-	-	-	-	-	-
Petroleum products, nec .....	5172	120.2	120.7	118.7	119.1	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	151.4	152.7	154.8	156.3	-	123.6	125.1	126.1	128.0	-
Beer and ale .....	5181	95.9	97.3	98.1	99.3	-	-	-	-	-	-
Wines and distilled beverages .....	5182	55.5	55.4	56.7	57.0	-	-	-	-	-	-
Miscellaneous nondurable goods .....	519	470.2	474.3	484.1	494.2	-	381.7	385.8	390.4	399.8	-
Farm supplies .....	5191	163.9	166.5	164.4	173.6	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>19,275</b>	<b>19,528</b>	<b>19,370</b>	<b>19,589</b>	<b>19,803</b>	<b>17,028</b>	<b>17,280</b>	<b>17,094</b>	<b>17,301</b>	<b>17,488</b>
Building materials and garden supplies .....	52	774.2	789.5	760.5	783.8	-	640.6	656.3	627.6	649.0	-
Lumber and other building materials .....	521	423.5	431.7	417.5	426.2	-	356.0	364.4	349.4	358.2	-
Hardware stores .....	525	165.8	168.7	170.4	173.1	-	137.3	139.8	140.1	142.3	-
General merchandise stores .....	53	2,404.9	2,416.3	2,363.4	2,363.3	2,364.6	2,209.5	2,231.1	2,193.6	2,193.1	-
Department stores .....	531	1,987.3	1,994.8	1,964.2	1,963.0	-	1,834.5	1,852.5	1,835.5	1,834.2	-
Variety stores .....	533	233.6	234.9	221.9	222.2	-	214.2	215.3	203.7	204.0	-
Misc. general merchandise stores .....	539	184.0	186.6	177.3	178.1	-	160.8	163.3	154.4	154.9	-
Food stores .....	54	3,197.0	3,228.5	3,323.0	3,336.8	3,359.2	2,940.8	2,971.2	3,050.4	3,064.5	-
Grocery stores .....	541	2,829.4	2,851.7	2,941.3	2,946.1	-	2,616.7	2,639.5	2,715.3	2,720.6	-
Meat markets and freezer provisioners .....	542	55.7	57.5	57.8	59.0	-	-	-	-	-	-
Dairy products stores .....	545	30.5	32.3	27.9	29.8	-	-	-	-	-	-
Retail bakeries .....	546	175.3	175.7	179.6	179.2	-	157.9	158.1	160.1	159.9	-
Automotive dealers and service stations .....	55	2,148.4	2,162.9	2,152.0	2,162.8	2,174.6	1,796.3	1,809.1	1,787.4	1,799.2	-
New and used car dealers .....	551,2	1,046.5	1,045.4	1,030.7	1,030.4	-	868.5	868.4	851.0	851.9	-
Auto and home supply stores .....	553	347.9	353.1	362.0	368.3	-	279.8	283.2	288.9	294.7	-
Gasoline service stations .....	554	637.6	643.3	638.1	637.8	-	554.5	559.7	551.3	551.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>b</sup>	May 1990 <sup>b</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>b</sup>	May 1990 <sup>b</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,164.4	1,170.6	1,137.1	1,140.4	-	978.7	981.4	950.6	953.8	-
Men's and boys' clothing and furnishings .....	561	105.7	105.8	101.4	100.3	-	85.2	85.1	80.8	79.9	-
Women's ready-to-wear stores .....	562	412.8	416.5	395.5	395.0	-	345.6	348.4	328.0	327.4	-
Family clothing stores .....	565	269.3	270.7	262.6	262.9	-	232.1	233.3	225.3	225.7	-
Shoe stores .....	566	227.0	229.3	229.1	231.9	-	188.9	189.3	190.7	194.0	-
Furniture and home furnishings stores .....	57	802.2	802.6	808.0	803.8	-	656.5	656.9	662.7	657.9	-
Furniture and home furnishings stores .....	571	469.8	470.2	473.1	470.8	-	382.5	383.0	385.7	382.8	-
Furniture stores .....	5712	290.2	290.1	291.5	290.8	-	-	-	-	-	-
Household appliance stores .....	572	77.8	77.3	72.2	70.6	-	64.7	64.4	59.6	58.0	-
Radio, television, and music stores .....	573	254.6	255.1	262.7	262.4	-	209.3	209.5	217.4	217.1	-
Radio and television stores .....	5732	177.8	177.2	182.6	182.1	-	-	-	-	-	-
Music stores .....	5733	76.8	77.9	80.1	80.3	-	-	-	-	-	-
Eating and drinking places .....	58	6,316.0	6,462.2	6,311.5	6,474.8	6,619.9	5,739.9	5,880.6	5,719.3	5,874.0	-
Miscellaneous retail .....	59	2,468.2	2,495.5	2,514.4	2,523.7	-	2,065.6	2,093.1	2,102.1	2,109.0	-
Drug stores and proprietary stores .....	591	599.5	602.5	618.2	615.7	-	508.0	510.8	519.8	516.4	-
Liquor stores .....	592	123.1	124.0	123.9	124.5	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	869.8	873.1	888.1	885.8	-	722.4	725.9	736.0	733.9	-
Sporting goods and bicycle shops .....	5941	158.6	158.6	166.4	163.8	-	-	-	-	-	-
Book stores .....	5942	91.6	90.5	96.0	94.5	-	-	-	-	-	-
Stationery stores .....	5943	85.0	85.1	86.7	85.9	-	-	-	-	-	-
Jewelry stores .....	5944	159.0	160.4	160.1	159.5	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	181.1	186.4	180.2	184.4	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	65.4	64.2	65.7	65.6	-	-	-	-	-	-
Nonstore retailers .....	596	265.4	261.0	249.7	248.5	-	234.5	230.7	219.9	217.6	-
Mail order houses .....	5961	130.5	127.7	120.7	120.1	-	-	-	-	-	-
Merchandising machine operators .....	5962	86.0	85.7	84.1	84.1	-	-	-	-	-	-
Fuel and ice dealers .....	598	117.0	115.5	122.4	119.2	-	97.6	95.9	102.4	99.3	-
Retail stores, nec .....	599	409.5	435.3	419.9	436.2	-	334.7	360.4	346.8	363.2	-
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		6,749	6,790	6,872	6,889	6,923	4,877	4,913	4,989	4,999	5,032
Finance .....		3,302	3,313	3,354	3,352	3,356	-	-	-	-	-
Banking .....	60	1,752.9	1,762.2	1,794.8	1,795.1	-	1,244.8	1,251.9	1,277.6	1,277.6	-
Commercial and stock savings banks .....	602	1,557.4	1,563.8	1,575.1	1,573.9	-	1,102.8	1,108.0	1,119.6	1,118.7	-
State banks, Federal Reserve .....	6022	313.4	314.2	315.2	316.0	-	-	-	-	-	-
State banks, not Federal Reserve .....	6023,4	363.8	365.2	368.9	368.9	-	-	-	-	-	-
Mutual savings banks .....	603	80.4	80.1	79.1	78.7	-	-	-	-	-	-
Credit agencies other than banks .....	61	902.9	904.4	908.2	905.2	-	673.9	675.4	685.6	682.3	-
Savings and loan associations .....	612	402.3	402.7	393.7	391.9	-	304.2	305.0	299.6	297.8	-
Federal savings and loan associations .....	6122	232.7	233.0	228.2	227.3	-	-	-	-	-	-
State associations, insured .....	6123	164.4	164.5	160.5	159.6	-	-	-	-	-	-
Personal credit institutions .....	614	264.4	265.3	272.0	271.6	-	205.7	206.0	210.9	210.4	-
Business credit institutions .....	615	65.3	65.9	71.1	71.3	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	148.5	148.4	150.1	149.2	-	-	-	-	-	-
Security, commodity brokers, and services .....	62	436.5	436.2	430.4	429.8	-	-	-	-	-	-
Security brokers and dealers .....	621	339.1	338.4	326.1	324.5	-	-	-	-	-	-
Holding and other investment offices .....	67	209.7	209.8	220.8	221.7	-	-	-	-	-	-
Insurance .....		2,117	2,123	2,160	2,159	2,165	-	-	-	-	-
Insurance carriers .....	63	1,459.7	1,463.9	1,495.2	1,493.3	-	969.0	971.2	1,001.8	995.5	-
Life insurance .....	631	575.4	575.8	580.7	576.7	-	344.1	344.0	356.6	349.5	-
Medical service and health insurance .....	632	231.0	232.1	245.0	246.0	-	186.8	187.8	197.2	196.8	-
Fire, marine, and casualty insurance .....	633	543.3	545.0	552.1	553.4	-	354.6	354.8	357.3	358.4	-
Title insurance .....	636	57.9	58.4	63.6	63.5	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	657.1	659.3	664.8	665.9	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,330	1,354	1,358	1,378	1,402	-	-	-	-	-
Real estate .....	65	1,320.9	1,345.2	1,349.4	1,368.7	-	-	-	-	-	
Real estate operators and lessors .....	651	575.5	581.7	594.4	606.4	-	-	-	-	-	
Real estate agents and managers .....	653	540.2	547.7	548.9	550.3	-	-	-	-	-	
Subdividers and developers .....	655	173.4	183.8	172.0	177.6	-	-	-	-	-	
Combined real estate, insurance, etc .....	66	9.0	9.0	8.9	8.8	-	-	-	-	-	
<b>Services .....</b>		<b>26,704</b>	<b>26,818</b>	<b>27,672</b>	<b>27,817</b>	<b>27,909</b>	<b>23,330</b>	<b>23,416</b>	<b>24,117</b>	<b>24,245</b>	<b>24,313</b>
Hotels and other lodging places .....	70	1,569.9	1,598.4	1,565.1	1,581.4	-	-	-	-	-	
Hotels, motels, and tourist courts .....	701	1,525.7	1,551.2	1,517.1	1,529.9	-	1,353.8	1,379.5	1,343.4	1,358.2	
Personal services .....	72	1,234.7	1,179.8	1,283.3	1,284.5	-	-	-	-	-	
Laundry, cleaning, and garment services .....	721	410.6	412.4	411.8	413.2	-	364.8	366.4	365.4	366.5	
Photographic studios, portrait .....	722	56.8	56.7	59.8	59.1	-	-	-	-	-	
Beauty shops .....	723	368.2	367.9	374.2	373.8	-	327.9	328.2	333.8	333.3	
Funeral service and crematories .....	726	81.4	81.2	84.0	84.1	-	-	-	-	-	
Business services .....	73	5,719.5	5,758.5	5,837.1	5,841.6	5,886.5	4,874.5	4,906.1	4,951.9	4,955.8	
Advertising .....	731	253.4	255.1	260.4	259.9	-	187.0	188.1	188.5	187.0	
Advertising agencies .....	7311	184.0	184.7	187.2	186.8	-	-	-	-	-	
Credit reporting and collection .....	732	93.9	95.6	96.7	96.8	-	-	-	-	-	
Mailing, reproduction, and stenographic .....	733	238.2	238.1	266.1	267.7	-	-	-	-	-	
Services to buildings .....	734	806.1	812.4	803.1	803.3	-	730.0	735.8	725.5	726.1	
Personnel supply services .....	736	1,338.0	1,350.5	1,312.8	1,310.0	-	-	-	-	-	
Employment agencies .....	7361	218.5	218.5	213.3	210.8	-	-	-	-	-	
Temporary help supply services .....	7362	1,016.3	1,029.0	996.0	996.3	-	-	-	-	-	
Computer and data processing services .....	737	751.4	749.1	810.3	811.9	-	584.0	580.5	629.1	630.1	
Computer programming and software .....	7372	342.8	345.8	379.8	379.9	-	-	-	-	-	
Data processing services .....	7374	283.7	278.7	299.6	299.7	-	-	-	-	-	
Miscellaneous business services .....	739	2,225.6	2,244.3	2,273.9	2,278.0	-	-	-	-	-	
Research development laboratories, nec .....	7391	217.1	217.6	219.6	220.4	-	-	-	-	-	
Management and public relations .....	7392	550.6	553.1	561.5	558.7	-	-	-	-	-	
Detective and protective services .....	7393	469.4	472.3	476.1	476.8	-	-	-	-	-	
Equipment rental and leasing .....	7394	270.8	275.9	277.9	280.7	-	-	-	-	-	
Photofinishing laboratories .....	7395	79.4	80.6	78.2	78.9	-	-	-	-	-	
Auto repair, services, and garages .....	75	891.8	895.5	934.5	933.5	-	734.3	736.6	769.8	767.8	
Automotive rentals, without drivers .....	751	179.7	182.4	197.9	198.1	-	-	-	-	-	
Automotive repair shops .....	753	515.6	519.0	538.2	538.6	-	421.5	425.0	439.6	439.7	
Miscellaneous repair services .....	76	355.6	357.2	367.8	368.5	-	288.4	291.0	301.4	302.3	
Electrical repair shops .....	762	117.9	119.9	130.9	131.2	-	-	-	-	-	
Motion pictures .....	78	262.4	266.2	272.3	276.5	-	222.0	225.5	229.5	233.1	
Motion picture production and services .....	781	139.5	140.2	150.8	149.0	-	114.4	114.5	122.9	121.0	
Motion picture theaters .....	783	105.6	108.6	104.1	110.2	-	-	-	-	-	
Amusement and recreation services .....	79	946.6	1,006.4	924.4	979.0	-	823.2	878.2	796.4	843.1	
Health services .....	80	7,512.8	7,555.0	8,025.2	8,058.9	8,105.7	6,675.7	6,708.4	7,128.6	7,154.3	
Offices of physicians .....	801	1,185.2	1,195.0	1,281.3	1,287.2	-	970.9	977.9	1,044.2	1,046.3	
Offices of dentists .....	802	507.9	508.6	525.9	525.9	-	443.6	443.8	461.4	461.0	
Nursing and personal care facilities .....	805	1,363.5	1,369.3	1,442.4	1,447.5	-	1,232.3	1,236.8	1,302.5	1,307.8	
Skilled nursing care facilities .....	8051	943.8	948.9	999.6	1,002.6	-	-	-	-	-	
Nursing and personal care, nec .....	8059	419.7	420.4	442.8	444.9	-	-	-	-	-	
Hospitals .....	806	3,441.6	3,456.2	3,634.8	3,645.5	-	3,146.4	3,158.2	3,326.6	3,334.6	
General medical and surgical hospitals .....	8062	3,182.7	3,195.9	3,366.4	3,375.5	-	-	-	-	-	
Psychiatric hospitals .....	8063	96.0	96.7	97.6	98.6	-	-	-	-	-	
Specialty hospitals, excluding psychiatric .....	8069	162.9	163.6	170.8	171.4	-	-	-	-	-	
Medical and dental laboratories .....	807	166.1	167.6	184.8	185.5	-	-	-	-	-	
Outpatient care facilities .....	808	304.5	308.9	360.7	365.9	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	880.4	882.0	925.2	923.7	-	733.6	733.7	764.9	762.8	-
Educational services .....	82	1,712.3	1,656.1	1,759.1	1,743.6	-	-	-	-	-	-
Elementary and secondary schools .....	821	409.2	411.2	416.2	414.2	-	-	-	-	-	-
Colleges and universities .....	822	1,064.7	1,005.2	1,094.5	1,082.5	-	-	-	-	-	-
Correspondence and vocational schools .....	824	105.3	105.6	105.1	103.2	-	-	-	-	-	-
Social services .....	83	1,722.2	1,738.7	1,848.9	1,856.3	-	-	-	-	-	-
Individual and family services .....	832	349.5	351.3	364.7	365.5	-	-	-	-	-	-
Job training and related services .....	833	240.2	242.4	246.3	245.8	-	-	-	-	-	-
Residential care .....	836	417.1	421.6	456.1	459.9	-	-	-	-	-	-
Museums, botanical and zoological gardens .....	84	52.5	53.9	50.8	52.6	-	-	-	-	-	-
Membership organizations .....	86	1,746.0	1,753.9	1,770.0	1,763.8	-	-	-	-	-	-
Business associations .....	861	99.6	99.2	100.8	100.7	-	-	-	-	-	-
Labor organizations .....	863	137.8	136.8	137.9	133.1	-	-	-	-	-	-
Civic and social associations .....	864	391.0	398.3	407.0	402.8	-	-	-	-	-	-
Miscellaneous services .....	89	1,458.6	1,441.7	1,515.6	1,513.1	-	1,168.6	1,151.6	1,197.3	1,196.5	-
Engineering and architectural services .....	891	742.5	750.6	762.7	765.4	-	613.5	620.1	627.9	630.7	-
Noncommercial research organizations .....	892	144.0	144.3	155.0	154.6	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	893	537.9	512.9	558.4	553.9	-	415.5	392.0	424.9	421.7	-
<b>Government .....</b>		17,969	18,030	18,493	18,564	18,725	-	-	-	-	-
Federal Government <sup>4</sup> .....		2,982	3,005	3,082	3,149	3,297	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		2,922.8	2,945.3	3,022.1	-	-	-	-	-	-	-
Department of Defense .....		967.3	974.6	963.1	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		839.9	838.6	820.2	-	-	-	-	-	-	-
Other executive agencies .....		1,115.6	1,132.1	1,238.8	-	-	-	-	-	-	-
Legislative .....		37.5	38.0	37.5	-	-	-	-	-	-	-
Judicial .....		21.3	21.3	21.9	-	-	-	-	-	-	-
Federal government, by industry:											
Manufacturing activities .....		123.6	123.8	122.9	122.3	-	-	-	-	-	-
Shipbuilding and repairing .....	3731	74.5	74.3	72.6	72.0	-	-	-	-	-	-
Transportation and public utilities, except Postal											
Service .....		38.4	38.4	40.6	41.0	-	-	-	-	-	-
Services .....		430.5	435.0	432.6	432.6	-	-	-	-	-	-
Hospitals .....	806	247.9	248.9	252.3	252.2	-	-	-	-	-	-
State government .....		4,222	4,181	4,319	4,325	4,280	-	-	-	-	-
Hospitals .....	806	448.4	447.4	453.7	453.5	-	-	-	-	-	-
Education .....	82	1,745.8	1,688.5	1,776.3	1,775.4	-	-	-	-	-	-
General administration, including executive,											
legislative, and judicial functions .....		1,502.1	1,511.7	1,557.8	1,563.4	-	-	-	-	-	-
Local government .....		10,765	10,844	11,092	11,090	11,148	-	-	-	-	-
Transportation and public utilities .....		491.6	493.3	494.5	492.0	-	-	-	-	-	-
Hospitals .....	806	640.4	642.1	675.9	678.4	-	-	-	-	-	-
Education .....	82	6,136.7	6,174.2	6,327.8	6,307.2	-	-	-	-	-	-
General administration, including executive,											
legislative, and judicial functions .....		3,158.7	3,184.9	3,248.2	3,265.4	-	-	-	-	-	-

<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 are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Feb. 1989	Mar. 1989	Jan. 1990	Feb. 1990	Mar. 1990
<b>Total</b> .....	50,075	50,371	51,301	51,552	51,855
<b>Total private</b> .....	40,757	41,003	41,888	41,935	42,137
<b>Goods-producing</b> .....	7,091	7,106	7,038	7,046	7,041
<b>Mining</b> .....	96	97	98	99	99
<b>Construction</b> .....	554	558	577	576	579
<b>Manufacturing</b> .....	6,441	6,451	6,363	6,371	6,363
<b>Durable goods</b> .....	3,101	3,099	3,028	3,042	3,041
Lumber and wood products .....	124	124	121	120	121
Furniture and fixtures .....	167	167	164	163	163
Stone, clay, and glass products .....	122	122	120	120	120
Primary metal industries .....	107	108	104	105	105
Fabricated metal products .....	328	327	314	315	316
Machinery, except electrical .....	472	472	471	471	469
Electrical and electronic equipment .....	861	856	825	821	819
Transportation equipment .....	407	407	394	408	408
Instruments and related products .....	337	337	338	338	339
Miscellaneous manufacturing .....	177	179	178	180	181
<b>Nondurable goods</b> .....	3,340	3,352	3,335	3,329	3,322
Food and kindred products .....	511	509	524	517	514
Tobacco manufactures .....	19	18	18	17	16
Textile mill products .....	351	353	344	344	344
Apparel and other textile products .....	876	880	846	843	837
Paper and allied products .....	169	169	170	171	172
Printing and publishing .....	698	701	714	715	718
Chemicals and allied products .....	317	319	329	330	331
Petroleum and coal products .....	25	26	26	27	26
Rubber and misc. plastics products .....	292	293	285	284	286
Leather and leather products .....	83	83	79	79	79
<b>Service-producing</b> .....	42,984	43,265	44,263	44,506	44,814
<b>Transportation and public utilities</b> .....	1,624	1,622	1,687	1,694	1,701
<b>Wholesale trade</b> .....	1,851	1,859	1,916	1,912	1,922
<b>Retail trade</b> .....	10,009	10,067	10,337	10,151	10,174
<b>Finance, insurance, and real estate</b> .....	4,217	4,232	4,321	4,328	4,345
<b>Services</b> .....	15,965	16,117	16,589	16,804	16,954
<b>Government</b> .....	9,318	9,368	9,413	9,617	9,718
Federal .....	1,058	1,061	1,065	1,070	1,111
State .....	2,074	2,083	2,047	2,123	2,138
Local .....	6,186	6,224	6,301	6,424	6,469

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total</b> .....	108,310	108,607	108,767	108,887	109,096	109,171	109,452	109,570	109,931	110,304	110,427	110,404	110,568
<b>Total private</b> .....	90,623	90,884	91,016	91,083	91,230	91,328	91,622	91,699	91,975	92,302	92,313	92,187	92,197
<b>Goods-producing</b> .....	25,672	25,648	25,669	25,694	25,614	25,603	25,609	25,532	25,518	25,686	25,606	25,491	25,439
<b>Mining</b> .....	722	715	706	729	730	731	737	739	745	749	751	755	757
Oil and gas extraction .....	401	402	404	405	408	409	414	416	417	422	421	424	425
<b>Construction</b> .....	5,283	5,283	5,314	5,321	5,325	5,335	5,355	5,304	5,418	5,485	5,432	5,332	5,313
General building contractors .....	1,388	1,384	1,391	1,403	1,396	1,386	1,391	1,388	1,425	1,436	1,416	1,385	1,384
<b>Manufacturing</b> .....	19,667	19,650	19,649	19,644	19,559	19,537	19,517	19,489	19,355	19,452	19,423	19,404	19,369
<b>Durable goods</b> .....	11,594	11,567	11,549	11,551	11,480	11,457	11,439	11,409	11,287	11,398	11,385	11,352	11,339
Lumber and wood products .....	771	769	767	763	759	764	765	765	770	765	766	763	762
Furniture and fixtures .....	534	534	536	529	528	525	525	523	522	522	523	520	521
Stone, clay, and glass products .....	604	603	602	601	597	600	602	600	601	602	599	593	593
Primary metal industries .....	787	787	785	786	777	776	772	771	764	767	765	766	766
Blast furnaces and basic steel products .....	276	276	277	276	273	271	269	270	270	269	267	269	267
Fabricated metal products .....	1,452	1,449	1,446	1,443	1,438	1,434	1,430	1,426	1,407	1,419	1,420	1,425	1,421
Machinery, except electrical .....	2,150	2,151	2,154	2,152	2,147	2,139	2,146	2,145	2,143	2,140	2,133	2,125	2,122
Electrical and electronic equipment .....	2,050	2,041	2,040	2,034	2,023	2,018	2,012	1,992	1,989	1,991	1,990	1,981	1,976
Transportation equipment .....	2,076	2,062	2,046	2,068	2,038	2,031	2,020	2,022	1,920	2,021	2,022	2,015	2,012
Motor vehicles and equipment .....	876	861	844	873	843	833	824	825	726	825	824	820	816
Instruments and related products .....	778	779	781	782	780	779	778	774	776	776	775	774	774
Miscellaneous manufacturing .....	392	392	392	393	393	391	389	391	395	395	392	390	392
<b>Nondurable goods</b> .....	8,073	8,083	8,100	8,093	8,079	8,080	8,078	8,080	8,068	8,054	8,038	8,052	8,030
Food and kindred products .....	1,656	1,663	1,678	1,667	1,674	1,676	1,673	1,676	1,676	1,674	1,669	1,674	1,668
Tobacco manufactures .....	53	52	53	52	51	51	51	51	51	51	50	49	50
Textile mill products .....	728	729	730	727	723	724	721	719	718	714	711	712	706
Apparel and other textile products .....	1,095	1,093	1,094	1,095	1,088	1,084	1,084	1,081	1,073	1,063	1,054	1,057	1,051
Paper and allied products .....	697	697	701	700	697	697	697	697	697	699	697	698	697
Printing and publishing .....	1,603	1,607	1,609	1,611	1,612	1,612	1,617	1,621	1,624	1,625	1,626	1,627	1,627
Chemicals and allied products .....	1,094	1,096	1,091	1,097	1,095	1,096	1,098	1,103	1,104	1,106	1,106	1,106	1,105
Petroleum and coal products .....	162	163	163	163	163	164	164	163	163	165	165	165	165
Rubber and misc. plastics products .....	843	841	841	841	837	837	835	832	826	821	824	829	827
Leather and leather products .....	142	142	140	140	139	139	138	137	136	136	136	135	134
<b>Service-producing</b> .....	82,638	82,959	83,098	83,193	83,482	83,568	83,843	84,038	84,413	84,618	84,821	84,913	85,129
<b>Transportation and public utilities</b> .....	5,700	5,716	5,736	5,618	5,709	5,729	5,753	5,834	5,850	5,865	5,875	5,871	5,879
Transportation .....	3,484	3,500	3,524	3,539	3,546	3,566	3,592	3,613	3,635	3,649	3,660	3,654	3,665
Communication and public utilities .....	2,216	2,216	2,212	2,079	2,163	2,163	2,161	2,221	2,215	2,216	2,215	2,217	2,214
<b>Wholesale trade</b> .....	6,222	6,230	6,237	6,256	6,264	6,278	6,300	6,311	6,332	6,332	6,342	6,338	6,354
Durable goods .....	3,685	3,693	3,700	3,708	3,717	3,721	3,737	3,746	3,754	3,759	3,762	3,756	3,759
Nondurable goods .....	2,537	2,537	2,537	2,548	2,547	2,557	2,563	2,565	2,578	2,573	2,580	2,582	2,595
<b>Retail trade</b> .....	19,528	19,551	19,586	19,621	19,632	19,679	19,744	19,718	19,822	19,794	19,785	19,807	19,803
General merchandise stores .....	2,491	2,493	2,482	2,484	2,486	2,478	2,492	2,470	2,491	2,460	2,452	2,446	2,435
Food stores .....	3,245	3,262	3,274	3,293	3,294	3,321	3,334	3,341	3,361	3,361	3,363	3,377	3,379
Automotive dealers and service stations .....	2,159	2,155	2,155	2,152	2,157	2,169	2,169	2,163	2,170	2,172	2,174	2,171	2,170
Eating and drinking places .....	6,348	6,362	6,370	6,385	6,397	6,403	6,417	6,432	6,459	6,467	6,480	6,494	6,503
<b>Finance, insurance, and real estate</b> .....	6,790	6,808	6,815	6,836	6,852	6,851	6,871	6,885	6,896	6,916	6,922	6,919	6,924
Finance .....	3,320	3,320	3,324	3,336	3,343	3,345	3,357	3,360	3,353	3,366	3,361	3,365	3,363
Insurance .....	2,123	2,129	2,131	2,137	2,137	2,134	2,138	2,144	2,152	2,155	2,162	2,161	2,165
Real estate .....	1,347	1,359	1,360	1,363	1,372	1,372	1,376	1,381	1,391	1,395	1,399	1,393	1,396
<b>Services</b> .....	26,711	26,931	26,973	27,058	27,159	27,188	27,345	27,419	27,557	27,709	27,783	27,761	27,798
Business services .....	5,776	5,799	5,786	5,800	5,836	5,827	5,852	5,852	5,885	5,899	5,902	5,883	5,898
Health services .....	7,570	7,616	7,648	7,695	7,739	7,778	7,839	7,884	7,934	7,981	8,033	8,075	8,122
<b>Government</b> .....	17,687	17,723	17,751	17,804	17,866	17,843	17,830	17,871	17,953	18,002	18,114	18,217	18,371
Federal .....	2,999	2,995	3,000	2,999	2,996	2,984	2,982	2,974	2,993	3,006	3,088	3,155	3,289
State .....	4,119	4,136	4,145	4,154	4,182	4,153	4,162	4,156	4,173	4,197	4,205	4,211	4,217
Local .....	10,569	10,592	10,606	10,651	10,688	10,706	10,686	10,741	10,780	10,799	10,821	10,851	10,865

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989										1990		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total</b> .....	50,414	50,515	50,670	50,894	51,023	51,124	51,247	51,212	51,375	51,476	51,643	51,771	51,881
<b>Total private</b> .....	41,340	41,418	41,530	41,717	41,794	41,832	41,950	41,957	42,125	42,191	42,312	42,409	42,459
<b>Goods-producing</b> .....	7,159	7,161	7,166	7,165	7,176	7,167	7,147	7,142	7,138	7,130	7,100	7,107	7,091
<b>Mining</b> .....	97	97	97	99	98	99	98	98	97	98	99	100	99
<b>Construction</b> .....	571	573	577	577	577	580	581	586	584	587	591	593	592
<b>Manufacturing</b> .....	6,491	6,491	6,492	6,489	6,501	6,488	6,468	6,458	6,457	6,445	6,410	6,414	6,400
<b>Durable goods</b> .....	3,109	3,111	3,108	3,103	3,103	3,099	3,084	3,072	3,071	3,064	3,036	3,052	3,049
Lumber and wood products .....	127	126	126	125	124	124	123	123	123	124	124	123	123
Furniture and fixtures .....	167	167	167	167	169	165	165	163	165	163	163	163	162
Stone, clay, and glass products .....	123	124	124	123	123	123	122	123	124	123	122	122	121
Primary metal industries .....	108	108	108	108	107	108	107	106	106	106	104	105	105
Fabricated metal products .....	328	327	327	326	327	325	324	322	321	319	314	316	317
Machinery, except electrical .....	471	471	472	474	475	475	474	472	473	473	470	470	469
Electrical and electronic equipment .....	860	859	853	850	847	846	840	835	832	825	824	823	823
Transportation equipment .....	408	409	410	409	407	410	406	407	408	411	393	408	408
Instruments and related products .....	337	338	339	338	341	340	340	340	339	338	338	338	339
Miscellaneous manufacturing .....	180	182	182	183	183	183	183	181	180	182	184	184	182
<b>Nondurable goods</b> .....	3,382	3,380	3,384	3,386	3,398	3,389	3,384	3,386	3,386	3,381	3,374	3,362	3,351
Food and kindred products .....	537	537	537	540	551	540	549	548	548	546	548	543	542
Tobacco manufactures .....	19	18	17	17	18	18	17	17	17	17	17	17	17
Textile mill products .....	354	353	353	353	353	352	350	352	350	348	347	346	344
Apparel and other textile products .....	877	875	873	871	870	869	863	860	860	859	852	841	833
Paper and allied products .....	171	171	171	172	173	174	172	173	172	172	172	174	173
Printing and publishing .....	700	702	706	708	709	710	708	709	713	715	715	716	717
Chemicals and allied products .....	321	322	325	325	324	326	326	327	328	331	331	333	333
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 .....	293	292	292	291	292	292	291	291	290	287	285	285	286
Leather and leather products .....	84	84	84	83	82	82	82	82	81	80	80	80	79
<b>Service-producing</b> .....	43,255	43,354	43,504	43,729	43,847	43,957	44,100	44,070	44,237	44,346	44,543	44,664	44,790
<b>Transportation and public utilities</b> .....	1,629	1,628	1,635	1,645	1,652	1,585	1,633	1,642	1,651	1,689	1,694	1,703	1,706
<b>Wholesale trade</b> .....	1,866	1,876	1,888	1,893	1,899	1,905	1,907	1,907	1,919	1,922	1,928	1,924	1,932
<b>Retail trade</b> .....	10,336	10,337	10,373	10,387	10,407	10,444	10,438	10,428	10,458	10,429	10,473	10,454	10,435
<b>Finance, insurance, and real estate</b> .....	4,249	4,247	4,257	4,271	4,278	4,292	4,310	4,308	4,319	4,330	4,343	4,350	4,358
<b>Services</b> .....	16,101	16,169	16,211	16,356	16,382	16,439	16,515	16,530	16,640	16,691	16,774	16,871	16,937
<b>Government</b> .....	9,074	9,097	9,140	9,177	9,229	9,292	9,297	9,255	9,250	9,285	9,331	9,362	9,422
Federal .....	1,064	1,064	1,070	1,070	1,071	1,070	1,067	1,064	1,064	1,062	1,074	1,076	1,114
State .....	2,020	2,023	2,034	2,043	2,048	2,050	2,063	2,045	2,050	2,042	2,055	2,067	2,076
Local .....	5,990	6,010	6,036	6,064	6,110	6,172	6,167	6,146	6,136	6,181	6,202	6,219	6,232

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

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total private</b> .....	73,315	73,555	73,670	73,741	73,837	73,897	74,174	74,224	74,472	74,700	74,724	74,612	74,584
<b>Goods-producing</b> .....	18,058	18,022	18,047	18,071	17,987	17,978	17,975	17,908	17,906	18,041	17,969	17,865	17,824
<b>Mining</b> .....	521	511	503	525	525	527	530	531	537	540	542	546	547
<b>Construction</b> .....	4,111	4,111	4,134	4,145	4,143	4,144	4,169	4,115	4,241	4,284	4,236	4,127	4,108
<b>Manufacturing</b> .....	13,426	13,400	13,410	13,401	13,319	13,307	13,276	13,262	13,128	13,217	13,191	13,192	13,169
<b>Durable goods</b> .....	7,735	7,706	7,697	7,696	7,632	7,615	7,594	7,579	7,456	7,564	7,559	7,546	7,537
Lumber and wood products .....	641	638	636	633	629	633	633	632	637	632	633	631	629
Furniture and fixtures .....	427	426	427	421	420	418	417	415	414	414	414	414	413
Stone, clay, and glass products .....	469	468	468	467	463	466	467	465	467	467	464	459	457
Primary metal industries .....	601	602	601	600	593	590	586	587	580	584	582	583	582
Blast furnaces and basic steel products .....	210	211	211	214	212	209	207	209	208	207	204	206	204
Fabricated metal products .....	1,079	1,074	1,073	1,069	1,062	1,061	1,056	1,055	1,035	1,046	1,046	1,052	1,048
Machinery, except electrical .....	1,302	1,303	1,309	1,304	1,299	1,293	1,300	1,299	1,300	1,299	1,292	1,289	1,287
Electrical and electronic equipment .....	1,205	1,198	1,199	1,195	1,189	1,184	1,181	1,170	1,169	1,170	1,175	1,171	1,171
Transportation equipment .....	1,297	1,284	1,270	1,291	1,262	1,255	1,243	1,244	1,136	1,236	1,241	1,237	1,237
Motor vehicles and equipment .....	681	667	650	677	648	638	629	631	531	630	630	627	624
Instruments and related products .....	430	429	431	430	431	431	429	427	429	428	426	428	429
Miscellaneous manufacturing .....	284	284	283	286	284	284	282	285	289	288	286	282	284
<b>Nondurable goods</b> .....	5,691	5,694	5,713	5,705	5,687	5,692	5,682	5,683	5,672	5,653	5,632	5,646	5,632
Food and kindred products .....	1,184	1,190	1,205	1,197	1,203	1,205	1,200	1,201	1,205	1,200	1,197	1,205	1,199
Tobacco manufactures .....	38	38	39	39	38	38	38	38	39	38	37	36	37
Textile mill products .....	630	630	631	627	623	625	622	621	618	614	611	612	607
Apparel and other textile products .....	925	922	922	922	917	914	913	912	903	895	884	887	883
Paper and allied products .....	525	525	528	528	524	526	526	526	526	527	525	527	527
Printing and publishing .....	891	892	893	894	892	892	896	900	903	905	905	903	902
Chemicals and allied products .....	614	616	614	617	614	617	617	619	618	617	614	614	615
Petroleum and coal products .....	106	107	107	107	107	107	107	106	106	108	108	109	109
Rubber and misc. plastics products .....	660	656	657	658	653	653	649	647	641	636	638	641	643
Leather and leather products .....	118	118	117	116	116	115	114	113	113	113	113	112	110
<b>Service-producing</b> .....	55,257	55,533	55,623	55,670	55,850	55,919	56,199	56,316	56,566	56,659	56,755	56,747	56,760
<b>Transportation and public utilities</b> .....	4,752	4,763	4,779	4,665	4,758	4,782	4,800	4,880	4,888	4,900	4,911	4,903	4,917
<b>Wholesale trade</b> .....	5,007	5,016	5,021	5,038	5,037	5,053	5,066	5,071	5,096	5,091	5,095	5,094	5,102
<b>Retail trade</b> .....	17,280	17,317	17,338	17,388	17,391	17,383	17,490	17,456	17,544	17,501	17,496	17,529	17,488
<b>Finance, insurance, and real estate</b> .....	4,918	4,933	4,944	4,954	4,969	4,972	4,985	4,995	5,016	5,032	5,039	5,024	5,037
<b>Services</b> .....	23,300	23,504	23,541	23,625	23,695	23,729	23,858	23,914	24,022	24,135	24,214	24,197	24,216

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

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonagricultural payrolls, 349 industries <sup>1</sup>												
Over 1-month span:												
1988 .....	60.7	63.5	63.0	62.8	61.3	67.2	63.6	58.0	55.4	63.9	68.2	64.6
1989 .....	68.3	60.5	61.0	58.2	55.6	59.7	55.6	57.4	47.9	55.3	60.9	51.9
1990 .....	58.5	57.9	52.3	P 47.1	P 52.3							
Over 3-month span:												
1988 .....	64.8	65.6	69.5	70.2	71.1	71.9	71.2	64.2	65.3	70.1	73.4	74.6
1989 .....	71.6	70.1	64.5	61.9	61.6	60.7	61.6	53.4	54.6	55.7	57.2	60.2
1990 .....	58.2	58.9	P 51.9	P 48.0								
Over 6-month span:												
1988 .....	69.9	70.2	71.5	73.9	73.9	69.1	70.2	74.6	73.5	73.9	74.5	75.8
1989 .....	75.1	69.5	68.2	66.0	63.0	57.9	57.7	60.2	53.4	58.3	58.3	60.2
1990 .....	P 55.3	P 53.9										
Over 12-month span:												
1988 .....	76.2	76.1	74.8	74.6	75.8	74.9	78.1	75.5	75.5	74.8	74.9	74.1
1989 .....	73.2	73.6	69.6	67.6	66.6	62.6	63.6	63.2	60.7	P 57.2	P 56.6	
1990 .....												
Manufacturing payrolls, 141 industries <sup>1</sup>												
Over 1-month span:												
1988 .....	58.5	56.0	55.0	59.9	58.5	61.7	59.6	51.1	49.3	62.8	64.9	58.5
1989 .....	62.4	53.5	53.2	49.6	46.8	48.6	49.6	45.4	34.8	52.1	48.2	44.7
1990 .....	45.4	49.3	43.6	P 45.7	P 45.0							
Over 3-month span:												
1988 .....	63.1	61.0	62.4	64.9	67.4	67.0	64.5	58.2	62.1	66.7	71.3	70.9
1989 .....	67.4	63.8	55.7	51.8	49.3	48.6	47.9	34.0	41.8	41.5	46.5	41.1
1990 .....	42.2	41.5	P 44.3	P 40.8								
Over 6-month span:												
1988 .....	66.3	66.3	67.7	69.5	66.7	64.2	66.0	70.9	68.8	69.9	71.6	74.1
1989 .....	69.5	58.5	55.7	52.8	48.9	39.0	40.1	41.8	34.4	37.9	40.8	43.6
1990 .....	P 37.9	P 36.5										
Over 12-month span:												
1988 .....	73.8	70.2	70.9	71.6	72.0	69.9	70.9	69.1	71.6	70.2	69.9	67.0
1989 .....	63.1	63.8	57.1	53.5	49.6	42.9	43.3	42.2	37.6	P 36.9	P 34.0	
1990 .....												

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

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

indicates an equal balance between industries with increasing and decreasing employment. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>
<b>Alabama</b> .....	1,589.9	1,585.2	1,600.4	11.6	11.8	11.8	76.4	76.7	77.2
Birmingham .....	407.6	412.7	415.0	5.5	5.5	5.5	22.2	22.8	22.9
Huntsville .....	130.6	133.1	133.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	5.0	5.0
Mobile .....	169.5	172.1	173.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.4	10.4	10.9
Montgomery .....	131.9	133.9	134.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.3	6.7	6.9
Tuscaloosa .....	62.8	64.6	65.1	2.6	2.6	2.6	3.3	4.0	4.1
<b>Alaska</b> .....	218.9	221.2	226.3	9.7	10.3	10.4	8.3	7.9	8.9
<b>Arizona</b> .....	1,462.2	1,506.2	1,508.9	12.1	12.7	12.7	84.7	81.3	81.8
Phoenix .....	965.2	992.9	994.1	.9	1.0	1.0	57.3	54.1	54.1
Tucson .....	252.4	256.4	257.6	2.2	2.2	2.2	14.9	14.3	14.6
<b>Arkansas</b> .....	886.6	903.7	912.7	4.1	4.0	4.1	31.5	30.7	32.4
Fayetteville-Springdale .....	52.9	55.1	55.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.6	1.6
Fort Smith .....	78.2	77.8	78.7	1.0	1.0	1.0	2.4	2.4	2.4
Little Rock-North Little Rock .....	242.0	247.5	247.9	.4	.4	.4	9.1	9.4	9.6
Pine Bluff .....	33.8	33.7	33.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.6
<b>California</b> .....	12,466.1	12,730.3	12,756.2	41.4	41.7	41.9	629.8	641.9	646.4
Anaheim-Santa Ana .....	1,189.1	1,210.2	1,213.1	1.4	1.4	1.5	71.4	71.0	71.1
Bakersfield .....	166.8	169.6	170.4	13.7	14.0	14.1	10.2	10.7	10.8
Fresno .....	213.2	225.1	228.1	.6	.7	.7	12.2	13.9	14.1
Los Angeles-Long Beach .....	4,213.0	4,298.3	4,293.3	9.0	9.6	9.7	151.1	156.5	155.3
Modesto .....	110.9	115.0	116.5	.1	.1	.1	8.0	8.1	8.5
Oakland .....	878.3	903.7	908.2	4.0	4.2	4.2	50.9	52.6	53.7
Oxnard-Ventura .....	222.8	230.6	231.4	2.4	2.4	2.5	16.1	17.5	17.5
Riverside-San Bernardino .....	674.1	713.0	715.5	1.4	1.4	1.4	62.2	67.3	67.3
Sacramento .....	593.6	614.6	618.1	.7	.8	.8	34.2	35.8	37.1
San Diego .....	954.4	993.8	997.4	.8	.8	.8	62.7	64.0	64.1
San Francisco .....	948.5	966.9	968.6	.6	.6	.6	33.2	34.0	34.5
San Jose .....	824.7	830.6	829.3	.2	.2	.2	32.7	32.8	33.1
Santa Barbara-Santa Maria-Lompoc .....	149.6	151.1	151.9	1.4	1.4	1.4	6.8	7.0	7.1
Santa Rosa-Petaluma .....	132.1	140.3	141.6	.7	.7	.7	9.5	10.5	10.9
Stockton .....	150.0	151.5	152.5	.1	.1	.1	8.5	8.2	8.8
Vallejo-Fairfield-Napa .....	131.1	136.1	137.8	.5	.7	.7	9.5	10.1	10.8
<b>Colorado</b> .....	1,470.0	1,485.6	1,492.8	19.5	19.2	19.2	55.7	53.5	56.2
Boulder-Longmont .....	113.4	115.1	115.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.7	4.0
Denver .....	815.8	822.2	829.5	11.5	11.4	11.4	29.8	29.9	32.0
<b>Connecticut</b> .....	1,669.9	1,668.2	1,671.0	1.3	1.1	1.2	74.3	64.0	68.3
Bridgeport-Milford .....	198.9	195.7	195.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.3	7.7	8.1
Hartford .....	483.3	486.0	487.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.5	17.9	18.8
New Britain .....	66.8	66.2	67.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.9	3.2	4.2
New Haven-Meriden .....	258.7	254.5	256.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.7	9.9	10.5
Stamford .....	122.9	123.1	123.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.6	4.7
Waterbury .....	88.2	87.4	87.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.2	3.9	4.2
<b>Delaware</b> .....	342.2	345.9	346.8	.1	.1	.1	21.6	19.2	19.5
Wilmington .....	295.1	298.7	299.3	.2	.2	.2	19.1	17.6	17.7
<b>District of Columbia</b> .....	677.1	688.7	689.1	.1	.1	.1	14.5	14.0	14.2
Washington MSA .....	2,211.4	2,244.8	2,248.3	1.1	1.1	1.1	148.5	139.3	140.7
<b>Florida</b> .....	5,239.4	5,506.2	5,483.5	9.3	9.6	9.6	335.0	340.8	335.7
Daytona Beach .....	122.2	125.9	124.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.1	7.9	7.8
Fort Lauderdale-Hollywood-Pompano Beach .....	501.9	528.1	521.3	.3	.3	.3	34.3	34.0	33.4
Fort Myers-Cape Coral .....	123.4	134.3	132.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	13.2	12.7	12.5
Gainesville .....	98.7	102.4	101.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.5	4.4	4.3
Jacksonville .....	412.9	424.4	424.5	.6	.7	.7	26.6	27.5	27.5
Lakeland-Winter Haven .....	155.3	159.9	159.0	4.1	4.0	4.0	9.1	8.5	8.3
Melbourne-Titusville-Palm Bay .....	159.6	164.4	163.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.5	9.3	9.1
Miami-Hialeah .....	865.5	900.6	898.0	1.0	.9	.9	39.0	40.6	40.5
Orlando .....	533.8	558.6	560.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	36.3	37.1	36.2
Pensacola .....	126.8	129.3	129.7	.4	.4	.4	7.9	8.3	8.3
Sarasota .....	112.7	118.0	116.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.1	10.3	10.2
Tallahassee .....	120.0	125.3	125.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.9	6.1	6.0
Tampa-St. Petersburg-Clearwater .....	858.9	891.1	889.7	.6	.7	.7	52.9	54.4	54.3
West Palm Beach-Boca Raton-Delray Beach .....	355.3	375.0	372.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	28.4	27.8	27.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>
<b>Alabama</b> .....	384.4	371.5	382.8	80.3	80.0	79.8	346.7	345.2	345.8
Birmingham .....	57.5	56.2	57.7	32.4	32.1	32.1	99.7	100.8	101.0
Huntsville .....	32.8	33.0	33.0	2.9	2.9	2.9	24.8	25.0	25.1
Mobile .....	25.6	26.3	26.9	10.1	9.9	9.5	45.7	46.8	46.7
Montgomery .....	18.9	17.9	17.9	5.2	5.1	5.1	30.2	30.5	30.6
Tuscaloosa .....	10.4	10.7	10.7	2.0	2.1	2.2	12.8	12.7	12.8
<b>Alaska</b> .....	14.8	13.6	15.4	19.0	18.3	18.4	42.2	42.8	43.8
<b>Arizona</b> .....	187.8	187.5	187.5	76.2	80.1	80.7	363.9	377.2	377.0
Phoenix .....	139.0	139.3	139.4	52.8	55.9	56.4	246.3	254.3	253.8
Tucson .....	28.6	26.7	26.7	9.5	9.5	9.6	58.1	59.7	60.0
<b>Arkansas</b> .....	229.5	228.0	229.7	53.6	54.7	54.8	201.2	206.3	209.3
Fayetteville-Springdale .....	13.0	13.6	13.6	5.1	5.0	4.9	11.9	12.2	12.3
Fort Smith .....	25.8	24.7	25.6	4.2	4.2	4.3	16.6	16.4	16.4
Little Rock-North Little Rock .....	33.1	33.2	33.0	16.4	16.2	16.3	58.6	60.5	61.0
Pine Bluff .....	6.6	6.4	6.3	2.7	2.6	2.6	7.3	7.4	7.5
<b>California</b> .....	2,157.0	2,137.3	2,133.0	598.1	603.2	604.8	2,926.4	2,989.2	2,992.0
Anaheim-Santa Ana .....	258.6	257.9	257.1	34.5	35.1	35.4	299.5	305.5	306.1
Bakersfield .....	10.6	10.5	10.5	7.9	8.2	8.3	39.3	39.6	39.7
Fresno .....	22.5	24.1	24.4	11.8	12.0	12.0	54.2	57.2	57.6
Los Angeles-Long Beach .....	896.7	887.3	883.0	212.4	215.2	215.6	954.7	971.6	971.0
Modesto .....	22.3	22.4	22.6	4.3	4.7	4.8	28.9	29.7	29.9
Oakland .....	113.2	115.6	115.7	57.6	60.5	60.8	212.9	218.2	219.8
Oxnard-Ventura .....	30.6	30.9	30.6	11.6	11.3	11.3	55.6	57.0	57.6
Riverside-San Bernardino .....	87.2	88.9	89.3	32.6	33.5	33.5	166.6	174.1	174.1
Sacramento .....	43.1	44.4	45.0	26.1	26.7	26.7	139.1	143.1	142.8
San Diego .....	134.5	136.0	135.6	35.5	36.2	35.9	230.6	239.8	240.5
San Francisco .....	81.6	82.1	81.4	75.4	78.9	78.7	214.6	215.8	215.8
San Jose .....	268.4	265.4	264.2	21.3	22.1	22.2	168.8	168.5	168.5
Santa Barbara-Santa Maria-Lompoc .....	22.7	22.5	22.7	5.3	5.4	5.4	34.2	34.2	34.3
Santa Rosa-Petaluma .....	20.5	21.2	21.3	6.1	6.5	6.6	33.4	36.1	36.3
Stockton .....	23.7	23.3	23.5	8.5	8.3	8.3	34.6	35.2	35.4
Vallejo-Fairfield-Napa .....	11.9	12.4	12.4	4.5	5.0	5.2	31.6	33.4	33.8
<b>Colorado</b> .....	191.4	194.2	194.3	92.2	92.7	92.8	359.7	357.5	359.6
Boulder-Longmont .....	30.6	30.6	30.7	2.4	2.4	2.4	23.4	23.6	23.8
Denver .....	95.3	95.8	96.0	66.7	67.8	67.9	199.4	197.9	200.0
<b>Connecticut</b> .....	362.2	353.6	352.8	72.5	71.7	71.5	376.2	378.2	376.7
Bridgeport-Milford .....	54.2	51.6	51.5	8.5	8.6	8.6	45.1	44.7	44.7
Hartford .....	85.7	86.1	86.3	18.4	19.0	19.0	103.9	103.0	102.7
New Britain .....	20.2	19.5	19.5	3.2	3.6	3.5	13.6	14.2	14.2
New Haven-Meriden .....	46.4	45.7	45.5	16.8	16.1	16.2	59.6	57.2	57.1
Stamford .....	21.3	19.7	19.6	5.6	5.8	5.9	29.3	29.9	29.6
Waterbury .....	23.6	22.4	22.3	3.4	3.4	3.4	17.7	17.5	17.3
<b>Delaware</b> .....	73.3	71.9	71.7	15.0	14.7	14.8	73.2	73.4	73.6
Wilmington .....	62.8	61.1	61.0	15.8	16.1	16.2	60.7	62.0	61.9
<b>District of Columbia</b> .....	15.8	16.1	15.9	24.8	24.9	25.1	63.0	63.4	64.1
Washington MSA .....	89.1	89.3	89.1	107.8	111.3	111.4	429.0	437.2	438.8
<b>Florida</b> .....	540.3	543.3	541.5	258.1	277.5	278.6	1,425.3	1,496.8	1,484.8
Daytona Beach .....	12.2	12.4	12.2	3.8	4.1	4.1	36.3	37.6	37.2
Fort Lauderdale-Hollywood-Pompano Beach .....	46.0	46.4	46.3	22.6	24.2	24.1	149.3	157.3	155.8
Fort Myers-Cape Coral .....	6.1	6.3	6.3	5.1	5.7	5.7	36.9	41.5	40.7
Gainesville .....	5.8	5.5	5.4	1.8	1.9	1.9	21.4	22.0	22.0
Jacksonville .....	38.2	38.7	38.4	28.5	29.1	29.0	110.5	112.9	113.1
Lakeland-Winter Haven .....	23.6	23.6	23.1	6.8	7.2	7.2	43.1	45.0	44.8
Melbourne-Titusville-Palm Bay .....	29.7	30.3	29.9	4.2	4.2	4.2	37.6	39.4	39.1
Miami-Hialeah .....	92.5	91.3	91.5	64.5	72.1	72.1	234.9	245.3	244.1
Orlando .....	55.5	54.3	54.5	27.1	28.2	28.6	140.0	147.3	146.9
Pensacola .....	11.3	11.4	11.4	6.3	6.6	6.6	32.5	32.8	33.1
Sarasota .....	8.6	8.7	8.7	3.5	3.6	3.6	34.3	36.2	35.1
Tallahassee .....	4.8	5.0	5.0	3.0	3.1	3.1	25.5	27.2	27.2
Tampa-St. Petersburg-Clearwater .....	95.5	95.9	95.2	39.7	42.2	42.6	238.5	248.7	247.4
West Palm Beach-Boca Raton-Delray Beach .....	33.8	34.4	34.3	13.4	14.1	14.2	95.8	103.6	102.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Alabama</b> .....	70.8	70.9	71.4	302.9	306.6	307.3	316.8	322.5	324.3
Birmingham .....	28.6	28.5	28.7	97.8	100.6	100.8	63.9	66.2	66.3
Huntsville .....	3.7	3.8	3.8	31.1	32.1	32.2	30.4	31.3	31.5
Mobile .....	8.0	7.5	7.5	40.5	41.6	41.8	29.2	29.6	29.9
Montgomery .....	7.7	7.8	7.8	29.0	31.1	31.3	33.6	34.8	34.9
Tuscaloosa .....	2.1	2.1	2.1	9.4	9.7	9.8	20.2	20.7	20.8
<b>Alaska</b> .....	10.3	10.5	10.5	45.0	46.5	47.2	69.6	71.3	71.7
<b>Arizona</b> .....	92.2	94.1	94.2	388.8	408.6	410.2	256.5	264.7	264.8
Phoenix .....	74.0	75.7	75.8	263.6	277.0	277.5	131.3	135.6	136.1
Tucson .....	11.4	11.3	11.4	71.7	75.0	75.6	56.0	57.7	57.5
<b>Arkansas</b> .....	37.9	38.3	38.4	172.6	180.8	183.6	156.2	160.9	160.4
Fayetteville-Springdale .....	1.6	1.5	1.6	8.4	9.4	9.4	11.3	11.8	11.7
Fort Smith .....	2.9	2.9	2.9	17.0	17.9	17.8	8.3	8.3	8.3
Little Rock-North Little Rock .....	15.6	15.6	15.5	60.3	63.0	63.2	48.5	49.2	48.9
Pine Bluff .....	1.3	1.2	1.2	6.8	6.9	6.9	7.6	7.7	7.6
<b>California</b> .....	829.9	853.3	852.9	3,261.7	3,364.6	3,373.7	2,021.8	2,099.1	2,111.5
Anaheim-Santa Ana .....	94.6	96.8	96.6	305.4	314.0	316.2	123.7	128.5	129.1
Bakersfield .....	6.5	6.6	6.6	35.6	35.6	35.5	43.0	44.4	44.9
Fresno .....	11.9	12.3	12.4	49.8	53.9	54.3	50.2	51.0	52.6
Los Angeles-Long Beach .....	289.7	298.3	297.6	1,170.9	1,216.1	1,216.5	528.5	543.7	544.6
Modesto .....	5.0	5.2	5.2	23.3	24.5	24.7	19.0	20.3	20.7
Oakland .....	57.3	57.7	58.0	215.7	224.3	225.4	166.7	170.6	170.6
Oxnard-Ventura .....	11.2	11.7	11.7	53.3	55.9	56.2	42.0	43.9	44.0
Riverside-San Bernardino .....	28.5	29.6	29.6	159.7	169.3	169.0	135.9	148.9	151.3
Sacramento .....	38.3	39.1	39.2	132.5	139.1	139.3	179.6	185.6	187.2
San Diego .....	66.2	68.0	68.1	253.8	270.0	271.8	170.3	179.0	180.6
San Francisco .....	109.2	109.7	110.2	296.8	305.5	306.9	137.1	140.3	140.5
San Jose .....	32.1	32.4	32.5	213.6	219.9	219.2	87.6	89.3	89.4
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.7	8.7	41.7	42.0	42.0	28.9	29.9	30.3
Santa Rosa-Petaluma .....	7.9	8.0	8.0	30.0	32.6	32.9	24.0	24.7	24.9
Stockton .....	9.4	9.5	9.4	32.5	32.9	33.0	32.7	34.0	34.0
Vallejo-Fairfield-Napa .....	4.9	5.0	5.0	29.7	30.8	31.6	38.5	38.7	38.3
<b>Colorado</b> .....	95.7	97.3	97.1	379.4	390.5	390.9	276.4	280.7	282.7
Boulder-Longmont .....	4.1	4.2	4.2	26.2	27.8	27.8	23.1	22.8	22.8
Denver .....	63.2	63.5	63.6	219.5	223.1	225.3	130.4	132.8	133.3
<b>Connecticut</b> .....	150.6	152.1	151.2	419.7	433.3	435.0	213.1	214.2	214.3
Bridgeport-Milford .....	12.4	12.3	12.3	50.0	50.4	50.3	20.4	20.4	20.4
Hartford .....	73.9	74.7	74.6	114.7	117.9	118.3	67.2	67.4	67.6
New Britain .....	3.6	3.3	3.3	14.3	15.6	15.7	7.0	6.8	6.9
New Haven-Meriden .....	16.2	17.1	17.2	74.5	76.2	77.2	32.5	32.3	32.3
Stamford .....	13.7	14.2	14.1	37.3	37.9	38.3	10.8	11.0	11.0
Waterbury .....	4.4	4.4	4.2	22.0	22.8	23.3	12.9	13.0	12.7
<b>Delaware</b> .....	29.8	30.5	30.6	81.4	86.0	85.9	47.8	50.1	50.6
Wilmington .....	26.5	27.2	27.4	72.0	74.6	74.6	38.0	39.9	40.3
<b>District of Columbia</b> .....	33.4	33.5	33.4	251.3	259.3	259.3	274.2	277.4	277.0
Washington MSA .....	128.9	131.5	131.1	726.3	741.3	742.7	580.7	593.8	593.4
<b>Florida</b> .....	368.2	376.8	377.4	1,489.0	1,605.7	1,604.0	814.2	855.7	851.9
Daytona Beach .....	5.9	5.8	5.8	35.3	37.0	36.6	20.6	21.1	21.1
Fort Lauderdale-Hollywood-Pompano Beach .....	40.3	41.3	41.2	144.0	152.7	151.2	65.1	71.9	69.0
Fort Myers-Cape Coral .....	8.9	9.5	9.5	34.7	38.7	38.3	18.4	19.8	19.8
Gainesville .....	4.6	4.5	4.5	24.3	25.9	25.8	36.2	38.1	37.7
Jacksonville .....	39.1	40.5	40.6	107.8	111.2	111.3	61.6	63.8	63.9
Lakeland-Winter Haven .....	8.7	9.2	9.1	38.2	40.1	40.1	21.7	22.3	22.4
Melbourne-Titusville-Palm Bay .....	5.7	5.7	5.7	49.9	52.0	52.2	22.9	23.4	23.6
Miami-Hialeah .....	71.4	71.9	71.8	244.4	255.6	254.2	117.8	122.9	122.9
Orlando .....	32.9	33.4	33.4	180.5	193.8	195.8	61.4	64.4	64.6
Pensacola .....	5.2	5.3	5.3	32.9	33.7	34.0	30.3	30.8	30.6
Sarasota .....	8.0	8.1	8.1	35.3	37.5	37.4	12.9	13.6	13.6
Tallahassee .....	5.0	5.2	5.2	25.5	26.3	26.5	50.1	52.1	52.5
Tampa-St. Petersburg-Clearwater .....	64.9	65.9	65.3	256.3	268.9	269.6	110.5	114.4	114.6
West Palm Beach-Boca Raton-Delray Beach .....	29.2	30.2	30.0	109.9	117.5	116.8	44.8	47.4	47.8

See footnotes at end of table.



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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>
<b>Georgia</b> .....	2,908.8	3,003.7	3,006.7	8.7	8.7	8.7	142.9	145.5	145.7
Albany .....	47.7	48.4	48.6	(?)	(?)	(?)	2.0	2.0	1.9
Athens .....	68.2	69.4	70.0	.1	.1	.1	2.5	2.8	2.8
Atlanta .....	1,436.5	1,485.1	1,484.8	1.3	1.2	1.2	66.8	67.7	67.2
Augusta .....	168.5	171.1	172.5	.5	.5	.5	13.9	15.0	15.0
Columbus .....	92.8	92.9	92.4	.1	.1	.1	4.5	4.3	4.2
Macon-Warner Robins .....	123.4	125.9	126.2	.1	.1	.1	5.0	5.2	5.2
Savannah .....	106.9	109.9	110.0	(?)	(?)	(?)	7.1	8.0	7.9
<b>Hawaii</b> .....	499.8	517.6	520.5	(?)	(?)	(?)	27.7	29.8	29.5
Honolulu .....	391.6	405.8	408.0	(?)	(?)	(?)	21.2	22.8	22.5
<b>Idaho</b> .....	357.8	375.5	379.8	3.5	3.8	3.8	14.7	15.8	17.0
Boise City .....	97.7	103.5	103.8	(?)	(?)	(?)	5.4	6.0	6.1
<b>Illinois</b> .....	5,168.7	5,178.3	5,203.4	19.8	19.1	19.5	199.1	193.4	205.2
Aurora-Elgin .....	142.1	140.8	142.2	(?)	(?)	(?)	7.7	6.9	7.2
Bloomington-Normal .....	62.6	63.9	64.6	(?)	(?)	(?)	2.1	1.7	2.2
Champaign-Urbana-Rantoul .....	88.6	89.5	89.6	(?)	(?)	(?)	2.3	2.1	2.1
Chicago .....	3,146.5	3,163.5	3,179.3	2.0	2.1	2.4	124.4	119.1	125.3
Davenport-Rock Island-Moline .....	159.4	160.6	162.1	(?)	(?)	(?)	5.3	4.4	5.0
Decatur .....	53.8	53.2	53.5	(?)	(?)	(?)	3.1	2.7	3.0
Joliet .....	103.6	103.2	103.8	(?)	(?)	(?)	8.2	7.7	8.2
Kankakee .....	34.2	34.8	34.9	(?)	(?)	(?)	1.6	1.4	1.6
Lake County .....	207.4	207.5	210.0	(?)	(?)	(?)	11.8	9.6	11.2
Peoria .....	144.2	144.5	145.1	(?)	(?)	(?)	6.3	5.5	6.2
Rockford .....	135.0	134.1	135.8	(?)	(?)	(?)	4.9	4.7	5.8
Springfield .....	101.5	102.6	103.1	(?)	(?)	(?)	3.5	3.1	3.5
<b>Indiana</b> .....	2,460.3	2,479.1	2,498.4	8.0	7.6	7.6	108.0	108.7	116.2
Anderson .....	50.3	50.2	50.3	(?)	(?)	(?)	1.4	1.6	1.7
Bloomington .....	54.4	55.5	56.5	(?)	(?)	(?)	2.1	1.9	2.1
Elkhart-Goshen .....	106.8	105.7	106.6	(?)	(?)	(?)	3.1	3.3	3.5
Evansville .....	132.9	134.6	136.4	2.0	2.1	2.1	7.6	7.3	8.0
Fort Wayne .....	200.1	202.8	203.8	(?)	(?)	(?)	9.0	9.0	9.6
Gary-Hammond .....	236.2	239.5	240.7	(?)	(?)	(?)	14.2	15.0	15.7
Indianapolis .....	647.0	655.5	660.2	.8	.8	.8	34.2	33.4	35.4
Kokomo .....	46.5	46.7	47.0	(?)	(?)	(?)	1.1	1.1	1.2
Lafayette-West Lafayette .....	69.0	71.8	72.3	(?)	(?)	(?)	2.4	2.7	2.9
Muncie .....	53.5	53.8	54.2	(?)	(?)	(?)	1.8	1.7	1.8
South Bend-Mishawaka .....	117.5	121.7	122.6	(?)	(?)	(?)	5.9	6.5	7.0
Terre Haute .....	57.0	56.4	57.7	.4	.4	.4	2.4	3.0	3.6
<b>Iowa</b> .....	1,195.8	1,207.1	1,227.0	2.1	1.9	2.2	37.9	36.7	42.0
Cedar Rapids .....	93.2	93.9	93.9	(?)	(?)	(?)	3.5	4.0	4.1
Des Moines .....	221.6	228.6	229.9	(?)	(?)	(?)	7.6	8.6	9.1
Dubuque .....	43.9	44.1	44.5	(?)	(?)	(?)	1.3	1.4	1.6
Iowa City .....	55.1	56.4	56.9	(?)	(?)	(?)	1.6	1.7	1.8
Sioux City .....	53.8	54.3	54.8	(?)	(?)	(?)	2.1	1.8	2.1
Waterloo-Cedar Falls .....	67.2	68.6	69.6	(?)	(?)	(?)	2.0	2.0	2.1
<b>Kansas</b> .....	1,068.0	1,084.9	1,092.2	9.4	9.4	9.7	39.2	39.2	41.9
Lawrence .....	36.0	36.1	37.2	(?)	(?)	(?)	1.5	1.2	1.6
Topeka .....	91.9	91.3	91.8	(?)	(?)	(?)	3.3	3.8	4.0
Wichita .....	238.5	238.4	238.9	1.7	1.8	1.9	8.9	8.3	8.8
<b>Kentucky</b> .....	1,424.1	1,451.7	1,461.9	33.7	33.3	33.6	63.0	64.7	66.9
Lexington-Fayette .....	196.4	201.6	204.3	.3	.2	.2	10.3	11.2	11.5
Louisville .....	464.3	475.7	479.3	.6	.5	.5	21.8	22.2	22.9
Owensboro .....	35.6	36.4	36.6	.5	.4	.5	2.2	1.9	2.0
<b>Louisiana</b> .....	1,517.4	1,522.3	1,522.8	54.3	54.4	54.9	80.9	81.0	82.0
Alexandria .....	45.7	45.0	45.1	.1	.1	.1	2.6	2.1	2.1
Baton Rouge .....	227.4	231.7	231.1	.8	.8	.8	25.1	26.4	25.8
Houma-Thibodaux .....	53.4	55.4	55.6	5.3	5.4	5.4	1.9	1.8	1.9
Lafayette .....	87.4	88.7	89.0	11.1	11.2	11.3	3.3	3.2	3.2
Lake Charles .....	61.7	63.1	63.5	1.0	1.1	1.1	4.0	4.3	4.7
Monroe .....	55.4	56.5	56.7	.4	.5	.5	2.4	2.8	2.7
New Orleans .....	523.3	527.2	526.0	14.4	14.6	14.6	21.8	21.8	22.0
Shreveport .....	129.8	131.6	131.2	3.0	3.0	3.0	5.3	5.8	5.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Georgia</b> .....	565.1	563.3	563.4	179.1	186.5	188.0	741.9	762.4	767.1
Albany .....	7.5	7.5	7.7	2.8	2.8	2.8	11.9	11.9	11.8
Athens .....	15.5	15.4	15.1	1.9	1.8	1.8	14.8	15.3	15.8
Atlanta .....	177.6	178.6	177.8	116.3	124.8	125.6	405.3	414.3	414.8
Augusta .....	37.8	38.2	38.4	4.5	4.5	4.6	36.6	36.6	36.8
Columbus .....	19.4	18.8	18.9	3.1	3.0	2.9	20.7	21.3	21.2
Macon-Warner Robins .....	18.7	18.6	18.6	5.0	5.4	5.4	28.1	28.6	28.6
Savannah .....	16.9	17.4	17.4	9.5	9.6	9.7	26.0	26.5	26.4
<b>Hawaii</b> .....	21.3	20.6	20.7	39.2	41.8	42.0	130.8	135.0	134.2
Honolulu .....	16.1	15.4	15.4	31.9	33.9	34.1	100.3	103.4	102.7
<b>Idaho</b> .....	57.2	60.3	60.4	18.7	18.9	19.1	91.0	96.7	98.0
Boise City .....	13.9	15.9	16.0	5.4	5.6	5.6	25.5	26.5	26.8
<b>Illinois</b> .....	982.0	979.9	981.7	305.2	304.4	304.1	1,266.8	1,268.1	1,272.5
Aurora-Elgin .....	39.4	39.1	39.1	3.3	3.4	3.5	35.7	35.1	35.6
Bloomington-Normal .....	6.8	7.9	7.8	2.8	2.7	2.7	13.9	14.1	14.1
Champaign-Urbana-Rantoul .....	8.4	7.9	8.0	2.3	2.2	2.2	19.3	18.8	19.0
Chicago .....	564.5	553.2	554.3	202.5	204.0	203.0	767.7	769.3	773.5
Davenport-Rock Island-Moline .....	32.8	33.4	33.6	7.2	7.3	7.3	45.2	46.2	46.2
Decatur .....	14.1	14.3	14.3	5.1	5.1	5.1	11.5	11.4	11.4
Joliet .....	19.1	18.3	18.4	8.7	8.7	8.8	23.7	24.0	23.9
Kankakee .....	5.4	5.6	5.6	2.1	2.1	2.1	8.9	9.0	9.0
Lake County .....	46.6	47.0	47.0	5.7	6.0	6.0	58.9	59.1	59.9
Peoria .....	33.5	33.7	33.6	7.1	7.1	7.1	34.7	35.1	35.1
Rockford .....	48.5	47.4	47.7	4.7	4.7	4.7	30.1	30.9	30.9
Springfield .....	4.0	4.0	4.0	4.8	4.7	4.7	22.7	22.8	22.8
<b>Indiana</b> .....	646.7	633.4	635.0	126.1	131.4	131.0	583.4	589.1	595.4
Anderson .....	17.3	17.0	16.6	1.3	1.3	1.3	12.0	11.6	11.7
Bloomington .....	9.5	9.3	9.2	1.6	1.7	1.7	11.8	11.4	12.0
Elkhart-Goshen .....	56.9	52.9	52.9	3.2	3.7	3.6	19.6	19.6	20.0
Evansville .....	31.4	30.8	31.3	6.9	7.0	7.0	34.4	35.0	35.3
Fort Wayne .....	54.7	52.7	52.9	13.4	13.1	13.1	48.8	49.4	49.0
Gary-Hammond .....	56.1	55.6	55.3	15.4	14.7	14.8	56.3	57.1	57.9
Indianapolis .....	108.3	106.3	106.2	40.5	41.8	42.3	168.2	171.3	174.1
Kokomo .....	19.5	19.0	19.1	1.4	1.6	1.6	10.3	10.1	10.1
Lafayette-West Lafayette .....	12.8	12.9	12.9	1.8	1.7	1.8	14.2	15.0	15.1
Muncie .....	11.4	11.4	11.5	2.7	3.2	3.2	12.9	12.8	13.0
South Bend-Mishawaka .....	22.9	22.5	22.5	5.0	5.1	5.1	30.9	31.6	31.8
Terre Haute .....	10.5	10.5	10.6	3.0	2.8	2.9	15.5	14.9	15.2
<b>Iowa</b> .....	232.4	230.7	232.8	55.1	55.2	54.9	302.6	306.4	311.8
Cedar Rapids .....	23.6	21.7	21.8	5.8	5.8	5.7	22.1	22.4	22.3
Des Moines .....	25.0	26.0	25.9	12.3	12.3	12.4	57.2	58.7	58.9
Dubuque .....	12.5	12.6	12.5	1.7	1.7	1.7	10.2	10.2	10.2
Iowa City .....	4.4	4.5	4.5	1.3	1.4	1.5	10.4	10.7	10.8
Sioux City .....	10.5	10.6	10.6	3.3	3.6	3.6	14.0	13.8	13.9
Waterloo-Cedar Falls .....	15.6	15.7	16.0	1.8	1.9	1.9	16.3	16.6	17.1
<b>Kansas</b> .....	184.7	186.0	186.1	65.5	66.0	66.0	263.0	268.3	269.6
Lawrence .....	4.6	4.7	4.7	1.0	1.0	1.1	7.7	8.2	8.3
Topeka .....	9.5	10.0	10.1	7.0	6.8	6.8	20.7	19.9	20.0
Wichita .....	63.2	64.6	64.2	10.9	11.3	11.2	55.1	53.5	53.7
<b>Kentucky</b> .....	282.3	283.7	284.7	76.2	74.9	75.9	340.8	347.9	350.7
Lexington-Fayette .....	33.3	33.6	33.6	8.8	8.9	9.0	43.8	44.1	44.7
Louisville .....	88.4	88.1	88.2	29.8	29.6	30.5	116.1	119.2	119.5
Owensboro .....	6.3	6.5	6.5	2.1	2.2	2.2	9.4	9.7	9.7
<b>Louisiana</b> .....	173.6	171.9	171.2	106.2	105.6	104.5	363.7	363.1	364.7
Alexandria .....	3.3	3.6	3.5	2.3	2.3	2.3	10.6	10.0	10.1
Baton Rouge .....	20.8	21.6	21.6	10.2	10.6	10.5	53.0	54.0	54.2
Houma-Thibodaux .....	4.4	4.7	4.7	6.0	6.4	6.2	13.7	14.2	14.3
Lafayette .....	7.5	8.2	8.1	6.2	6.2	6.1	23.9	24.2	24.0
Lake Charles .....	11.6	11.8	11.7	4.0	4.2	4.3	14.8	15.1	15.2
Monroe .....	7.5	7.6	7.8	3.1	3.0	2.9	14.2	14.1	14.2
New Orleans .....	43.5	42.4	42.1	43.1	43.3	43.0	133.6	135.4	135.4
Shreveport .....	17.5	17.7	17.5	8.4	8.4	8.3	31.9	32.4	32.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Georgia</b> .....	162.3	163.4	163.2	599.3	637.1	636.5	509.5	537.0	534.1
Albany .....	2.1	2.0	2.0	8.3	8.8	8.7	13.0	13.4	13.6
Athens .....	2.1	2.0	2.0	11.1	11.3	11.6	20.2	20.7	20.8
Atlanta .....	105.5	105.6	105.4	352.4	372.9	372.8	211.3	220.0	219.9
Augusta .....	5.7	5.5	5.5	34.4	34.9	36.1	35.2	36.0	35.7
Columbus .....	6.0	5.8	5.8	18.2	18.5	18.4	20.8	21.1	20.9
Macon-Warner Robins .....	7.3	7.4	7.5	24.3	25.1	25.0	34.9	35.5	35.7
Savannah .....	4.9	4.9	4.8	25.9	26.7	26.5	16.7	16.8	17.1
<b>Hawaii</b> .....	34.7	35.7	35.5	142.7	147.4	150.5	103.4	107.3	108.1
Honolulu .....	28.4	29.1	29.0	106.9	111.3	113.7	86.8	89.9	90.6
<b>Idaho</b> .....	19.0	19.5	19.6	75.3	78.2	79.0	78.4	82.3	82.9
Boise City .....	7.6	7.7	7.6	21.5	22.1	21.9	18.4	19.7	19.8
<b>Illinois</b> .....	368.9	371.4	372.2	1,275.3	1,284.9	1,288.2	751.6	757.1	760.0
Aurora-Elgin .....	7.3	7.3	7.3	32.5	31.7	32.3	16.2	17.3	17.2
Bloomington-Normal .....	10.6	11.1	11.1	12.9	13.0	13.1	13.5	13.4	13.6
Champaign-Urbana-Rantoul .....	3.0	3.1	3.1	17.6	17.8	18.2	35.7	37.6	37.0
Chicago .....	267.1	269.7	270.4	848.5	866.0	869.3	369.8	380.1	381.1
Davenport-Rock Island-Moline .....	7.4	7.7	7.6	34.4	34.5	35.1	27.1	27.1	27.3
Decatur .....	2.3	2.3	2.3	11.8	11.5	11.5	5.9	5.9	5.9
Joliet .....	3.5	3.6	3.5	23.0	23.4	23.4	17.4	17.5	17.6
Kankakee .....	1.2	1.2	1.3	8.4	8.8	8.6	6.6	6.7	6.7
Lake County .....	9.9	10.0	10.1	43.9	44.3	44.2	30.6	31.5	31.6
Peoria .....	7.1	7.1	7.1	39.5	39.6	39.6	16.0	16.4	16.4
Rockford .....	5.4	5.3	5.3	28.5	29.1	28.9	12.9	12.0	12.5
Springfield .....	7.9	8.2	8.2	25.7	26.1	26.2	32.9	33.7	33.7
<b>Indiana</b> .....	120.8	122.8	123.1	497.4	515.0	519.8	369.9	371.2	370.3
Anderson .....	1.6	1.5	1.5	10.8	11.2	11.4	6.1	6.2	6.2
Bloomington .....	1.9	2.0	2.0	9.3	10.6	10.9	18.1	18.6	18.6
Elkhart-Goshen .....	2.8	3.2	3.1	15.2	16.6	17.0	6.0	6.5	6.4
Evansville .....	5.3	5.5	5.5	32.9	34.7	35.1	12.3	12.1	12.1
Fort Wayne .....	12.3	13.1	13.1	43.7	47.6	48.5	18.3	18.0	17.7
Gary-Hammond .....	8.3	8.3	8.3	53.8	56.3	56.2	32.1	32.4	32.3
Indianapolis .....	49.2	49.0	49.2	151.3	156.1	155.3	94.5	96.8	96.8
Kokomo .....	1.3	1.5	1.4	7.0	7.7	7.7	5.8	5.8	5.8
Lafayette-West Lafayette .....	3.1	3.1	3.1	12.9	14.1	14.5	21.8	22.2	22.0
Muncie .....	1.7	1.7	1.7	11.0	11.2	11.2	12.0	11.8	11.8
South Bend-Mishawaka .....	6.1	6.3	6.3	35.0	37.0	37.4	11.5	12.8	12.6
Terre Haute .....	2.0	2.1	2.1	12.1	12.0	12.2	11.1	10.7	10.8
<b>Iowa</b> .....	67.4	69.8	70.0	276.7	281.7	285.0	221.6	224.7	228.3
Cedar Rapids .....	4.7	4.7	4.7	22.9	23.8	23.9	10.6	11.5	11.4
Des Moines .....	30.4	32.5	32.7	57.7	58.5	58.8	31.4	32.0	32.1
Dubuque .....	1.5	1.5	1.5	13.1	12.9	13.2	3.6	3.8	3.8
Iowa City .....	1.4	1.5	1.4	9.9	9.8	9.9	26.1	26.8	27.0
Sioux City .....	2.5	2.6	2.6	14.7	15.1	15.1	6.7	6.8	6.9
Waterloo-Cedar Falls .....	2.8	2.9	2.9	15.4	15.7	15.7	13.3	13.8	13.9
<b>Kansas</b> .....	57.6	58.9	59.2	229.3	237.6	239.4	219.3	219.5	220.3
Lawrence .....	1.4	1.5	1.5	7.4	7.2	7.6	12.4	12.3	12.4
Topeka .....	6.6	6.7	6.7	21.7	21.6	21.7	23.1	22.5	22.5
Wichita .....	11.0	10.8	11.1	59.5	59.3	59.3	28.2	28.8	28.7
<b>Kentucky</b> .....	59.9	60.9	61.1	309.9	323.8	326.4	258.3	262.5	262.6
Lexington-Fayette .....	9.5	9.3	9.4	47.8	49.6	51.1	42.6	44.7	44.8
Louisville .....	27.1	26.7	27.0	118.1	125.4	125.5	62.4	64.0	64.2
Owensboro .....	1.4	1.5	1.5	8.4	8.5	8.6	5.3	5.7	5.6
<b>Louisiana</b> .....	79.3	77.9	77.5	344.3	349.8	349.6	315.1	318.6	318.4
Alexandria .....	2.5	2.4	2.4	11.6	11.8	11.9	12.7	12.7	12.7
Baton Rouge .....	13.1	13.1	13.2	49.8	50.3	50.3	54.6	54.9	54.7
Houma-Thibodaux .....	2.1	2.1	2.1	9.2	10.0	10.1	10.8	10.8	10.9
Lafayette .....	3.3	3.2	3.2	19.5	19.6	20.1	12.6	12.9	13.0
Lake Charles .....	3.1	3.1	3.1	12.5	12.8	12.7	10.7	10.7	10.7
Monroe .....	4.3	4.2	4.2	12.3	13.0	13.0	11.2	11.3	11.4
New Orleans .....	33.1	33.1	33.1	146.8	149.4	143.6	87.0	87.2	87.2
Shreveport .....	6.5	6.1	6.2	31.3	32.7	32.6	25.9	25.5	25.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Maine</b> .....	532.0	529.3	529.9	0.1	0.1	0.1	30.6	28.1	28.4
Lewiston-Auburn .....	41.0	41.1	41.4	(?)	(?)	(?)	2.1	1.9	1.9
Portland .....	129.6	131.2	131.9	(?)	(?)	(?)	8.1	7.6	7.7
<b>Maryland</b> .....	2,135.8	2,150.9	2,156.1	1.7	1.6	1.7	160.7	157.1	159.0
Baltimore MSA .....	1,136.2	1,142.2	1,146.6	.3	.3	.3	76.1	75.9	77.7
Baltimore City .....	476.2	476.2	479.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.1	19.8	20.3
Suburban Maryland-D.C. ....	768.3	777.2	777.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	71.4	70.2	70.7
<b>Massachusetts</b> .....	3,118.8	3,048.5	3,063.4	1.4	1.3	1.4	126.6	104.1	107.9
Boston .....	1,751.5	1,716.8	1,723.7	.6	.7	.7	63.8	50.9	53.0
Brockton .....	74.3	73.1	73.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.3	2.9	3.0
Fall River .....	56.5	55.9	55.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.5	2.3	2.5
Fitchburg-Leominster .....	41.9	40.5	41.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.1	1.4	1.6
Lawrence-Haverhill .....	165.4	162.9	164.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.9	5.8	6.1
Lowell .....	108.4	102.2	102.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.2	4.4
New Bedford .....	68.3	66.4	66.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.9	2.5	2.7
Pittsfield .....	42.2	42.1	42.6	.1	.1	.1	2.1	1.4	1.6
Springfield .....	243.8	239.5	240.0	.2	.1	.1	9.3	6.8	7.3
Worcester .....	205.1	200.8	202.2	.2	.2	.3	8.5	7.4	7.8
<b>Michigan</b> .....	3,899.6	3,870.8	3,899.3	10.8	10.1	10.4	129.2	118.5	126.9
Ann Arbor .....	175.3	177.3	178.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	4.6	5.3
Battle Creek .....	60.0	60.0	60.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.0	2.1
Benton Harbor .....	67.1	66.0	67.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.5	1.7
Detroit .....	1,935.1	1,910.0	1,919.8	1.1	1.1	1.1	61.4	53.1	55.8
Flint .....	166.0	166.3	166.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	5.0	4.9
Grand Rapids .....	341.2	346.7	349.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.3	15.3	16.5
Jackson .....	53.7	53.7	53.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.9	2.2
Kalamazoo .....	111.7	112.3	113.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.8	4.1
Lansing-East Lansing .....	213.0	214.9	214.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	5.0	5.4
Muskegon .....	57.8	57.5	57.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.0	2.3
Saginaw-Bay City-Midland .....	156.7	157.9	159.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.1	7.4	7.7
<b>Minnesota</b> .....	2,068.1	2,096.0	2,120.7	7.2	7.6	7.8	71.0	67.8	74.9
Duluth .....	94.4	95.2	95.5	5.1	5.5	5.5	2.9	3.1	3.2
Minneapolis-St. Paul .....	1,339.5	1,357.3	1,371.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	47.4	45.9	49.7
Rochester .....	62.4	64.1	64.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	1.7	1.8
St. Cloud .....	76.8	80.1	81.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.6	3.8
<b>Mississippi</b> .....	918.1	928.7	934.7	5.8	6.2	6.1	35.7	35.5	35.3
Jackson .....	184.4	187.3	188.4	.7	.6	.6	7.7	7.2	7.3
<b>Missouri</b> .....	2,308.5	2,307.5	2,330.8	5.1	4.9	5.1	94.6	89.5	94.3
Kansas City .....	772.8	789.5	793.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	31.6	32.4	33.5
St. Louis .....	1,172.5	1,174.4	1,184.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	59.4	56.9	58.2
Springfield .....	116.2	119.2	119.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.3	4.5
<b>Montana</b> .....	285.9	290.2	292.0	6.5	6.0	6.0	8.8	7.3	8.5
<b>Nebraska</b> .....	705.3	716.5	723.1	1.5	1.4	1.6	24.0	23.3	25.2
Lincoln .....	118.7	122.2	122.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	4.1	4.4
Omaha .....	320.7	326.1	329.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.5	11.2	12.3
<b>Nevada</b> .....	569.7	608.0	613.1	13.0	14.6	14.9	43.0	48.0	49.3
Las Vegas .....	332.7	364.2	366.7	.2	.3	.3	29.1	34.5	35.1
Reno .....	138.8	143.7	145.0	1.4	1.5	1.5	7.3	7.1	7.6
<b>New Hampshire</b> .....	524.6	507.3	508.1	.4	.4	.5	30.5	21.4	23.5
Manchester .....	87.8	82.6	83.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.7	3.8	4.3
Nashua .....	93.7	89.2	89.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	2.5	2.6
Portsmouth-Dover-Rochester .....	110.8	104.5	104.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	3.5	3.7
<b>New Jersey</b> .....	3,686.8	3,686.5	3,710.3	2.5	2.4	2.5	165.1	148.4	155.1
Atlantic City .....	165.5	168.3	171.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.7	9.8	9.5
Bergen-Passaic .....	669.6	671.5	672.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	31.3	30.1	31.0
Camden .....	449.6	454.8	459.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	25.4	24.4	26.1
Jersey City .....	249.6	250.2	251.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	6.3	6.8
Middlesex-Somerset-Hunterdon .....	539.6	539.8	540.9	.6	.6	.7	23.0	21.2	21.9
Monmouth-Ocean .....	333.2	332.8	335.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.3	18.0	18.2
Newark .....	967.3	978.1	980.7	.8	.8	.8	37.7	36.3	37.0
Trenton .....	198.3	198.6	199.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	4.6	4.7
Vineland-Millville-Bridgeton .....	58.1	58.4	59.3	.4	.4	.4	2.3	2.4	2.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Maine</b> .....	104.1	104.2	103.5	21.8	22.0	21.9	132.8	131.3	131.4
Lewiston-Auburn .....	9.9	9.7	9.7	1.4	1.4	1.4	10.3	10.6	10.6
Portland .....	16.6	16.7	16.5	5.4	5.1	5.2	39.1	39.2	39.5
<b>Maryland</b> .....	207.9	204.6	204.5	100.3	101.3	101.9	533.8	536.5	537.9
Baltimore MSA .....	130.3	127.9	127.6	56.0	56.1	56.9	274.6	275.2	276.1
Baltimore City .....	44.8	44.1	44.4	28.1	28.0	28.5	95.3	92.4	93.9
Suburban Maryland-D.C. ....	38.2	38.2	38.1	30.7	31.7	31.7	196.4	198.7	199.0
<b>Massachusetts</b> .....	569.5	537.2	534.3	131.4	130.1	130.7	735.1	723.8	727.9
Boston .....	261.0	249.7	248.3	75.3	76.5	76.8	393.0	387.7	389.3
Brockton .....	10.2	9.5	9.6	4.7	4.6	4.5	23.8	23.6	23.8
Fall River .....	15.5	14.9	14.5	1.9	1.9	1.9	15.2	14.7	14.8
Fitchburg-Leominster .....	12.3	12.2	12.2	1.6	1.4	1.4	10.4	9.8	9.9
Lawrence-Haverhill .....	48.5	45.9	45.7	6.7	6.4	6.4	36.8	36.3	36.6
Lowell .....	36.4	31.9	31.5	4.8	4.9	4.7	22.7	21.9	21.9
New Bedford .....	18.2	17.3	17.1	2.9	2.8	2.8	16.9	16.3	16.5
Pittsfield .....	10.7	10.8	11.0	1.3	1.4	1.4	9.8	9.9	9.9
Springfield .....	49.0	46.7	46.7	10.0	10.0	10.0	58.6	59.2	59.3
Worcester .....	44.4	43.7	43.5	9.5	9.1	9.2	49.9	50.3	50.2
<b>Michigan</b> .....	977.2	938.9	942.4	150.1	150.2	150.8	906.0	899.7	913.0
Ann Arbor .....	39.8	38.2	38.5	4.7	4.9	4.9	29.8	30.4	30.2
Battle Creek .....	16.9	16.3	16.2	1.6	1.6	1.6	11.9	11.9	12.0
Benton Harbor .....	22.2	20.8	21.0	2.4	2.5	2.6	14.4	14.4	14.7
Detroit .....	463.1	443.4	443.9	86.4	86.8	87.5	462.4	458.8	461.7
Flint .....	53.2	51.8	52.0	4.3	4.1	4.1	40.4	40.8	40.8
Grand Rapids .....	101.6	101.1	101.6	11.3	11.4	11.2	88.3	91.6	92.3
Jackson .....	13.6	12.7	12.8	4.1	3.9	3.9	12.7	12.7	12.7
Kalamazoo .....	30.9	30.0	29.8	3.1	3.3	3.3	25.4	25.6	26.0
Lansing-East Lansing .....	33.4	32.4	32.4	5.3	5.7	5.7	45.3	45.6	45.0
Muskegon .....	17.1	16.4	16.4	2.2	2.2	2.2	13.3	13.2	13.4
Saginaw-Bay City-Midland .....	44.2	43.6	44.0	6.2	6.1	6.1	37.4	37.8	38.4
<b>Minnesota</b> .....	394.3	394.4	394.0	103.7	107.7	108.4	509.4	509.8	518.0
Duluth .....	8.5	8.2	8.0	5.6	5.8	5.8	23.2	23.6	23.8
Minneapolis-St. Paul .....	263.2	260.7	261.2	73.0	76.7	77.3	327.0	327.1	330.5
Rochester .....	11.5	11.6	11.6	1.9	1.9	1.9	12.5	12.5	12.5
St. Cloud .....	14.4	14.9	15.0	3.8	3.9	3.9	23.5	26.0	26.1
<b>Mississippi</b> .....	242.7	240.4	242.2	44.9	46.2	46.5	193.7	197.1	198.9
Jackson .....	21.3	21.5	21.9	13.7	14.4	14.4	42.9	43.2	43.3
<b>Missouri</b> .....	440.8	432.8	437.3	150.2	150.2	150.5	563.4	561.9	567.9
Kansas City .....	110.0	110.7	110.3	63.1	64.2	64.5	200.4	207.3	207.6
St. Louis .....	225.4	218.9	222.6	76.2	77.9	78.3	285.1	288.2	289.6
Springfield .....	21.3	20.9	21.1	7.1	7.5	7.5	32.9	33.7	34.0
<b>Montana</b> .....	20.8	21.3	21.0	19.7	19.3	19.4	75.6	77.9	78.4
<b>Nebraska</b> .....	94.0	95.4	95.8	45.5	46.4	46.5	183.7	183.8	186.0
Lincoln .....	14.4	14.2	14.3	6.5	6.6	6.7	26.9	27.5	27.7
Omaha .....	34.9	35.7	35.9	24.1	24.7	24.9	82.9	83.7	84.7
<b>Nevada</b> .....	25.1	25.9	25.9	30.2	31.6	31.9	115.7	123.7	124.8
Las Vegas .....	9.7	10.4	10.5	17.7	19.0	19.3	70.0	77.0	77.6
Reno .....	8.4	8.6	8.6	9.4	9.2	9.1	31.2	33.1	33.4
<b>New Hampshire</b> .....	115.2	108.8	108.8	18.4	18.1	18.2	135.2	128.4	127.6
Manchester .....	12.3	11.2	11.2	4.7	4.9	4.9	23.7	21.9	21.4
Nashua .....	34.4	32.8	32.6	3.1	3.0	3.0	23.1	22.0	21.7
Portsmouth-Dover-Rochester .....	21.1	19.3	19.3	2.7	2.5	2.6	27.8	25.8	25.8
<b>New Jersey</b> .....	651.8	640.1	639.3	243.7	242.2	242.9	873.9	875.2	878.1
Atlantic City .....	8.5	8.8	8.5	6.7	6.5	6.6	33.8	32.5	34.3
Bergen-Passaic .....	150.7	146.9	146.3	29.9	29.4	29.6	191.3	192.4	191.5
Camden .....	72.6	69.7	70.1	19.8	20.1	20.1	121.7	124.7	124.4
Jersey City .....	42.9	42.0	42.5	33.4	33.8	33.8	61.6	60.7	61.1
Middlesex-Somerset-Hunterdon .....	114.6	112.7	112.3	41.8	42.0	42.3	129.7	130.0	129.2
Monmouth-Ocean .....	27.8	27.7	27.4	17.5	17.5	17.5	88.5	88.8	89.2
Monmouth-Ocean .....	174.8	172.0	170.7	80.9	81.7	83.2	194.5	194.9	194.8
Newark .....	28.8	28.5	28.5	6.7	6.6	6.6	31.1	31.2	31.7
Trenton .....	16.5	16.4	16.8	2.1	2.2	2.3	11.3	10.9	11.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>
<b>Maine</b> .....	25.3	24.8	24.9	120.4	120.5	121.0	96.9	98.3	98.7
Lewiston-Auburn .....	2.3	2.3	2.4	10.7	10.9	11.0	4.3	4.3	4.4
Portland .....	11.8	11.3	11.3	32.4	34.8	35.2	16.2	16.6	16.5
<b>Maryland</b> .....	130.0	131.4	131.9	586.3	596.4	597.7	415.1	422.0	421.5
Baltimore MSA .....	76.3	76.5	76.8	310.9	316.8	317.9	211.7	213.5	213.3
Baltimore City .....	45.6	45.6	45.9	149.8	152.6	153.0	92.5	93.7	93.9
Suburban Maryland-D.C. ....	44.9	45.9	46.0	224.6	226.8	227.5	162.1	165.7	164.5
<b>Massachusetts</b> .....	218.2	217.0	218.4	925.7	927.5	934.4	410.9	407.5	408.4
Boston .....	148.7	147.0	148.1	601.9	599.9	602.8	207.2	204.4	204.7
Brockton .....	3.5	3.6	3.6	16.7	16.4	16.5	12.1	12.5	12.7
Fall River .....	3.4	3.5	3.5	10.9	11.3	11.3	7.1	7.3	7.3
Fitchburg-Leominster .....	1.6	1.5	1.5	8.9	9.2	9.3	5.0	5.0	5.1
Lawrence-Haverhill .....	6.4	6.3	6.4	37.1	39.1	39.5	23.0	23.1	23.5
Lowell .....	3.8	3.5	3.5	22.2	22.2	22.5	13.6	13.6	13.6
New Bedford .....	2.5	2.4	2.4	14.8	15.1	15.3	10.1	10.0	10.0
Pittsfield .....	2.0	2.0	2.0	11.4	11.8	11.7	4.8	4.8	4.9
Springfield .....	15.8	15.1	15.1	61.7	61.8	61.7	39.2	39.8	39.8
Worcester .....	14.0	13.6	13.7	53.3	51.9	52.7	25.3	24.6	24.8
<b>Michigan</b> .....	186.8	190.6	190.5	899.1	905.5	913.3	640.5	657.4	651.9
Ann Arbor .....	4.6	4.7	4.7	36.3	37.9	38.2	55.1	56.7	56.6
Battle Creek .....	3.2	3.3	3.4	12.7	13.2	13.4	11.7	11.8	11.8
Benton Harbor .....	2.6	2.7	2.7	14.9	15.2	15.6	8.9	8.9	8.9
Detroit .....	110.8	112.4	112.6	504.8	508.4	513.1	245.2	245.8	244.0
Flint .....	5.8	6.0	6.0	33.2	34.5	35.2	24.0	24.2	23.9
Grand Rapids .....	15.5	15.8	15.8	74.5	75.9	76.8	33.7	35.6	34.9
Jackson .....	1.7	1.7	1.7	9.9	10.3	10.2	10.0	10.5	10.4
Kalamazoo .....	5.0	5.2	5.2	24.9	25.3	25.4	18.3	19.1	19.3
Lansing-East Lansing .....	12.6	12.6	12.6	41.6	41.8	43.2	69.0	71.9	69.8
Muskegon .....	1.4	1.5	1.5	12.2	12.0	12.2	9.4	10.1	9.8
Saginaw-Bay City-Midland .....	6.2	5.9	5.9	34.5	35.9	36.4	21.1	21.2	21.3
<b>Minnesota</b> .....	119.5	121.7	121.9	527.5	547.8	553.6	335.5	339.2	342.1
Duluth .....	3.1	3.2	3.2	23.6	23.7	23.8	22.4	22.1	22.2
Minneapolis-St. Paul .....	92.2	93.6	93.8	353.9	366.5	370.3	182.2	186.3	186.3
Rochester .....	1.6	1.7	1.7	26.5	28.0	28.1	6.4	6.7	6.6
St. Cloud .....	2.3	2.4	2.4	15.8	16.0	16.2	13.7	13.3	14.2
<b>Mississippi</b> .....	38.8	38.5	38.5	152.9	156.7	158.7	203.7	208.0	208.4
Jackson .....	14.6	14.6	14.6	41.9	42.6	43.2	41.7	43.1	43.0
<b>Missouri</b> .....	134.8	134.2	134.2	551.9	557.2	564.1	367.7	376.8	377.4
Kansas City .....	58.5	59.2	59.1	188.4	193.7	195.8	120.7	122.0	122.2
St. Louis .....	74.3	73.8	74.1	305.7	311.8	313.8	146.5	146.9	148.3
Springfield .....	5.3	5.6	5.6	29.9	31.4	31.3	15.2	15.8	15.7
<b>Montana</b> .....	12.9	13.4	13.5	70.1	73.7	74.3	71.5	71.3	70.9
<b>Nebraska</b> .....	48.2	48.4	48.5	167.0	172.2	173.9	141.4	145.6	145.6
Lincoln .....	8.5	8.4	8.4	26.9	28.8	28.9	31.6	32.6	32.4
Omaha .....	28.7	29.3	29.3	91.6	93.4	94.5	47.0	48.1	48.1
<b>Nevada</b> .....	25.0	26.5	26.6	246.2	262.3	264.4	71.5	75.4	75.3
Las Vegas .....	16.1	16.8	16.9	153.3	167.5	168.2	36.6	38.7	38.8
Reno .....	6.5	6.9	6.9	57.0	59.0	59.8	17.6	18.3	18.1
<b>New Hampshire</b> .....	32.3	31.9	32.2	120.8	124.3	124.1	71.8	74.0	73.2
Manchester .....	8.6	8.7	8.8	24.0	23.2	23.9	8.8	8.9	9.0
Nashua .....	3.4	3.0	3.2	17.9	17.9	18.3	7.8	8.0	8.1
Portsmouth-Dover-Rochester .....	7.1	7.1	7.1	21.5	20.9	21.0	25.8	25.4	24.9
<b>New Jersey</b> .....	241.4	240.4	241.6	942.8	965.9	975.1	564.6	571.9	575.7
Atlantic City .....	6.8	6.7	6.8	74.0	78.0	79.9	26.0	26.2	26.3
Bergen-Passaic .....	39.0	38.9	39.2	158.9	163.7	164.5	68.5	70.1	70.4
Camden .....	25.2	24.8	25.0	110.6	114.5	116.2	74.3	76.6	77.1
Jersey City .....	16.5	16.1	16.2	48.5	50.9	50.6	39.7	40.4	40.5
Middlesex-Somerset-Hunterdon .....	39.0	38.1	38.4	116.7	117.9	118.5	74.2	77.3	77.6
Monmouth-Ocean .....	19.2	19.7	19.6	95.8	96.0	98.5	64.1	65.1	65.2
Newark .....	79.5	79.9	79.8	258.8	269.1	269.7	140.3	143.4	144.7
Trenton .....	10.5	10.5	10.6	59.7	59.9	60.2	56.3	57.3	57.2
Vineland-Millville-Bridgeton .....	3.7	3.9	3.9	10.2	10.3	10.4	11.6	11.9	12.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>New Mexico</b> .....	558.3	565.6	567.5	14.1	14.6	14.6	31.0	27.7	27.6
Albuquerque .....	239.9	242.5	242.9	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	13.5	12.5	12.3
Las Cruces .....	42.7	44.4	44.8	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	2.5	2.4	2.5
Santa Fe .....	55.3	57.3	57.8	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	2.6	2.5	2.5
<b>New York</b> .....	8,236.2	8,258.1	8,289.6	5.7	5.2	5.7	324.5	301.7	310.3
Albany-Schenectady-Troy .....	423.7	430.4	434.7	.6	.5	.6	19.1	18.3	20.0
Binghamton .....	121.2	119.6	119.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	4.7	5.0
Buffalo .....	456.8	461.6	462.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.0	14.7	15.8
Elmira .....	41.2	41.6	41.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.4	1.5
Glens Falls .....	46.6	46.4	47.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.4	2.6
Nassau-Suffolk .....	1,143.0	1,138.4	1,143.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	58.4	53.8	54.6
New York PMSA .....	4,145.1	4,153.4	4,156.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	150.4	144.5	146.3
New York City .....	3,617.5	3,622.2	3,622.7	.4	.3	.4	118.9	114.8	115.2
Niagara Falls .....	83.1	84.3	85.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.0	3.5
Orange County .....	107.2	107.3	108.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	4.4	4.7
Poughkeepsie .....	120.5	120.4	120.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	5.9	6.4
Rochester .....	486.6	485.2	489.8	.7	.6	.6	17.6	17.2	18.7
Rockland County .....	101.6	101.9	102.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	4.7	5.0
Syracuse .....	308.9	311.8	314.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	14.3	15.1
Ulica-Rome .....	125.9	127.3	128.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	3.1	3.5
Westchester County .....	407.2	410.6	412.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.2	23.0	24.1
<b>North Carolina</b> .....	3,051.7	3,097.3	3,105.6	4.9	5.0	5.0	159.4	160.1	161.3
Asheville .....	83.7	87.2	88.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.4	4.4
Charlotte-Gastonia-Rock Hill .....	611.0	628.7	630.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	35.6	36.3	36.6
Greensboro-Winston-Salem-High Point .....	489.6	486.6	486.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.2	24.6	24.6
Raleigh-Durham .....	418.8	428.4	429.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.3	21.4	21.5
<b>North Dakota</b> .....	257.9	260.4	263.2	3.8	3.7	3.8	8.1	7.5	8.3
Bismarck .....	38.8	39.2	39.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.4	1.6
Fargo-Moorhead .....	74.2	76.0	76.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	3.0	3.3
Grand Forks .....	31.0	31.9	32.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.0	1.1
<b>Ohio</b> .....	4,777.0	4,834.5	4,890.7	17.8	17.5	17.7	181.5	174.7	188.3
Akron .....	281.2	285.4	289.5	.5	.6	.6	9.5	8.7	10.0
Canton .....	163.0	163.3	165.4	.7	.7	.8	6.7	6.3	7.2
Cincinnati .....	717.9	735.1	745.2	.4	.4	.4	33.0	32.5	34.8
Cleveland .....	922.0	936.0	947.5	.8	.9	.9	31.0	29.3	32.0
Columbus .....	695.7	709.1	719.0	.8	.8	.8	28.3	27.0	29.0
Dayton-Springfield .....	446.8	452.1	456.0	.4	.4	.4	17.0	16.2	17.3
Toledo .....	293.0	292.7	296.6	.2	.2	.2	11.4	10.8	11.9
Youngstown-Warren .....	197.0	198.2	200.9	.4	.5	.5	7.3	6.6	7.5
<b>Oklahoma</b> .....	1,154.1	1,166.4	1,168.3	43.2	43.3	44.3	34.9	35.2	36.0
Enid .....	21.4	21.6	21.5	1.0	.9	.9	.6	.6	.6
Lawton .....	34.5	35.0	34.8	.2	.2	.2	1.2	.9	.9
Oklahoma City .....	420.3	431.0	431.5	10.8	10.9	10.6	11.2	12.1	12.3
Tulsa .....	301.9	312.2	312.4	12.5	12.3	12.2	10.2	11.1	10.9
<b>Oregon</b> .....	1,187.2	1,225.4	1,238.0	1.3	1.3	1.3	43.3	45.4	49.3
Eugene-Springfield .....	113.4	118.4	119.6	.2	.2	.2	3.7	3.8	4.0
Portland .....	606.3	625.7	630.9	.4	.4	.4	24.4	25.5	26.8
Salem .....	101.6	103.8	104.5	.1	.1	.1	3.8	3.8	4.1
<b>Pennsylvania</b> .....	5,111.3	5,106.5	5,136.0	27.4	27.2	27.4	227.1	216.7	226.3
Allentown-Bethlehem .....	281.1	281.1	282.2	.6	.5	.6	13.6	12.4	12.7
Altoona .....	51.8	52.0	52.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.3	2.4
Beaver County .....	49.0	49.0	49.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.3	2.3
Erie .....	116.5	118.4	118.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.4	3.7
Harrisburg-Lebanon-Carlisle .....	308.4	312.5	315.2	.4	.4	.4	13.7	13.5	14.7
Johnstown .....	79.7	80.3	80.3	2.6	2.6	2.6	2.7	2.4	2.6
Lancaster .....	188.6	188.5	189.8	.4	.4	.4	11.8	11.5	12.0
Philadelphia PMSA .....	2,200.9	2,187.3	2,190.3	1.1	1.0	1.1	104.5	96.2	100.5
Philadelphia City .....	766.4	763.9	761.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.3	16.1	17.0
Pittsburgh .....	891.1	903.1	908.7	4.5	4.5	4.5	39.8	37.2	38.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>New Mexico</b> .....	41.3	42.4	42.5	29.1	28.7	28.7	132.1	132.8	133.4
Albuquerque .....	21.3	20.9	21.0	12.6	12.6	12.5	59.5	60.3	60.5
Las Cruces .....	3.5	3.5	3.5	1.5	1.6	1.5	8.8	9.0	9.2
Santa Fe .....	1.6	1.7	1.7	.9	1.0	1.0	10.6	10.7	11.0
<b>New York</b> .....	1,193.3	1,169.8	1,164.4	414.9	420.3	422.0	1,708.3	1,709.0	1,711.8
Albany-Schenectady-Troy .....	46.6	46.9	47.1	17.2	17.3	17.4	90.2	92.4	92.7
Binghamton .....	36.5	34.6	33.9	4.4	4.5	4.5	25.1	25.1	25.2
Buffalo .....	77.2	76.9	76.7	22.0	21.8	22.0	115.0	117.1	117.4
Elmira .....	9.1	8.6	8.5	1.4	1.4	1.4	10.6	10.6	10.7
Glens Falls .....	10.5	10.1	10.0	1.5	1.6	1.6	11.0	11.4	11.5
Nassau-Suffolk .....	163.1	157.4	156.2	49.8	51.1	50.7	297.7	295.6	296.6
New York PMSA .....	437.8	431.2	428.0	243.5	245.9	245.2	748.1	746.6	745.1
New York City .....	362.2	355.1	352.2	217.9	220.4	219.7	628.0	625.3	624.2
Niagara Falls .....	23.9	23.8	23.9	3.8	3.8	3.9	19.8	20.3	20.5
Orange County .....	15.0	13.2	13.4	6.4	6.8	6.7	29.4	29.5	29.5
Poughkeepsie .....	30.0	30.1	29.0	3.7	3.7	3.7	21.8	21.9	22.1
Rochester .....	138.6	131.5	131.2	15.1	15.4	15.5	103.4	106.2	108.1
Rockland County .....	15.0	14.6	14.6	4.8	5.2	5.2	23.0	23.3	23.2
Syracuse .....	53.2	52.5	52.8	18.6	19.1	19.2	74.1	75.2	75.8
Utica-Rome .....	24.8	23.7	23.9	4.3	4.4	4.4	27.2	27.4	27.9
Westchester County .....	58.5	59.4	59.1	20.1	19.7	19.7	92.8	93.7	93.3
<b>North Carolina</b> .....	866.1	857.6	854.2	149.7	153.4	153.9	702.6	720.9	726.5
Asheville .....	19.6	20.1	20.1	4.1	4.3	4.3	20.2	21.7	22.0
Charlotte-Gastonia-Rock Hill .....	154.0	153.4	153.0	49.1	50.2	50.3	152.1	156.2	157.3
Greensboro-Winston-Salem-High Point .....	152.4	147.2	146.7	26.4	26.1	25.9	111.6	111.7	111.5
Raleigh-Durham .....	61.8	63.2	63.2	19.6	21.2	21.0	89.3	91.1	91.1
<b>North Dakota</b> .....	16.0	17.2	16.8	16.7	16.7	16.8	69.1	68.6	69.9
Bismarck .....	2.1	2.2	2.2	2.7	2.9	3.0	10.3	10.2	10.3
Fargo-Moorhead .....	5.1	5.6	5.5	4.7	4.6	4.7	21.5	21.2	21.5
Grand Forks .....	1.7	1.6	1.6	1.6	1.7	1.7	8.7	9.3	9.4
<b>Ohio</b> .....	1,121.2	1,114.8	1,117.6	212.8	215.0	216.4	1,146.4	1,174.3	1,191.4
Akron .....	67.7	67.6	67.6	13.0	13.3	13.4	69.8	71.0	72.3
Canton .....	46.0	44.8	44.0	5.5	5.5	5.6	40.3	40.9	41.9
Cincinnati .....	144.8	148.3	147.9	38.7	40.3	40.6	185.5	193.9	197.7
Cleveland .....	206.0	206.1	206.5	41.3	42.0	42.6	220.8	225.5	229.1
Columbus .....	103.7	104.2	104.6	30.4	30.8	31.2	176.8	182.1	185.5
Dayton-Springfield .....	104.7	104.1	104.0	17.3	18.0	18.1	99.5	100.7	102.6
Toledo .....	62.6	59.0	59.4	13.8	14.3	14.4	72.9	74.3	75.5
Youngstown-Warren .....	50.7	49.3	49.5	7.7	7.7	7.8	52.0	53.4	54.6
<b>Oklahoma</b> .....	162.3	164.8	164.5	64.5	65.6	65.9	274.6	277.3	280.3
Enid .....	1.6	1.5	1.5	2.1	2.2	2.1	6.3	6.2	6.2
Lawton .....	3.4	3.4	3.4	1.9	1.7	1.7	8.4	8.6	8.7
Oklahoma City .....	48.8	48.8	48.5	20.8	20.9	20.9	103.1	103.2	103.7
Tulsa .....	52.1	53.7	53.7	23.8	24.8	24.7	71.6	73.7	74.4
<b>Oregon</b> .....	209.7	214.1	213.6	61.8	64.0	64.0	299.1	312.4	315.8
Eugene-Springfield .....	20.9	20.6	20.4	4.4	4.5	4.5	28.4	29.8	30.4
Portland .....	99.4	101.7	101.8	36.8	37.5	37.6	159.3	165.5	166.7
Salem .....	13.5	13.9	14.0	2.8	2.8	2.8	22.8	23.2	23.4
<b>Pennsylvania</b> .....	1,051.3	1,028.8	1,028.0	256.6	252.7	252.9	1,167.3	1,166.1	1,171.6
Allentown-Bethlehem .....	75.6	74.7	74.2	14.4	13.8	13.8	61.7	62.2	62.4
Altoona .....	10.3	10.2	10.3	4.6	4.5	4.5	13.9	14.1	14.0
Beaver County .....	9.0	8.9	8.9	5.1	5.1	5.0	11.5	11.5	11.5
Erie .....	35.5	36.4	36.4	4.4	4.3	4.3	25.3	25.1	25.3
Harrisburg-Lebanon-Carlisle .....	51.1	50.1	50.6	19.4	19.0	19.1	70.8	71.9	72.0
Johnstown .....	14.6	14.6	14.7	5.2	5.1	5.2	17.0	17.1	17.0
Lancaster .....	59.0	58.2	57.7	7.7	7.3	7.5	46.0	46.3	46.7
Philadelphia PMSA .....	365.1	357.5	355.9	100.8	98.8	98.4	512.4	506.3	505.2
Philadelphia City .....	87.7	84.5	83.5	42.4	41.1	41.0	147.2	146.0	145.9
Pittsburgh .....	123.2	122.9	122.5	48.0	49.4	49.3	223.7	223.9	225.0

See footnotes at end of table.



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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>New Mexico</b> .....	26.1	26.6	26.7	137.5	140.7	141.0	147.1	152.1	153.0
Albuquerque .....	14.3	14.3	14.4	70.0	71.6	71.8	48.6	50.2	50.3
Las Cruces .....	1.6	1.7	1.7	7.4	7.9	7.9	17.3	18.2	18.4
Santa Fe .....	2.1	2.1	2.1	14.6	15.2	15.3	22.8	24.0	24.1
<b>New York</b> .....	789.8	783.8	785.5	2,335.0	2,384.3	2,400.4	1,464.6	1,484.0	1,489.5
Albany-Schenectady-Troy .....	24.3	24.9	25.1	112.1	114.3	115.0	113.7	115.9	116.8
Binghamton .....	4.2	4.1	4.1	24.4	24.5	24.6	21.6	22.1	22.2
Buffalo .....	28.2	28.5	28.4	121.5	125.8	126.0	75.7	76.8	76.5
Elmira .....	1.4	1.4	1.4	10.1	10.8	10.8	7.0	7.4	7.4
Glens Falls .....	1.7	1.6	1.6	10.2	9.9	10.0	9.4	9.4	9.5
Nassau-Suffolk .....	82.5	83.7	84.1	303.0	306.5	310.5	188.6	190.3	190.7
New York PMSA .....	565.5	557.5	555.3	1,308.5	1,330.7	1,336.6	691.4	697.0	700.0
New York City .....	529.2	521.0	518.8	1,152.9	1,172.4	1,176.3	608.1	612.9	616.0
Niagara Falls .....	2.0	2.0	2.0	17.6	18.1	18.3	12.6	13.3	12.9
Orange County .....	4.6	4.8	4.8	23.3	23.9	24.2	23.5	24.7	24.8
Poughkeepsie .....	4.8	4.8	4.9	28.7	28.6	29.2	25.0	25.4	25.5
Rochester .....	22.7	23.0	23.0	120.9	123.2	124.0	67.6	68.2	68.5
Rockland County .....	5.4	5.4	5.4	26.5	27.0	27.1	21.6	21.7	21.9
Syracuse .....	19.8	19.9	20.0	75.8	77.5	77.9	53.1	53.4	53.7
Utica-Rome .....	7.3	7.5	7.6	27.5	28.3	28.2	31.2	32.9	32.6
Westchester County .....	30.2	30.4	30.4	123.8	126.3	128.0	57.7	58.2	58.1
<b>North Carolina</b> .....	130.9	132.0	132.3	553.1	576.3	578.6	485.0	492.0	493.8
Asheville .....	2.8	2.9	2.9	19.8	20.5	20.7	12.7	13.3	13.7
Charlotte-Gastonia-Rock Hill .....	37.6	38.4	38.4	114.1	121.0	121.4	68.5	73.2	73.4
Greensboro-Winston-Salem-High Point .....	23.6	23.5	23.7	96.5	97.7	97.9	54.9	55.8	55.9
Raleigh-Durham .....	23.3	23.9	23.8	107.9	111.0	111.5	95.6	96.6	97.4
<b>North Dakota</b> .....	12.2	12.4	12.5	65.5	67.3	67.9	66.5	67.0	67.2
Bismarck .....	1.5	1.5	1.5	11.7	11.9	12.1	9.0	9.1	9.0
Fargo-Moorhead .....	4.4	4.5	4.5	20.9	21.8	22.0	14.7	15.3	15.0
Grand Forks .....	1.1	1.2	1.2	7.1	7.0	7.1	9.6	10.1	9.9
<b>Ohio</b> .....	249.4	255.0	255.8	1,131.3	1,147.7	1,167.7	716.6	735.5	735.7
Akron .....	10.3	10.5	10.5	64.4	66.9	68.4	45.9	47.0	46.7
Canton .....	6.8	6.8	6.8	37.8	38.4	39.4	19.1	19.8	19.9
Cincinnati .....	42.5	42.4	42.7	180.9	183.9	187.3	92.0	93.4	93.8
Cleveland .....	56.2	57.3	57.4	249.8	253.6	257.7	116.0	121.3	121.3
Columbus .....	59.0	60.3	60.4	169.6	174.4	177.6	127.0	129.4	129.9
Dayton-Springfield .....	17.5	17.7	17.6	113.4	115.9	117.2	77.1	79.1	78.7
Toledo .....	12.0	11.9	12.0	74.9	76.3	77.5	45.2	45.8	45.6
Youngstown-Warren .....	8.5	8.7	8.8	45.8	46.8	47.5	24.5	25.4	24.7
<b>Oklahoma</b> .....	58.2	55.7	55.6	256.5	263.3	262.6	259.9	261.2	259.1
Enid .....	.9	.9	.9	5.2	5.4	5.4	3.7	3.9	3.9
Lawton .....	1.6	1.7	1.8	6.1	6.2	6.1	11.7	12.3	12.0
Oklahoma City .....	24.4	24.1	24.0	102.1	106.6	107.8	99.1	104.4	103.7
Tulsa .....	16.4	17.6	17.5	78.2	81.8	81.8	37.1	37.2	37.2
<b>Oregon</b> .....	74.7	75.6	75.6	278.7	287.9	290.4	218.6	224.7	228.0
Eugene-Springfield .....	5.4	5.8	5.8	26.7	28.8	29.0	23.7	24.9	25.3
Portland .....	49.2	49.9	50.1	154.3	159.4	160.6	82.5	85.8	86.9
Salem .....	5.2	5.4	5.3	21.9	22.4	22.7	31.5	32.2	32.1
<b>Pennsylvania</b> .....	294.5	295.8	295.8	1,377.6	1,398.8	1,409.4	709.5	720.4	724.6
Allentown-Bethlehem .....	14.3	14.4	14.4	70.0	70.9	71.9	30.9	32.2	32.2
Alltoona .....	1.9	1.9	1.9	11.4	11.7	11.9	7.3	7.3	7.5
Beaver County .....	1.7	1.6	1.6	11.4	11.6	11.9	8.0	8.0	8.1
Erie .....	5.5	5.5	5.6	28.1	29.2	29.2	14.3	14.5	14.3
Harrisburg-Lebanon-Carlisle .....	19.5	21.3	21.4	66.7	68.0	68.8	68.8	68.3	68.2
Johnstown .....	4.5	4.4	4.4	20.3	21.2	20.8	12.8	12.9	13.0
Lancaster .....	7.3	7.3	7.3	39.8	40.5	41.2	16.6	17.0	17.0
Philadelphia PMSA .....	160.0	158.9	158.8	651.0	659.5	661.2	306.0	309.1	309.2
Philadelphia City .....	70.1	69.3	69.1	259.8	263.6	261.6	141.9	143.3	142.9
Pittsburgh .....	52.8	55.0	55.1	291.4	299.2	302.3	107.7	111.0	111.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	153.3	155.1	156.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.1	7.1	7.2
Scranton—Wilkes-Barre .....	304.2	306.2	308.6	0.6	0.6	0.6	14.0	13.0	14.1
Sharon .....	43.4	43.2	43.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.4
State College .....	59.4	60.7	61.8	.4	.3	.3	2.7	2.9	3.4
Williamsport .....	51.6	52.0	52.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.4	2.6
York .....	179.7	180.1	181.4	.5	.4	.4	10.3	10.5	11.0
<b>Rhode Island</b> .....	460.8	455.5	457.5	.1	.1	.1	20.0	17.8	18.7
Pawtucket—Woonsocket—Attleboro .....	131.2	132.4	132.4	.2	.2	.2	5.2	4.5	4.7
Providence .....	325.3	328.8	329.4	.1	.1	.1	14.6	14.1	14.7
<b>South Carolina</b> .....	1,493.4	1,534.0	1,544.7	1.8	1.8	1.8	89.0	100.0	100.5
Charleston .....	197.8	202.5	204.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.0	14.7	14.9
Columbia .....	241.2	240.2	241.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.7	14.6	14.7
Greenville—Spartanburg .....	329.2	338.1	339.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.3	23.2	23.3
<b>South Dakota</b> .....	271.3	272.9	277.3	2.6	2.6	2.7	9.0	8.1	9.4
Rapid City .....	35.2	36.2	36.7	.2	.3	.3	1.7	1.6	1.7
Sioux Falls .....	69.5	71.3	71.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	2.6	3.1
<b>Tennessee</b> .....	2,139.3	2,164.7	2,173.7	6.4	6.3	6.4	94.5	94.3	97.4
Chattanooga .....	195.4	196.3	197.1	.7	.7	.7	7.5	7.9	8.0
Johnson City—Kingsport—Bristol .....	167.4	170.4	171.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	7.7	8.0
Knoxville .....	262.8	261.5	263.2	1.8	1.9	1.9	14.5	14.7	14.4
Memphis .....	460.9	463.5	466.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.1	19.1	19.2
Nashville .....	495.9	494.6	495.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.2	23.9	24.7
<b>Texas</b> .....	6,791.0	6,892.5	6,918.5	173.9	175.2	175.2	314.2	313.8	316.5
Abilene .....	48.9	48.8	48.6	1.5	1.4	1.4	1.6	1.4	1.4
Amarillo .....	76.9	75.6	77.3	1.3	1.1	1.1	3.4	3.1	3.3
Austin .....	363.2	368.3	368.7	.6	.6	.6	11.3	10.7	10.9
Beaumont—Port Arthur .....	134.6	137.3	138.1	1.4	1.6	1.6	9.7	10.2	10.2
Brazoria .....	62.4	63.6	64.2	2.1	2.0	2.0	8.6	8.7	9.2
Brownsville—Harlingen .....	73.4	76.4	76.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.1	2.1
Bryan—College Station .....	52.8	54.2	54.4	.5	.5	.5	1.8	1.6	1.5
Corpus Christi .....	126.6	129.4	130.0	3.5	3.4	3.5	8.2	10.5	10.8
Dallas .....	1,341.9	1,354.4	1,358.0	17.7	17.3	17.2	46.7	43.6	44.5
El Paso .....	200.9	207.1	206.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9	8.3	8.4
Ft. Worth—Arlington .....	560.4	572.6	574.6	4.0	4.0	3.9	21.1	20.7	20.9
Galveston—Texas City .....	75.5	74.5	75.3	.5	.5	.6	7.3	6.5	6.7
Houston .....	1,488.5	1,532.4	1,536.9	65.1	67.4	67.8	93.1	98.3	98.7
Killeen—Temple .....	72.3	74.1	74.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.2	3.2
Laredo .....	41.3	43.6	43.7	1.6	1.6	1.6	1.2	1.2	1.2
Longview—Marshall .....	66.7	69.0	68.9	3.4	3.4	3.4	3.1	3.6	3.5
Lubbock .....	94.5	96.2	96.3	.3	.3	.3	2.9	2.9	2.9
McAllen—Edinburg—Mission .....	98.1	98.9	99.6	.9	.9	.9	4.2	4.4	4.4
Midland .....	44.7	44.4	44.8	8.8	8.5	8.6	1.4	1.4	1.3
Odessa .....	42.6	42.7	42.4	5.0	5.1	5.0	2.0	2.0	1.9
San Angelo .....	37.4	38.2	36.0	.5	.6	.6	1.3	1.1	1.1
San Antonio .....	515.5	515.4	517.4	2.2	2.2	2.1	22.1	20.1	20.3
Sherman—Denison .....	36.9	36.8	37.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.6
Texarkana .....	45.9	47.1	47.0	.1	.1	.1	1.6	1.4	1.5
Tyler .....	61.6	61.8	62.1	1.6	1.7	1.7	1.7	1.6	1.7
Victoria .....	27.4	28.0	28.4	1.3	1.3	1.3	1.5	1.7	1.8
Waco .....	80.4	82.2	82.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	2.8	2.9
Wichita Falls .....	50.5	50.6	50.4	1.5	1.4	1.4	1.8	1.5	1.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	47.6	46.8	47.1	6.6	6.7	6.7	33.8	34.5	34.6
Scranton-Wilkes-Barre .....	71.8	70.5	70.9	16.0	16.3	16.4	71.6	72.5	73.1
Sharon .....	11.6	11.3	11.3	2.0	1.9	1.9	10.4	10.5	10.5
State College .....	8.2	8.3	8.2	1.6	1.6	1.6	11.3	11.6	11.6
Williamsport .....	16.2	15.8	15.8	1.7	1.8	1.9	11.3	11.8	11.8
York .....	61.2	58.9	58.6	7.6	7.3	7.4	43.1	44.6	44.9
<b>Rhode Island</b> .....	108.9	106.4	105.1	15.4	15.1	15.3	105.9	105.7	106.2
Pawtucket-Woonsocket-Attleboro .....	49.3	49.0	48.5	3.8	3.9	3.9	32.7	34.6	34.5
Providence .....	69.7	69.1	68.2	11.8	11.4	11.6	71.6	72.7	72.8
<b>South Carolina</b> .....	389.3	388.7	389.4	62.8	64.4	64.4	334.1	341.0	345.7
Charleston .....	20.9	20.8	20.9	10.0	10.4	10.3	48.9	50.5	51.9
Columbia .....	29.1	28.9	28.7	10.8	10.9	11.0	53.7	53.8	54.3
Greenville-Spartanburg .....	103.9	101.8	101.8	12.9	13.3	13.3	76.1	78.8	79.3
<b>South Dakota</b> .....	31.6	31.6	31.9	13.6	13.1	13.3	71.6	71.4	73.7
Rapid City .....	3.5	3.8	3.8	2.0	1.9	2.0	10.2	10.3	10.6
Sioux Falls .....	8.5	8.4	8.5	5.2	5.2	5.2	19.4	19.9	19.7
<b>Tennessee</b> .....	522.5	522.9	522.2	114.7	114.1	114.6	500.3	503.1	506.7
Chattanooga .....	47.6	46.9	47.1	8.1	7.8	7.9	47.1	45.2	45.4
Johnson City-Kingsport-Bristol .....	53.4	54.2	54.2	6.2	6.2	6.2	38.3	38.2	38.6
Knoxville .....	52.2	50.6	49.8	10.9	10.4	10.6	67.6	66.6	67.6
Memphis .....	61.8	61.6	61.9	46.9	46.8	46.7	123.6	124.7	125.6
Nashville .....	90.2	90.2	90.1	27.0	26.8	26.8	121.2	116.7	116.7
<b>Texas</b> .....	966.8	964.0	963.4	397.4	408.6	413.3	1,674.6	1,681.4	1,689.7
Abilene .....	4.8	5.0	5.0	2.6	2.6	2.6	13.1	13.1	13.0
Amarillo .....	9.1	9.1	9.0	5.5	5.5	5.6	22.3	21.1	21.7
Austin .....	43.3	45.2	45.2	11.0	11.3	11.2	77.6	77.3	77.5
Beaumont-Port Arthur .....	24.4	24.9	24.8	9.6	9.5	9.9	32.0	32.2	32.4
Brazoria .....	15.9	16.1	16.3	2.5	2.6	2.5	11.3	11.6	11.6
Brownsville-Harlingen .....	10.5	11.0	10.8	3.1	3.2	3.3	19.8	20.5	20.5
Bryan-College Station .....	3.5	3.7	3.7	1.3	1.4	1.4	11.8	11.5	12.0
Corpus Christi .....	11.7	11.7	11.7	6.7	6.7	6.7	31.7	31.7	32.2
Dallas .....	223.8	220.9	220.9	76.8	79.9	80.2	342.9	353.3	353.9
El Paso .....	40.4	40.1	39.7	10.5	10.4	10.5	49.9	51.9	51.8
Ft. Worth-Arlington .....	119.4	121.0	121.5	50.6	54.7	55.0	143.5	144.0	144.5
Galveston-Texas City .....	8.7	9.0	9.0	4.6	4.9	4.9	14.0	13.8	14.1
Houston .....	160.7	162.9	162.8	104.8	106.6	106.3	363.1	366.0	367.2
Killeen-Temple .....	8.5	8.7	8.8	2.6	2.6	2.7	16.4	16.4	16.5
Laredo .....	1.7	1.8	1.8	5.5	6.2	6.1	12.9	13.9	14.0
Longview-Marshall .....	16.0	16.5	16.4	3.3	3.4	3.4	16.8	16.9	16.9
Lubbock .....	7.3	7.3	7.2	5.0	5.8	5.8	27.3	27.4	27.4
McAllen-Edinburg-Mission .....	13.0	12.2	12.4	3.1	2.9	2.9	30.9	30.9	31.4
Midland .....	2.3	2.3	2.3	2.3	2.3	2.3	10.7	10.8	11.0
Odessa .....	4.1	4.1	4.1	1.9	1.9	1.9	12.5	12.5	12.5
San Angelo .....	5.5	5.1	5.1	2.9	2.6	2.6	9.2	8.8	8.8
San Antonio .....	48.4	47.4	47.6	19.4	19.7	19.6	130.3	129.4	130.2
Sherman-Denison .....	10.8	10.8	10.8	1.7	1.4	1.4	7.9	7.9	8.0
Texarkana .....	7.1	7.1	7.1	2.3	2.4	2.3	10.6	10.7	10.8
Tyler .....	10.9	10.7	10.8	2.5	2.8	2.8	16.3	16.2	16.3
Victoria .....	3.4	3.0	3.1	1.3	1.2	1.3	7.4	7.5	7.6
Waco .....	15.2	16.2	16.1	3.4	3.5	3.5	18.3	18.5	18.8
Wichita Falls .....	8.5	8.3	8.2	2.6	2.6	2.6	11.5	11.8	11.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	8.6	8.9	8.7	31.8	32.5	32.9	17.8	18.6	18.9
Scranton-Wilkes-Barre .....	12.9	13.3	13.3	75.0	77.0	76.8	42.3	43.0	43.4
Sharon .....	1.3	1.4	1.4	11.7	11.7	11.9	5.1	5.1	5.1
State College .....	1.8	1.8	1.9	10.3	10.8	10.9	23.1	23.4	23.9
Williamsport .....	2.4	2.4	2.4	10.4	10.7	10.7	7.2	7.1	7.3
York .....	5.0	5.1	5.1	33.1	34.2	34.7	18.9	19.1	19.3
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	26.7	26.7	26.8	124.3	124.4	125.8	59.5	59.3	59.5
Providence .....	3.8	4.0	4.0	26.0	26.1	26.5	10.2	10.1	10.1
	21.9	21.7	21.7	91.4	94.3	94.9	44.2	45.4	45.4
<b>South Carolina</b>									
Charleston .....	67.5	69.9	70.9	274.9	282.8	286.0	274.0	285.4	286.0
Columbia .....	8.6	8.6	8.8	42.5	43.4	44.3	53.9	54.1	53.8
Greenville-Spartanburg .....	18.4	18.2	18.4	47.6	46.9	47.4	66.9	66.9	67.3
	12.1	12.3	12.3	60.8	65.6	66.2	41.1	43.1	43.1
<b>South Dakota</b>									
Rapid City .....	15.1	16.2	16.2	65.8	66.8	67.2	61.8	63.1	62.9
Sioux Falls .....	1.6	1.6	1.5	9.1	9.3	9.4	7.1	7.4	7.4
	7.0	7.7	7.6	18.8	19.5	19.5	7.7	8.0	8.2
<b>Tennessee</b>									
Chattanooga .....	103.3	103.2	103.1	461.1	473.5	476.6	336.5	347.2	346.7
Johnson City-Kingsport-Bristol .....	12.5	13.0	13.1	38.4	40.6	40.7	33.4	34.2	34.2
Knoxville .....	5.4	5.3	5.3	32.0	32.4	33.1	24.8	26.4	26.4
Memphis .....	10.0	9.7	9.8	55.4	56.1	57.4	50.3	51.5	51.7
Nashville .....	25.7	26.2	26.2	107.3	109.0	110.1	76.5	76.1	77.0
	32.6	32.3	32.1	130.8	134.5	134.9	69.9	70.2	70.0
<b>Texas</b>									
Abilene .....	431.6	432.2	432.2	1,602.3	1,649.7	1,653.9	1,230.2	1,267.6	1,274.3
Amarillo .....	2.3	2.2	2.2	13.9	14.2	14.1	9.1	8.9	8.9
Austin .....	4.2	3.9	3.9	16.8	17.3	17.3	14.3	14.5	15.4
Beaumont-Port Arthur .....	23.5	23.7	23.7	89.6	91.8	91.8	106.3	107.7	107.8
Brazoria .....	5.3	5.3	5.3	31.2	32.3	32.6	21.0	21.3	21.3
Brownsville-Harlingen .....	1.8	1.8	1.8	8.7	9.0	9.1	11.5	11.8	11.7
Bryan-College Station .....	3.7	3.9	3.8	17.1	18.1	18.1	17.2	17.6	17.6
Corpus Christi .....	1.7	1.8	1.7	9.2	9.3	9.1	23.0	24.4	24.5
Dallas .....	6.4	6.4	6.3	30.0	30.5	30.4	28.4	28.5	28.4
El Paso .....	129.1	129.3	129.7	347.3	347.9	349.1	157.6	162.2	162.5
Ft. Worth-Arlington .....	8.6	8.3	8.3	41.4	42.8	42.8	42.2	45.3	45.0
Galveston-Texas City .....	27.8	27.5	27.8	122.8	126.2	126.6	71.2	74.5	74.4
Houston .....	4.6	4.4	4.4	13.7	13.7	13.9	22.1	21.7	21.7
Killeen-Temple .....	100.9	101.7	101.4	405.4	426.0	428.1	195.4	203.5	204.6
Laredo .....	2.9	3.2	3.2	16.9	17.3	17.5	21.7	22.7	22.7
Longview-Marshall .....	1.7	1.9	1.9	7.0	7.3	7.3	9.7	9.7	9.8
Lubbock .....	2.7	2.7	2.7	12.5	13.6	13.7	8.9	8.9	8.9
McAllen-Edinburg-Mission .....	5.2	5.4	5.4	24.1	23.7	23.9	22.4	23.4	23.4
Midland .....	4.0	4.2	4.3	16.2	16.7	16.7	25.8	26.7	26.6
Odessa .....	2.4	2.4	2.4	9.8	9.4	9.6	7.0	7.3	7.3
San Angelo .....	1.6	1.5	1.5	7.6	7.6	7.6	7.9	8.0	7.9
San Antonio .....	1.7	1.6	1.6	9.1	8.8	8.6	7.2	7.6	7.6
Sherman-Denison .....	40.4	41.4	41.2	132.2	133.4	134.4	120.5	121.8	122.0
Texarkana .....	1.9	1.9	1.9	8.5	8.8	8.9	4.5	4.3	4.4
Tyler .....	1.8	1.8	1.8	10.0	10.7	10.7	12.4	12.9	12.7
Victoria .....	3.4	3.5	3.5	14.9	15.2	15.3	10.3	10.1	10.0
Waco .....	1.6	1.5	1.5	6.0	5.8	5.9	4.9	6.0	5.9
Wichita Falls .....	5.0	5.1	5.1	22.3	22.8	22.9	13.1	13.3	13.3
	2.3	2.4	2.4	12.4	12.7	12.7	9.9	9.9	9.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Utah</b> .....	682.6	708.2	715.5	7.8	8.4	8.6	24.8	23.8	25.5
Provo-Orem .....	86.1	91.0	91.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.4	2.6
Salt Lake City-Ogden .....	468.4	483.4	488.6	2.5	2.7	2.7	17.3	17.7	18.7
<b>Vermont</b> .....	257.2	260.0	254.5	.5	.5	.5	16.7	15.2	15.5
Barre-Montpelier .....	34.2	34.7	33.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.5	2.5
Burlington .....	80.5	81.0	81.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	4.6	4.7
<b>Virginia</b> .....	2,837.6	2,897.6	2,918.7	14.3	15.9	16.2	194.3	189.9	194.6
Bristol .....	33.2	33.8	33.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.0	1.0
Charlottesville .....	70.8	78.0	78.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.2	4.3
Danville .....	41.8	42.5	42.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.1	2.2
Lynchburg .....	76.4	77.3	77.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.4	3.5
Norfolk-Virginia Beach-Newport News .....	574.7	585.7	591.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	36.1	36.7	36.9
Northern Virginia .....	766.3	779.1	782.2	.5	.6	.5	63.1	55.7	56.4
Richmond-Petersburg .....	465.9	473.1	475.2	.8	.8	.8	30.2	30.2	29.9
Roanoke .....	125.2	126.1	126.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	7.2	7.5
<b>Washington</b> .....	2,010.8	2,096.9	2,119.2	3.5	3.7	3.7	100.9	109.1	113.0
Seattle .....	1,034.5	1,084.6	1,090.6	.6	.6	.6	53.0	55.7	56.9
<b>West Virginia</b> .....	611.5	618.5	622.5	34.6	35.4	35.7	23.2	21.7	22.8
Charleston .....	107.4	110.7	111.1	1.9	2.0	2.0	4.2	4.6	4.9
Huntington-Ashland .....	107.9	110.0	111.3	1.4	1.5	1.5	4.4	5.6	5.6
Parkersburg-Marietta .....	60.0	61.7	61.7	.5	.5	.5	2.8	3.3	3.3
Wheeling .....	59.6	61.2	61.0	2.3	2.5	2.5	2.2	1.9	1.9
<b>Wisconsin</b> .....	2,208.8	2,227.2	2,256.8	2.2	1.7	2.1	73.4	74.3	79.3
Appleton-Oshkosh-Neenah .....	154.4	156.5	158.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	6.2	6.8
Eau Claire .....	60.2	59.3	62.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.9
Green Bay .....	99.4	101.8	103.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	4.5	4.9
Janesville-Beloit .....	58.1	58.9	59.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	2.1	2.1
Kenosha .....	39.3	39.5	39.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.3	1.3
La Crosse .....	53.6	53.4	53.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.8
Madison .....	211.1	214.2	217.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	7.2	7.8
Milwaukee .....	738.0	755.4	760.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.7	28.2	27.0
Racine .....	75.7	77.1	77.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.5	2.6
Sheboygan .....	51.1	51.7	52.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.4	1.5
Wausau .....	51.5	53.5	53.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.0	1.9
<b>Wyoming</b> .....	188.8	186.7	189.9	16.6	16.2	16.6	9.7	8.4	9.4
Casper .....	27.4	27.4	27.8	2.1	2.2	2.2	1.6	1.4	1.6
<b>Puerto Rico</b> .....	831.2	840.1	( <sup>2</sup> )	.9	.9	( <sup>2</sup> )	44.2	44.0	( <sup>2</sup> )
Caguas .....	52.8	52.5	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.3	( <sup>2</sup> )
Mayaguez .....	59.8	59.4	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.4	( <sup>2</sup> )
Ponce .....	54.9	58.0	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.2	( <sup>2</sup> )
San Juan .....	512.0	516.8	( <sup>2</sup> )	.5	.5	( <sup>2</sup> )	31.4	32.1	( <sup>2</sup> )
<b>Virgin Islands</b> .....	43.0	41.3	41.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.5	2.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Utah</b> .....	100.8	103.6	104.5	40.3	41.9	42.2	161.3	170.5	171.7
Provo-Orem .....	13.2	13.5	13.0	2.8	2.7	2.8	18.7	20.4	21.1
Salt Lake City-Ogden .....	65.3	66.9	67.2	30.7	31.8	32.0	116.1	120.1	121.3
<b>Vermont</b> .....	48.5	45.7	45.1	10.8	10.5	10.8	60.7	60.8	59.8
Barre-Montpelier .....	4.7	4.9	4.8	.8	.9	.9	7.6	7.4	7.4
Burlington .....	16.6	15.4	15.2	3.4	3.5	3.7	20.0	19.5	19.9
<b>Virginia</b> .....	427.4	423.0	421.5	146.9	153.5	152.8	644.5	652.9	659.1
Bristol .....	10.8	11.0	10.5	1.3	1.3	1.2	8.5	8.8	8.8
Charlottesville .....	9.1	9.1	9.1	2.6	2.7	2.7	14.3	14.9	15.2
Danville .....	16.6	16.4	16.1	1.0	1.1	1.1	9.0	9.1	9.3
Lynchburg .....	23.8	23.7	23.6	2.9	2.8	2.8	17.1	17.0	17.4
Norfolk-Virginia Beach-Newport News .....	68.5	66.7	67.2	26.7	27.5	26.8	140.7	141.6	144.4
Northern Virginia .....	35.2	35.1	35.2	52.3	54.9	54.7	169.6	175.2	175.7
Richmond-Petersburg .....	84.5	63.1	62.7	24.1	24.4	24.2	110.0	110.9	111.1
Roanoke .....	19.6	19.8	19.8	8.0	7.8	7.8	33.8	33.7	34.0
<b>Washington</b> .....	353.6	362.5	363.4	105.3	109.8	110.1	488.9	508.6	516.3
Seattle .....	210.4	220.0	218.5	64.0	68.3	68.5	249.1	259.1	261.2
<b>West Virginia</b> .....	87.3	87.5	87.7	36.5	36.5	36.6	142.9	142.8	144.6
Charleston .....	10.7	11.1	11.0	8.9	9.0	9.1	28.1	28.8	28.7
Huntington-Ashland .....	20.2	20.5	20.4	8.2	7.1	8.2	26.8	27.4	27.5
Parkersburg-Marietta .....	14.0	14.2	14.2	2.5	2.6	2.6	14.8	15.0	15.0
Wheeling .....	7.2	7.3	7.5	3.3	3.5	3.5	16.1	16.9	16.7
<b>Wisconsin</b> .....	550.2	548.6	552.2	99.0	98.4	99.0	519.4	526.1	534.7
Appleton-Oshkosh-Neenah .....	53.3	53.8	53.9	5.2	5.5	5.5	33.1	34.0	34.7
Eau Claire .....	11.5	9.6	10.9	3.4	3.4	3.6	16.5	16.9	17.2
Green Bay .....	23.9	23.9	23.9	7.2	7.1	7.3	25.7	26.2	26.4
Janesville-Beloit .....	18.5	17.6	17.7	2.4	2.3	2.3	13.7	13.4	13.7
Kenosha .....	10.2	9.6	9.6	1.2	1.7	1.7	9.9	10.1	10.4
La Crosse .....	10.3	10.0	10.1	2.3	2.4	2.4	14.6	14.3	14.2
Madison .....	24.6	25.0	25.2	6.9	6.8	6.7	47.5	49.0	49.4
Milwaukee .....	173.9	174.3	173.8	35.8	36.0	36.3	168.6	174.5	175.5
Racine .....	26.5	26.3	26.4	2.3	2.2	2.2	17.3	18.1	18.1
Sheboygan .....	21.5	21.8	21.9	1.5	1.6	1.6	9.4	9.5	9.6
Wausau .....	14.3	15.0	15.0	2.9	3.0	3.0	12.9	13.5	13.8
<b>Wyoming</b> .....	8.3	8.4	8.5	14.2	14.0	14.2	42.5	42.6	43.2
Casper .....	1.5	1.6	1.6	1.6	1.7	1.7	7.7	7.8	7.8
<b>Puerto Rico</b> .....	158.7	159.3	( <sup>?</sup> )	19.1	19.5	( <sup>?</sup> )	149.8	154.0	( <sup>?</sup> )
Caguas .....	15.4	15.1	( <sup>?</sup> )	.4	.4	( <sup>?</sup> )	10.8	11.2	( <sup>?</sup> )
Mayaguez .....	21.6	20.3	( <sup>?</sup> )	.4	.5	( <sup>?</sup> )	8.0	8.4	( <sup>?</sup> )
Ponce .....	10.4	10.7	( <sup>?</sup> )	2.0	2.0	( <sup>?</sup> )	8.8	8.8	( <sup>?</sup> )
San Juan .....	66.4	67.6	( <sup>?</sup> )	14.7	14.4	( <sup>?</sup> )	103.2	105.0	( <sup>?</sup> )
<b>Virgin Islands</b> .....	2.4	2.2	2.3	2.5	2.1	2.1	10.3	10.3	10.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Utah</b> .....	33.2	33.8	33.7	165.2	175.6	177.9	149.2	150.6	151.4
Provo-Orem .....	2.3	2.2	2.3	32.2	35.1	35.2	14.2	14.7	14.7
Salt Lake City-Ogden .....	27.1	27.1	27.3	111.7	118.0	119.1	97.7	99.1	100.3
<b>Vermont</b> .....	12.7	12.9	13.0	63.7	69.1	64.5	43.6	45.3	45.3
Barre-Montpelier .....	3.1	3.1	3.1	7.9	8.1	7.7	7.8	7.8	7.5
Burlington .....	3.9	4.1	4.1	19.0	20.9	20.6	12.5	13.0	12.9
<b>Virginia</b> .....	150.4	154.2	155.1	696.0	719.6	730.2	563.8	588.6	589.2
Bristol .....	1.2	1.2	1.2	5.0	5.1	5.2	5.3	5.4	5.3
Charlottesville .....	4.3	4.6	4.6	13.4	13.9	14.1	22.9	28.6	28.5
Danville .....	1.3	1.3	1.3	6.4	6.8	6.8	5.4	5.7	5.6
Lynchburg .....	3.7	3.7	3.7	15.8	16.8	16.8	9.5	9.9	9.9
Norfolk-Virginia Beach-Newport News .....	25.9	27.0	27.2	144.0	148.9	151.4	132.8	137.3	137.1
Northern Virginia .....	50.7	51.9	51.8	250.6	255.1	256.1	144.3	150.6	151.8
Richmond-Petersburg .....	38.5	39.7	39.7	102.5	105.8	107.9	95.3	98.2	98.9
Roanoke .....	9.1	8.9	9.0	31.3	32.6	32.6	15.6	16.1	16.0
<b>Washington</b> .....	110.2	115.6	115.8	467.5	492.1	496.6	380.9	395.5	400.3
Seattle .....	69.8	72.7	72.8	247.9	261.7	264.4	139.7	146.5	147.7
<b>West Virginia</b> .....	23.9	24.2	24.3	136.5	142.1	143.2	126.6	128.3	127.6
Charleston .....	6.2	6.3	6.3	27.0	28.3	28.6	20.4	20.6	20.5
Huntington-Ashland .....	3.8	3.9	3.9	23.8	24.5	24.7	19.3	19.5	19.5
Parkersburg-Marietta .....	2.1	2.2	2.2	13.7	14.3	14.4	9.6	9.6	9.5
Wheeling .....	2.9	3.0	3.1	16.3	16.6	16.7	9.3	9.5	9.1
<b>Wisconsin</b> .....	116.9	118.8	119.7	504.6	512.9	518.0	343.1	346.3	351.9
Appleton-Oshkosh-Neenah .....	7.4	7.5	7.5	31.2	31.6	31.9	17.7	18.0	18.1
Eau Claire .....	1.9	1.9	1.9	14.0	14.6	15.1	11.2	11.3	11.5
Green Bay .....	3.7	4.2	4.2	23.7	24.5	24.9	11.2	11.4	11.5
Janesville-Beloit .....	1.6	1.6	1.6	13.2	13.8	14.0	7.1	8.1	8.2
Kenosha .....	1.3	1.3	1.2	8.8	9.2	9.0	6.5	6.4	6.5
La Crosse .....	1.6	1.7	1.7	15.2	15.5	15.7	8.0	7.9	8.0
Madison .....	18.5	18.7	18.9	47.2	48.1	48.3	58.7	59.2	60.9
Milwaukee .....	49.9	50.9	51.2	199.9	206.7	208.7	84.8	86.5	87.5
Racine .....	2.3	2.4	2.4	16.9	17.0	17.2	8.2	8.4	8.5
Sheboygan .....	2.6	2.6	2.6	9.1	9.4	9.6	5.3	5.4	5.3
Wausau .....	3.5	3.4	3.4	9.5	10.3	10.4	6.5	6.5	6.5
<b>Wyoming</b> .....	7.3	7.1	7.1	34.3	34.2	34.9	55.9	55.8	56.0
Casper .....	1.5	1.4	1.4	6.2	6.2	6.4	5.2	5.1	5.1
<b>Puerto Rico</b> .....	36.7	36.1	( <sup>2</sup> )	128.3	134.4	( <sup>2</sup> )	293.5	291.9	( <sup>2</sup> )
Caguas .....	1.4	1.3	( <sup>2</sup> )	6.8	6.7	( <sup>2</sup> )	16.5	16.5	( <sup>2</sup> )
Mayaguez .....	1.3	1.3	( <sup>2</sup> )	6.9	7.5	( <sup>2</sup> )	18.9	19.0	( <sup>2</sup> )
Ponce .....	2.0	1.8	( <sup>2</sup> )	10.3	11.1	( <sup>2</sup> )	17.3	19.3	( <sup>2</sup> )
San Juan .....	29.3	29.3	( <sup>2</sup> )	92.4	94.8	( <sup>2</sup> )	174.2	173.1	( <sup>2</sup> )
<b>Virgin Islands</b> .....	2.0	1.9	1.9	9.9	8.7	8.7	13.4	13.6	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 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.29	322.36	42.3	12.75	539.33	37.9	13.01	493.08
1989 .....	34.7	9.66	335.20	42.8	13.14	562.39	37.9	13.37	506.72
Monthly data, not seasonally adjusted									
<b>1989:</b>									
May .....	34.5	\$9.59	\$330.86	42.0	\$13.13	\$551.46	37.7	\$13.28	\$500.66
June .....	34.8	9.58	333.38	42.6	13.03	555.08	38.0	13.24	503.12
July .....	35.1	9.63	338.01	42.5	12.95	550.38	38.9	13.33	518.54
August .....	34.9	9.61	335.39	43.2	13.11	566.35	39.0	13.33	519.87
September .....	34.7	9.77	339.02	43.7	13.15	574.66	38.6	13.48	520.33
October .....	34.8	9.81	341.39	43.9	13.10	575.09	39.2	13.52	529.98
November .....	34.5	9.81	338.45	43.6	13.13	572.47	38.1	13.51	514.73
December .....	34.7	9.84	341.45	43.7	13.31	581.65	37.0	13.64	504.68
<b>1990:</b>									
January .....	34.2	9.88	337.90	43.6	13.31	580.32	37.6	13.42	504.59
February .....	34.3	9.91	339.91	43.2	13.30	574.56	37.2	13.42	499.22
March .....	34.4	9.93	341.59	43.0	13.42	577.06	37.9	13.47	510.51
April <sup>p</sup> .....	34.5	9.96	343.62	43.3	13.52	585.42	37.3	13.38	499.07
May <sup>p</sup> .....	34.5	9.98	344.31	43.4	13.49	585.47	38.2	13.51	516.08

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 nonagricultural payrolls by major industry, 1964 to date—Continued**

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.35	358.11
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.60	365.76
1988 .....	41.1	10.18	9.72	418.40	39.3	12.32	484.18	38.1	9.94	378.71
1989 .....	41.0	10.47	10.01	429.27	39.4	12.57	495.26	38.1	10.38	395.48
<b>Monthly data, not seasonally adjusted</b>										
<b>1989:</b>										
May .....	40.9	\$10.42	\$9.98	\$426.18	39.3	\$12.49	\$490.86	37.9	\$10.28	\$389.61
June .....	41.1	10.44	9.98	429.08	39.6	12.48	494.21	38.1	10.31	392.81
July .....	40.5	10.47	10.02	424.04	39.8	12.58	500.68	38.3	10.40	398.32
August .....	40.8	10.44	9.97	425.95	39.4	12.56	494.86	38.1	10.35	394.34
September .....	41.2	10.55	10.05	434.66	39.4	12.70	500.38	38.1	10.47	398.91
October .....	40.9	10.52	10.04	430.27	39.4	12.69	499.99	38.3	10.50	402.15
November .....	41.1	10.58	10.10	434.84	39.1	12.67	495.40	38.1	10.55	401.96
December .....	41.3	10.67	10.19	440.67	39.3	12.76	501.47	38.2	10.62	405.68
<b>1990:</b>										
January .....	40.6	10.59	10.15	429.95	38.8	12.80	496.64	37.8	10.61	401.06
February .....	40.4	10.66	10.24	430.66	39.0	12.85	501.15	37.8	10.66	402.95
March .....	40.7	10.73	10.28	436.71	39.1	12.82	501.26	37.9	10.65	403.64
April <sup>a</sup> .....	39.8	10.74	10.36	427.45	39.1	12.93	505.56	38.1	10.76	409.96
May <sup>a</sup> .....	40.9	10.82	10.34	442.54	39.3	12.88	506.18	38.0	10.70	406.60

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 nonagricultural payrolls by major industry, 1964 to date—Continued**

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
1987 .....	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
1988 .....	29.1	6.31	183.62	35.9	9.09	326.33	32.6	8.91	290.47
1989 .....	28.9	6.54	189.01	35.9	9.57	343.56	32.6	9.39	306.11
Monthly data, not seasonally adjusted									
<b>1989:</b>									
May .....	28.8	\$6.49	\$186.91	35.6	\$9.48	\$337.49	32.4	\$9.30	\$301.32
June .....	29.2	6.49	189.51	35.8	9.48	339.38	32.7	9.26	302.80
July .....	29.9	6.49	194.05	36.3	9.59	348.12	33.1	9.33	308.82
August .....	29.6	6.50	192.40	35.8	9.50	340.10	32.9	9.29	305.64
September .....	28.9	6.61	191.03	35.7	9.62	343.43	32.6	9.49	309.37
October .....	28.9	6.62	191.32	36.1	9.71	350.53	32.8	9.59	314.55
November .....	28.6	6.64	189.90	35.7	9.69	345.93	32.6	9.61	313.29
December .....	29.2	6.66	194.47	35.7	9.76	348.43	32.5	9.69	314.93
<b>1990:</b>									
January .....	28.1	6.74	189.39	35.7	9.82	350.57	32.4	9.73	315.25
February .....	28.3	6.73	190.46	35.8	9.90	354.42	32.5	9.75	316.88
March .....	28.5	6.76	192.66	35.7	9.87	352.36	32.5	9.75	316.88
April <sup>P</sup> .....	29.0	6.78	196.62	36.2	9.98	361.28	32.7	9.81	320.79
May <sup>P</sup> .....	28.8	6.77	194.98	35.6	9.92	353.15	32.4	9.76	316.22

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

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 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 nonagricultural payrolls by detailed industry**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Total private</b> .....		34.8	34.5	34.4	34.5	34.5	-	-	-	-	-
<b>Mining</b> .....		42.8	42.0	43.0	43.3	43.4	-	-	-	-	-
Metal mining .....	10	42.6	42.2	42.0	43.2	-	-	-	-	-	-
Iron ores .....	101	43.8	42.6	42.8	42.6	-	-	-	-	-	-
Copper ores .....	102	44.2	44.3	43.8	47.7	-	-	-	-	-	-
Coal mining .....	11,12	43.2	42.5	44.0	43.5	-	-	-	-	-	-
Bituminous coal and lignite mining .....	12	43.3	42.5	44.1	43.6	-	-	-	-	-	-
Oil and gas extraction .....	13	41.7	40.6	42.5	42.8	-	-	-	-	-	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	42.7	41.0	41.7	42.1	-	-	-	-	-	-
Oil and gas field services .....	138	41.0	40.3	43.0	43.1	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	45.9	45.7	44.2	45.0	-	-	-	-	-	-
Crushed and broken stone .....	142	47.5	47.2	44.7	45.5	-	-	-	-	-	-
<b>Construction</b> .....		37.9	37.7	37.9	37.3	38.2	-	-	-	-	-
General building contractors .....	15	37.5	37.1	37.6	37.0	-	-	-	-	-	-
Residential building construction .....	152	36.5	36.2	36.9	36.7	-	-	-	-	-	-
Operative builders .....	153	38.3	37.9	38.3	37.8	-	-	-	-	-	-
Nonresidential building construction .....	154	38.5	38.1	38.3	37.4	-	-	-	-	-	-
Heavy construction contractors .....	16	41.4	41.3	41.8	41.1	-	-	-	-	-	-
Highway and street construction .....	161	41.2	41.7	40.7	41.5	-	-	-	-	-	-
Heavy construction, except highway .....	162	41.5	41.1	42.1	40.9	-	-	-	-	-	-
Special trade contractors .....	17	37.1	36.9	36.9	36.4	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	38.5	38.7	38.3	37.3	-	-	-	-	-	-
Painting, paper hanging, and decorating .....	172	36.0	35.7	35.9	34.7	-	-	-	-	-	-
Electrical work .....	173	38.6	38.8	39.1	37.9	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	35.2	34.6	34.8	34.4	-	-	-	-	-	-
Carpentering and flooring .....	175	34.7	34.7	35.3	34.5	-	-	-	-	-	-
Roofing and sheet metal work .....	176	34.2	32.7	33.2	33.3	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.0	40.9	40.7	39.8	40.9	3.8	3.6	3.6	2.9	3.8
<b>Durable goods</b> .....		41.7	41.5	41.4	40.3	41.6	3.9	3.8	3.7	2.8	4.0
Lumber and wood products .....	24	40.5	40.1	40.1	40.1	40.6	3.6	3.5	3.5	3.4	-
Logging camps and logging contractors .....	241	41.8	40.9	40.1	41.2	-	5.2	5.2	5.1	5.5	-
Sawmills and planing mills .....	242	41.6	41.6	41.1	41.2	-	4.2	4.2	4.2	4.2	-
Sawmills and planing mills, general .....	2421	42.0	42.0	41.5	41.8	-	4.5	4.5	4.6	4.5	-
Hardwood dimension and flooring .....	2426	40.0	40.3	39.7	38.7	-	3.2	3.1	2.9	2.6	-
Millwork, plywood, and structural members .....	243	40.2	39.5	40.1	39.9	-	3.3	3.0	3.0	2.3	-
Millwork .....	2431	39.4	38.6	39.3	38.9	-	2.3	2.1	2.2	1.9	-
Wood kitchen cabinets .....	2434	39.5	38.9	39.9	39.4	-	3.2	2.9	3.1	2.7	-
Hardwood veneer and plywood .....	2435	40.5	40.2	41.1	40.5	-	3.6	3.4	3.8	3.3	-
Softwood veneer and plywood .....	2436	44.1	42.4	42.6	43.8	-	6.0	4.9	4.9	5.2	-
Wood containers .....	244	38.8	38.9	39.4	38.6	-	3.5	3.5	3.4	3.0	-
Wood buildings and mobile homes .....	245	37.7	38.1	37.4	37.7	-	2.0	1.9	1.6	1.4	-
Mobile homes .....	2451	37.6	38.2	37.2	37.8	-	1.9	1.8	1.5	1.5	-
Miscellaneous wood products .....	249	39.9	39.6	40.0	39.1	-	3.0	2.7	3.0	2.5	-
Furniture and fixtures .....	25	39.3	39.0	39.0	38.1	38.9	2.4	2.3	2.4	1.8	-
Household furniture .....	251	38.9	38.7	38.8	37.8	-	2.2	2.1	2.4	1.8	-
Wood household furniture .....	2511	39.8	39.5	39.4	38.3	-	2.5	2.6	2.5	2.0	-
Upholstered household furniture .....	2512	37.5	37.1	37.4	36.6	-	1.6	1.4	1.8	1.4	-
Metal household furniture .....	2514	40.7	40.2	41.1	38.4	-	3.3	2.5	3.8	1.9	-
Mattresses and bedspings .....	2515	38.5	38.7	39.3	39.3	-	2.1	2.5	3.0	2.5	-
Office furniture .....	252	39.7	39.1	38.7	37.8	-	2.4	2.0	1.9	1.8	-
Public building and related furniture .....	253	39.6	39.3	40.0	38.8	-	3.7	3.5	3.1	2.2	-
Partitions and fixtures .....	254	40.7	40.7	39.9	39.4	-	3.2	3.1	2.4	2.1	-
Miscellaneous furniture and fixtures .....	259	38.6	38.2	39.2	37.8	-	2.0	2.0	2.3	1.5	-
Stone, clay, and glass products .....	32	42.6	42.4	41.6	41.8	42.4	5.1	5.0	4.6	4.5	-
Flat glass .....	321	44.8	44.7	43.3	45.1	-	6.6	6.0	5.8	5.4	-
Glass and glassware, pressed or blown .....	322	42.3	42.1	41.4	42.3	-	4.6	4.6	4.5	5.2	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Total private</b> .....		\$9.62	\$9.59	\$9.93	\$9.96	\$9.98	\$334.78	\$330.86	\$341.59	\$343.62	\$344.31
<b>Mining</b> .....		13.19	13.13	13.42	13.52	13.49	564.53	551.46	577.06	585.42	585.47
Metal mining .....	10	13.68	13.60	13.85	14.06	-	582.77	573.92	581.70	607.39	-
Iron ores .....	101	14.18	13.78	13.86	15.20	-	621.08	587.03	593.21	647.52	-
Copper ores .....	102	11.56	11.51	12.33	12.03	-	510.95	509.89	540.05	573.83	-
Coal mining .....	11,12	16.17	16.16	16.46	16.54	-	698.54	686.80	724.24	719.49	-
Bituminous coal and lignite mining .....	12	16.23	16.22	16.52	16.61	-	702.76	689.35	728.53	724.20	-
Oil and gas extraction .....	13	12.45	12.37	12.60	12.74	-	519.17	502.22	535.50	545.27	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	15.11	15.09	15.99	16.22	-	645.20	618.69	666.78	682.86	-
Oil and gas field services .....	138	10.78	10.73	10.86	10.98	-	441.98	432.42	466.98	473.24	-
Nonmetallic minerals, except fuels .....	14	11.15	11.16	11.42	11.50	-	511.79	510.01	504.76	517.50	-
Crushed and broken stone .....	142	10.64	10.68	10.84	10.90	-	505.40	504.10	484.55	495.95	-
<b>Construction</b> .....		13.30	13.28	13.47	13.38	13.51	504.07	500.66	510.51	499.07	516.08
General building contractors .....	15	12.54	12.51	12.78	12.73	-	470.25	464.12	480.53	471.01	-
Residential building construction .....	152	11.95	11.90	12.24	12.13	-	436.18	430.78	451.66	445.17	-
Operative builders .....	153	11.85	11.85	12.74	12.51	-	453.86	449.12	487.94	472.88	-
Nonresidential building construction .....	154	13.22	13.22	13.37	13.40	-	508.97	503.68	512.07	501.16	-
Heavy construction contractors .....	16	12.87	12.95	12.90	12.92	-	532.82	534.84	539.22	531.01	-
Highway and street construction .....	161	12.36	12.52	12.37	12.56	-	509.23	522.08	503.46	521.24	-
Heavy construction, except highway .....	162	13.08	13.15	13.08	13.06	-	542.82	540.47	550.67	534.15	-
Special trade contractors .....	17	13.73	13.70	13.93	13.80	-	509.38	505.53	514.02	502.32	-
Plumbing, heating, and air conditioning .....	171	14.21	14.20	14.33	14.26	-	547.09	549.54	548.84	531.90	-
Painting, paper hanging, and decorating .....	172	12.84	12.93	13.11	12.89	-	462.24	461.60	470.65	447.28	-
Electrical work .....	173	14.70	14.66	14.90	14.63	-	567.42	568.81	582.59	554.48	-
Masonry, stonework, and plastering .....	174	13.90	13.94	14.20	14.24	-	489.28	482.32	494.16	489.86	-
Carpentering and flooring .....	175	13.14	13.11	13.16	13.31	-	455.96	454.92	464.55	459.20	-
Roofing and sheet metal work .....	176	12.06	11.98	12.20	12.15	-	412.45	391.75	405.04	404.60	-
<b>Manufacturing</b> .....		10.41	10.42	10.73	10.74	10.82	426.81	426.18	436.71	427.45	442.54
<b>Durable goods</b> .....		10.93	10.94	11.24	11.22	11.33	455.78	454.01	465.34	452.17	471.33
Lumber and wood products .....	24	8.76	8.79	9.07	9.11	9.17	354.78	352.48	363.71	365.31	372.30
Logging camps and logging contractors .....	241	10.99	11.14	11.19	11.34	-	459.38	455.63	448.72	467.21	-
Sawmills and planing mills .....	242	8.98	8.95	9.24	9.26	-	373.57	372.32	379.76	381.51	-
Sawmills and planing mills, general .....	2421	9.32	9.27	9.59	9.61	-	391.44	389.34	397.99	401.70	-
Hardwood dimension and flooring .....	2426	7.30	7.33	7.51	7.50	-	292.00	295.40	298.15	290.25	-
Millwork, plywood, and structural members .....	243	8.73	8.72	9.10	9.14	-	350.95	344.44	364.91	364.69	-
Millwork .....	2431	8.88	8.92	9.40	9.47	-	349.87	344.31	369.42	368.38	-
Wood kitchen cabinets .....	2434	8.16	8.14	8.55	8.50	-	322.32	316.65	341.15	334.90	-
Hardwood veneer and plywood .....	2435	7.28	7.28	7.58	7.62	-	294.84	292.66	311.54	308.61	-
Softwood veneer and plywood .....	2436	10.24	10.13	10.33	10.47	-	451.58	429.51	440.06	458.59	-
Wood containers .....	244	6.51	6.51	6.64	6.62	-	252.59	253.24	261.62	255.53	-
Wood buildings and mobile homes .....	245	8.23	8.30	8.53	8.48	-	310.27	316.23	319.02	319.70	-
Mobile homes .....	2451	8.32	8.31	8.64	8.57	-	312.83	317.44	321.41	323.95	-
Miscellaneous wood products .....	249	7.59	7.61	7.90	7.95	-	302.84	301.36	316.00	310.85	-
Furniture and fixtures .....	25	8.12	8.16	8.41	8.42	8.47	319.12	318.24	327.99	320.80	329.48
Household furniture .....	251	7.48	7.53	7.83	7.83	-	290.97	291.41	303.80	295.97	-
Wood household furniture .....	2511	7.02	7.08	7.30	7.30	-	279.40	279.66	287.62	279.59	-
Upholstered household furniture .....	2512	8.23	8.23	8.59	8.60	-	308.63	305.33	321.27	314.76	-
Metal household furniture .....	2514	7.35	7.57	7.86	7.88	-	299.15	304.31	323.05	302.59	-
Mattresses and bedsprings .....	2515	7.81	7.87	8.27	8.15	-	300.69	304.57	325.01	320.30	-
Office furniture .....	252	9.10	9.18	9.32	9.49	-	361.27	358.94	360.68	358.72	-
Public building and related furniture .....	253	8.82	8.78	8.94	8.88	-	349.27	345.05	357.60	344.54	-
Partitions and fixtures .....	254	9.65	9.62	9.75	9.71	-	392.76	391.53	389.03	382.57	-
Miscellaneous furniture and fixtures .....	259	8.41	8.45	8.65	8.68	-	324.63	322.79	339.08	328.10	-
Stone, clay, and glass products .....	32	10.71	10.69	10.95	11.10	11.07	456.25	453.26	455.52	463.98	469.37
Flat glass .....	321	15.17	15.06	15.12	15.58	-	679.62	673.18	654.70	702.66	-
Glass and glassware, pressed or blown .....	322	12.03	12.05	12.14	12.62	-	508.87	507.31	502.60	533.83	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	42.6	42.4	41.8	42.5	-	5.5	5.4	5.3	5.9	-
Pressed and blown glass, nec .....	3229	41.9	41.7	41.0	42.0	-	3.7	3.6	3.6	4.4	-
Products of purchased glass .....	323	41.5	41.5	40.2	40.2	-	3.1	3.2	2.8	2.3	-
Cement, hydraulic .....	324	42.5	41.7	43.1	43.1	-	3.8	3.0	5.3	5.0	-
Structural clay products .....	325	41.9	41.4	40.5	40.6	-	3.9	3.7	3.5	3.4	-
Pottery and related products .....	326	40.9	40.2	39.6	38.9	-	3.3	2.9	2.5	2.2	-
Concrete, gypsum, and plaster products .....	327	43.6	43.4	42.0	42.8	-	6.7	6.8	5.9	5.7	-
Concrete block and brick .....	3271	44.4	44.0	44.1	43.6	-	6.6	6.7	7.0	6.7	-
Concrete products, nec .....	3272	43.5	43.3	42.6	42.0	-	6.2	6.2	5.5	5.0	-
Ready-mixed concrete .....	3273	42.7	42.8	40.3	42.4	-	6.8	7.0	5.4	5.8	-
Misc. nonmetallic mineral products .....	329	42.4	42.2	42.4	41.5	-	4.7	4.5	4.6	3.9	-
Abrasive products .....	3291	43.3	42.7	42.3	41.2	-	3.9	4.0	3.4	2.7	-
Asbestos products .....	3292	43.0	42.1	40.5	37.1	-	6.3	5.0	4.1	1.7	-
Primary metal industries .....	33	43.2	43.1	42.7	41.7	43.0	5.3	5.1	4.9	4.2	-
Blast furnaces and basic steel products .....	331	43.6	43.6	42.9	43.0	44.0	5.6	5.6	5.2	5.1	-
Blast furnaces and steel mills .....	3312	44.0	43.9	42.9	43.3	-	5.8	5.8	5.2	5.4	-
Steel pipe and tubes .....	3317	41.6	41.7	44.2	41.9	-	4.3	4.2	6.3	4.2	-
Iron and steel foundries .....	332	42.9	42.8	42.3	40.6	-	5.2	5.0	4.6	3.3	-
Gray iron foundries .....	3321	43.1	43.0	42.5	41.1	-	5.5	5.2	4.9	3.7	-
Malleable iron foundries .....	3322	43.1	41.3	40.5	39.6	-	4.2	3.4	3.4	2.6	-
Steel foundries, nec .....	3325	42.4	42.4	41.8	40.0	-	4.6	4.7	4.3	2.9	-
Primary nonferrous metals .....	333	43.4	42.9	43.9	43.9	-	5.1	4.7	4.9	4.8	-
Primary aluminum .....	3334	43.5	43.1	43.6	43.9	-	5.3	4.9	5.1	5.4	-
Nonferrous rolling and drawing .....	335	43.7	43.5	43.5	41.7	-	5.9	5.7	5.6	4.5	-
Copper rolling and drawing .....	3351	43.0	43.3	43.9	41.7	-	4.8	4.8	5.9	4.6	-
Aluminum sheet, plate, and foil .....	3353	44.8	45.3	44.4	43.6	-	7.4	7.7	7.5	8.2	-
Nonferrous wire drawing and insulating .....	3357	42.8	42.7	42.4	40.9	-	5.3	5.1	4.8	3.7	-
Nonferrous foundries .....	336	42.0	41.5	40.4	38.6	-	4.1	3.7	3.2	2.0	-
Aluminum foundries .....	3361	42.4	42.0	40.5	38.8	-	4.1	3.7	3.1	2.0	-
Fabricated metal products .....	34	41.7	41.5	41.6	40.1	41.9	3.8	3.7	3.7	2.6	-
Metal cans and shipping containers .....	341	43.8	44.2	43.6	43.2	-	5.6	5.7	5.1	4.7	-
Metal cans .....	3411	44.1	44.2	43.9	43.4	-	5.5	5.4	5.2	4.9	-
Cutlery, hand tools, and hardware .....	342	41.0	41.0	41.2	39.9	-	3.0	2.8	3.0	2.2	-
Hand and edge tools, and hand saws and blades .....	3423,5	41.0	40.9	41.3	39.9	-	2.8	2.6	3.0	1.9	-
Hardware, nec .....	3429	40.7	40.6	40.5	39.3	-	2.9	2.6	2.8	2.0	-
Plumbing and heating, except electric .....	343	40.8	40.4	41.5	39.2	-	3.3	3.0	3.3	2.3	-
Plumbing fittings and brass goods .....	3432	41.8	41.1	42.1	39.3	-	3.9	3.4	3.7	2.7	-
Heating equipment, except electric .....	3433	39.5	39.5	39.7	37.8	-	2.7	2.4	1.9	1.2	-
Fabricated structural metal products .....	344	41.0	41.1	40.9	39.8	-	3.6	3.4	3.5	2.6	-
Fabricated structural metal .....	3441	41.6	41.5	42.0	41.1	-	4.2	4.0	3.8	3.1	-
Metal doors, sash, and trim .....	3442	40.1	40.3	39.7	38.8	-	2.8	2.6	2.3	1.8	-
Fabricated plate work (boiler shops) .....	3443	42.2	42.3	42.2	40.5	-	4.1	3.8	4.6	3.0	-
Sheet metal work .....	3444	40.3	40.3	40.3	39.4	-	3.0	3.0	3.0	2.4	-
Architectural metal work .....	3446	40.7	40.9	38.9	38.2	-	4.3	4.4	3.4	2.7	-
Screw machine products, bolts, etc .....	345	42.8	42.4	42.3	40.8	-	5.0	4.7	4.5	3.4	-
Screw machine products .....	3451	41.6	41.0	41.0	40.0	-	4.1	3.7	3.7	2.8	-
Bolts, nuts, rivets, and washers .....	3452	44.2	44.0	43.8	41.7	-	6.1	5.9	5.5	4.1	-
Metal forgings and stampings .....	346	42.9	42.4	42.4	39.8	-	4.7	4.4	4.0	2.3	-
Iron and steel forgings .....	3462	43.7	42.7	42.6	40.7	-	5.1	4.6	4.2	2.8	-
Automotive stampings .....	3465	44.2	43.4	43.1	39.8	-	5.5	5.0	4.3	2.2	-
Metal stampings, nec .....	3469	40.6	40.6	41.4	39.8	-	3.4	3.3	3.7	2.4	-
Metal services, nec .....	347	41.4	41.3	40.9	39.8	-	3.7	3.8	3.7	2.8	-
Plating and polishing .....	3471	41.4	41.3	40.3	39.3	-	3.7	3.7	3.2	2.4	-
Metal coating and allied services .....	3479	41.3	41.2	42.1	40.8	-	3.7	3.9	4.7	3.6	-
Ordnance and accessories, nec .....	348	41.9	41.4	41.4	40.4	-	2.8	2.8	3.2	2.5	-
Ammunition, except for small arms, nec .....	3483	41.7	40.7	40.3	39.3	-	2.4	2.3	2.6	1.7	-
Misc. fabricated metal products .....	349	41.2	40.9	41.7	40.0	-	3.3	3.3	3.7	2.4	-
Valves and pipe fittings .....	3494	42.1	41.6	42.6	41.3	-	3.5	3.3	3.7	2.3	-
Misc. fabricated wire products .....	3496	39.5	39.3	40.4	38.9	-	3.1	3.2	3.2	2.0	-
Machinery, except electrical .....	35	42.5	42.3	42.1	40.7	42.2	4.3	4.2	4.0	2.9	-
Engines and turbines .....	351	43.3	43.0	43.2	41.1	-	3.7	4.0	4.4	2.4	-
Turbines and turbine generator sets .....	3511	42.9	42.1	43.5	42.4	-	5.1	4.8	5.1	4.6	-
Internal combustion engines, nec .....	3519	43.4	43.3	43.1	40.7	-	3.2	3.8	4.1	1.6	-
Farm and garden machinery .....	352	42.1	41.8	42.4	40.3	-	4.4	3.9	4.7	2.7	-
Farm machinery and equipment .....	3523	42.8	42.3	41.8	40.2	-	5.0	4.5	4.4	2.9	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Stone, clay, and glass products—Continued</b>											
Glass containers .....	3221	\$12.64	\$12.57	\$12.72	\$13.42	-	\$538.46	\$532.97	\$531.70	\$570.35	-
Pressed and blown glass, nec .....	3229	11.35	11.45	11.46	11.74	-	475.57	477.47	469.86	493.08	-
Products of purchased glass .....	323	9.36	9.29	9.53	9.69	-	388.44	385.54	383.11	389.54	-
Cement, hydraulic .....	324	13.66	13.50	13.97	14.34	-	580.55	562.95	602.11	618.05	-
Structural clay products .....	325	9.14	9.15	9.50	9.58	-	382.97	378.81	384.75	388.95	-
Pottery and related products .....	326	9.50	9.54	9.67	9.67	-	388.55	383.51	382.93	376.16	-
Concrete, gypsum, and plaster products .....	327	10.50	10.49	10.72	10.76	-	457.80	455.27	450.24	460.53	-
Concrete block and brick .....	3271	9.66	9.67	9.74	9.89	-	428.90	425.48	429.53	431.20	-
Concrete products, nec .....	3272	9.42	9.48	9.59	9.63	-	409.77	410.48	408.53	404.46	-
Ready-mixed concrete .....	3273	11.39	11.29	11.68	11.63	-	486.35	483.21	470.70	493.11	-
Misc. nonmetallic mineral products .....	329	10.67	10.65	10.98	11.05	-	452.41	449.43	465.55	458.58	-
Abrasives products .....	3291	10.22	10.24	10.41	10.39	-	442.53	437.25	440.34	428.07	-
Asbestos products .....	3292	11.18	11.20	10.94	10.68	-	480.74	471.52	443.07	396.23	-
Primary metal industries .....	33	12.26	12.25	12.65	12.83	\$12.77	529.63	527.98	540.16	535.01	\$549.11
Blast furnaces and basic steel products .....	331	14.06	14.06	14.54	14.88	14.71	613.02	613.02	623.77	639.84	647.24
Blast furnaces and steel mills .....	3312	14.81	14.81	15.35	15.75	-	651.64	650.16	658.52	681.98	-
Steel pipe and tubes .....	3317	10.83	10.85	11.62	11.53	-	450.53	452.45	513.60	483.11	-
Iron and steel foundries .....	332	11.14	11.10	11.49	11.46	-	477.91	475.08	486.03	465.28	-
Gray iron foundries .....	3321	11.66	11.64	11.99	11.99	-	502.55	500.52	509.58	492.79	-
Malleable iron foundries .....	3322	12.15	12.15	12.50	12.15	-	523.67	501.80	506.25	481.14	-
Steel foundries, nec .....	3325	10.27	10.31	10.90	10.70	-	435.45	437.14	455.62	428.00	-
Primary nonferrous metals .....	333	13.65	13.57	14.04	14.33	-	592.41	582.15	616.36	629.09	-
Primary aluminum .....	3334	13.96	13.85	14.37	14.77	-	607.26	596.94	626.53	648.40	-
Nonferrous rolling and drawing .....	335	11.79	11.78	12.07	12.10	-	515.22	512.43	525.05	504.57	-
Copper rolling and drawing .....	3351	11.08	11.06	11.47	11.35	-	476.44	478.90	503.53	473.30	-
Aluminum sheet, plate, and foil .....	3353	14.00	14.24	14.87	15.46	-	627.20	645.07	660.23	674.06	-
Nonferrous wire drawing and insulating .....	3357	11.94	11.84	11.91	11.87	-	511.03	505.57	504.98	485.48	-
Nonferrous foundries .....	336	9.72	9.72	10.15	10.08	-	408.24	403.38	410.06	389.09	-
Aluminum foundries .....	3361	9.92	9.94	10.41	10.34	-	420.61	417.48	421.61	401.19	-
Fabricated metal products .....	34	10.48	10.49	10.72	10.62	10.79	437.02	435.34	445.95	425.86	452.10
Metal cans and shipping containers .....	341	13.74	13.75	14.16	14.29	-	601.81	607.75	617.38	617.33	-
Metal cans .....	3411	14.67	14.69	15.05	15.22	-	646.95	649.30	660.70	660.55	-
Cutlery, hand tools, and hardware .....	342	10.40	10.43	10.81	10.71	-	426.40	427.63	445.37	427.33	-
Hand and edge tools, and hand saws and blades .....	3423.5	9.58	9.56	9.96	9.85	-	392.78	391.00	411.35	393.02	-
Hardware, nec .....	3429	10.78	10.85	11.20	11.08	-	438.75	440.51	453.60	435.44	-
Plumbing and heating, except electric .....	343	9.43	9.43	9.74	9.60	-	384.74	380.97	404.21	376.32	-
Plumbing fittings and brass goods .....	3432	9.12	9.07	9.48	9.34	-	381.22	372.78	399.11	367.06	-
Heating equipment, except electric .....	3433	9.29	9.30	9.54	9.35	-	366.96	367.35	378.74	353.43	-
Fabricated structural metal products .....	344	9.84	9.84	10.06	9.99	-	403.44	404.42	411.45	397.60	-
Fabricated structural metal .....	3441	10.42	10.45	10.29	10.20	-	433.47	433.68	432.18	419.22	-
Metal doors, sash, and trim .....	3442	8.32	8.23	8.54	8.51	-	333.63	331.67	339.04	330.19	-
Fabricated plate work (boiler shops) .....	3443	10.44	10.46	10.97	10.80	-	440.57	442.46	462.93	437.40	-
Sheet metal work .....	3444	10.12	10.15	10.30	10.30	-	407.84	409.05	415.09	405.82	-
Architectural metal work .....	3446	9.27	9.32	9.62	9.69	-	377.29	381.19	374.22	370.16	-
Screw machine products, bolts, etc .....	345	10.25	10.25	10.50	10.46	-	438.70	434.60	444.15	426.77	-
Screw machine products .....	3451	9.57	9.63	9.94	9.87	-	398.11	394.83	407.54	394.80	-
Bolts, nuts, rivets, and washers .....	3452	10.98	10.90	11.07	11.07	-	485.32	479.60	484.87	461.62	-
Metal forgings and stampings .....	346	12.58	12.57	12.63	12.45	-	539.68	532.97	535.51	495.51	-
Iron and steel forgings .....	3462	13.23	13.27	13.07	12.83	-	578.15	566.63	556.78	522.18	-
Automotive stampings .....	3465	14.25	14.24	14.39	14.22	-	629.85	618.02	620.21	565.96	-
Metal stampings, nec .....	3469	9.68	9.67	10.03	9.97	-	393.01	392.60	415.24	396.81	-
Metal services, nec .....	347	8.45	8.50	8.88	8.85	-	349.83	351.05	363.19	352.23	-
Plating and polishing .....	3471	8.38	8.46	8.76	8.76	-	346.93	349.40	353.03	344.27	-
Metal coating and allied services .....	3479	8.59	8.57	9.09	9.02	-	354.77	353.08	382.69	368.02	-
Ordnance and accessories, nec .....	348	11.55	11.59	11.82	11.99	-	483.95	479.83	489.35	484.40	-
Ammunition, except for small arms, nec .....	3483	11.37	11.37	11.48	11.81	-	474.13	462.76	462.64	464.13	-
Misc. fabricated metal products .....	349	9.65	9.70	9.94	9.74	-	397.58	396.73	414.50	389.60	-
Valves and pipe fittings .....	3494	10.46	10.51	10.67	10.34	-	440.37	437.22	454.54	427.04	-
Misc. fabricated wire products .....	3496	8.68	8.64	8.76	8.58	-	342.86	339.55	353.90	333.76	-
Machinery, except electrical .....	35	11.26	11.29	11.57	11.52	11.62	478.55	477.57	487.10	468.86	490.36
Engines and turbines .....	351	13.97	13.98	14.41	14.26	-	604.90	601.14	622.51	586.09	-
Turbines and turbine generator sets .....	3511	14.18	14.19	14.62	14.61	-	608.32	597.40	635.97	619.46	-
Internal combustion engines, nec .....	3519	13.90	13.91	14.34	14.12	-	603.26	602.30	618.05	574.68	-
Farm and garden machinery .....	352	10.32	10.47	10.50	10.47	-	434.47	437.65	445.20	421.94	-
Farm machinery and equipment .....	3523	11.18	11.37	11.68	11.65	-	478.50	480.95	488.22	468.33	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	42.5	42.3	42.9	41.1	-	4.1	4.0	4.2	3.0	-
Construction machinery .....	3531	43.0	42.7	43.6	42.3	-	4.4	4.3	4.3	3.4	-
Mining machinery .....	3532	42.0	42.0	42.9	40.6	-	3.9	4.0	5.0	3.2	-
Oil field machinery .....	3533	41.7	41.3	45.3	41.7	-	4.2	3.7	5.9	4.0	-
Conveyors and conveying equipment .....	3535	43.6	43.3	41.3	40.0	-	5.5	5.2	4.1	3.0	-
Industrial trucks and tractors .....	3537	40.9	40.9	40.6	39.4	-	2.9	3.0	2.1	1.7	-
Metalworking machinery .....	354	43.6	43.3	42.7	40.9	-	5.5	5.3	4.7	3.6	-
Machine tools, metal cutting types .....	3541	44.2	44.3	42.3	39.7	-	5.3	5.3	4.4	2.9	-
Machine tools, metal forming types .....	3542	44.1	43.4	43.0	41.1	-	5.6	5.3	5.3	3.8	-
Special dies, tools, jigs, and fixtures .....	3544	44.1	43.7	43.3	41.5	-	6.1	5.9	5.5	4.4	-
Machine tool accessories .....	3545	42.4	42.4	41.6	40.4	-	4.9	4.8	3.6	2.8	-
Power driven hand tools .....	3546	43.1	42.0	41.8	40.2	-	3.9	3.5	3.0	1.7	-
Special industry machinery .....	355	42.3	42.0	42.6	41.0	-	4.6	4.4	4.3	3.0	-
Food products machinery .....	3551	42.3	41.8	42.1	41.2	-	4.3	4.2	4.0	3.2	-
Textile machinery .....	3552	42.8	42.4	42.6	41.7	-	3.9	3.5	3.8	2.7	-
Printing trades machinery .....	3555	39.1	38.7	39.6	38.9	-	4.1	4.0	3.9	2.8	-
General industrial machinery .....	356	42.7	42.3	41.7	39.9	-	4.4	4.2	4.0	2.6	-
Pumps and pumping equipment .....	3561	42.4	42.5	41.5	39.7	-	4.2	3.9	4.6	2.7	-
Ball and roller bearings .....	3562	43.7	43.4	42.2	40.0	-	5.7	5.8	4.6	2.9	-
Air and gas compressors .....	3563	43.5	43.6	43.7	42.2	-	4.3	4.4	4.7	3.3	-
Blowers and fans .....	3564	41.1	40.9	39.2	38.3	-	2.9	2.6	1.9	1.4	-
Speed changers, drives, and gears .....	3566	42.7	41.6	42.0	40.6	-	5.1	4.3	4.9	3.2	-
Power transmission equipment, nec .....	3568	42.7	41.7	43.0	39.4	-	4.7	4.3	4.4	2.9	-
Office and computing machines .....	357	41.8	41.4	41.5	41.3	-	2.8	2.7	3.1	2.8	-
Electronic computing equipment .....	3573	41.9	41.4	41.8	41.8	-	2.7	2.7	3.1	3.0	-
Refrigeration and service machinery .....	358	41.6	42.0	40.4	39.8	-	3.2	3.5	2.4	1.7	-
Refrigeration and heating equipment .....	3585	42.2	42.7	40.5	40.2	-	3.7	4.1	2.4	1.9	-
Misc. machinery, except electrical .....	359	42.1	41.7	42.0	40.6	-	4.5	4.4	4.3	3.4	-
Carburetors, pistons, rings, and valves .....	3592	43.2	42.2	41.4	38.8	-	4.7	4.3	3.3	2.2	-
Machinery, except electrical, nec .....	3599	41.9	41.7	42.0	40.8	-	4.5	4.4	4.5	3.6	-
Electrical and electronic equipment .....	36	40.7	40.4	40.9	39.7	40.5	2.9	2.8	3.0	2.2	-
Electric distributing equipment .....	361	41.4	41.6	41.4	39.7	-	2.8	2.7	2.8	1.9	-
Transformers .....	3612	41.8	42.1	41.9	40.9	-	3.0	2.8	3.2	2.3	-
Switchgear and switchboard apparatus .....	3613	41.1	41.1	41.0	38.4	-	2.6	2.6	2.5	1.5	-
Electrical industrial apparatus .....	362	41.8	41.7	41.6	40.2	-	3.7	3.4	3.2	2.3	-
Motors and generators .....	3621	41.9	41.9	41.1	39.5	-	4.0	3.9	3.4	2.3	-
Industrial controls .....	3622	40.3	40.3	40.8	39.4	-	2.5	2.2	2.1	1.3	-
Household appliances .....	363	39.6	39.3	39.5	38.6	-	2.8	2.6	2.2	1.6	-
Household refrigerators and freezers .....	3632	39.8	38.2	38.6	37.9	-	3.5	3.2	2.5	2.3	-
Household laundry equipment .....	3633	40.9	41.0	40.4	39.7	-	2.3	2.6	1.7	1.1	-
Electric housewares and fans .....	3634	40.2	40.4	40.0	38.8	-	2.8	2.8	2.0	1.5	-
Electric lighting and wiring equipment .....	364	40.0	39.7	40.2	38.4	-	2.6	2.5	2.9	1.9	-
Electric lamps .....	3641	41.4	40.4	40.6	39.3	-	3.2	2.5	3.0	2.2	-
Current-carrying wiring devices .....	3643	39.9	39.6	40.0	38.6	-	2.6	2.4	3.0	2.2	-
Noncurrent-carrying wiring devices .....	3644	40.2	39.9	41.5	37.6	-	3.0	2.4	2.6	.8	-
Residential lighting fixtures .....	3645	37.2	37.7	39.2	37.2	-	1.4	1.7	2.4	1.5	-
Radio and TV receiving equipment .....	365	39.9	39.4	40.5	39.4	-	3.3	2.8	3.0	2.3	-
Radio and TV receiving sets .....	3651	39.8	38.7	40.3	39.2	-	2.9	2.3	1.9	1.8	-
Communication equipment .....	366	41.1	40.7	41.9	40.4	-	2.3	2.2	2.3	1.8	-
Telephone and telegraph apparatus .....	3661	41.8	41.5	44.7	42.7	-	2.7	2.3	2.2	1.5	-
Radio and TV communication equipment .....	3662	40.8	40.3	40.8	39.5	-	2.2	2.2	2.4	1.9	-
Electronic components and accessories .....	367	40.3	39.9	41.0	40.1	-	3.0	3.0	3.6	3.0	-
Electronic tubes .....	3671-3	40.4	41.3	41.0	39.8	-	3.5	3.4	3.1	2.9	-
Semiconductors and related devices .....	3674	40.0	39.6	41.0	41.3	-	3.6	3.5	4.4	4.2	-
Electronic components, nec .....	3679	40.8	40.2	41.5	40.3	-	3.0	2.9	3.6	2.7	-
Misc. electrical equipment and supplies .....	369	41.9	41.6	40.6	39.1	-	3.4	3.2	2.8	1.8	-
Storage batteries .....	3691	41.6	41.8	39.8	37.3	-	2.5	2.9	2.0	.8	-
Engine electrical equipment .....	3694	42.3	41.8	40.7	39.4	-	4.4	4.0	3.2	2.3	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>
<b>Durable goods—Continued</b>											
Machinery, except electrical—Continued											
Construction and related machinery .....	353	\$11.33	\$11.32	\$11.65	\$11.65	-	\$481.53	\$478.84	\$499.79	\$478.82	-
Construction machinery .....	3531	12.67	12.64	12.97	13.05	-	544.81	539.73	565.49	552.02	-
Mining machinery .....	3532	11.21	11.25	11.76	11.66	-	470.82	472.50	504.50	473.40	-
Oil field machinery .....	3533	11.08	11.05	11.18	11.08	-	462.04	456.37	506.45	462.04	-
Conveyors and conveying equipment .....	3535	10.33	10.32	10.53	10.49	-	450.39	446.86	434.89	419.60	-
Industrial trucks and tractors .....	3537	9.98	10.01	10.26	10.31	-	408.18	409.41	416.56	406.21	-
Metalworking machinery .....	354	11.72	11.70	12.00	12.00	-	510.99	506.61	512.40	490.80	-
Machine tools, metal cutting types .....	3541	11.60	11.65	12.02	12.02	-	512.72	516.10	508.45	477.19	-
Machine tools, metal forming types .....	3542	12.12	12.09	12.32	12.24	-	534.49	524.71	529.76	503.06	-
Special dies, tools, jigs, and fixtures .....	3544	12.52	12.49	12.76	12.78	-	552.13	545.81	552.51	530.37	-
Machine tool accessories .....	3545	10.62	10.56	10.74	10.80	-	450.29	447.74	446.78	436.32	-
Power driven hand tools .....	3546	9.33	9.35	9.73	9.72	-	402.12	392.70	406.71	390.74	-
Special industry machinery .....	355	11.47	11.47	11.82	11.70	-	485.18	481.74	503.53	479.70	-
Food products machinery .....	3551	11.51	11.53	11.89	11.83	-	486.87	481.95	500.57	487.40	-
Textile machinery .....	3552	9.56	9.59	9.99	9.96	-	409.17	406.62	425.57	415.33	-
Printing trades machinery .....	3555	12.48	12.36	12.76	12.59	-	487.97	478.33	505.30	489.75	-
General industrial machinery .....	356	10.82	10.86	11.33	11.24	-	462.01	459.38	472.46	448.48	-
Pumps and pumping equipment .....	3561	11.37	11.37	11.95	11.63	-	482.09	483.23	495.93	461.71	-
Ball and roller bearings .....	3562	11.27	11.33	11.79	11.70	-	492.50	491.72	497.54	468.00	-
Air and gas compressors .....	3563	10.51	10.50	11.60	11.53	-	457.19	457.80	506.92	486.57	-
Blowers and fans .....	3564	9.61	9.64	9.90	9.76	-	394.97	394.28	388.08	373.81	-
Speed changers, drives, and gears .....	3566	11.15	11.16	11.60	11.36	-	476.11	464.26	487.20	461.22	-
Power transmission equipment, nec .....	3568	10.32	10.42	10.62	10.78	-	440.66	434.51	456.66	424.73	-
Office and computing machines .....	357	11.01	11.05	11.37	11.36	-	460.22	457.47	471.86	469.17	-
Electronic computing equipment .....	3573	10.98	11.04	11.27	11.32	-	460.06	457.06	471.09	473.18	-
Refrigeration and service machinery .....	358	10.69	10.79	10.84	10.83	-	444.70	453.18	437.94	431.03	-
Refrigeration and heating equipment .....	3585	10.91	11.03	10.97	10.97	-	460.40	470.98	444.29	440.99	-
Misc. machinery, except electrical .....	359	10.97	10.98	11.21	11.14	-	461.84	457.87	470.82	452.28	-
Carburetors, pistons, rings, and valves .....	3592	13.15	13.17	12.93	12.59	-	568.08	555.77	535.30	488.49	-
Machinery, except electrical, nec .....	3599	10.67	10.69	11.00	10.97	-	447.07	445.77	462.00	447.58	-
Electrical and electronic equipment .....	36	10.31	10.33	10.58	10.58	\$10.67	419.62	417.33	432.72	420.03	\$432.14
Electric distributing equipment .....	361	9.41	9.42	9.97	9.98	-	389.57	391.87	412.76	396.21	-
Transformers .....	3612	9.21	9.14	9.73	9.73	-	384.98	384.79	407.69	397.96	-
Switchgear and switchboard apparatus .....	3613	9.62	9.72	10.22	10.23	-	395.38	399.49	419.02	392.83	-
Electrical industrial apparatus .....	362	10.09	10.06	10.21	10.19	-	421.76	419.50	424.74	409.64	-
Motors and generators .....	3621	10.10	10.01	10.04	9.95	-	423.19	419.42	412.64	393.03	-
Industrial controls .....	3622	9.86	9.88	10.16	10.23	-	397.36	398.16	414.53	403.06	-
Household appliances .....	363	10.22	10.14	10.19	10.15	-	404.71	398.50	402.51	391.79	-
Household refrigerators and freezers .....	3632	11.89	11.88	11.41	11.44	-	473.22	453.82	440.43	433.58	-
Household laundry equipment .....	3633	12.12	12.13	12.08	11.85	-	495.71	497.33	488.03	470.45	-
Electric housewares and fans .....	3634	7.49	7.53	7.60	7.58	-	301.10	304.21	304.00	294.10	-
Electric lighting and wiring equipment .....	364	9.73	9.77	10.05	10.06	-	389.20	387.87	404.01	386.30	-
Electric lamps .....	3641	10.96	10.95	11.44	11.57	-	453.74	442.38	464.46	454.70	-
Current-carrying wiring devices .....	3643	9.53	9.57	9.91	9.76	-	380.25	378.97	396.40	376.74	-
Noncurrent-carrying wiring devices .....	3644	9.33	9.26	9.43	9.36	-	375.07	369.47	391.35	351.94	-
Residential lighting fixtures .....	3645	7.16	7.37	7.35	7.57	-	266.35	277.85	288.12	281.60	-
Radio and TV receiving equipment .....	365	9.60	9.59	9.40	9.26	-	383.04	377.85	380.70	364.84	-
Radio and TV receiving sets .....	3651	9.99	10.08	9.82	9.56	-	397.60	390.10	395.75	374.75	-
Communication equipment .....	366	12.29	12.37	12.69	12.72	-	505.12	503.46	531.71	513.89	-
Telephone and telegraph apparatus .....	3661	11.65	11.71	11.39	11.37	-	486.97	485.97	509.13	485.50	-
Radio and TV communication equipment .....	3662	12.54	12.64	13.24	13.29	-	511.63	509.39	540.19	524.96	-
Electronic components and accessories .....	367	9.48	9.55	9.95	10.00	-	382.04	381.05	407.95	401.00	-
Electronic tubes .....	3671-3	11.99	12.01	12.66	12.84	-	484.40	496.01	519.06	511.03	-
Semiconductors and related devices .....	3674	11.54	11.61	12.00	12.03	-	461.60	459.76	492.00	496.84	-
Electronic components, nec .....	3679	8.44	8.50	8.89	8.88	-	344.35	341.70	368.94	357.86	-
Misc. electrical equipment and supplies .....	369	11.01	10.97	11.01	11.00	-	461.32	456.35	447.01	430.10	-
Storage batteries .....	3691	11.56	11.56	11.89	11.78	-	480.90	483.21	473.22	439.39	-
Engine electrical equipment .....	3694	11.86	11.76	11.56	11.62	-	501.68	491.57	470.49	457.83	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	43.0	42.7	42.3	40.8	43.0	4.9	4.5	4.1	2.9	-
Motor vehicles and equipment .....	371	43.7	43.3	42.7	41.0	44.1	5.3	4.7	4.1	2.6	-
Motor vehicles and car bodies .....	3711	43.9	43.4	42.5	41.5	-	5.4	4.7	3.7	2.5	-
Truck and bus bodies .....	3713	43.6	42.7	40.7	39.9	-	3.9	3.7	3.5	2.2	-
Motor vehicle parts and accessories .....	3714	44.0	43.8	43.3	41.0	-	5.6	5.2	4.6	2.8	-
Truck trailers .....	3715	40.3	40.3	40.2	38.8	-	2.7	2.3	2.7	2.0	-
Aircraft and parts .....	372	43.0	42.7	42.9	41.3	-	5.3	4.9	4.8	3.8	-
Aircraft .....	3721	42.8	42.7	42.7	41.6	-	5.2	5.0	4.7	4.2	-
Aircraft engines and engine parts .....	3724	43.1	41.9	42.8	40.7	-	5.5	4.6	5.0	3.3	-
Aircraft equipment, nec .....	3728	43.1	43.2	43.2	41.3	-	5.3	5.1	4.8	3.6	-
Ship and boat building and repairing .....	373	40.9	40.6	40.4	39.3	-	3.3	3.0	3.1	2.4	-
Ship building and repairing .....	3731	41.4	41.3	41.1	39.5	-	3.3	3.1	3.4	2.4	-
Boat building and repairing .....	3732	40.3	39.7	39.3	39.0	-	3.3	2.8	2.7	2.2	-
Railroad equipment .....	374	42.7	42.0	41.8	39.7	-	3.7	3.4	3.2	2.0	-
Guided missiles, space vehicles, and parts .....	376	42.4	42.7	42.4	41.4	-	4.0	4.0	4.0	3.3	-
Guided missiles and space vehicles .....	3761	42.3	43.1	42.3	41.2	-	3.9	4.1	4.1	3.5	-
Miscellaneous transportation equipment .....	379	40.1	39.5	39.6	39.1	-	3.1	2.2	2.6	1.7	-
Travel trailers and campers .....	3792	39.0	38.4	38.6	37.7	-	2.3	1.6	1.5	1.1	-
Instruments and related products .....	38	41.3	40.8	41.2	40.5	41.5	2.7	2.7	2.8	2.1	-
Engineering and scientific instruments .....	381	42.1	41.6	42.6	41.7	-	2.6	2.8	3.0	2.4	-
Measuring and controlling devices .....	382	40.9	40.6	41.0	40.6	-	2.5	2.5	2.6	2.0	-
Environmental controls .....	3822	39.8	39.8	40.6	39.0	-	2.1	2.0	2.1	1.6	-
Process control instruments .....	3823	42.4	42.9	43.0	41.7	-	3.4	3.7	3.9	3.2	-
Instruments to measure electricity .....	3825	40.6	39.8	40.3	40.9	-	1.9	2.1	2.2	1.6	-
Optical instruments and lenses .....	383	42.6	42.6	41.8	40.9	-	2.6	2.5	2.8	2.3	-
Medical instruments and supplies .....	384	40.7	40.2	41.2	40.1	-	2.7	2.6	3.0	2.0	-
Surgical and medical instruments .....	3841	40.7	39.9	41.1	40.7	-	2.7	2.5	3.3	2.3	-
Surgical appliances and supplies .....	3842	40.5	40.4	41.0	39.5	-	2.6	2.7	2.6	1.6	-
Ophthalmic goods .....	385	40.2	40.5	39.7	39.1	-	2.7	2.9	2.6	2.4	-
Photographic equipment and supplies .....	386	43.9	42.6	41.3	41.4	-	3.7	3.6	3.2	2.7	-
Watches, clocks, and watchcases .....	387	39.1	39.1	39.0	36.8	-	1.2	1.3	1.8	1.2	-
Miscellaneous manufacturing .....	39	39.6	39.4	39.4	38.1	39.2	2.3	2.3	2.4	1.7	-
Jewelry, silverware, and plated ware .....	391	38.2	38.2	38.0	37.4	-	1.7	1.7	1.4	1.1	-
Jewelry, precious metal .....	3911	38.0	38.0	37.5	37.2	-	1.6	1.6	1.2	1.1	-
Musical instruments .....	393	39.5	39.2	40.0	37.8	-	2.1	1.9	2.3	1.6	-
Toys and sporting goods .....	394	39.9	39.8	39.7	38.0	-	2.4	2.4	2.6	1.6	-
Dolls, games, toys, and children's vehicles .....	3942,4	38.4	38.1	38.5	36.9	-	1.3	1.2	2.0	1.0	-
Sporting and athletic goods, nec .....	3949	40.9	41.0	40.5	38.7	-	3.1	3.2	3.0	1.9	-
Pens, pencils, office, and art supplies .....	395	40.3	40.0	40.3	38.9	-	2.5	2.4	2.3	1.6	-
Costume jewelry and notions .....	396	38.8	38.0	39.2	38.2	-	2.2	2.1	2.3	2.0	-
Costume jewelry .....	3961	37.7	36.6	39.2	38.4	-	2.3	2.0	2.7	2.7	-
Miscellaneous manufactures .....	399	39.9	40.0	39.4	38.2	-	2.6	2.6	2.6	1.8	-
Signs and advertising displays .....	3993	39.4	39.9	40.0	39.3	-	2.8	2.8	3.0	2.3	-
<b>Nondurable goods</b> .....		40.1	40.0	39.8	39.2	40.0	3.5	3.5	3.4	3.0	3.5
Food and kindred products .....	20	40.0	40.4	40.0	39.7	40.8	3.8	4.0	3.9	3.7	-
Meat products .....	201	39.6	40.6	39.1	38.9	-	3.7	4.1	3.5	3.1	-
Meat packing plants .....	2011	40.8	41.4	40.2	40.5	-	4.5	4.9	4.2	4.0	-
Sausages and other prepared meats .....	2013	40.4	41.6	40.8	40.5	-	4.1	4.8	4.5	4.3	-
Poultry dressing plants .....	2016	38.3	39.8	37.8	37.2	-	2.9	3.4	2.7	2.1	-
Dairy products .....	202	41.2	40.9	41.2	41.4	-	4.2	4.2	4.4	4.5	-
Cheese, natural and processed .....	2022	40.1	39.1	39.5	39.9	-	3.7	3.5	3.6	3.7	-
Fluid milk .....	2026	41.7	41.6	41.7	42.2	-	4.5	4.5	4.7	5.3	-
Preserved fruits and vegetables .....	203	39.3	39.1	39.5	39.2	-	3.3	3.2	3.4	3.4	-
Canned specialties .....	2032	41.1	41.5	40.5	39.5	-	3.8	4.7	3.4	2.7	-
Canned fruits and vegetables .....	2033	38.7	40.0	39.2	39.2	-	3.3	3.3	3.2	2.9	-
Frozen fruits and vegetables .....	2037	39.1	37.1	39.0	37.8	-	3.0	2.2	3.2	3.4	-
Grain mill products .....	204	43.7	43.7	43.9	42.9	-	5.6	5.5	5.1	4.7	-
Flour and other grain mill products .....	2041	43.9	45.3	46.6	46.0	-	5.4	5.5	6.2	4.7	-
Prepared feeds, nec .....	2048	42.6	42.4	42.8	42.0	-	5.7	5.6	5.4	5.3	-
Bakery products .....	205	39.0	39.7	39.6	39.2	-	3.5	4.0	4.0	4.0	-
Bread, cake, and related products .....	2051	38.6	39.0	39.3	39.6	-	3.8	4.3	4.0	4.5	-
Cookies and crackers .....	2052	40.2	41.4	40.4	38.3	-	2.8	3.2	4.2	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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$13.60	\$13.58	\$14.05	\$13.92	\$14.15	\$584.80	\$579.87	\$594.32	\$567.94	\$608.45
Motor vehicles and equipment .....	371	14.20	14.17	14.61	14.44	14.75	620.54	613.56	623.85	592.04	650.48
Motor vehicles and car bodies .....	3711	16.42	16.30	16.95	16.83	-	720.84	707.42	720.38	698.45	-
Truck and bus bodies .....	3713	11.60	11.61	12.69	12.35	-	505.76	495.75	516.48	492.77	-
Motor vehicle parts and accessories .....	3714	13.19	13.19	13.49	13.26	-	580.36	577.72	584.12	543.66	-
Truck trailers .....	3715	9.46	9.40	9.56	9.50	-	381.24	378.82	384.31	368.60	-
Aircraft and parts .....	372	14.09	14.06	14.68	14.63	-	605.87	600.36	629.77	604.22	-
Aircraft .....	3721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$14.17	\$14.20	\$14.69	\$14.52	-	\$610.73	\$594.98	\$628.73	\$590.96	-
Aircraft equipment, nec .....	3728	12.95	12.91	13.38	13.26	-	558.15	557.71	578.02	547.64	-
Ship and boat building and repairing .....	373	10.41	10.48	10.74	10.61	-	425.77	425.49	433.90	416.97	-
Ship building and repairing .....	3731	11.64	11.66	11.88	11.72	-	481.90	481.56	488.27	462.94	-
Boat building and repairing .....	3732	8.64	8.71	8.72	8.71	-	348.19	345.79	342.70	339.69	-
Railroad equipment .....	374	12.76	12.57	13.06	13.19	-	544.85	527.94	545.91	523.64	-
Guided missiles, space vehicles, and parts .....	376	13.59	13.60	14.20	14.15	-	576.22	580.72	602.08	585.81	-
Guided missiles and space vehicles .....	3761	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	-	-	-	-	-	-
Miscellaneous transportation equipment .....	379	\$10.27	\$10.24	\$10.64	\$10.51	-	\$411.83	\$404.48	\$421.34	\$410.94	-
Travel trailers and campers .....	3792	9.07	8.98	9.39	9.44	-	353.73	344.83	362.45	355.89	-
Instruments and related products .....	38	10.17	10.17	10.57	10.57	10.62	420.02	414.94	435.48	428.09	440.73
Engineering and scientific instruments .....	381	11.38	11.37	11.84	11.86	-	479.10	472.99	504.38	494.56	-
Measuring and controlling devices .....	382	9.96	9.93	10.33	10.36	-	407.36	403.16	423.53	420.62	-
Environmental controls .....	3822	9.38	9.28	9.27	9.26	-	373.32	369.34	376.36	361.14	-
Process control instruments .....	3823	9.57	9.50	10.06	10.19	-	405.77	407.55	432.58	424.92	-
Instruments to measure electricity .....	3825	10.04	10.17	10.71	10.77	-	407.62	404.77	431.61	440.49	-
Optical instruments and lenses .....	383	11.18	11.14	11.85	11.93	-	476.27	474.56	495.33	487.94	-
Medical instruments and supplies .....	384	9.18	9.26	9.57	9.48	-	373.63	372.25	394.28	380.15	-
Surgical and medical instruments .....	3841	9.31	9.38	9.71	9.64	-	378.92	374.26	399.08	392.35	-
Surgical appliances and supplies .....	3842	9.00	9.11	9.40	9.31	-	364.50	368.04	385.40	367.75	-
Ophthalmic goods .....	385	7.65	7.71	8.17	8.10	-	307.53	312.26	324.35	316.71	-
Photographic equipment and supplies .....	386	13.41	13.35	14.15	14.25	-	588.70	568.71	584.40	589.95	-
Watches, clocks, and watchcases .....	387	7.46	7.46	7.62	7.61	-	291.69	291.69	297.18	280.05	-
Miscellaneous manufacturing .....	39	8.21	8.24	8.60	8.60	8.55	325.12	324.66	338.84	327.66	335.16
Jewelry, silverware, and plated ware .....	391	8.85	8.81	9.25	9.30	-	338.07	336.54	351.50	347.82	-
Jewelry, precious metal .....	3911	8.89	8.80	9.21	9.23	-	337.82	334.40	345.38	343.36	-
Musical instruments .....	393	8.17	8.20	8.49	8.53	-	322.72	321.44	339.60	322.43	-
Toys and sporting goods .....	394	7.47	7.53	7.86	7.89	-	298.05	299.69	312.04	299.82	-
Dolls, games, toys, and children's vehicles .....	3942,4	7.39	7.41	7.89	7.79	-	283.78	282.32	303.77	287.45	-
Sporting and athletic goods, nec .....	3949	7.52	7.61	7.84	7.95	-	307.57	312.01	317.52	307.67	-
Pens, pencils, office, and art supplies .....	395	8.03	8.09	8.88	8.83	-	323.61	323.60	357.86	343.49	-
Costume jewelry and notions .....	396	6.99	7.03	7.26	7.32	-	271.21	267.14	284.59	279.62	-
Costume jewelry .....	3961	6.55	6.56	6.72	6.77	-	246.94	240.10	263.42	259.97	-
Miscellaneous manufactures .....	399	8.98	9.00	9.35	9.29	-	358.30	360.00	368.39	354.88	-
Signs and advertising displays .....	3993	9.21	9.35	9.78	9.73	-	362.87	373.07	391.20	382.39	-
<b>Nondurable goods .....</b>		9.65	9.68	10.02	10.07	10.10	386.97	387.20	398.80	394.74	404.00
Food and kindred products .....	20	9.32	9.34	9.56	9.56	9.60	372.80	377.34	382.40	379.53	391.68
Meat products .....	201	7.69	7.72	7.90	7.91	-	304.52	313.43	308.89	307.70	-
Meat packing plants .....	2011	8.48	8.64	8.67	8.64	-	345.98	357.70	348.53	349.92	-
Sausages and other prepared meats .....	2013	9.14	9.14	9.31	9.37	-	369.26	380.22	379.85	379.49	-
Poultry dressing plants .....	2016	6.55	6.50	6.83	6.82	-	250.87	258.70	258.17	253.70	-
Dairy products .....	202	10.05	10.14	10.40	10.35	-	414.06	414.73	428.48	428.49	-
Cheese, natural and processed .....	2022	9.30	9.46	9.61	9.58	-	372.93	369.89	379.60	382.24	-
Fluid milk .....	2026	10.52	10.58	10.79	10.85	-	438.68	440.13	449.94	457.87	-
Preserved fruits and vegetables .....	203	8.75	8.78	9.02	8.92	-	343.88	343.30	356.29	349.66	-
Canned specialties .....	2032	10.71	10.80	10.85	10.70	-	440.18	448.20	439.43	422.65	-
Canned fruits and vegetables .....	2033	8.84	8.81	9.31	9.17	-	342.11	352.40	364.95	359.46	-
Frozen fruits and vegetables .....	2037	7.98	7.91	8.21	8.13	-	312.02	293.46	320.19	307.31	-
Grain mill products .....	204	11.25	11.31	11.16	11.12	-	491.63	494.25	489.92	477.05	-
Flour and other grain mill products .....	2041	10.91	10.84	10.62	10.36	-	478.95	491.05	494.89	476.56	-
Prepared feeds, nec .....	2048	8.79	8.75	8.98	9.06	-	374.45	371.00	384.34	380.52	-
Bakery products .....	205	10.41	10.45	10.75	10.80	-	405.99	414.87	425.70	423.36	-
Bread, cake, and related products .....	2051	10.39	10.42	10.72	10.81	-	401.05	406.38	421.30	428.08	-
Cookies and crackers .....	2052	10.46	10.53	10.83	10.76	-	420.49	435.94	437.53	412.11	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>b</sup>	May 1990 <sup>b</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>b</sup>	May 1990 <sup>b</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	39.4	40.1	39.6	39.3	-	2.8	3.1	3.0	2.5	-
Cane and beet sugar .....	2061-3	42.2	43.0	40.8	40.9	-	3.8	4.0	4.7	4.6	-
Confectionery products .....	2065	37.8	38.7	38.6	38.7	-	2.2	2.7	2.4	1.9	-
Fats and oils .....	207	43.4	43.1	42.7	43.6	-	5.1	5.0	4.8	5.3	-
Beverages .....	208	41.4	41.8	41.0	41.1	-	3.9	4.2	4.3	4.8	-
Malt beverages .....	2082	43.6	43.6	43.2	43.4	-	5.8	6.2	6.9	8.4	-
Bottled and canned soft drinks .....	2086	40.5	41.2	40.3	40.3	-	3.5	4.0	3.6	3.5	-
Misc. food and kindred products .....	209	38.4	38.5	39.0	38.5	-	3.6	4.0	4.1	3.9	-
Tobacco manufactures .....	21	38.1	39.5	38.8	38.0	39.0	1.8	2.3	2.1	1.7	-
Cigarettes .....	211	38.4	39.9	39.1	38.3	-	1.9	2.6	2.3	1.8	-
Textile mill products .....	22	41.2	41.2	39.9	39.1	40.6	4.1	4.0	3.6	2.7	-
Weaving mills, cotton .....	221	41.6	41.6	40.0	39.0	-	4.6	4.4	4.1	3.3	-
Weaving mills, synthetics .....	222	41.3	41.5	40.7	39.9	-	4.2	4.2	3.6	2.8	-
Weaving and finishing mills, wool .....	223	41.3	41.3	40.2	37.6	-	3.3	3.1	3.2	.9	-
Narrow fabric mills .....	224	42.3	41.8	40.4	40.0	-	4.1	3.6	2.4	2.3	-
Knitting mills .....	225	40.2	40.2	38.2	37.5	-	3.7	3.5	2.7	2.1	-
Women's hosiery, except socks .....	2251	38.6	38.1	37.8	37.0	-	2.5	2.2	2.5	1.9	-
Hosiery, nec .....	2252	39.5	39.0	36.4	35.5	-	3.2	3.0	1.6	1.1	-
Knit outerwear mills .....	2253	39.9	40.4	37.6	37.4	-	3.7	4.0	3.1	2.6	-
Knit underwear mills .....	2254	40.0	40.0	38.8	37.1	-	2.3	2.2	1.9	.3	-
Circular knit fabric mills .....	2257	42.0	41.6	40.3	39.5	-	5.0	4.5	3.7	3.1	-
Textile finishing, except wool .....	226	43.3	42.7	41.7	40.6	-	5.3	5.0	4.9	3.3	-
Finishing plants, cotton .....	2261	43.3	42.7	41.6	40.5	-	5.1	4.8	4.7	3.1	-
Finishing plants, synthetics .....	2262	43.2	42.7	42.3	40.7	-	5.4	5.1	5.2	3.5	-
Floor covering mills .....	227	41.6	41.7	42.0	41.7	-	4.1	4.4	4.6	3.1	-
Yarn and thread mills .....	228	41.0	41.0	39.5	38.8	-	4.0	4.1	3.7	2.8	-
Yarn mills, except wool .....	2281	41.4	41.3	40.0	39.3	-	4.3	4.4	4.0	3.0	-
Throwing and winding mills .....	2282	39.3	39.6	36.7	38.0	-	2.5	2.6	2.3	2.5	-
Miscellaneous textile goods .....	229	41.7	41.8	41.6	40.6	-	3.9	3.8	3.9	3.1	-
Apparel and other textile products .....	23	37.1	37.0	36.2	35.2	36.5	1.9	1.8	1.5	1.0	-
Men's and boys' suits and coats .....	231	36.2	36.2	34.8	33.7	-	1.1	.9	.7	.4	-
Men's and boys' furnishings .....	232	37.1	37.0	35.9	34.9	-	1.6	1.5	1.1	.8	-
Men's and boys' shirts and nightwear .....	2321	37.2	37.3	36.0	35.1	-	1.4	1.3	1.1	.6	-
Men's and boys' separate trousers .....	2327	36.4	36.1	35.1	33.6	-	1.5	1.3	1.5	.9	-
Men's and boys' work clothing .....	2328	36.8	36.6	35.7	34.2	-	1.7	1.8	1.0	.8	-
Women's and misses' outerwear .....	233	35.7	35.6	35.0	33.8	-	1.6	1.6	1.5	1.1	-
Women's and misses' blouses and waists .....	2331	36.0	35.8	35.3	33.9	-	1.3	1.0	1.2	.7	-
Women's and misses' dresses .....	2335	35.1	34.8	34.0	32.3	-	1.5	1.6	1.4	1.0	-
Women's and misses' suits and coats .....	2337	36.0	36.7	34.9	33.9	-	2.2	2.2	1.1	.7	-
Women's and misses' outerwear, nec .....	2339	35.9	35.6	35.4	34.4	-	1.6	1.6	1.7	1.2	-
Women's and children's undergarments .....	234	37.6	37.6	37.0	36.3	-	1.5	1.6	1.4	.7	-
Women's and children's underwear .....	2341	37.8	37.9	37.2	36.7	-	1.5	1.5	1.4	.7	-
Brassieres and allied garments .....	2342	36.4	36.0	35.7	34.2	-	1.7	1.9	1.4	.9	-
Children's outerwear .....	236	36.3	36.8	36.0	34.8	-	1.7	1.8	1.6	.9	-
Children's dresses and blouses .....	2361	35.0	35.8	35.6	35.0	-	1.7	1.6	2.0	1.1	-
Misc. apparel and accessories .....	238	37.9	38.2	36.9	36.1	-	2.0	2.2	1.1	.9	-
Misc. fabricated textile products .....	239	39.5	39.1	38.4	37.3	-	3.1	2.8	2.3	1.5	-
Curtains and draperies .....	2391	39.3	38.4	36.6	36.2	-	2.5	2.4	1.5	1.3	-
House furnishings, nec .....	2392	38.7	38.7	37.7	36.7	-	2.5	2.5	1.5	1.0	-
Automotive and apparel trimmings .....	2396	42.0	41.1	40.7	39.3	-	5.5	4.6	3.7	2.2	-
Paper and allied products .....	26	43.1	43.1	42.9	42.4	43.3	4.9	4.9	4.7	4.5	-
Paper and pulp mills .....	261,2,6	45.4	45.4	44.9	45.7	-	6.5	6.7	6.2	7.2	-
Paper mills, except building paper .....	262	45.6	45.6	45.1	46.1	-	6.6	6.8	6.3	7.4	-
Paperboard mills .....	263	44.2	44.4	44.5	45.3	-	6.4	6.7	6.8	7.9	-
Misc. converted paper products .....	264	41.5	41.6	41.5	40.6	-	3.6	3.6	3.7	3.0	-
Paper coating and glazing .....	2641	43.7	43.2	43.4	41.9	-	4.1	3.8	4.4	3.2	-
Envelopes .....	2642	40.6	41.2	41.9	40.5	-	2.8	2.9	3.6	2.9	-
Bags, except textile bags .....	2643	40.5	41.0	41.0	40.5	-	3.6	4.0	3.9	3.3	-
Paperboard containers and boxes .....	265	42.4	42.3	42.0	40.7	-	4.4	4.3	3.9	3.0	-
Folding paperboard boxes .....	2651	42.0	42.1	41.6	40.0	-	4.3	4.2	4.1	2.5	-
Corrugated and solid fiber boxes .....	2653	43.0	42.8	42.4	41.0	-	4.8	4.6	4.1	3.5	-
Sanitary food containers .....	2654	41.8	42.4	43.6	41.4	-	4.4	4.8	4.2	2.9	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	\$9.96	\$9.98	\$10.23	\$10.30	-	\$392.42	\$400.20	\$405.11	\$404.79	-
Cane and beet sugar .....	2061-3	11.66	11.52	11.82	12.10	-	492.05	495.36	482.26	494.89	-
Confectionery products .....	2065	8.77	8.87	9.18	9.21	-	331.51	343.27	354.35	356.43	-
Fats and oils .....	207	9.64	9.72	9.94	10.06	-	418.38	418.93	424.44	438.62	-
Beverages .....	208	12.81	12.74	13.37	13.50	-	530.33	532.53	548.17	554.85	-
Malt beverages .....	2082	17.89	17.76	18.81	18.93	-	780.00	774.34	812.59	821.56	-
Bottled and canned soft drinks .....	2086	10.26	10.24	10.51	10.58	-	415.53	421.89	423.55	426.37	-
Misc. food and kindred products .....	209	8.68	8.74	8.95	8.98	-	333.31	336.49	349.05	345.73	-
Tobacco manufactures .....	21	15.87	16.13	16.46	17.11	\$17.12	604.65	637.14	638.65	650.18	\$667.68
Cigarettes .....	211	18.13	18.27	19.29	19.14	-	696.19	728.97	754.24	733.06	-
Textile mill products .....	22	7.60	7.62	7.95	7.92	8.00	313.12	313.94	317.21	309.67	324.80
Weaving mills, cotton .....	221	7.96	7.94	8.23	8.12	-	331.14	330.30	329.20	316.68	-
Weaving mills, synthetics .....	222	8.22	8.26	8.50	8.57	-	339.49	342.79	345.95	341.94	-
Weaving and finishing mills, wool .....	223	8.41	8.42	8.53	8.43	-	347.33	347.75	342.91	316.97	-
Narrow fabric mills .....	224	7.12	7.11	7.27	7.31	-	301.18	297.20	293.71	292.40	-
Knitting mills .....	225	6.85	6.86	7.27	7.29	-	275.37	275.77	277.71	273.38	-
Women's hosiery, except socks .....	2251	6.78	6.75	6.80	6.76	-	261.71	257.18	257.04	250.12	-
Hosiery, nec .....	2252	6.66	6.69	6.89	6.99	-	263.07	260.91	250.80	248.15	-
Knit outerwear mills .....	2253	6.39	6.44	7.15	7.20	-	254.96	260.18	268.84	269.28	-
Knit underwear mills .....	2254	6.82	6.79	7.41	7.33	-	272.80	271.60	287.51	271.94	-
Circular knit fabric mills .....	2257	7.75	7.70	8.00	8.01	-	325.50	320.32	322.40	316.40	-
Textile finishing, except wool .....	226	8.06	8.07	8.33	8.25	-	349.00	344.59	347.36	334.95	-
Finishing plants, cotton .....	2261	8.04	8.03	8.27	8.17	-	348.13	342.88	344.03	330.89	-
Finishing plants, synthetics .....	2262	8.39	8.44	8.71	8.63	-	362.45	360.39	368.43	351.24	-
Floor covering mills .....	227	7.84	7.91	8.29	8.22	-	326.14	329.85	348.18	342.77	-
Yarn and thread mills .....	228	7.33	7.34	7.64	7.63	-	300.53	300.94	301.78	296.04	-
Yarn mills, except wool .....	2281	7.33	7.34	7.65	7.62	-	303.46	303.14	306.00	299.47	-
Throwing and winding mills .....	2282	7.34	7.37	7.78	7.89	-	288.46	291.85	285.53	299.82	-
Miscellaneous textile goods .....	229	8.59	8.59	8.86	8.82	-	358.20	359.06	368.58	358.09	-
Apparel and other textile products .....	23	6.32	6.32	6.53	6.57	6.59	234.47	233.84	236.39	231.26	240.54
Men's and boys' suits and coats .....	231	7.05	7.05	7.38	7.36	-	255.21	255.21	256.82	248.03	-
Men's and boys' furnishings .....	232	5.77	5.79	6.02	6.16	-	214.07	214.23	216.12	214.98	-
Men's and boys' shirts and nightwear .....	2321	5.67	5.70	6.00	6.14	-	210.92	212.61	216.00	215.51	-
Men's and boys' separate trousers .....	2327	5.59	5.60	5.74	5.92	-	203.48	202.16	201.47	198.91	-
Men's and boys' work clothing .....	2328	5.69	5.74	5.88	6.08	-	209.39	210.08	209.92	207.94	-
Women's and misses' outerwear .....	233	6.05	6.05	6.19	6.22	-	215.99	215.38	216.65	210.24	-
Women's and misses' blouses and waists .....	2331	5.26	5.27	5.50	5.51	-	189.36	188.67	194.15	186.79	-
Women's and misses' dresses .....	2335	6.48	6.56	6.59	6.61	-	227.45	228.29	224.06	213.50	-
Women's and misses' suits and coats .....	2337	6.30	6.34	6.59	6.69	-	226.80	232.68	229.99	226.79	-
Women's and misses' outerwear, nec .....	2339	6.01	5.96	6.10	6.12	-	215.76	212.18	215.94	210.53	-
Women's and children's undergarments .....	234	5.90	5.95	6.15	6.20	-	221.84	223.72	227.55	225.06	-
Women's and children's underwear .....	2341	5.75	5.78	5.98	6.05	-	217.35	219.06	222.46	222.04	-
Brassieres and allied garments .....	2342	6.71	6.81	7.02	7.02	-	244.24	245.16	250.61	240.08	-
Children's outerwear .....	236	5.64	5.60	5.80	5.82	-	204.73	206.08	208.80	202.54	-
Children's dresses and blouses .....	2361	5.67	5.62	5.76	5.74	-	198.45	201.20	205.06	200.90	-
Misc. apparel and accessories .....	238	6.11	6.14	6.33	6.38	-	231.57	234.55	233.58	230.32	-
Misc. fabricated textile products .....	239	7.62	7.60	7.82	7.75	-	300.99	297.16	300.29	289.08	-
Curtains and draperies .....	2391	6.29	6.30	6.45	6.53	-	247.20	241.92	236.07	236.39	-
House furnishings, nec .....	2392	6.35	6.39	6.56	6.55	-	245.75	247.29	247.31	240.39	-
Automotive and apparel trimmings .....	2396	11.81	11.72	11.60	11.27	-	496.02	481.69	472.12	442.91	-
Paper and allied products .....	26	11.83	11.89	12.13	12.26	12.31	509.87	512.46	520.38	519.82	533.02
Paper and pulp mills .....	261,2,6	14.58	14.62	14.99	15.21	-	661.93	663.75	673.05	695.10	-
Paper mills, except building paper .....	262	14.61	14.63	14.96	15.15	-	666.22	667.13	674.70	698.42	-
Paperboard mills .....	263	14.51	14.67	14.97	15.19	-	641.34	651.35	666.17	688.11	-
Misc. converted paper products .....	264	10.30	10.31	10.59	10.60	-	427.45	428.90	439.49	430.36	-
Paper coating and glazing .....	2641	11.48	11.43	11.95	11.97	-	501.68	493.78	518.63	501.54	-
Envelopes .....	2642	9.72	9.65	9.98	9.94	-	394.63	397.58	418.16	402.57	-
Bags, except textile bags .....	2643	9.43	9.50	9.86	9.93	-	381.92	389.50	404.26	402.17	-
Paperboard containers and boxes .....	265	10.09	10.16	10.25	10.21	-	427.82	429.77	430.50	415.55	-
Folding paperboard boxes .....	2651	10.50	10.56	10.85	10.75	-	441.00	444.58	451.36	430.00	-
Corrugated and solid fiber boxes .....	2653	10.26	10.33	10.37	10.33	-	441.18	442.12	439.69	423.53	-
Sanitary food containers .....	2654	9.93	10.01	9.75	9.89	-	415.07	424.42	425.10	409.45	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	37.8	37.4	38.0	37.3	37.5	2.9	2.7	3.0	2.5	-
Newspapers .....	271	33.0	33.0	32.9	32.7	-	1.2	1.3	1.2	1.2	-
Periodicals .....	272	37.8	37.7	38.0	37.6	-	3.0	2.6	3.2	2.9	-
Books .....	273	39.6	39.3	39.3	37.8	-	3.7	3.4	3.3	2.5	-
Book publishing .....	2731	39.4	38.9	39.8	38.3	-	3.3	3.0	3.1	2.4	-
Book printing .....	2732	39.9	40.0	38.6	37.1	-	4.4	4.1	3.7	2.7	-
Miscellaneous publishing .....	274	36.3	36.0	37.0	36.8	-	1.8	1.9	1.9	1.9	-
Commercial printing .....	275	39.2	38.6	39.4	38.6	-	3.4	3.1	3.7	3.0	-
Commercial printing, letterpress .....	2751	39.1	38.6	39.2	38.3	-	3.1	2.8	3.3	2.5	-
Commercial printing, lithographic .....	2752	39.1	38.4	39.3	38.6	-	3.5	3.0	3.8	3.2	-
Manifold business forms .....	276	40.8	40.8	41.5	40.7	-	3.2	3.3	3.0	2.3	-
Blankbooks and bookbinding .....	278	38.4	38.3	37.4	36.7	-	3.1	2.8	2.5	2.2	-
Printing trade services .....	279	38.9	38.0	39.2	38.7	-	3.9	3.4	4.3	3.6	-
Chemicals and allied products .....	28	42.5	42.1	42.5	42.6	42.2	4.2	4.0	4.3	4.1	-
Industrial inorganic chemicals .....	281	43.0	42.7	42.9	43.5	-	4.2	4.3	4.5	5.0	-
Industrial inorganic chemicals, nec .....	2819	42.7	42.5	42.8	43.4	-	4.0	4.0	4.5	4.9	-
Plastics materials and synthetics .....	282	43.1	43.0	42.3	43.3	-	4.9	4.9	4.9	5.2	-
Plastics materials and resins .....	2821	43.9	43.4	43.7	44.6	-	5.3	5.1	5.4	5.8	-
Organic fibers, noncellulosic .....	2824	42.9	43.0	40.9	42.0	-	4.6	4.6	4.4	4.2	-
Drugs .....	283	41.8	41.2	41.4	41.4	-	3.5	3.5	3.7	3.3	-
Pharmaceutical preparations .....	2834	41.2	40.8	41.4	41.5	-	3.5	3.5	3.7	3.3	-
Soap, cleaners, and toilet goods .....	284	39.9	39.5	41.2	39.8	-	2.7	2.4	3.1	2.2	-
Soap and other detergents .....	2841	42.3	41.6	42.7	40.8	-	4.5	4.4	4.4	2.6	-
Polishing, sanitation, and finishing preparations .....	2842,3	40.8	40.3	41.5	40.7	-	2.9	2.5	2.9	2.3	-
Toilet preparations .....	2844	38.1	38.0	40.1	38.7	-	1.5	1.3	2.3	1.9	-
Paints and allied products .....	285	41.4	41.9	41.9	41.1	-	3.4	3.6	3.6	3.2	-
Industrial organic chemicals .....	286	45.3	44.4	44.5	44.9	-	6.0	5.5	5.6	5.3	-
Cyclic crudes and intermediates .....	2865	44.1	44.2	44.3	44.7	-	5.5	5.4	5.8	5.3	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	45.6	44.4	44.5	44.9	-	6.1	5.5	5.5	5.3	-
Agricultural chemicals .....	287	44.5	43.1	44.5	45.3	-	5.9	4.9	5.8	6.2	-
Miscellaneous chemical products .....	289	42.1	42.0	42.7	42.4	-	3.6	3.5	3.9	3.1	-
Petroleum and coal products .....	29	44.3	43.9	44.2	44.2	43.3	5.8	5.7	5.8	6.0	-
Petroleum refining .....	291	44.7	44.1	44.4	44.8	-	5.9	5.7	5.6	6.0	-
Paving and roofing materials .....	295	44.0	44.2	44.9	43.8	-	6.2	6.8	7.9	7.1	-
Rubber and misc. plastics products .....	30	41.5	41.5	41.3	40.1	41.5	4.0	3.8	3.7	2.8	-
Tires and inner tubes .....	301	44.7	46.0	43.4	40.9	-	6.0	6.0	4.9	3.1	-
Rubber and plastics footwear .....	302	40.1	40.4	41.3	38.8	-	1.7	1.8	2.3	1.5	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	42.4	42.8	43.7	41.7	-	4.1	4.2	5.2	3.6	-
Fabricated rubber products, nec .....	306	41.1	40.5	41.5	39.6	-	3.3	2.9	3.3	2.1	-
Miscellaneous plastics products .....	307	41.1	41.0	40.9	40.0	-	3.9	3.7	3.6	2.8	-
Leather and leather products .....	31	37.8	37.6	37.3	36.3	37.4	1.8	1.8	1.8	1.3	-
Leather tanning and finishing .....	311	41.6	42.0	42.1	40.6	-	4.3	4.6	4.0	3.1	-
Footwear, except rubber .....	314	37.4	37.1	36.3	35.7	-	1.4	1.3	1.2	.8	-
Men's footwear, except athletic .....	3143	37.3	37.7	36.6	35.1	-	1.1	1.1	1.0	.5	-
Women's footwear, except athletic .....	3144	37.5	36.0	35.7	35.7	-	2.0	1.5	1.1	.9	-
Luggage .....	316	39.9	39.5	38.0	37.3	-	2.3	2.5	1.6	1.4	-
Handbags and personal leather goods .....	317	35.6	35.8	37.5	34.6	-	1.4	1.6	2.6	2.0	-
<b>Transportation and public utilities .....</b>		<b>39.8</b>	<b>39.3</b>	<b>39.1</b>	<b>39.1</b>	<b>39.3</b>	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	47.0	45.3	45.5	44.5	-	-	-	-	-	-
Local and interurban passenger transit .....	41	34.2	34.3	33.0	32.7	-	-	-	-	-	-
Local and suburban transportation .....	411	38.3	38.1	38.1	38.3	-	-	-	-	-	-
Intercity highway transportation .....	413	40.2	39.8	34.7	37.7	-	-	-	-	-	-
Trucking and warehousing .....	42	38.2	38.3	38.0	38.0	-	-	-	-	-	-
Trucking and trucking terminals .....	421,3	38.2	38.3	37.9	37.9	-	-	-	-	-	-
Public warehousing .....	422	39.1	38.9	39.3	39.0	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	42.4	41.0	41.5	41.6	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$10.73	\$10.76	\$11.13	\$11.08	\$11.12	\$405.59	\$402.42	\$422.94	\$413.28	\$417.00
Newspapers .....	271	10.71	10.73	11.18	11.17	-	353.43	354.09	367.82	365.26	-
Periodicals .....	272	11.44	11.37	11.93	12.02	-	432.43	428.65	453.34	451.95	-
Books .....	273	9.39	9.41	9.72	9.78	-	371.84	369.81	382.00	369.68	-
Book publishing .....	2731	8.94	9.00	9.40	9.54	-	352.24	350.10	374.12	365.38	-
Book printing .....	2732	10.09	10.04	10.23	10.18	-	402.59	401.60	394.88	377.68	-
Miscellaneous publishing .....	274	10.05	10.14	10.04	10.13	-	364.82	365.04	371.48	372.78	-
Commercial printing .....	275	10.98	11.03	11.44	11.31	-	430.42	425.76	450.74	436.57	-
Commercial printing, letterpress .....	2751	10.68	10.73	11.08	10.99	-	417.59	414.18	434.34	420.92	-
Commercial printing, lithographic .....	2752	11.10	11.14	11.57	11.42	-	434.01	427.78	454.70	440.81	-
Manifold business forms .....	276	11.20	11.23	11.43	11.47	-	456.96	458.18	474.35	466.83	-
Blankbooks and bookbinding .....	278	8.60	8.67	8.80	8.84	-	330.24	332.06	329.12	324.43	-
Printing trade services .....	279	13.50	13.44	13.83	13.69	-	525.15	510.72	542.14	529.80	-
Chemicals and allied products .....	28	12.92	12.98	13.30	13.45	13.45	549.10	546.46	565.25	572.97	567.59
Industrial inorganic chemicals .....	281	14.17	14.18	14.49	14.67	-	609.31	605.49	621.62	638.15	-
Industrial inorganic chemicals, nec .....	2819	14.22	14.24	14.60	14.83	-	607.19	605.20	624.88	643.62	-
Plastics materials and synthetics .....	282	13.27	13.32	13.74	14.09	-	571.94	572.76	581.20	610.10	-
Plastics materials and resins .....	2821	14.24	14.24	14.43	14.83	-	625.14	618.02	630.59	661.42	-
Organic fibers, noncellulosic .....	2824	12.49	12.61	13.24	13.55	-	535.82	542.23	541.52	569.10	-
Drugs .....	283	12.32	12.44	12.71	12.73	-	514.98	512.53	526.19	527.02	-
Pharmaceutical preparations .....	2834	12.22	12.39	12.66	12.68	-	503.46	505.51	524.12	526.22	-
Soap, cleaners, and toilet goods .....	284	11.14	11.13	11.60	11.54	-	444.49	439.64	477.92	459.29	-
Soap and other detergents .....	2841	14.83	14.88	15.40	15.14	-	627.31	619.01	657.58	617.71	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.32	10.22	10.28	10.29	-	421.06	411.87	426.62	418.80	-
Toilet preparations .....	2844	9.34	9.39	9.88	9.94	-	355.85	356.82	396.19	384.68	-
Paints and allied products .....	285	11.58	11.64	11.86	11.93	-	479.41	487.72	496.93	490.32	-
Industrial organic chemicals .....	286	15.43	15.57	15.70	15.82	-	698.98	691.31	698.65	710.32	-
Cyclic crudes and intermediates .....	2865	15.19	15.41	15.86	16.00	-	669.88	681.12	702.60	715.20	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	15.49	15.61	15.65	15.77	-	706.34	693.08	696.43	708.07	-
Agricultural chemicals .....	287	12.35	12.43	13.21	13.23	-	549.58	535.73	587.85	599.32	-
Miscellaneous chemical products .....	289	11.78	11.84	12.02	12.22	-	495.94	497.28	513.25	518.13	-
Petroleum and coal products .....	29	15.50	15.34	16.14	16.35	16.08	686.65	673.43	713.39	722.67	696.26
Petroleum refining .....	291	16.76	16.61	17.44	17.71	-	749.17	732.50	774.34	793.41	-
Paving and roofing materials .....	295	11.81	12.08	12.33	12.41	-	519.64	533.94	553.62	543.56	-
Rubber and misc. plastics products .....	30	9.35	9.40	9.62	9.60	9.77	388.03	390.10	397.31	384.96	405.46
Tires and inner tubes .....	301	15.01	15.01	15.19	15.03	-	670.95	690.46	659.25	614.73	-
Rubber and plastics footwear .....	302	6.42	6.60	6.57	6.64	-	257.44	266.64	271.34	257.63	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	9.35	9.38	9.90	9.85	-	396.44	401.46	432.63	410.75	-
Fabricated rubber products, nec .....	306	8.83	8.81	9.17	9.20	-	362.91	356.81	380.56	364.32	-
Miscellaneous plastics products .....	307	8.68	8.72	8.98	8.97	-	356.75	357.52	367.28	358.80	-
Leather and leather products .....	31	6.55	6.58	6.84	6.93	6.91	247.59	247.41	255.13	251.56	258.43
Leather tanning and finishing .....	311	8.71	8.68	8.91	9.04	-	362.34	364.56	375.11	367.02	-
Footwear, except rubber .....	314	6.26	6.27	6.56	6.64	-	234.12	232.62	238.13	237.05	-
Men's footwear, except athletic .....	3143	6.69	6.69	7.05	7.17	-	249.54	252.21	258.03	251.67	-
Women's footwear, except athletic .....	3144	5.91	5.92	6.06	6.17	-	221.63	213.12	216.34	220.27	-
Luggage .....	316	6.60	6.65	6.83	7.06	-	263.34	262.68	259.54	263.34	-
Handbags and personal leather goods .....	317	5.83	5.93	6.04	6.04	-	207.55	212.29	226.50	208.98	-
<b>Transportation and public utilities .....</b>		<b>12.51</b>	<b>12.49</b>	<b>12.82</b>	<b>12.93</b>	<b>12.88</b>	<b>497.90</b>	<b>490.86</b>	<b>501.26</b>	<b>505.56</b>	<b>506.18</b>
Railroad transportation:											
Class I railroads <sup>a</sup> .....	4011	15.33	15.29	16.10	16.25	-	720.51	692.64	732.55	723.13	-
Local and interurban passenger transit .....	41	8.70	8.69	8.89	8.94	-	297.54	298.07	293.37	292.34	-
Local and suburban transportation .....	411	9.57	9.50	9.79	9.95	-	366.53	361.95	373.00	381.09	-
Intercity highway transportation .....	413	11.53	11.39	10.68	10.87	-	463.51	453.32	370.60	409.80	-
Trucking and warehousing .....	42	11.30	11.33	11.67	11.71	-	431.66	433.94	443.46	444.98	-
Trucking and trucking terminals .....	421,3	11.47	11.48	11.85	11.87	-	438.15	439.68	449.12	449.87	-
Public warehousing .....	422	9.19	9.29	9.41	9.55	-	359.33	361.38	369.81	372.45	-
Pipe lines, except natural gas .....	46	16.33	15.94	16.90	16.97	-	692.39	653.54	701.35	705.95	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	39.2	39.2	39.3	39.5	-	-	-	-	-	-
Telephone communication .....	481	40.6	40.8	41.0	41.1	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.5	34.8	34.7	35.1	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	41.9	41.8	41.7	41.8	-	-	-	-	-	-
Electric services .....	491	42.1	42.1	41.6	41.9	-	-	-	-	-	-
Gas production and distribution .....	492	41.9	41.2	41.8	41.6	-	-	-	-	-	-
Combination utility services .....	493	42.2	42.0	42.2	42.3	-	-	-	-	-	-
Sanitary services .....	495	41.6	41.9	41.7	41.7	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>38.2</b>	<b>37.9</b>	<b>37.9</b>	<b>38.1</b>	<b>38.0</b>	-	-	-	-	-
Durable goods .....	50	38.7	38.4	38.5	38.5	-	-	-	-	-	-
Motor vehicles and automotive equipment .....	501	37.6	37.2	37.8	37.9	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.7	37.1	36.9	36.9	-	-	-	-	-	-
Lumber and construction materials .....	503	39.7	39.4	39.2	39.7	-	-	-	-	-	-
Sporting goods, toys, and hobby goods .....	504	35.6	34.9	35.8	35.9	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.6	40.3	40.2	39.7	-	-	-	-	-	-
Electrical goods .....	506	38.4	37.9	38.5	38.5	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.7	38.4	38.6	38.5	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	39.2	39.0	38.7	38.9	-	-	-	-	-	-
Miscellaneous durable goods .....	509	38.5	38.3	37.7	37.4	-	-	-	-	-	-
Nondurable goods .....	51	37.4	37.2	37.1	37.5	-	-	-	-	-	-
Paper and paper products .....	511	37.3	36.6	37.3	37.7	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	36.8	37.1	37.2	37.2	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.0	35.7	36.5	36.1	-	-	-	-	-	-
Groceries and related products .....	514	37.7	37.6	37.5	37.9	-	-	-	-	-	-
Chemicals and allied products .....	516	39.9	39.7	39.4	39.2	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.6	38.1	37.9	38.4	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	36.2	36.1	36.4	36.5	-	-	-	-	-	-
Miscellaneous nondurable goods .....	519	37.0	37.0	36.3	37.0	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>28.9</b>	<b>28.8</b>	<b>28.5</b>	<b>29.0</b>	<b>28.8</b>	-	-	-	-	-
Building materials and garden supplies .....	52	36.2	36.2	35.7	36.0	-	-	-	-	-	-
Lumber and other building materials .....	521	38.0	38.0	37.7	37.7	-	-	-	-	-	-
Hardware stores .....	525	32.1	32.1	31.7	32.0	-	-	-	-	-	-
General merchandise stores .....	53	27.1	27.3	27.5	28.0	-	-	-	-	-	-
Department stores .....	531	26.8	27.2	27.3	27.9	-	-	-	-	-	-
Variety stores .....	533	27.8	27.7	28.0	29.2	-	-	-	-	-	-
Misc. general merchandise stores .....	539	28.7	28.4	28.3	28.6	-	-	-	-	-	-
Food stores .....	54	29.7	29.9	29.1	30.1	-	-	-	-	-	-
Grocery stores .....	541	29.8	30.0	29.2	30.2	-	-	-	-	-	-
Retail bakeries .....	546	29.2	29.4	28.8	30.2	-	-	-	-	-	-
Automotive dealers and service stations .....	55	36.3	35.8	36.1	36.3	-	-	-	-	-	-
New and used car dealers .....	551,2	37.2	36.7	37.1	37.1	-	-	-	-	-	-
Auto and home supply stores .....	553	38.5	37.9	38.1	38.5	-	-	-	-	-	-
Gasoline service stations .....	554	33.8	33.3	33.8	33.9	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.7	26.6	26.8	27.4	-	-	-	-	-	-
Men's and boys' clothing and furnishings .....	561	28.5	28.2	27.6	28.6	-	-	-	-	-	-
Women's ready-to-wear stores .....	562	24.8	24.7	23.8	24.3	-	-	-	-	-	-
Family clothing stores .....	565	26.8	26.4	26.9	27.9	-	-	-	-	-	-
Shoe stores .....	566	28.7	28.6	30.2	31.0	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	32.9	32.6	32.6	32.6	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.5	33.3	33.3	33.2	-	-	-	-	-	-
Household appliance stores .....	572	33.5	33.1	33.3	33.4	-	-	-	-	-	-
Radio, television, and music stores .....	573	31.6	31.3	31.1	31.3	-	-	-	-	-	-
Eating and drinking places <sup>1</sup> .....	58	25.6	25.4	25.0	25.4	-	-	-	-	-	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	May 1990 <sup>P</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$13.01	\$13.04	\$13.26	\$13.26	-	\$509.99	\$511.17	\$521.12	\$523.77	-
Telephone communication .....	481	13.70	13.69	13.93	13.89	-	556.22	558.55	571.13	570.88	-
Radio and television broadcasting .....	483	12.04	12.12	12.29	12.45	-	427.42	421.78	426.46	437.00	-
Electric, gas, and sanitary services .....	49	14.70	14.65	15.05	15.18	-	615.93	612.37	627.59	634.52	-
Electric services .....	491	14.93	14.98	15.72	15.88	-	628.55	630.66	653.95	665.37	-
Gas production and distribution .....	492	13.58	13.52	13.97	14.22	-	569.00	557.02	583.95	591.55	-
Combination utility services .....	493	17.24	17.10	16.98	17.01	-	727.53	718.20	716.56	719.52	-
Sanitary services .....	495	11.30	11.16	11.39	11.43	-	470.08	467.60	474.96	476.63	-
<b>Wholesale trade .....</b>		<b>10.36</b>	<b>10.28</b>	<b>10.65</b>	<b>10.76</b>	<b>\$10.70</b>	<b>395.75</b>	<b>389.61</b>	<b>403.64</b>	<b>409.96</b>	<b>\$406.60</b>
Durable goods .....	50	10.61	10.54	10.94	11.08	-	410.61	404.74	421.19	426.58	-
Motor vehicles and automotive equipment .....	501	9.68	9.53	10.04	10.19	-	363.97	354.52	379.51	386.20	-
Furniture and home furnishings .....	502	9.64	9.66	10.04	10.08	-	363.43	358.39	370.48	371.95	-
Lumber and construction materials .....	503	10.02	9.99	10.29	10.42	-	397.79	393.61	403.37	413.67	-
Sporting goods, toys, and hobby goods .....	504	9.63	9.65	10.54	10.68	-	342.83	336.79	377.33	383.41	-
Metals and minerals, except petroleum .....	505	10.90	10.88	11.15	11.23	-	442.54	438.46	448.23	445.83	-
Electrical goods .....	506	11.06	10.93	11.16	11.32	-	424.70	414.25	429.66	435.82	-
Hardware, plumbing, and heating equipment .....	507	9.99	9.89	10.36	10.54	-	386.61	379.78	399.90	405.79	-
Machinery, equipment, and supplies .....	508	11.37	11.33	11.74	11.88	-	445.70	441.87	454.34	462.13	-
Miscellaneous durable goods .....	509	8.41	8.29	8.59	8.72	-	323.79	317.51	323.84	326.13	-
Nondurable goods .....	51	9.98	9.91	10.22	10.29	-	373.25	368.65	379.16	385.88	-
Paper and paper products .....	511	10.93	10.80	11.33	11.36	-	407.69	395.28	422.61	428.27	-
Drugs, proprietaries, and sundries .....	512	11.53	11.20	11.59	11.82	-	424.30	415.52	431.15	439.70	-
Apparel, piece goods, and notions .....	513	9.96	9.92	10.21	10.34	-	358.56	354.14	372.67	373.27	-
Groceries and related products .....	514	10.11	10.06	10.32	10.37	-	381.15	378.26	387.00	393.02	-
Chemicals and allied products .....	516	12.60	12.39	12.47	12.52	-	502.74	491.88	491.32	490.78	-
Petroleum and petroleum products .....	517	9.96	9.87	10.06	10.13	-	384.46	376.05	381.27	388.99	-
Beer, wine, and distilled beverages .....	518	11.54	11.51	11.85	12.06	-	417.75	415.51	431.34	440.19	-
Miscellaneous nondurable goods .....	519	8.16	8.15	8.46	8.52	-	301.92	301.55	307.10	315.24	-
<b>Retail trade .....</b>		<b>6.52</b>	<b>6.49</b>	<b>6.76</b>	<b>6.78</b>	<b>6.77</b>	<b>188.43</b>	<b>186.91</b>	<b>192.66</b>	<b>196.62</b>	<b>194.98</b>
Building materials and garden supplies .....	52	7.64	7.61	7.89	7.94	-	276.57	275.48	281.67	285.84	-
Lumber and other building materials .....	521	8.05	8.01	8.23	8.33	-	305.90	304.38	310.27	314.04	-
Hardware stores .....	525	6.35	6.36	6.64	6.71	-	203.84	204.16	210.49	214.72	-
General merchandise stores .....	53	6.74	6.73	7.06	7.01	-	182.65	183.73	194.15	196.28	-
Department stores .....	531	7.01	7.00	7.33	7.27	-	187.87	190.40	200.11	202.83	-
Variety stores .....	533	5.30	5.28	5.57	5.58	-	147.34	146.26	155.96	162.94	-
Misc. general merchandise stores .....	539	5.66	5.65	5.95	5.93	-	162.44	160.46	168.39	169.60	-
Food stores .....	54	7.17	7.13	7.34	7.35	-	212.95	213.19	213.59	221.24	-
Grocery stores .....	541	7.28	7.24	7.44	7.45	-	216.94	217.20	217.25	224.99	-
Retail bakeries .....	546	5.97	6.04	6.27	6.38	-	174.32	177.58	180.58	192.68	-
Automotive dealers and service stations .....	55	8.60	8.52	8.85	8.96	-	312.18	305.02	319.49	325.25	-
New and used car dealers .....	551.2	10.49	10.34	10.80	10.97	-	390.23	379.48	400.68	406.99	-
Auto and home supply stores .....	553	7.46	7.48	7.69	7.76	-	287.21	283.49	292.99	298.76	-
Gasoline service stations .....	554	5.94	5.94	6.16	6.18	-	200.77	197.80	208.21	209.50	-
Apparel and accessory stores .....	56	5.96	5.96	6.17	6.23	-	159.13	158.54	165.36	170.70	-
Men's and boys' clothing and furnishings .....	561	7.35	7.44	7.52	7.62	-	209.48	209.81	207.55	217.93	-
Women's ready-to-wear stores .....	562	5.62	5.61	5.88	5.96	-	139.38	138.57	139.94	144.83	-
Family clothing stores .....	565	5.92	5.84	6.11	6.16	-	158.66	154.18	164.36	171.86	-
Shoe stores .....	566	6.02	6.02	6.10	6.14	-	172.77	172.17	184.22	190.34	-
Furniture and home furnishings stores .....	57	8.10	8.16	8.33	8.42	-	266.49	266.02	271.56	274.49	-
Furniture and home furnishings stores .....	571	8.15	8.15	8.33	8.45	-	273.03	271.40	277.39	280.54	-
Household appliance stores .....	572	8.21	8.26	8.46	8.56	-	275.04	273.41	281.72	285.90	-
Radio, television, and music stores .....	573	7.97	8.16	8.30	8.33	-	251.85	255.41	258.13	260.73	-
Eating and drinking places <sup>4</sup> .....	58	4.69	4.71	4.88	4.93	-	120.06	119.63	122.00	125.22	-

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 nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	May 1990 <sup>a</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	29.6	29.9	29.3	29.8	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	27.0	26.9	26.9	27.3	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	28.2	28.1	27.8	28.3	-	-	-	-	-	-
Nonstore retailers .....	596	32.5	32.8	32.6	32.5	-	-	-	-	-	-
Fuel and ice dealers .....	598	38.1	37.5	37.5	37.5	-	-	-	-	-	-
Retail stores, nec .....	599	31.6	33.5	30.5	32.3	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.3</b>	<b>35.6</b>	<b>35.7</b>	<b>36.2</b>	<b>35.6</b>	-	-	-	-	-
Banking .....	60	36.2	35.4	35.5	36.1	-	-	-	-	-	-
Commercial and stock savings banks .....	602	36.2	35.4	35.4	36.1	-	-	-	-	-	-
Credit agencies other than banks .....	61	37.1	36.1	36.3	37.1	-	-	-	-	-	-
Savings and loan associations .....	612	36.3	35.8	35.8	36.5	-	-	-	-	-	-
Personal credit institutions .....	614	36.6	36.0	36.3	36.8	-	-	-	-	-	-
Insurance carriers .....	63	37.4	37.1	37.3	37.6	-	-	-	-	-	-
Life insurance .....	631	37.2	37.0	37.1	37.5	-	-	-	-	-	-
Medical service and health insurance .....	632	38.1	37.7	38.2	37.8	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.2	36.9	37.0	37.4	-	-	-	-	-	-
<b>Services</b> .....		<b>32.8</b>	<b>32.4</b>	<b>32.5</b>	<b>32.7</b>	<b>32.4</b>	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	31.5	31.0	30.5	31.1	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.2	34.5	34.1	34.3	-	-	-	-	-	-
Beauty shops <sup>1</sup> .....	723	30.3	30.0	29.4	29.8	-	-	-	-	-	-
Business services .....	73	33.9	33.6	33.7	33.6	-	-	-	-	-	-
Advertising .....	731	37.2	36.7	36.9	37.5	-	-	-	-	-	-
Services to buildings .....	734	30.0	29.7	29.3	29.5	-	-	-	-	-	-
Computer and data processing services .....	737	38.1	37.6	37.9	38.4	-	-	-	-	-	-
Auto repair, services, and garages .....	75	36.6	36.2	36.6	36.6	-	-	-	-	-	-
Automotive repair shops .....	753	38.0	37.7	38.1	38.0	-	-	-	-	-	-
Miscellaneous repair services .....	76	37.9	37.9	37.3	37.1	-	-	-	-	-	-
Motion pictures .....	78	28.6	28.2	30.1	29.9	-	-	-	-	-	-
Motion picture production and services .....	781	35.4	35.4	36.7	36.1	-	-	-	-	-	-
Amusement and recreation services .....	79	27.7	27.5	27.9	28.1	-	-	-	-	-	-
Health services .....	80	32.5	32.2	32.5	32.7	-	-	-	-	-	-
Offices of physicians .....	801	31.7	31.2	31.6	31.8	-	-	-	-	-	-
Offices of dentists .....	802	28.9	28.6	28.4	28.8	-	-	-	-	-	-
Nursing and personal care facilities .....	805	31.9	31.5	31.5	32.3	-	-	-	-	-	-
Hospitals .....	806	33.8	33.8	34.1	34.1	-	-	-	-	-	-
Legal services .....	81	35.2	34.5	34.8	35.5	-	-	-	-	-	-
Miscellaneous services .....	89	39.5	37.7	38.9	39.2	-	-	-	-	-	-
Engineering and architectural services .....	891	39.4	38.8	39.2	39.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	893	40.6	36.3	39.7	40.3	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.79	\$6.76	\$7.06	\$7.05	-	\$200.98	\$202.12	\$206.86	\$210.09	-
Drug stores and proprietary stores .....	591	6.43	6.41	6.68	6.66	-	173.61	172.43	179.69	181.82	-
Miscellaneous shopping goods stores .....	594	6.39	6.37	6.64	6.65	-	180.20	179.00	184.59	188.20	-
Nonstore retailers .....	596	7.70	7.77	7.90	7.94	-	250.25	254.86	257.54	258.05	-
Fuel and ice dealers .....	598	9.36	9.29	9.88	9.87	-	356.62	348.38	370.50	370.13	-
Retail stores, nec .....	599	6.92	6.82	7.21	7.15	-	218.67	228.47	219.91	230.95	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		9.59	9.48	9.87	9.98	\$9.92	348.12	337.49	352.36	361.28	\$353.15
<b>Banking</b> .....	60	8.30	8.23	8.54	8.58	-	300.46	291.34	303.17	309.74	-
Commercial and stock savings banks .....	602	7.92	7.84	8.08	8.11	-	286.70	277.54	286.03	292.77	-
Credit agencies other than banks .....	61	8.63	8.55	9.02	9.18	-	320.17	308.66	327.43	340.58	-
Savings and loan associations .....	612	8.11	8.01	8.39	8.53	-	294.39	286.76	300.36	311.35	-
Personal credit institutions .....	614	8.21	8.12	8.35	8.48	-	300.49	292.32	303.11	312.06	-
Insurance carriers .....	63	10.62	10.58	11.01	11.11	-	397.19	392.52	410.67	417.74	-
Life insurance .....	631	9.98	9.95	10.26	10.31	-	371.26	368.15	380.65	386.63	-
Medical service and health insurance .....	632	10.34	10.25	10.58	10.69	-	393.95	386.43	404.16	404.08	-
Fire, marine, and casualty insurance .....	633	11.31	11.31	11.83	11.94	-	420.73	417.34	437.71	446.56	-
<b>Services</b> .....		9.34	9.30	9.75	9.81	9.76	306.35	301.32	316.88	320.79	316.22
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	6.61	6.65	6.89	6.93	-	208.22	206.15	210.15	215.52	-
Personal services:											
Laundry, cleaning, and garment services .....	721	6.53	6.55	6.72	6.79	-	223.33	225.98	229.15	232.90	-
Beauty shops <sup>4</sup> .....	723	6.77	6.88	7.07	7.12	-	205.13	206.40	207.86	212.18	-
Business services .....	73	9.60	9.53	9.93	10.07	-	325.44	320.21	334.64	338.35	-
Advertising .....	731	13.30	12.97	13.39	13.60	-	494.76	476.00	494.09	510.00	-
Services to buildings .....	734	7.09	7.13	7.11	7.27	-	212.70	211.76	208.32	214.47	-
Computer and data processing services .....	737	14.03	13.93	14.60	14.83	-	534.54	523.77	553.34	569.47	-
Auto repair, services, and garages .....	75	8.34	8.37	8.63	8.67	-	305.24	302.99	315.86	317.32	-
Automotive repair shops .....	753	9.22	9.22	9.55	9.56	-	350.36	347.59	363.86	363.28	-
Miscellaneous repair services .....	76	9.86	9.88	10.28	10.24	-	373.69	374.45	383.44	379.90	-
Motion pictures .....	78	12.32	12.52	13.44	12.51	-	352.35	353.06	404.54	374.05	-
Motion picture production and services .....	781	15.72	15.99	17.03	16.10	-	556.49	566.05	625.00	581.21	-
Amusement and recreation services .....	79	8.08	7.86	8.19	8.20	-	223.82	216.15	228.50	230.42	-
Health services .....	80	9.68	9.69	10.23	10.26	-	314.60	312.02	332.48	335.50	-
Offices of physicians .....	801	9.24	9.20	9.65	9.75	-	292.91	287.04	304.94	310.05	-
Offices of dentists .....	802	9.38	9.35	9.99	10.09	-	271.08	267.41	283.72	290.59	-
Nursing and personal care facilities .....	805	6.67	6.72	7.09	7.15	-	212.77	211.68	223.34	230.95	-
Hospitals .....	806	11.03	11.04	11.61	11.62	-	372.81	373.15	395.90	396.24	-
Legal services .....	81	13.44	13.21	13.83	14.03	-	473.09	455.75	481.28	498.07	-
Miscellaneous services .....	89	13.09	13.09	13.45	13.70	-	517.06	493.49	523.21	537.04	-
Engineering and architectural services .....	891	14.09	13.94	14.52	14.69	-	555.15	540.87	569.18	574.38	-
Accounting, auditing, and bookkeeping .....	893	11.21	11.27	11.56	11.92	-	455.13	409.10	458.93	480.38	-

<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 all series in this division.

- Data not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 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)			
	Mar. 1989	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
Average hourly earnings, excluding lump-sum payments .....	\$14.73	\$14.74	\$15.47	\$15.50	\$14.04	\$14.09	\$14.56	\$14.54
Average hourly earnings, including lump-sum payments .....	15.16	15.17	16.17	16.23	14.45	14.51	15.04	15.03

<sup>P</sup> = preliminary.

NOTE: Average hourly earnings, including lump-sum payments, for aircraft and guided missiles and space vehicles have been revised to incorporate corrected data from respondents. Revised data for aircraft are October 1989, \$16.08; November 1989, \$16.04; December 1989,

\$15.98; 1989 annual average, \$15.41; January 1990, \$16.04; and February 1990, \$16.14. Revised data for guided missiles and space vehicles are October 1989, \$14.85; November 1989, \$14.79; December 1989, \$14.87; 1989 annual average, \$14.63; January 1990, \$14.99; and February 1990, \$15.04.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Manufacturing</b> .....	\$9.95	\$9.98	\$10.28	\$10.36	\$10.34
<b>Durable goods</b> .....	10.44	10.47	10.76	10.84	10.81
Lumber and wood products .....	8.39	8.42	8.68	8.74	(?)
Furniture and fixtures .....	7.88	7.92	8.16	8.23	(?)
Stone, clay, and glass products .....	10.10	10.10	10.37	10.54	(?)
Primary metal industries .....	11.54	11.56	11.97	12.22	(?)
Fabricated metal products .....	10.02	10.05	10.26	10.29	(?)
Machinery, except electrical .....	10.72	10.76	11.04	11.12	(?)
Electrical and electronic equipment .....	9.95	9.99	10.21	10.29	(?)
Transportation equipment .....	12.87	12.91	13.40	13.44	(?)
Instruments and related products .....	9.85	9.85	10.21	10.30	(?)
Miscellaneous manufacturing .....	7.98	8.01	8.35	8.41	(?)
<b>Nondurable goods</b> .....	9.25	9.28	9.61	9.71	\$9.67
Food and kindred products .....	8.90	8.90	9.12	9.14	(?)
Tobacco manufactures .....	15.51	15.67	16.02	16.73	(?)
Textile mill products .....	7.24	7.26	7.60	7.66	(?)
Apparel and other textile products .....	6.17	6.17	6.40	6.48	(?)
Paper and allied products .....	11.20	11.24	11.50	11.63	(?)
Printing and publishing .....	10.33	10.39	10.71	10.72	(?)
Chemicals and allied products .....	12.31	12.39	12.66	12.83	(?)
Petroleum and coal products .....	14.55	14.40	15.14	15.32	(?)
Rubber and misc. plastics products .....	8.92	8.99	9.20	9.28	(?)
Leather and leather products .....	6.40	6.43	6.69	6.81	(?)

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-4. Average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.**

Industry	Average hourly earnings					Average weekly earnings				
	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>	Apr. 1989	May 1989	Mar. 1990	Apr. 1990 <sup>p</sup>	May 1990 <sup>p</sup>
<b>Total private:</b>										
Current dollars .....	\$9.62	\$9.59	\$9.93	\$9.96	\$9.98	\$334.78	\$330.86	\$341.59	\$343.62	\$344.31
Constant (1977) dollars .....	4.81	4.77	4.76	4.77	( <sup>2</sup> )	167.39	164.53	163.68	164.41	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	13.19	13.13	13.42	13.52	\$13.49	564.53	551.46	577.06	585.42	\$585.47
Constant (1977) dollars .....	6.60	6.53	6.43	6.47	( <sup>2</sup> )	282.27	274.22	276.50	280.11	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	13.30	13.28	13.47	13.38	\$13.51	504.07	500.66	510.51	499.07	\$516.08
Constant (1977) dollars .....	6.65	6.60	6.45	6.40	( <sup>2</sup> )	252.04	248.96	244.61	238.79	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.41	10.42	10.73	10.74	\$10.82	426.81	426.18	436.71	427.45	\$442.54
Constant (1977) dollars .....	5.21	5.18	5.14	5.14	( <sup>2</sup> )	213.41	211.92	209.25	204.52	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.51	12.49	12.82	12.93	\$12.88	497.90	490.86	501.26	505.56	\$506.18
Constant (1977) dollars .....	6.26	6.21	6.14	6.19	( <sup>2</sup> )	248.95	244.09	240.18	241.89	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	10.36	10.28	10.65	10.76	\$10.70	395.75	389.61	403.64	409.96	\$406.60
Constant (1977) dollars .....	5.18	5.11	5.10	5.15	( <sup>2</sup> )	197.88	193.74	193.41	196.15	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.52	6.49	6.76	6.78	\$6.77	188.43	186.91	192.66	196.62	\$194.98
Constant (1977) dollars .....	3.26	3.23	3.24	3.24	( <sup>2</sup> )	94.22	92.94	92.31	94.08	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.59	9.48	9.87	9.98	\$9.92	348.12	337.49	352.36	361.28	\$353.15
Constant (1977) dollars .....	4.80	4.71	4.73	4.78	( <sup>2</sup> )	174.06	167.82	168.84	172.86	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	9.34	9.30	9.75	9.81	\$9.76	306.35	301.32	316.88	320.79	\$316.22
Constant (1977) dollars .....	4.67	4.62	4.67	4.69	( <sup>2</sup> )	153.18	149.84	151.84	153.49	( <sup>2</sup> )

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 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 nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
<b>Total private</b> .....	34.6	34.6	34.8	34.6	34.7	34.7	34.6	34.5	34.5	34.6	34.6	34.6	34.6
<b>Mining</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Construction</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Manufacturing</b> .....	41.0	41.0	41.0	41.0	41.0	40.8	40.7	40.6	40.7	40.7	40.8	40.7	41.1
<i>Overtime hours</i> .....	3.8	3.8	3.9	3.8	3.8	3.7	3.7	3.6	3.7	3.6	3.6	3.5	4.0
<b>Durable goods</b> .....	41.5	41.5	41.5	41.6	41.6	41.2	41.2	41.2	41.3	41.3	41.4	41.2	41.7
<i>Overtime hours</i> .....	3.9	3.9	4.0	3.9	3.9	3.8	3.7	3.6	3.7	3.6	3.7	3.5	4.2
Lumber and wood products .....	39.7	39.8	39.6	40.2	40.2	40.4	40.3	40.1	40.5	39.8	40.3	40.2	40.4
Furniture and fixtures .....	39.4	39.4	39.5	39.6	39.6	39.2	39.4	39.2	39.8	39.5	39.2	39.0	39.4
Stone, clay, and glass products .....	41.9	42.2	42.3	42.5	42.2	42.3	42.4	41.5	42.2	42.1	41.9	41.8	42.1
Primary metal industries .....	43.2	43.3	43.0	42.9	42.8	42.5	42.6	42.5	42.5	42.3	42.6	41.8	43.1
Blast furnaces and basic steel products ..	43.6	43.7	43.2	43.4	42.9	42.8	43.0	42.8	43.2	42.8	42.9	43.0	44.0
Fabricated metal products .....	41.7	41.5	41.5	41.5	41.6	41.5	41.4	41.2	41.1	41.3	41.7	41.3	42.0
Machinery, except electrical .....	42.5	42.5	42.4	42.2	42.3	42.0	42.1	42.0	42.1	42.2	42.0	41.8	42.4
Electrical and electronic equipment .....	40.7	40.7	40.6	40.9	41.1	40.9	40.8	40.5	40.8	41.1	41.1	40.9	40.8
Transportation equipment .....	42.5	42.5	42.6	42.7	42.8	41.2	40.9	41.9	41.4	41.5	42.0	42.2	42.8
Motor vehicles and equipment .....	42.8	42.7	42.6	43.0	43.4	42.9	42.3	42.2	40.8	41.2	42.2	41.6	43.8
Instruments and related products .....	41.1	41.3	41.4	41.1	41.0	41.1	41.0	40.9	41.0	41.0	41.1	41.4	41.8
Miscellaneous manufacturing .....	39.6	39.4	39.3	39.4	39.2	39.3	39.7	39.3	39.4	39.5	39.4	39.1	39.3
<b>Nondurable goods</b> .....	40.2	40.3	40.2	40.2	40.2	40.2	40.1	39.9	40.0	39.9	40.0	39.9	40.2
<i>Overtime hours</i> .....	3.7	3.6	3.8	3.6	3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.7
Food and kindred products .....	40.5	40.7	41.0	40.8	41.0	40.8	40.8	40.6	40.5	40.5	40.6	40.6	41.0
Tobacco manufactures .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Textile mill products .....	41.4	41.4	41.2	41.0	40.6	40.7	40.5	40.2	40.5	40.2	40.1	40.2	40.8
Apparel and other textile products .....	37.1	37.1	37.0	37.0	37.0	36.9	36.8	36.3	36.7	36.6	36.2	36.4	36.6
Paper and allied products .....	43.3	43.3	43.2	43.5	43.2	43.4	43.4	43.1	43.3	43.0	43.2	43.2	43.5
Printing and publishing .....	37.7	37.8	37.6	37.7	37.9	37.8	37.9	37.6	37.8	37.8	37.9	37.7	37.8
Chemicals and allied products .....	42.1	42.5	42.5	42.4	42.5	42.4	42.3	42.7	42.7	42.3	42.5	42.6	42.4
Petroleum and coal products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Rubber and misc. plastics products .....	41.5	41.5	41.4	41.5	41.5	41.4	41.2	40.8	40.9	41.1	41.3	41.0	41.6
Leather and leather products .....	37.4	37.9	37.7	38.1	38.1	37.7	37.5	37.2	37.4	38.0	37.8	37.3	37.2
<b>Transportation and public utilities</b> .....	39.5	39.4	39.4	39.0	39.3	39.3	39.1	39.3	39.1	39.3	39.3	39.3	39.4
<b>Wholesale trade</b> .....	37.9	38.0	38.1	38.0	38.1	38.1	38.1	38.0	38.0	38.1	38.1	38.2	38.1
<b>Retail trade</b> .....	28.9	28.9	29.2	28.8	28.8	29.0	28.8	28.7	28.8	28.9	28.9	29.0	28.9
<b>Finance, insurance, and real estate</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Services</b> .....	32.5	32.5	32.8	32.6	32.7	32.8	32.6	32.6	32.5	32.6	32.7	32.7	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 are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 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 nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(1977 = 100)

Industry	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Total private</b> .....	127.6	128.1	129.2	128.5	128.9	129.2	129.1	128.8	129.5	130.2	130.3	130.0	130.0
<b>Goods-producing</b> .....	102.4	102.5	103.0	103.3	102.8	102.4	102.5	101.1	102.2	102.9	102.3	101.0	101.8
<b>Mining</b> .....	81.8	81.2	80.3	84.4	85.3	85.5	86.2	85.3	87.1	87.8	87.7	88.8	89.1
<b>Construction</b> .....	138.2	139.3	142.7	143.5	143.1	143.8	145.8	139.5	149.5	150.6	146.7	139.5	141.1
<b>Manufacturing</b> .....	96.4	96.4	96.3	96.4	95.8	95.2	94.8	94.5	93.7	94.3	94.4	94.1	94.8
<b>Durable goods</b> .....	94.3	94.0	93.8	94.0	93.3	92.2	91.9	91.6	90.3	91.7	91.9	91.4	92.3
Lumber and wood products .....	103.7	103.4	102.6	103.6	103.0	104.2	103.9	103.2	105.1	102.5	103.9	103.3	103.5
Furniture and fixtures .....	112.9	112.6	113.2	111.9	111.6	109.9	110.2	109.1	110.5	109.7	108.9	108.3	109.2
Stone, clay, and glass products .....	89.3	89.8	90.0	90.2	88.8	89.6	90.0	87.7	89.6	89.4	88.4	87.2	87.5
Primary metal industries .....	68.2	68.5	67.9	67.6	66.7	65.9	65.6	65.6	64.8	64.9	65.2	64.0	65.9
Blast furnaces and basic steel products .....	52.3	52.6	52.0	53.0	51.9	51.1	50.8	51.1	51.3	50.6	50.0	50.6	51.2
Fabricated metal products .....	91.7	90.8	90.7	90.4	90.0	89.7	89.1	88.5	86.7	88.0	88.9	88.5	89.7
Machinery, except electrical .....	93.7	93.8	94.0	93.2	93.1	92.0	92.7	92.4	92.7	92.9	91.9	91.3	92.4
Electrical and electronic equipment .....	98.4	97.8	97.6	98.0	98.0	97.1	96.6	95.0	95.7	96.4	96.9	96.1	95.8
Transportation equipment .....	100.5	99.5	98.6	100.5	98.5	94.3	92.7	95.0	85.7	93.5	95.0	95.2	96.5
Motor vehicles and equipment .....	90.2	88.1	85.7	90.1	87.0	84.7	82.3	82.4	67.0	80.3	82.3	80.7	84.6
Instruments and related products .....	115.8	116.1	116.9	115.8	115.8	116.1	115.2	114.4	115.2	115.0	114.7	116.1	117.5
Miscellaneous manufacturing .....	86.6	86.2	85.7	86.8	85.8	86.0	86.2	86.3	87.7	87.6	86.8	84.9	86.0
<b>Nondurable goods</b> .....	99.5	99.9	100.1	99.9	99.7	99.6	99.2	98.7	98.8	98.3	98.0	98.2	98.6
Food and kindred products .....	103.3	104.3	106.4	105.2	106.2	105.9	105.5	105.0	105.1	104.7	104.7	105.4	105.9
Tobacco manufactures .....	69.6	69.0	70.5	68.7	69.0	67.6	66.9	66.2	69.0	68.9	67.1	66.4	66.7
Textile mill products .....	81.5	81.5	81.3	80.4	79.1	79.5	78.8	78.1	78.3	77.2	76.6	76.9	77.4
Apparel and other textile products .....	85.4	85.2	84.9	84.9	84.5	84.0	83.6	82.4	82.5	81.5	79.7	80.4	80.5
Paper and allied products .....	102.3	102.3	102.7	103.4	101.9	102.8	102.8	102.1	102.5	102.0	102.1	102.5	103.2
Printing and publishing .....	137.8	138.3	137.7	138.3	138.7	138.3	139.3	138.8	140.0	140.3	140.7	139.7	139.9
Chemicals and allied products .....	100.5	101.8	101.5	101.8	101.5	101.8	101.5	102.8	102.6	101.5	101.5	101.7	101.4
Petroleum and coal products .....	83.5	84.3	83.2	83.4	84.1	85.6	85.3	85.6	83.9	85.5	86.4	85.5	84.5
Rubber and misc. plastics products .....	119.6	118.9	118.8	119.3	118.4	118.1	116.8	115.3	114.5	114.2	115.1	114.8	116.8
Leather and leather products .....	54.7	55.5	54.7	54.8	54.8	53.8	53.0	52.1	52.4	53.3	53.0	51.8	50.8
<b>Service-producing</b> .....	141.5	142.2	143.7	142.4	143.3	144.0	143.9	144.1	144.6	145.3	145.8	146.1	145.6
<b>Transportation and public utilities</b> .....	117.3	117.3	117.7	113.7	116.8	117.4	117.3	119.8	119.4	120.3	120.6	120.4	121.1
<b>Wholesale trade</b> .....	126.1	126.7	127.2	127.3	127.6	128.0	128.3	128.1	128.7	128.9	129.0	129.3	129.2
<b>Retail trade</b> .....	127.2	127.4	128.9	127.5	127.5	128.4	128.3	127.6	128.6	128.8	128.7	129.4	128.7
<b>Finance, insurance, and real estate</b> .....	141.9	142.7	145.0	143.3	143.8	145.0	143.8	144.1	144.3	145.2	145.8	146.6	145.3
<b>Services</b> .....	167.5	169.0	170.8	170.4	171.4	172.2	172.0	172.4	172.7	174.0	175.1	175.0	174.6

<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>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 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 nonagricultural payrolls, seasonally adjusted**

Industry	1989								1990				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>p</sup>	May <sup>p</sup>
Average hourly earnings													
<b>Total private</b> (in current dollars) .....	\$9.60	\$9.62	\$9.69	\$9.69	\$9.74	\$9.78	\$9.78	\$9.83	\$9.83	\$9.88	\$9.92	\$9.95	\$9.99
Mining .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Construction .....	\$13.32	\$13.32	\$13.42	\$13.37	\$13.39	\$13.44	\$13.52	\$13.60	\$13.34	\$13.43	\$13.47	\$13.39	\$13.55
Manufacturing .....	10.42	10.45	10.48	10.52	10.55	10.55	10.57	10.61	10.55	10.65	10.71	10.73	10.83
Excluding overtime <sup>3</sup> .....	9.97	9.99	10.01	10.05	10.08	10.08	10.11	10.15	10.10	10.21	10.26	10.34	10.33
Transportation and public utilities .....	12.54	12.54	12.61	12.57	12.67	12.68	12.61	12.71	12.79	12.82	12.86	12.93	12.93
Wholesale trade .....	10.28	10.33	10.44	10.39	10.47	10.54	10.54	10.59	10.57	10.62	10.65	10.75	10.70
Retail trade .....	6.49	6.52	6.54	6.57	6.58	6.61	6.61	6.65	6.69	6.71	6.75	6.76	6.78
Finance, insurance, and real estate .....	9.45	9.53	9.68	9.57	9.66	9.77	9.67	9.79	9.75	9.78	9.82	9.90	9.90
Services .....	9.33	9.34	9.46	9.43	9.49	9.58	9.54	9.62	9.62	9.65	9.70	9.78	9.78
<b>Total private</b> (in constant dollars) <sup>4</sup> .....	4.77	4.77	4.79	4.80	4.81	4.81	4.79	4.80	4.74	4.74	4.75	4.76	( <sup>5</sup> )
Average weekly earnings													
<b>Total private:</b>													
In current dollars .....	332.16	332.85	337.21	335.27	337.98	339.37	338.39	339.14	339.14	341.85	343.23	344.27	345.65
In constant (1977) dollars <sup>4</sup> .....	165.17	165.10	166.85	165.98	166.74	166.85	165.80	165.51	163.68	164.11	164.22	164.57	( <sup>5</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> 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.

<sup>3</sup> Derived by assuming that overtime hours are paid at the rate of time and one-half.

<sup>4</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<sup>5</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.



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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Alabama</b> .....	41.4	40.8	40.4	\$9.10	\$9.36	\$9.32	\$376.74	\$381.89	\$376.53
Birmingham .....	41.3	41.1	40.0	9.42	9.50	9.56	389.05	390.45	382.40
Mobile .....	41.7	41.9	36.9	10.73	11.42	11.50	447.44	478.50	424.35
<b>Alaska</b> .....	47.5	45.4	46.5	11.66	12.41	12.90	553.85	563.41	599.85
<b>Arizona</b> .....	40.9	41.3	40.3	9.86	10.17	10.11	403.27	420.02	407.43
<b>Arkansas</b> .....	40.5	40.7	39.5	8.22	8.49	8.48	332.91	345.54	334.96
Fayetteville-Springdale .....	41.6	39.2	38.9	7.30	7.57	7.57	303.68	296.74	294.47
Fort Smith .....	40.1	40.1	38.3	8.67	8.70	8.82	347.67	348.87	337.81
Little Rock-North Little Rock .....	40.9	40.9	40.3	8.68	9.15	9.02	355.01	374.24	363.51
Pine Bluff .....	44.2	43.7	42.3	10.46	10.68	10.99	462.33	466.72	464.88
<b>California</b> .....	40.9	40.7	39.6	11.06	11.35	11.32	452.35	461.95	448.27
Anaheim-Santa Ana .....	42.0	41.9	39.9	11.22	11.40	11.62	471.24	477.66	463.64
Bakersfield .....	39.2	39.5	39.8	12.21	12.17	12.24	478.63	480.72	487.15
Fresno .....	39.9	39.1	38.6	9.36	9.43	9.52	373.46	368.71	367.47
Los Angeles-Long Beach .....	41.1	41.2	39.2	10.51	10.71	10.77	431.96	441.25	422.18
Modesto .....	40.0	39.8	38.6	10.36	10.50	10.42	414.40	417.90	402.21
Oakland .....	41.3	41.7	40.4	13.30	13.52	13.48	549.29	563.78	544.59
Oxnard-Ventura .....	40.7	40.8	39.9	10.50	10.88	10.82	427.35	443.90	431.72
Riverside-San Bernardino .....	40.5	40.0	39.0	9.90	10.33	10.32	400.95	413.20	402.48
Sacramento .....	39.5	40.0	39.3	11.35	11.52	11.66	448.33	460.80	458.24
San Diego .....	41.1	40.5	39.4	11.20	11.42	11.42	460.32	462.51	449.95
San Francisco .....	38.1	40.1	40.2	12.88	12.84	13.01	490.73	514.88	523.00
San Jose .....	40.4	40.4	39.9	12.70	13.55	13.64	513.08	547.42	544.24
Santa Barbara-Santa Maria-Lompoc .....	40.5	40.4	40.4	10.98	11.81	11.76	444.69	477.12	475.10
Santa Rosa-Petaluma .....	38.2	37.4	38.1	10.63	11.12	11.20	406.07	415.89	426.72
Stockton .....	41.9	41.0	40.5	10.92	11.04	10.93	457.55	452.64	442.67
Vallejo-Fairfield-Napa .....	38.9	37.8	39.6	13.25	13.27	13.04	515.43	501.61	516.38
<b>Colorado</b> .....	40.1	40.9	41.1	10.43	10.78	10.70	418.24	440.90	439.77
Denver .....	40.0	40.0	40.7	11.59	12.18	12.20	463.60	487.20	496.54
<b>Connecticut</b> .....	42.2	42.7	41.3	11.15	11.39	11.37	470.53	486.35	469.58
Bridgeport-Milford .....	42.3	42.1	39.6	11.49	11.99	12.14	486.03	504.78	480.74
Hartford .....	42.4	42.9	41.4	11.93	12.29	12.34	505.83	527.24	510.88
New Britain .....	42.7	42.0	39.7	11.64	12.14	12.09	497.03	509.88	479.97
New Haven-Meriden .....	40.9	41.6	39.4	10.79	10.87	10.80	441.31	452.19	425.52
Stamford .....	43.1	41.3	40.5	11.83	12.28	11.81	509.87	507.16	478.31
Waterbury .....	42.7	41.8	40.2	9.85	10.46	10.23	420.60	437.23	411.25
<b>Delaware</b> .....	41.5	41.6	40.4	12.38	12.79	13.33	513.77	532.06	538.53
Wilmington .....	42.0	43.3	41.7	15.17	15.58	15.70	637.14	674.61	654.69
<b>District of Columbia:</b>									
Washington MSA .....	39.3	39.5	38.2	11.66	12.39	12.46	458.24	489.41	475.97
<b>Florida</b> .....	40.6	41.2	40.3	8.61	8.87	8.90	349.57	365.44	358.67
Fort Lauderdale-Hollywood-Pompano Beach .....	41.2	41.4	39.9	8.51	8.92	8.93	350.61	369.29	356.31
Jacksonville .....	40.6	39.7	39.0	9.13	9.61	9.34	370.68	381.52	364.26
Miami-Hialeah .....	39.8	40.7	39.4	7.12	7.43	7.40	283.38	302.40	291.56
Orlando .....	41.7	40.7	40.4	9.60	10.21	10.14	400.32	415.55	409.66
Pensacola .....	44.7	43.5	46.0	10.99	11.74	11.57	491.25	510.69	532.22
Tampa-St. Petersburg-Clearwater .....	41.1	41.1	40.1	8.68	9.17	9.25	356.75	376.89	370.93
West Palm Beach-Boca Raton-Delray Beach .....	41.0	40.8	39.8	9.44	9.60	9.51	387.04	391.68	378.50
<b>Georgia</b> .....	40.8	40.4	39.6	8.74	9.09	9.20	356.59	367.24	364.32
Atlanta .....	40.8	41.7	40.7	10.05	10.27	10.41	410.04	428.26	423.69
Savannah .....	43.9	45.8	47.3	11.61	11.26	11.35	509.68	515.71	536.86
<b>Hawaii</b> .....	39.5	39.4	38.8	10.35	10.94	10.93	408.83	431.04	424.08
Honolulu .....	40.4	40.1	38.8	10.48	11.16	11.18	423.39	447.52	433.78
<b>Idaho</b> .....	39.0	38.6	38.7	10.03	10.33	10.33	391.17	398.74	399.77

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		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Illinois</b> .....	41.9	41.3	40.9	\$11.16	\$11.33	\$11.40	\$467.60	\$467.93	\$466.26
Aurora-Elgin .....	41.9	42.2	40.9	10.54	10.67	10.64	441.63	450.27	435.18
Bloomington-Normal .....	45.0	43.3	43.1	12.80	12.67	12.66	576.00	548.61	545.65
Champaign-Urbana-Rantoul .....	38.1	41.4	41.5	9.42	9.79	9.87	358.90	405.31	409.61
Chicago .....	42.1	41.6	40.5	10.83	11.14	11.13	455.94	463.42	450.77
Davenport-Rock Island-Moline .....	40.6	41.5	40.1	12.31	13.30	13.28	499.79	551.95	532.53
Decatur .....	45.9	44.9	44.4	14.25	14.53	14.68	654.08	652.40	651.79
Joliet .....	41.1	42.0	41.7	11.96	12.89	13.06	491.56	541.38	544.60
Kankakee .....	41.1	42.9	42.3	11.45	11.80	11.59	470.60	506.22	490.26
Lake County .....	40.7	40.5	40.6	11.21	11.61	11.61	456.25	470.21	471.37
Peoria .....	42.1	42.2	40.8	13.20	13.71	13.87	555.72	578.56	565.90
Rockford .....	42.7	41.7	39.5	12.10	12.26	12.35	516.67	511.24	487.83
Springfield .....	38.8	37.8	37.7	10.13	10.05	9.83	393.04	379.89	370.59
<b>Indiana</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Iowa</b> .....	40.8	40.7	38.9	10.63	11.22	11.22	433.70	456.65	436.46
Cedar Rapids .....	38.8	38.9	36.6	12.02	13.17	13.34	466.38	512.31	488.24
Des Moines .....	42.6	40.9	39.3	12.08	12.45	12.04	514.61	509.21	473.17
Dubuque .....	39.7	40.0	38.3	11.61	11.92	12.09	460.92	476.80	463.05
Sioux City .....	37.8	38.6	39.8	8.50	8.72	8.92	321.30	336.59	355.02
<b>Kansas</b> .....	40.9	40.1	39.7	10.60	10.84	10.84	433.54	434.68	430.35
Topeka .....	43.4	40.9	40.5	12.01	11.86	12.15	521.23	485.07	492.08
Wichita .....	42.0	40.9	40.5	11.42	11.98	11.97	479.64	489.98	484.79
<b>Kentucky</b> .....	40.6	40.2	39.2	10.38	10.58	10.66	421.43	425.32	417.87
Lexington-Fayette .....	40.7	41.4	40.0	10.58	10.94	11.08	430.61	452.92	443.20
Louisville .....	41.2	41.1	40.8	11.86	12.10	12.28	488.63	497.31	501.02
<b>Louisiana</b> .....	42.0	42.8	41.9	11.16	11.64	11.90	468.72	498.19	498.61
Baton Rouge .....	43.9	44.3	43.1	13.08	13.51	13.70	574.21	598.49	590.47
New Orleans .....	40.8	42.5	42.0	10.73	11.22	11.36	437.78	476.85	477.12
Shreveport .....	39.4	41.0	37.5	10.92	11.79	12.84	430.25	483.39	481.50
<b>Maine</b> .....	40.2	40.9	39.6	9.69	10.44	10.62	389.54	427.00	420.55
Lewiston-Auburn .....	39.2	39.4	36.3	8.11	9.13	9.16	317.91	359.72	332.51
Portland .....	39.6	38.8	38.7	10.22	10.54	10.50	404.71	408.95	406.35
<b>Maryland</b> .....	40.9	40.5	39.7	11.14	11.52	11.53	455.63	466.56	457.74
Baltimore MSA .....	40.9	40.8	40.2	11.44	11.92	11.98	467.90	486.34	481.60
<b>Massachusetts</b> .....	40.6	40.7	40.4	10.73	11.18	11.27	435.64	455.03	455.31
Boston .....	40.3	40.5	40.4	11.58	11.86	11.94	466.67	480.33	482.38
Springfield .....	41.8	41.4	41.0	10.27	10.61	10.77	429.29	439.25	441.57
Worcester .....	41.2	41.2	41.0	10.58	11.00	10.98	435.90	453.20	450.18
<b>Michigan</b> .....	43.5	42.0	40.6	13.53	13.70	13.72	588.55	575.40	557.03
Ann Arbor .....	43.8	44.5	43.1	14.82	14.80	14.69	649.12	658.60	633.14
Battle Creek .....	44.6	42.4	41.5	14.43	14.21	14.55	643.58	602.50	603.82
Detroit .....	44.5	43.1	41.1	14.58	14.74	14.86	648.81	635.29	610.75
Flint .....	44.2	41.6	41.5	16.77	17.20	17.04	741.23	715.52	707.16
Grand Rapids .....	40.8	40.5	39.8	11.54	11.87	11.82	470.83	480.73	470.44
Jackson .....	43.5	41.1	39.5	10.49	10.75	10.36	456.31	441.82	409.22
Kalamazoo .....	42.2	41.6	40.6	13.21	13.47	13.73	557.46	560.35	557.44
Lansing-East Lansing .....	42.4	38.2	37.3	14.69	15.48	14.92	622.86	591.34	556.52
Muskegon .....	40.9	41.1	39.5	12.33	12.21	12.15	504.30	501.83	479.92
Saginaw-Bay City-Midland .....	44.3	43.3	42.6	15.39	15.74	15.51	681.78	681.54	660.73
<b>Minnesota</b> .....	40.3	40.0	39.3	10.87	11.20	11.29	438.06	448.00	443.70
Duluth .....	39.8	40.0	39.6	11.56	12.07	12.58	460.09	482.80	498.17
Minneapolis-St. Paul .....	40.5	40.2	39.4	11.40	11.77	11.79	461.70	473.15	464.53
St. Cloud .....	39.4	40.8	39.8	10.10	9.85	9.97	397.94	401.88	396.81
<b>Mississippi</b> .....	39.7	39.2	38.0	8.00	8.30	8.28	317.60	325.36	314.64
Jackson .....	40.4	40.6	39.9	8.92	9.21	9.04	360.37	373.93	360.70

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Missouri</b> .....	40.5	40.3	39.7	\$10.43	\$10.68	\$10.76	\$422.42	\$430.40	\$427.17
Kansas City .....	41.7	40.3	40.4	11.65	11.24	11.44	485.81	452.97	462.18
St. Louis .....	41.5	42.3	41.3	12.36	12.72	12.81	512.94	538.06	529.05
Springfield .....	40.0	39.4	38.6	8.94	9.24	9.19	357.60	364.06	354.73
<b>Montana</b> .....	40.7	38.0	38.6	10.90	11.33	11.25	443.63	430.54	434.25
<b>Nebraska</b> .....	40.4	39.6	38.6	9.47	9.57	9.72	382.59	378.97	375.19
Lincoln .....	39.2	39.2	39.4	10.33	10.80	10.91	404.94	423.36	429.85
Omaha .....	40.8	40.1	39.6	10.29	10.22	10.23	419.83	409.82	405.11
<b>Nevada</b> .....	41.1	40.8	39.7	10.22	10.90	10.96	420.04	444.72	435.11
Las Vegas .....	42.6	42.7	41.5	12.73	13.06	12.67	542.30	557.68	525.81
<b>New Hampshire</b> .....	41.2	41.2	40.3	10.28	10.75	10.84	423.54	442.90	436.85
Manchester .....	40.6	42.1	41.2	10.31	10.66	10.70	418.59	448.79	440.84
Nashua .....	41.7	40.4	40.2	12.45	13.31	13.79	519.17	537.72	554.36
Portsmouth-Dover-Rochester .....	41.0	42.1	40.5	9.51	10.06	10.09	389.91	423.53	408.65
<b>New Jersey</b> .....	41.0	41.1	40.7	11.07	11.55	11.61	453.87	474.71	472.53
<b>New Mexico</b> .....	40.3	40.2	39.0	8.60	8.97	9.02	346.58	360.59	351.78
Albuquerque .....	39.2	39.3	38.1	8.63	9.02	9.30	338.30	354.49	354.33
<b>New York</b> .....	40.2	39.9	38.8	10.60	11.00	11.08	426.12	438.90	429.90
Albany-Schenectady-Troy .....	40.9	41.7	40.0	11.26	11.65	11.84	460.53	485.81	473.60
Binghamton .....	41.6	40.8	39.9	9.31	9.62	9.69	387.30	392.50	386.63
Buffalo .....	42.1	41.7	40.2	12.86	13.50	13.62	541.41	562.95	547.52
Elmira .....	42.0	40.4	38.9	9.75	9.57	9.77	409.50	386.63	380.05
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 .....	40.0	40.1	39.2	11.31	11.68	11.76	452.40	466.37	460.99
New York PMSA .....	37.6	37.4	36.3	9.77	10.30	10.40	367.35	385.22	377.52
New York City .....	37.3	37.0	36.2	9.63	10.15	10.20	359.20	375.55	369.24
Niagara Falls .....	41.7	40.5	39.6	14.01	14.01	14.10	584.22	567.41	558.36
Orange County .....	37.7	39.3	38.5	8.95	9.27	9.16	337.42	364.31	352.66
Poughkeepsie .....	39.8	40.2	40.1	10.69	11.09	10.88	425.46	445.82	436.29
Rochester .....	43.0	42.4	40.7	12.16	12.66	12.78	522.88	536.78	520.15
Rockland County .....	40.1	40.2	37.3	9.47	8.66	8.94	379.75	348.13	333.46
Syracuse .....	41.7	41.2	39.6	12.08	11.98	11.97	503.74	493.58	474.01
Utica-Rome .....	40.5	41.3	39.5	9.86	10.33	10.32	399.33	426.63	407.64
Westchester County .....	40.3	39.5	37.5	11.11	12.04	12.56	447.73	475.58	471.00
<b>North Carolina</b> .....	40.3	39.6	38.9	8.36	8.68	8.65	336.91	343.73	336.49
Asheville .....	41.9	41.0	40.9	8.38	8.56	8.59	351.12	350.96	351.33
Charlotte-Gastonia-Rock Hill .....	40.9	39.3	38.2	8.84	9.24	9.25	361.56	363.13	353.35
Greensboro-Winston-Salem-High Point .....	39.0	38.5	38.0	9.04	9.25	9.24	352.56	356.13	351.12
Raleigh-Durham .....	41.5	41.9	41.0	9.38	9.86	9.86	389.27	413.13	404.26
<b>North Dakota</b> .....	39.0	38.5	39.5	8.81	8.89	8.88	343.59	342.27	350.76
Fargo-Moorhead .....	39.3	35.9	37.6	8.98	8.74	8.72	352.91	313.77	327.87
<b>Ohio</b> .....	42.7	42.3	41.6	12.21	12.51	12.47	521.37	529.17	518.75
Akron .....	42.5	42.7	41.3	11.62	11.71	11.58	493.85	500.02	478.25
Canton .....	42.0	42.1	42.1	11.18	11.22	11.36	469.56	472.36	478.26
Cincinnati .....	42.7	43.3	41.7	11.57	11.91	11.75	494.04	515.70	489.98
Cleveland .....	43.6	43.0	41.9	11.87	12.16	12.08	517.53	522.88	506.15
Columbus .....	41.4	41.6	40.9	11.89	12.31	12.24	492.25	512.10	500.62
Dayton-Springfield .....	43.1	41.9	41.0	12.92	13.22	13.10	556.85	553.92	537.10
Toledo .....	43.0	43.6	43.9	13.11	13.50	13.75	563.73	588.60	603.63
Youngstown-Warren .....	42.5	41.9	42.1	13.87	14.23	14.31	589.48	596.24	602.45
<b>Oklahoma</b> .....	41.3	41.6	40.4	10.66	10.85	10.80	440.26	451.36	436.32
Oklahoma City .....	43.7	40.7	39.5	11.92	12.34	11.79	520.90	502.24	465.71
Tulsa .....	41.3	41.7	40.5	10.25	11.31	11.34	423.33	471.63	459.27
<b>Oregon</b> .....	40.3	39.5	40.0	10.82	11.03	11.10	436.05	435.69	444.00
Eugene-Springfield .....	41.5	39.9	40.2	10.65	10.98	11.05	441.98	438.10	444.21
Portland .....	40.3	40.0	40.1	10.81	11.23	11.27	435.64	449.20	451.93
Salem .....	38.6	37.8	37.5	9.74	9.95	9.96	375.96	376.11	373.50

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		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Pennsylvania</b> .....	40.9	40.5	39.4	\$10.58	\$10.94	\$10.93	\$432.72	\$443.07	\$430.64
Allentown-Bethlehem .....	40.2	39.9	38.8	10.53	11.04	10.91	423.31	440.50	423.31
Altoona .....	39.8	39.0	36.1	9.19	9.46	9.72	365.76	368.94	350.89
Beaver County .....	44.3	43.3	42.7	10.50	11.00	10.92	465.15	476.30	466.28
Erie .....	42.1	44.2	41.1	11.22	11.41	11.37	472.36	504.32	467.31
Harrisburg-Lebanon-Carlisle .....	40.9	40.3	40.2	10.51	11.10	11.04	429.86	447.33	443.81
Johnstown .....	39.3	38.0	37.6	8.02	8.49	8.48	315.19	322.62	318.85
Lancaster .....	40.4	40.4	39.5	10.58	10.92	10.88	427.43	441.17	429.76
Philadelphia PMSA .....	40.6	40.2	39.5	11.63	11.92	11.95	472.18	479.18	472.03
Pittsburgh .....	42.1	41.6	41.9	11.21	11.33	11.40	471.94	471.33	477.66
Reading .....	40.3	41.1	39.4	11.14	11.48	11.35	448.94	471.83	447.19
Scranton-Wilkes-Barre .....	38.5	39.1	38.3	9.12	9.50	9.50	351.12	371.45	363.85
Sharon .....	41.6	42.7	40.6	11.57	11.89	11.68	481.31	507.70	474.21
State College .....	40.8	39.9	40.4	9.06	9.60	9.59	369.65	383.04	387.44
Williamsport .....	40.8	39.4	37.8	9.51	9.57	9.50	388.01	377.06	359.10
York .....	41.4	41.4	40.3	10.06	10.43	10.37	416.48	431.80	417.91
<b>Rhode Island</b> .....	39.6	39.7	39.4	9.00	9.34	9.37	356.40	370.80	369.18
Pawtucket-Woonsocket-Attleboro .....	40.2	39.5	39.2	8.41	8.81	8.83	338.08	348.00	346.14
Providence .....	39.0	39.3	39.0	8.51	8.86	8.88	331.89	348.20	346.32
<b>South Carolina</b> .....	41.4	41.0	40.7	8.44	8.73	8.74	349.42	357.93	355.72
Charleston .....	39.8	40.2	40.1	9.14	9.55	9.57	363.77	383.91	383.76
Columbia .....	41.1	41.9	41.8	8.61	8.95	8.97	353.87	375.00	374.95
Greenville-Spartanburg .....	40.8	41.3	41.3	8.26	8.66	8.67	337.01	357.66	358.07
<b>South Dakota</b> .....	42.6	40.4	39.0	8.23	8.42	8.48	350.60	340.17	330.72
Sioux Falls .....	45.1	45.4	45.1	8.18	8.69	8.57	368.92	394.53	386.51
<b>Tennessee</b> .....	40.8	38.6	36.8	9.15	9.40	9.69	373.32	362.84	356.59
Chattanooga .....	41.1	39.8	35.8	8.24	8.59	8.70	338.66	341.88	311.46
Johnson City-Kingsport-Bristol .....	41.4	39.4	36.5	9.63	8.99	9.71	398.68	354.21	354.41
Knoxville .....	39.9	36.9	35.6	9.19	8.76	9.17	366.68	323.24	326.45
Memphis .....	42.6	40.2	38.0	9.35	9.58	9.72	398.31	385.12	369.36
Nashville .....	41.6	41.2	40.5	10.70	11.00	11.63	445.12	453.20	471.02
<b>Texas</b> .....	42.2	41.4	40.8	10.22	10.41	10.44	431.28	430.97	425.95
Dallas .....	42.9	42.0	41.0	10.22	10.53	10.39	438.44	442.26	425.99
Ft. Worth-Arlington .....	41.4	41.3	40.5	11.03	11.19	11.24	456.64	462.15	455.22
Houston .....	43.6	43.6	42.6	11.71	12.04	12.03	510.56	524.94	512.48
San Antonio .....	40.1	40.9	41.2	7.56	7.63	7.67	303.16	312.07	316.00
<b>Utah</b> .....	39.9	39.6	38.9	10.10	10.26	10.43	402.99	406.30	405.73
Salt Lake City-Ogden .....	39.9	40.0	39.5	9.94	10.20	10.32	396.61	408.00	407.64
<b>Vermont</b> .....	40.5	41.1	39.7	9.96	10.43	10.44	403.38	428.67	414.47
Burlington .....	40.7	41.2	39.4	10.46	11.05	11.07	425.72	455.26	436.16
<b>Virginia</b> .....	41.0	40.4	39.6	9.58	9.98	9.95	392.78	403.19	394.02
Bristol .....	39.9	37.6	38.1	8.08	8.30	8.16	322.39	312.08	310.90
Charlottesville .....	41.7	42.2	42.4	8.16	8.84	8.81	340.27	373.05	373.54
Danville .....	43.1	41.4	39.6	9.43	9.48	9.51	406.43	392.47	376.60
Lynchburg .....	42.5	41.2	39.7	9.33	9.78	9.69	396.53	402.94	384.69
Northern Virginia .....	39.7	41.4	38.9	10.69	11.08	11.04	424.39	458.71	429.46
Richmond-Petersburg .....	41.8	42.4	41.7	12.30	12.88	12.92	514.14	546.11	538.76
Roanoke .....	39.9	40.5	38.8	11.28	11.93	11.57	450.07	483.17	448.92
<b>Washington</b> .....	40.7	40.3	40.2	12.20	12.59	12.63	496.54	507.38	507.73
<b>West Virginia</b> .....	40.8	40.5	39.4	11.07	11.31	11.88	451.66	458.06	468.07
Charleston .....	43.6	43.8	44.6	13.59	13.62	13.79	592.52	596.56	615.03
Huntington-Ashland .....	39.4	41.5	41.3	12.60	13.16	13.65	496.44	546.14	563.75
Parkersburg-Marietta .....	42.2	40.9	40.8	12.88	12.85	13.15	543.54	525.57	536.52
Wheeling .....	41.9	41.3	41.8	13.25	13.54	13.73	555.18	559.20	573.91

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Wisconsin</b> .....	41.4	41.5	40.1	\$10.75	\$11.08	\$11.01	\$445.05	\$459.82	\$441.50
Appleton-Oshkosh .....	43.9	43.1	42.5	11.59	11.92	11.83	508.80	513.75	502.78
Eau Claire .....	41.6	44.8	43.4	10.75	10.64	11.54	447.20	476.67	500.84
Green Bay .....	41.4	40.9	41.1	11.39	12.01	12.09	471.55	491.21	496.90
Janesville-Beloit .....	42.4	41.6	32.1	13.28	12.75	11.70	563.07	530.40	375.57
Kenosha .....	40.5	41.9	39.5	12.43	11.73	11.64	503.42	491.49	459.78
La Crosse .....	39.8	39.1	38.2	9.41	9.67	9.70	374.52	378.10	370.54
Madison .....	41.0	40.6	40.2	10.06	10.43	10.39	412.46	423.46	417.68
Milwaukee .....	41.4	41.8	39.9	11.58	11.81	11.58	479.41	493.66	462.04
Racine .....	39.5	39.3	37.6	10.78	11.21	11.24	425.81	440.55	422.62
Sheboygan .....	40.5	41.1	41.6	10.30	10.87	10.93	417.15	446.76	454.69
Wausau .....	42.3	42.1	44.6	10.33	10.84	11.27	436.96	456.36	502.64
<b>Wyoming</b> .....	40.9	39.9	40.7	10.80	10.97	11.50	441.72	437.70	468.05
<b>Puerto Rico</b> .....	39.6	39.1	( <sup>1</sup> )	5.70	5.89	( <sup>1</sup> )	225.72	230.30	( <sup>1</sup> )
<b>Virgin Islands</b> .....	41.7	41.4	42.1	10.40	11.69	11.82	433.68	483.97	497.62

<sup>1</sup> Not available.

<sup>P</sup> = preliminary.

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

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

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Mar. 1990 <sup>r</sup>	Apr. 1990 <sup>r</sup>	May 1990 <sup>p</sup>	May 1989 to May 1990 <sup>p</sup>	Mar. 1990 to Apr. 1990 <sup>r</sup>	Apr. 1990 to May 1990 <sup>p</sup>
Total .....	205,081	203,695	204,793	2.0	-0.7	0.5
Private sector .....	168,704	168,395	168,158	1.8	-2	-1
Mining .....	1,687	1,708	1,710	8.6	1.2	.1
Construction .....	10,834	10,360	10,400	1.9	-4.4	.4
Manufacturing .....	41,237	40,693	41,314	-1.3	-1.3	1.5
Durable goods .....	24,435	24,020	24,490	-1.8	-1.7	2.0
Nondurable goods .....	16,802	16,673	16,824	-.6	-.8	.9
Transportation and public utilities .....	12,029	12,025	12,071	3.1	.0	.4
Wholesale trade .....	12,569	12,608	12,541	2.4	.3	-.5
Retail trade .....	29,768	30,051	29,736	1.4	1.0	-1.0
Finance, insurance, and real estate .....	12,890	13,045	12,832	1.9	1.2	-1.6
Services .....	47,691	47,905	47,553	4.2	.4	-.7
Government .....	36,377	35,300	36,636	2.7	-3.0	3.8

<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**

(1977 = 100)

Item	Annual average		Quarterly index										
	1988	1989	1987		1988				1989				1990
			III	IV	I	II	III	IV	I	II	III	IV	
<b>Business sector</b>													
Output per hour of all persons .....	113.0	114.2	111.7	112.5	113.2	112.6	113.4	113.5	113.8	114.2	114.7	114.8	114.1
Output .....	140.0	144.8	134.4	136.7	138.2	139.3	140.7	141.9	143.6	144.4	145.6	145.7	146.1
Hours .....	123.9	126.8	120.3	121.5	122.1	123.8	124.0	125.0	126.2	126.4	127.0	127.0	128.0
Compensation per hour .....	200.2	211.2	191.8	195.1	196.4	199.1	201.9	204.5	206.9	210.4	212.8	215.7	218.2
Real compensation per hour .....	102.5	103.2	101.6	102.5	102.3	102.6	102.8	103.0	102.8	103.0	103.5	103.9	103.0
Unit labor costs .....	177.1	184.9	171.6	173.5	173.5	176.9	178.0	180.2	181.9	184.1	185.6	187.9	191.1
Unit nonlabor payments .....	170.9	175.8	168.9	167.2	168.9	168.8	171.8	173.7	174.7	176.3	176.5	175.8	176.8
Implicit price deflator .....	174.9	181.7	170.7	171.3	171.9	174.1	175.8	177.9	179.4	181.4	182.4	183.7	186.1
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	111.1	112.1	109.5	110.2	111.0	110.5	111.5	112.0	111.6	111.9	112.6	112.7	112.0
Output .....	140.3	145.0	134.1	136.4	138.0	139.5	141.1	142.8	143.6	144.6	145.9	146.0	146.4
Hours .....	126.3	129.4	122.4	123.7	124.3	126.2	126.6	127.5	128.6	129.2	129.6	129.5	130.8
Compensation per hour .....	198.7	209.5	190.5	193.8	195.0	197.5	200.2	203.0	205.5	208.3	211.0	214.1	216.3
Real compensation per hour .....	101.8	102.4	101.0	101.8	101.5	101.8	101.9	102.3	102.1	102.0	102.6	103.1	102.2
Unit labor costs .....	178.8	186.9	173.9	175.8	175.7	178.7	179.6	181.3	184.1	186.1	187.4	189.9	193.2
Unit nonlabor payments .....	172.2	176.5	170.3	168.7	170.3	169.8	172.1	176.3	174.6	176.5	177.6	177.3	177.3
Implicit price deflator .....	176.5	183.3	172.6	173.4	173.8	175.6	177.0	179.6	180.8	182.8	184.0	185.6	187.7
<b>Manufacturing</b>													
Output per hour of all persons .....	136.0	138.7	134.2	134.5	135.1	136.0	137.3	137.8	138.6	139.5	139.0	140.1	141.8
Output .....	137.6	141.6	131.1	133.3	134.7	136.7	138.8	140.3	141.4	142.2	141.7	141.2	141.8
Hours .....	101.2	102.1	97.7	99.1	99.7	100.5	101.1	101.8	102.0	101.9	102.0	100.8	100.1
Compensation per hour .....	196.0	204.3	190.4	191.7	194.3	195.3	197.4	200.2	201.9	203.2	206.1	209.6	211.4
Real compensation per hour .....	100.4	99.9	100.9	100.6	101.2	100.6	100.5	100.8	100.3	99.5	100.3	101.0	99.9
Unit labor costs .....	144.1	147.3	141.8	142.5	143.8	143.6	143.7	145.2	145.6	145.6	148.3	149.7	149.2
<b>Durable goods</b>													
Output per hour of all persons .....	143.4	146.9	141.0	141.8	142.7	143.8	145.0	145.8	146.4	148.4	148.3	148.4	150.1
Output .....	145.6	150.0	136.4	139.8	141.6	144.5	147.0	149.1	150.0	151.0	150.4	148.8	149.2
Hours .....	101.5	102.1	96.7	98.6	99.2	100.5	101.4	102.3	102.4	101.7	101.4	100.2	99.4
Compensation per hour .....	192.6	200.4	188.9	189.8	192.6	192.4	193.9	196.9	198.8	199.6	202.7	206.3	207.5
Real compensation per hour .....	98.7	97.9	100.1	99.7	100.3	99.1	98.7	99.2	98.8	97.8	98.6	99.4	98.0
Unit labor costs .....	134.4	136.5	134.0	133.9	134.9	133.8	133.8	135.1	135.7	134.5	136.7	139.0	138.2
<b>Nondurable goods</b>													
Output per hour of all persons .....	125.0	126.6	124.4	123.7	124.0	124.4	125.8	125.8	126.9	126.4	125.4	127.8	129.5
Output .....	125.8	129.1	123.1	123.5	124.4	124.9	126.6	127.1	128.6	129.1	128.8	130.0	130.8
Hours .....	100.6	102.0	99.0	99.8	100.4	100.4	100.6	101.0	101.3	102.2	102.8	101.7	101.0
Compensation per hour .....	201.8	211.2	193.3	195.2	197.5	200.5	203.4	205.7	207.2	209.7	212.4	215.7	218.7
Real compensation per hour .....	103.4	103.2	102.5	102.5	102.9	103.3	103.5	103.6	103.0	102.7	103.3	103.9	103.3
Unit labor costs .....	161.4	166.8	155.4	157.8	159.3	161.2	161.6	163.4	163.3	165.9	169.4	168.8	168.9
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	114.7	114.8	113.0	113.5	114.6	114.7	115.1	114.9	114.5	114.5	115.3	115.2	114.6
Output .....	143.5	147.1	136.9	138.9	141.2	142.8	144.3	145.4	145.8	146.5	148.1	148.1	148.2
Hours .....	125.1	128.2	121.1	122.4	123.2	124.5	125.4	126.5	127.4	128.0	128.4	128.6	129.4
Compensation per hour .....	194.1	204.0	186.9	189.5	190.9	193.1	195.5	197.8	200.2	202.8	205.5	208.5	210.4
Real compensation per hour .....	99.4	99.7	99.1	99.5	99.4	99.5	99.5	99.6	99.5	99.3	99.9	100.4	99.4
Total unit costs .....	174.6	183.8	170.8	172.1	171.9	173.6	175.2	177.5	180.4	182.9	184.6	187.3	189.6
Unit labor costs .....	169.3	177.8	165.3	167.0	166.6	168.4	169.9	172.1	174.9	177.1	178.1	181.0	183.7
Unit nonlabor costs .....	190.3	201.7	186.9	187.2	187.8	188.9	191.0	193.3	196.9	200.1	203.9	205.7	207.0
Unit profits .....	128.8	113.9	129.3	122.0	127.0	129.1	127.5	131.6	119.6	116.6	113.5	106.1	105.7
Implicit price deflator .....	169.1	175.5	165.8	166.1	166.5	168.2	169.5	172.0	173.1	175.0	176.1	177.5	179.5

' = 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					
	IV 1988	I 1989	II 1989	III 1989	IV 1989	I 1990 <sup>r</sup>	IV 1988	I 1989	II 1989	III 1989	IV 1989	I 1990 <sup>r</sup>
<b>Business sector</b>												
Output per hour of all persons .....	0.2	1.1	1.6	1.5	0.4	-2.1	0.9	0.5	1.5	1.1	1.1	0.3
Output .....	3.4	4.8	2.3	3.5	.3	1.1	3.8	3.9	3.6	3.5	2.7	1.8
Hours .....	3.2	3.7	.6	1.9	.0	3.4	2.9	3.3	2.1	2.4	1.6	1.5
Compensation per hour .....	5.2	4.8	6.8	4.7	5.6	4.7	4.8	5.4	5.6	5.4	5.5	5.4
Real compensation per hour .....	.8	-.6	.8	1.9	1.5	-3.2	.5	.6	.4	.7	.9	.2
Unit labor costs .....	5.0	3.7	5.1	3.2	5.2	7.0	3.9	4.8	4.1	4.2	4.3	5.1
Unit nonlabor payments .....	4.6	2.4	3.5	.4	-1.5	2.4	3.9	3.4	4.4	2.7	1.2	1.2
Implicit price deflator .....	4.8	3.3	4.6	2.2	2.9	5.4	3.9	4.3	4.2	3.7	3.2	3.8
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	1.9	-1.3	1.1	2.4	.5	-2.7	1.6	.6	1.3	1.0	.7	.3
Output .....	4.8	2.4	2.8	3.7	.3	1.0	4.7	4.1	3.7	3.4	2.3	1.9
Hours .....	2.8	3.7	1.7	1.3	-.2	3.9	3.0	3.5	2.4	2.4	1.6	1.7
Compensation per hour .....	5.9	4.9	5.6	5.3	6.0	4.1	4.8	5.4	5.5	5.4	5.5	5.3
Real compensation per hour .....	1.5	-.5	-.4	2.4	1.9	-3.7	.5	.6	.3	.7	.8	.0
Unit labor costs .....	3.8	6.2	4.5	2.8	5.5	7.0	3.1	4.8	4.1	4.4	4.8	5.0
Unit nonlabor payments .....	10.1	-3.7	4.2	2.5	-.6	-.1	4.5	2.6	3.9	3.2	.6	1.5
Implicit price deflator .....	5.9	2.8	4.4	2.7	3.4	4.6	3.6	4.0	4.1	4.0	3.3	3.8
<b>Manufacturing</b>												
Output per hour of all persons .....	1.5	2.4	2.6	-1.6	3.1	4.9	2.5	2.6	2.6	1.2	1.6	2.2
Output .....	4.4	3.1	2.4	-1.4	-1.3	1.7	5.3	4.9	4.1	2.1	.7	.3
Hours .....	2.9	.7	-.2	.1	-4.3	-3.0	2.7	2.3	1.4	.9	-.9	-1.9
Compensation per hour .....	5.7	3.5	2.7	5.9	7.0	3.5	4.4	3.9	4.0	4.4	4.7	4.7
Real compensation per hour .....	1.4	-1.9	-3.2	3.0	2.8	-4.2	.2	-.8	-1.1	-.2	.1	-.5
Unit labor costs .....	4.2	1.1	.0	7.6	3.7	-1.3	1.9	1.3	1.4	3.2	3.1	2.4
<b>Durable goods</b>												
Output per hour of all persons .....	2.2	1.9	5.4	-.4	.5	4.6	2.8	2.6	3.2	2.3	1.8	2.5
Output .....	6.0	2.2	2.8	-1.7	-4.1	1.2	6.6	5.9	4.5	2.3	-.2	-.5
Hours .....	3.8	.3	-2.5	-1.3	-4.6	-3.2	3.7	3.2	1.2	.0	-2.0	-2.9
Compensation per hour .....	6.3	3.8	1.7	6.4	7.3	2.2	3.8	3.2	3.8	4.5	4.8	4.4
Real compensation per hour .....	1.9	-1.5	-4.1	3.4	3.2	-5.4	-.5	-1.5	-1.4	-.1	.2	-.8
Unit labor costs .....	4.1	1.9	-3.6	6.8	6.8	-2.2	.9	.6	.5	2.2	2.9	1.8
<b>Nondurable goods</b>												
Output per hour of all persons .....	.1	3.3	-1.5	-3.2	8.0	5.5	1.7	2.3	1.6	-.4	1.5	2.1
Output .....	1.7	4.7	1.8	-1.0	3.7	2.5	2.9	3.4	3.4	1.8	2.3	1.7
Hours .....	1.6	1.4	3.3	2.3	-4.0	-2.8	1.2	1.0	1.8	2.1	.7	-.3
Compensation per hour .....	4.6	2.9	4.9	5.4	6.4	5.6	5.4	4.9	4.6	4.5	4.9	5.6
Real compensation per hour .....	.3	-2.4	-1.1	2.5	2.3	-2.2	1.0	.1	-.6	-.2	.3	.3
Unit labor costs .....	4.5	-.3	6.5	8.9	-1.5	.2	3.6	2.5	2.9	4.8	3.3	3.4
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-.4	-1.7	.1	3.0	-.6	-2.1	1.3	-.1	-.2	.2	.2	.1
Output .....	3.2	1.0	2.0	4.3	.2	.3	4.7	3.2	2.6	2.6	1.8	1.7
Hours .....	3.6	2.7	1.8	1.2	.9	2.4	3.4	3.4	2.8	2.3	1.6	1.6
Compensation per hour .....	4.8	4.9	5.4	5.4	6.0	3.8	4.4	4.9	5.0	5.1	5.4	5.1
Real compensation per hour .....	.5	-.5	-.6	2.5	1.9	-4.0	.1	.1	-.2	.4	.8	-.1
Total unit costs .....	5.2	6.9	5.7	3.8	5.8	5.0	3.1	5.0	5.4	5.4	5.5	5.1
Unit labor costs .....	5.3	6.6	5.3	2.3	6.6	6.0	3.1	5.0	5.2	4.9	5.2	5.0
Unit nonlabor costs .....	4.9	7.5	6.7	7.7	3.7	2.5	3.3	4.9	5.9	6.7	6.4	5.1
Unit profits .....	13.3	-31.7	-9.7	-10.3	-23.6	-1.5	7.9	-5.8	-9.7	-11.0	-19.4	-11.6
Implicit price deflator .....	5.9	2.8	4.3	2.6	3.3	4.5	3.5	4.0	4.0	3.9	3.2	3.7

<sup>r</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		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Alabama</b> .....	1,894.4	1,896.2	1,904.8	129.4	131.7	118.9	6.8	6.9	6.2
Birmingham .....	440.7	439.9	442.1	25.4	24.6	22.6	5.8	5.6	5.1
Huntsville .....	132.0	133.3	133.8	6.2	6.2	6.0	4.7	4.6	4.5
Mobile .....	212.5	208.3	211.3	18.6	13.9	14.4	8.7	6.7	6.8
Montgomery .....	138.2	138.3	139.9	8.1	8.0	8.2	5.9	5.8	5.9
Tuscaloosa .....	71.6	71.8	72.9	3.7	2.9	3.1	5.1	4.1	4.3
<b>Alaska</b> .....	248.1	252.1	251.6	17.5	19.9	19.9	7.1	7.9	7.9
<b>Arizona</b> .....	1,715.0	1,697.1	1,714.6	90.7	85.8	86.9	5.3	5.1	5.1
Phoenix .....	1,065.6	1,051.3	1,063.2	46.4	44.3	43.9	4.4	4.2	4.1
Tucson .....	319.8	307.9	314.1	14.8	12.2	12.4	4.6	4.0	4.0
<b>Arkansas</b> .....	1,123.2	1,131.4	1,140.4	88.7	83.3	72.3	7.9	7.4	6.3
Fayetteville-Springdale .....	62.3	64.4	65.0	2.5	2.3	2.0	4.0	3.6	3.1
Fort Smith .....	92.8	92.4	92.2	7.4	7.2	5.6	8.0	7.8	6.1
Little Rock-North Little Rock .....	264.8	269.2	270.2	18.2	16.0	14.7	6.9	5.9	5.4
Pine Bluff .....	37.6	37.2	37.6	3.2	3.0	2.9	8.4	8.1	7.6
<b>California<sup>1</sup></b> .....	14,238.4	14,545.3	14,600.1	729.7	765.9	768.9	5.1	5.3	5.3
Anaheim-Santa Ana .....	1,403.5	1,385.9	1,388.9	41.2	35.2	41.0	2.9	2.5	3.0
Bakersfield .....	231.1	228.6	232.9	24.7	25.9	24.0	10.7	11.3	10.3
Fresno .....	303.7	298.7	311.5	33.2	35.5	33.7	10.9	11.9	10.8
Los Angeles-Long Beach <sup>1</sup> .....	4,131.1	4,437.0	4,403.0	178.7	262.0	239.0	4.3	5.9	5.4
Modesto .....	158.1	154.5	158.0	21.1	18.0	19.2	13.3	11.7	12.1
Oakland .....	1,097.3	1,103.9	1,111.7	47.6	38.4	42.8	4.3	3.5	3.8
Oxnard-Ventura .....	363.4	365.9	369.7	16.2	14.7	16.1	4.5	4.0	4.3
Riverside-San Bernardino .....	996.5	1,032.2	1,040.4	54.6	52.6	59.7	5.5	5.1	5.7
Sacramento .....	719.8	725.1	729.7	37.2	31.4	32.5	5.2	4.3	4.5
San Diego .....	1,151.3	1,178.4	1,186.6	44.9	41.1	46.1	3.9	3.5	3.9
San Francisco .....	872.2	874.2	878.5	29.6	24.6	27.5	3.4	2.8	3.1
San Jose .....	836.3	815.9	813.6	33.2	27.7	30.4	4.0	3.4	3.7
Santa Barbara-Santa Maria-Lompoc .....	181.0	179.3	180.9	7.5	7.7	7.6	4.1	4.3	4.2
Santa Rosa-Petaluma .....	196.1	204.5	207.0	9.1	7.9	8.5	4.7	3.9	4.1
Stockton .....	197.7	189.0	194.4	20.0	18.0	18.9	10.1	9.5	9.7
Vallejo-Fairfield-Napa .....	191.1	193.6	197.2	10.6	9.4	9.9	5.5	4.8	5.0
<b>Colorado</b> .....	1,674.0	1,710.5	1,725.6	108.3	93.6	91.2	6.5	5.5	5.3
Boulder-Longmont .....	132.5	135.6	136.0	6.6	5.5	5.0	5.0	4.1	3.7
Denver .....	857.5	871.0	874.8	49.8	43.7	40.2	5.8	5.0	4.6
<b>Connecticut</b> .....	1,767.8	1,776.9	1,782.8	56.4	93.0	91.6	3.2	5.2	5.1
Bridgeport-Milford .....	232.0	230.2	230.3	9.6	15.0	14.7	4.1	6.5	6.4
Hartford .....	430.1	434.3	434.0	12.1	19.9	19.4	2.8	4.6	4.5
New Britain .....	74.4	75.1	76.3	2.7	4.7	4.6	3.7	6.3	6.0
New Haven-Meriden .....	278.4	278.6	280.6	8.2	14.0	14.0	2.9	5.0	5.0
Stamford .....	114.5	113.8	114.3	2.7	3.8	4.0	2.3	3.4	3.5
Waterbury .....	103.1	104.5	105.0	4.2	7.9	8.1	4.1	7.6	7.8
<b>Delaware</b> .....	358.3	362.3	359.9	11.3	16.0	14.3	3.1	4.4	4.0
Wilmington .....	311.3	316.0	313.4	9.9	13.5	12.6	3.2	4.3	4.0
<b>District of Columbia</b> .....	312.1	304.4	299.4	16.7	17.0	17.4	5.3	5.6	5.8
Washington .....	2,197.9	2,222.0	2,205.3	57.3	58.2	55.8	2.6	2.6	2.5
<b>Florida<sup>1</sup></b> .....	6,153.4	6,345.4	6,297.4	316.5	316.3	347.2	5.1	5.0	5.5
Daytona Beach .....	156.5	158.2	156.1	8.7	7.7	8.5	5.6	4.9	5.4
Fort Lauderdale-Hollywood-Pompano Beach .....	644.7	669.2	657.7	31.4	30.4	33.6	4.9	4.5	5.1
Fort Myers-Cape Coral .....	145.9	155.9	153.9	5.6	5.0	6.2	3.8	3.2	4.0
Gainesville .....	105.9	107.8	106.8	3.2	2.9	3.9	3.1	2.7	3.6
Jacksonville .....	449.2	454.7	451.0	24.6	22.9	23.5	5.5	5.0	5.2
Lakeland-Winter Haven .....	177.5	183.5	183.5	11.7	15.9	17.9	6.6	8.7	9.8
Melbourne-Titusville-Palm Bay .....	186.5	192.0	191.3	9.1	9.2	10.6	4.9	4.8	5.5
Miami-Hialeah .....	936.1	956.7	947.8	57.5	52.4	57.7	6.1	5.5	6.1
Orlando .....	600.2	617.9	620.7	27.5	27.4	31.2	4.6	4.4	5.0
Pensacola .....	146.4	146.2	145.7	9.0	7.2	8.0	6.2	4.9	5.5
Sarasota .....	122.5	125.9	124.6	4.4	4.3	5.2	3.6	3.4	4.2
Tallahassee .....	130.9	134.0	134.4	4.8	4.7	5.1	3.7	3.5	3.8
Tampa-St. Petersburg-Clearwater .....	992.3	1,016.2	1,005.7	46.9	44.3	48.0	4.7	4.4	4.8
West Palm Beach-Boca Raton-Delray Beach .....	417.2	434.7	431.2	21.4	23.0	24.4	5.1	5.3	5.7

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		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>
<b>Georgia</b> .....	3,144.9	3,220.6	3,188.5	173.3	153.5	149.3	5.5	4.8	4.7
Albany .....	52.5	52.4	52.2	4.0	3.2	3.2	7.6	6.0	6.1
Athens .....	76.7	78.2	78.2	3.1	3.0	3.0	4.1	3.9	3.8
Atlanta .....	1,493.1	1,529.9	1,513.8	77.8	66.7	67.1	5.2	4.4	4.4
Augusta .....	187.2	186.4	187.1	10.1	6.9	7.3	5.4	3.7	3.9
Columbus .....	97.5	96.9	96.3	5.4	5.1	5.4	5.6	5.2	5.6
Macon-Warner Robins .....	130.5	132.9	131.6	6.1	6.1	5.4	4.7	4.6	4.1
Savannah .....	112.0	114.2	113.0	6.0	5.1	4.9	5.4	4.5	4.3
<b>Hawaii</b> .....	521.1	534.8	537.7	14.1	16.0	13.9	2.7	3.0	2.6
Honolulu .....	382.0	394.8	395.2	9.0	11.0	8.8	2.4	2.8	2.2
<b>Idaho</b> .....	484.7	499.7	501.2	25.3	33.4	32.9	5.2	6.7	6.6
Boise City .....	113.6	120.4	117.5	3.7	4.7	4.4	3.2	3.9	3.8
<b>Illinois</b> <sup>1</sup> .....	5,970.4	5,948.4	8,038.8	338.2	353.9	376.4	5.7	5.9	6.2
Aurora-Elgin .....	181.9	181.2	184.1	8.7	10.8	10.8	4.8	5.9	5.9
Bloomington-Normal .....	73.7	73.6	74.7	3.4	3.0	3.1	4.6	4.1	4.2
Champaign-Urbana-Rantoul .....	92.2	91.1	91.8	3.6	3.3	3.3	3.9	3.6	3.6
Chicago .....	3,266.4	3,277.8	3,318.8	171.6	182.8	198.7	5.3	5.6	6.0
Davenport-Rock Island-Moline .....	183.2	179.8	181.9	10.8	10.8	10.7	5.9	6.0	5.9
Decatur .....	61.1	59.5	60.3	4.2	4.0	4.3	6.9	6.7	7.1
Joliet .....	207.2	205.4	207.8	12.5	13.8	14.1	6.0	6.7	6.8
Kankakee .....	46.0	46.0	46.8	3.6	3.3	3.6	7.9	7.3	7.7
Lake County .....	294.2	294.1	298.7	10.4	11.2	11.6	3.5	3.8	3.9
Peoria .....	163.1	160.9	163.0	9.0	9.3	9.9	5.5	5.8	6.1
Rockford .....	155.3	152.7	155.7	8.8	9.1	9.6	5.7	6.0	6.2
Springfield .....	112.9	112.1	113.3	5.0	4.8	5.0	4.4	4.3	4.4
<b>Indiana</b> .....	2,879.5	2,830.7	2,855.5	119.9	175.1	156.8	4.2	6.2	5.5
Anderson .....	60.3	59.1	58.9	2.5	4.1	3.5	4.2	7.0	5.9
Bloomington .....	61.3	60.5	62.1	1.6	2.3	2.7	2.6	3.8	4.4
Elkhart-Goshen .....	100.0	96.8	96.7	3.4	5.3	4.4	3.4	5.5	4.6
Evansville .....	146.3	145.1	146.3	7.0	9.8	8.5	4.8	6.7	5.8
Fort Wayne .....	205.6	203.7	204.3	7.5	12.0	10.7	3.6	5.9	5.3
Gary-Hammond .....	260.7	258.4	259.6	12.7	17.7	17.1	4.9	6.8	6.6
Indianapolis .....	690.9	675.7	680.5	23.9	30.0	27.5	3.5	4.4	4.0
Kokomo .....	48.6	47.1	47.6	2.3	2.9	2.8	4.8	6.2	5.9
Lafayette-West Lafayette .....	70.0	70.3	71.1	1.7	2.4	2.2	2.5	3.4	3.1
Muncie .....	81.5	60.2	60.8	2.7	3.7	3.4	4.4	6.1	5.6
South Bend-Mishawaka .....	132.5	135.2	135.0	5.2	9.3	7.6	3.9	6.9	5.7
Terre Haute .....	62.3	59.7	60.9	2.9	3.6	3.2	4.6	6.0	5.2
<b>Iowa</b> .....	1,513.5	1,497.1	1,508.1	60.7	72.9	63.9	4.0	4.9	4.2
Cedar Rapids .....	97.7	98.2	97.9	3.3	5.9	5.8	3.4	6.0	5.9
Des Moines .....	234.4	233.7	233.9	8.3	8.0	7.6	3.5	3.4	3.2
Dubuque .....	45.0	44.2	44.6	2.4	2.6	2.8	5.3	5.9	6.4
Iowa City .....	63.3	62.8	63.2	.8	1.1	.9	1.3	1.7	1.5
Sioux City .....	60.7	59.8	59.5	2.4	2.4	2.5	4.0	4.0	4.1
Waterloo-Cedar Falls .....	72.7	71.9	72.8	3.6	3.8	3.6	5.0	5.3	4.9
<b>Kansas</b> .....	1,281.0	1,295.3	1,297.3	48.1	51.7	48.4	3.8	4.0	3.7
Lawrence .....	42.6	43.8	44.3	1.1	1.5	1.2	2.7	3.4	2.8
Topeka .....	92.6	92.9	92.5	3.4	3.8	3.4	3.7	4.1	3.7
Wichita .....	253.1	254.8	254.2	9.8	10.3	9.9	3.9	4.0	3.9
<b>Kentucky</b> .....	1,724.5	1,764.2	1,774.9	111.6	111.7	109.0	6.5	6.3	6.1
Lexington-Fayette .....	197.9	201.5	205.0	7.9	7.7	7.9	4.0	3.8	3.9
Louisville .....	513.1	520.3	521.8	26.3	28.0	26.4	5.1	5.4	5.1
Owensboro .....	44.7	45.4	45.8	2.7	2.7	2.8	6.0	6.0	6.2
<b>Louisiana</b> .....	1,913.4	1,848.7	1,861.8	160.6	125.3	108.8	8.4	6.8	5.8
Alexandria .....	60.3	56.6	56.9	5.0	3.9	3.4	8.3	6.9	5.9
Baton Rouge .....	273.3	268.1	269.9	18.4	15.3	13.8	6.7	5.7	5.1
Houma-Thibodaux .....	69.5	67.7	68.6	6.2	4.4	4.0	8.9	6.4	5.8
Lafayette .....	100.5	97.2	98.4	7.3	5.4	4.4	7.2	5.6	4.5
Lake Charles .....	76.1	74.4	75.0	6.2	5.3	4.3	8.2	7.1	5.7
Monroe .....	68.8	66.7	67.4	5.5	4.2	3.5	8.0	6.3	5.2
New Orleans .....	597.4	575.8	578.1	44.3	35.0	31.0	7.4	6.1	5.4
Shreveport .....	159.6	154.1	154.5	13.9	10.7	9.3	8.7	7.0	6.0
<b>Maine</b> .....	603.8	620.9	616.5	27.1	36.2	28.1	4.5	5.8	4.6
Lewiston-Auburn .....	42.0	43.3	42.6	2.1	3.3	2.4	5.1	7.6	5.5
Portland .....	127.4	131.4	130.3	3.0	5.2	3.7	2.3	4.0	2.9

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>a</sup>
<b>Maryland</b> .....	2,496.3	2,553.3	2,518.7	91.9	84.7	84.2	3.7	3.3	3.3
Baltimore .....	1,195.5	1,218.2	1,201.2	47.9	43.7	43.8	4.0	3.6	3.6
<b>Massachusetts</b> <sup>1</sup> .....	3,196.4	3,165.9	3,160.4	118.5	188.2	173.1	3.7	5.9	5.5
Boston .....	1,583.7	1,562.4	1,559.1	49.5	76.2	72.0	3.1	4.9	4.6
Brockton .....	100.9	100.9	100.8	4.4	7.2	6.6	4.4	7.1	6.6
Fall River .....	77.5	80.8	79.3	4.5	8.8	7.4	5.8	10.9	9.4
Fitchburg-Leominster .....	49.2	48.1	48.4	2.4	3.8	3.6	4.9	7.8	7.4
Lawrence-Haverhill .....	189.6	193.0	192.8	9.1	13.7	12.5	4.8	7.1	6.5
Lowell .....	155.5	152.2	152.3	6.3	10.2	9.6	4.0	6.7	6.3
New Bedford .....	87.4	87.3	86.9	4.9	8.8	7.5	5.6	10.0	8.7
Pittsfield .....	40.7	40.6	41.1	2.1	2.7	2.5	5.2	6.6	6.0
Springfield .....	257.9	255.9	254.5	9.5	14.4	13.5	3.7	5.6	5.3
Worcester .....	223.5	222.4	222.1	8.0	13.7	12.5	3.6	6.1	5.6
<b>Michigan</b> <sup>1</sup> .....	4,473.2	4,489.0	4,447.4	275.8	340.5	311.0	6.2	7.6	7.0
Ann Arbor .....	159.0	161.6	160.0	4.9	7.2	6.1	3.1	4.4	3.8
Battle Creek .....	63.6	64.7	63.9	3.8	5.4	4.9	6.0	8.3	7.7
Benton Harbor .....	77.6	77.0	76.2	4.8	6.0	5.2	6.2	7.8	6.8
Detroit .....	2,142.4	2,128.5	2,103.9	127.3	154.9	143.9	5.9	7.3	6.8
Flint .....	179.5	178.6	175.8	15.9	15.8	14.4	8.9	8.9	8.2
Grand Rapids .....	359.4	366.8	364.0	16.2	21.5	20.3	4.5	5.9	5.6
Jackson .....	63.5	64.2	63.6	3.8	5.2	4.9	6.0	8.0	7.7
Kalamazoo .....	116.9	117.9	116.9	5.1	6.6	6.0	4.3	5.6	5.1
Lansing-East Lansing .....	236.7	237.8	233.8	11.2	13.1	11.9	4.7	5.5	5.1
Muskegon .....	66.0	66.6	66.3	5.2	6.3	6.2	7.8	9.5	9.4
Saginaw-Bay City-Midland .....	177.9	180.7	179.2	11.0	13.8	12.5	6.2	7.7	7.0
<b>Minnesota</b> .....	2,288.3	2,354.7	2,329.3	114.7	127.1	125.7	5.0	5.4	5.4
Duluth .....	106.6	111.1	109.9	7.2	7.4	7.9	6.8	6.7	7.2
Minneapolis-St. Paul .....	1,358.4	1,399.2	1,388.6	55.2	80.4	62.4	4.1	4.3	4.5
Rochester .....	60.4	63.2	61.8	1.9	2.2	2.2	3.2	3.5	3.6
St. Cloud .....	98.0	103.8	102.5	6.1	7.0	6.6	6.2	6.7	6.4
<b>Mississippi</b> .....	1,151.5	1,176.1	1,178.6	88.0	85.1	78.5	7.6	7.2	6.7
Jackson .....	198.8	205.6	207.5	10.4	9.8	9.6	5.2	4.8	4.6
<b>Missouri</b> .....	2,613.3	2,607.2	2,853.4	132.3	151.2	124.2	5.1	5.8	4.7
Kansas City .....	846.7	856.3	863.1	39.7	39.1	34.9	4.7	4.6	4.0
St. Louis LMA .....	1,269.2	1,258.7	1,279.8	64.8	73.2	65.3	5.1	5.8	5.1
Springfield .....	126.4	126.4	128.7	5.2	5.4	4.5	4.1	4.2	3.5
<b>Montana</b> .....	401.6	412.2	409.8	23.3	24.7	22.7	5.8	6.0	5.5
<b>Nebraska</b> .....	809.9	837.5	837.8	23.8	23.4	20.3	2.9	2.8	2.4
Lincoln .....	125.3	129.2	129.0	3.0	2.7	2.8	2.4	2.1	2.0
Omaha .....	330.8	333.8	334.1	10.8	10.2	9.4	3.3	3.1	2.8
<b>Nevada</b> .....	600.9	618.7	617.4	28.6	30.4	29.3	4.8	4.9	4.8
Las Vegas .....	358.3	374.2	373.7	17.2	17.4	17.8	4.8	4.6	4.8
Reno .....	137.3	136.8	136.2	6.1	6.9	6.3	4.4	5.1	4.6
<b>New Hampshire</b> .....	594.7	622.5	619.5	19.3	33.1	30.5	3.2	5.3	4.9
Manchester .....	85.0	88.0	88.2	2.4	4.6	4.1	2.9	5.2	4.6
Nashua .....	97.5	99.2	98.8	3.2	5.3	5.1	3.3	5.4	5.1
Portsmouth-Dover-Rochester .....	131.8	128.7	127.7	3.0	5.1	4.4	2.3	3.9	3.5
<b>New Jersey</b> <sup>1</sup> .....	3,942.4	4,048.2	3,976.4	139.4	199.0	176.7	3.5	4.9	4.4
Atlantic City .....	171.1	177.6	177.2	8.4	11.3	9.6	4.9	6.3	5.4
Bergen-Passaic .....	702.8	721.7	706.9	22.6	32.8	29.1	3.2	4.5	4.1
Jersey City .....	269.4	277.6	272.4	15.8	21.2	19.0	5.9	7.6	7.0
Middlesex-Somerset-Hunterdon .....	563.5	576.3	566.1	13.5	20.7	18.9	2.4	3.6	3.3
Monmouth-Ocean .....	473.9	485.3	479.0	14.7	22.5	20.3	3.1	4.6	4.2
Newark .....	949.1	982.4	963.1	35.5	50.8	45.4	3.7	5.2	4.7
Trenton .....	170.2	174.3	171.3	4.6	6.8	6.0	2.7	3.9	3.5
Vineland-Millville-Bridgeton .....	57.6	59.8	58.9	3.8	5.2	4.3	6.6	8.7	7.4
<b>New Mexico</b> .....	693.2	699.7	701.5	48.3	45.7	46.4	7.0	6.5	6.6
Albuquerque .....	265.0	264.2	264.1	14.2	13.2	14.5	5.4	5.0	5.5
Las Cruces .....	56.7	59.3	59.6	3.9	4.3	4.3	6.8	7.3	7.2
Santa Fe .....	65.3	67.5	67.9	2.7	2.4	2.4	4.2	3.6	3.5

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		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>New York</b> <sup>1</sup> .....	8,652.5	8,599.5	8,581.3	483.2	458.5	410.9	5.6	5.3	4.8
Albany-Schenectady-Troy .....	434.9	433.4	435.5	20.7	17.3	15.3	4.8	4.0	3.5
Binghamton .....	127.4	122.8	122.3	7.1	5.9	5.4	5.6	4.8	4.4
Buffalo .....	465.9	457.6	458.2	30.6	22.9	22.0	6.6	5.0	4.8
Elmira .....	43.5	43.7	43.8	2.1	2.1	1.9	4.9	4.7	4.3
Glens Falls .....	54.3	54.3	52.3	4.1	3.6	3.1	7.6	6.7	6.0
Nassau-Suffolk .....	1,437.0	1,403.7	1,409.9	61.8	49.8	49.7	4.3	3.5	3.5
New York .....	3,947.9	3,987.9	3,945.2	224.2	247.8	214.9	5.7	6.2	5.4
New York City <sup>1</sup> .....	3,267.7	3,318.0	3,272.0	196.5	227.0	194.0	6.0	6.8	5.9
Orange County .....	138.0	134.8	135.9	7.4	6.3	6.0	5.4	4.6	4.4
Poughkeepsie .....	129.8	126.8	127.2	5.0	3.8	3.6	3.8	3.0	2.8
Rochester .....	512.8	500.7	505.1	24.0	20.7	18.8	4.7	4.1	3.7
Syracuse .....	322.9	317.1	319.4	18.2	14.3	12.8	5.6	4.5	4.0
Utica-Rome .....	139.2	135.5	136.3	9.3	7.1	6.3	6.7	5.3	4.6
<b>North Carolina</b> <sup>1</sup> .....	3,382.9	3,365.2	3,366.7	137.5	120.6	120.1	4.1	3.6	3.6
Asheville .....	89.8	92.0	92.2	3.0	2.7	2.7	3.4	2.9	2.9
Charlotte-Gastonia-Rock Hill .....	642.4	647.9	645.3	23.2	19.8	19.2	3.6	3.0	3.0
Greensboro-Winston-Salem-High Point .....	524.5	513.4	509.2	19.4	17.1	16.9	3.7	3.3	3.3
Raleigh-Durham .....	417.6	418.8	417.0	11.2	9.0	9.0	2.7	2.1	2.2
<b>North Dakota</b> .....	326.6	322.2	325.4	13.8	16.5	13.1	4.2	5.1	4.0
Bismarck .....	47.2	46.7	47.1	1.8	2.4	1.7	3.7	5.1	3.6
Fargo-Moorhead .....	86.5	87.2	87.7	2.6	3.0	2.8	3.1	3.5	3.2
Grand Forks .....	36.3	36.0	36.4	1.4	1.4	1.3	3.8	3.8	3.6
<b>Ohio</b> <sup>1</sup> .....	5,333.2	5,353.0	5,373.0	267.5	318.2	301.7	5.0	5.9	5.6
Akron .....	328.8	330.6	332.3	16.4	18.4	17.4	5.0	5.6	5.2
Canton .....	190.9	190.3	192.5	10.8	12.9	12.6	5.6	6.8	6.5
Cincinnati .....	766.3	777.2	780.6	30.8	32.7	31.5	4.0	4.2	4.0
Cleveland .....	933.2	936.8	939.7	40.6	46.7	44.9	4.4	5.0	4.8
Columbus .....	718.8	722.8	726.0	30.9	33.8	31.2	4.3	4.7	4.3
Dayton-Springfield .....	471.9	475.1	474.1	21.1	26.5	24.3	4.5	5.6	5.1
Toledo .....	314.1	314.3	315.1	16.6	22.0	20.4	5.3	7.0	6.5
Youngstown-Warren .....	220.8	221.3	221.8	13.5	16.3	15.2	6.1	7.4	6.9
<b>Oklahoma</b> .....	1,498.3	1,530.3	1,522.0	86.4	83.2	76.0	5.8	5.4	5.0
Enid .....	27.4	27.5	27.4	1.2	1.2	1.1	4.5	4.5	4.0
Lawton .....	47.7	48.6	48.3	2.4	2.8	2.7	5.0	5.7	5.6
Oklahoma City .....	494.8	505.0	501.8	24.2	22.0	20.6	4.9	4.4	4.1
Tulsa .....	332.4	343.8	343.2	19.7	19.3	17.7	5.9	5.6	5.2
<b>Oregon</b> .....	1,481.6	1,425.7	1,451.0	86.9	80.7	71.5	5.9	5.7	4.9
Eugene-Springfield .....	148.2	144.9	147.8	7.9	8.2	7.4	5.3	5.6	5.0
Portland .....	680.5	655.7	667.9	30.3	26.9	24.5	4.5	4.1	3.7
Salem .....	137.2	129.7	132.3	8.8	7.5	6.8	6.4	5.8	5.2
<b>Pennsylvania</b> <sup>1</sup> .....	5,812.6	5,915.3	5,877.9	235.0	316.2	315.5	4.0	5.3	5.4
Allentown-Bethlehem .....	326.6	333.0	330.6	12.4	18.5	18.4	3.8	5.6	5.6
Altoona .....	59.4	60.3	61.0	3.4	4.1	4.6	5.6	6.9	7.5
Beaver County .....	58.8	59.3	59.2	4.1	4.9	4.8	7.0	8.3	8.0
Erie .....	131.6	134.9	133.0	6.4	7.8	7.2	4.9	5.8	5.4
Harrisburg-Lebanon-Carlisle .....	326.9	334.6	333.1	10.0	13.5	13.1	3.0	4.0	3.9
Johnstown .....	93.8	96.6	95.2	5.6	7.8	7.5	6.0	8.1	7.8
Lancaster .....	222.3	225.3	224.0	5.7	8.7	8.4	2.6	3.8	3.7
Philadelphia .....	2,422.3	2,436.1	2,411.2	82.0	107.4	108.2	3.4	4.4	4.5
Pittsburgh .....	973.8	996.2	989.0	41.9	50.1	48.8	4.3	5.0	4.9
Reading .....	175.3	179.8	179.0	6.7	9.2	9.6	3.8	5.1	5.4
Scranton-Wilkes-Barre .....	358.5	369.7	367.5	16.8	25.2	24.6	4.7	6.8	6.7
Sharon .....	50.7	51.6	52.1	1.9	2.6	3.2	3.8	5.1	6.2
State College .....	65.3	68.1	68.1	2.3	3.5	3.2	3.5	5.1	4.7
Williamsport .....	59.6	61.8	61.7	3.4	4.3	4.3	5.7	7.0	7.1
York .....	221.2	226.2	224.3	7.5	11.7	10.9	3.4	5.2	4.8
<b>Rhode Island</b> .....	523.8	523.4	524.8	20.5	42.9	37.3	3.9	8.2	7.1
Pawtucket-Woonsocket-Attleboro .....	166.5	168.8	167.5	7.3	14.9	12.6	4.4	8.8	7.5
Providence .....	344.0	343.3	344.5	13.0	26.5	23.5	3.8	7.7	6.8
<b>South Carolina</b> .....	1,680.3	1,715.3	1,703.3	72.4	73.8	68.6	4.3	4.3	4.0
Charleston .....	226.8	230.6	230.3	8.1	7.0	6.7	3.6	3.0	2.9
Columbia .....	237.5	237.6	235.4	8.2	7.2	7.3	3.5	3.0	3.1
Greenville-Spartanburg .....	334.9	343.8	341.7	11.3	12.4	11.6	3.4	3.6	3.4
<b>South Dakota</b> .....	359.0	352.5	361.3	14.2	14.2	13.2	4.0	4.0	3.7
Rapid City .....	39.1	39.1	39.8	1.6	1.5	1.6	4.1	3.7	4.1
Sioux Falls .....	74.2	74.3	74.6	2.4	2.4	2.2	3.3	3.2	2.9

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>	Apr. 1989	Mar. 1990	Apr. 1990 <sup>P</sup>
<b>Tennessee</b> .....	2,341.4	2,370.7	2,371.5	116.6	120.5	116.5	5.0	5.1	4.9
Chattanooga .....	209.4	207.3	207.2	12.3	9.4	9.0	5.9	4.5	4.4
Johnson City-Kingsport-Bristol .....	214.8	218.0	218.3	9.3	9.8	9.0	4.3	4.5	4.1
Knoxville .....	285.1	284.2	284.6	15.1	15.6	14.7	5.3	5.5	5.2
Memphis .....	461.5	463.8	466.9	21.4	20.9	20.3	4.6	4.5	4.4
Nashville .....	526.9	526.2	525.6	19.5	19.2	19.8	3.7	3.7	3.8
<b>Texas<sup>1</sup></b> .....	8,359.9	8,346.5	8,386.2	581.2	472.5	499.2	7.0	5.7	6.0
Abilene .....	52.8	51.5	51.5	3.7	2.6	2.8	6.9	5.1	5.5
Amarillo .....	97.1	94.8	96.1	5.7	4.8	4.7	5.9	5.1	4.9
Austin .....	431.3	428.9	430.0	24.0	17.5	18.9	5.6	4.1	4.4
Beaumont-Port Arthur .....	162.7	159.9	162.1	15.7	11.0	11.9	9.6	6.9	7.4
Brazoria .....	85.2	84.5	85.6	6.0	4.3	4.4	7.1	5.1	5.1
Brownsville-Harlingen .....	103.1	106.6	106.4	12.0	11.7	11.4	11.6	10.9	10.8
Bryan-College Station .....	61.8	62.1	62.5	2.8	2.0	2.1	4.5	3.2	3.3
Corpus Christi .....	159.3	157.6	159.6	14.2	9.3	10.0	8.9	5.9	6.3
Dallas .....	1,432.2	1,428.4	1,434.4	80.5	63.9	69.8	5.6	4.5	4.9
El Paso .....	245.6	250.1	250.8	25.0	23.7	25.5	10.2	9.5	10.2
Fort Worth-Arlington .....	714.9	721.8	723.9	40.2	32.3	34.7	5.6	4.5	4.8
Galveston-Texas City .....	110.8	108.2	109.5	8.0	6.9	7.7	7.2	6.4	7.0
Houston .....	1,653.5	1,668.1	1,673.6	101.1	76.2	82.1	6.1	4.6	4.9
Killeen-Temple .....	96.1	97.7	98.3	7.7	6.2	6.5	8.0	6.4	6.7
Laredo .....	51.5	53.6	53.4	6.8	6.2	5.9	13.1	11.5	11.1
Longview-Marshall .....	79.9	79.6	79.5	7.4	4.9	5.2	9.3	6.2	6.5
Lubbock .....	112.8	113.3	113.6	5.6	4.3	4.8	5.0	3.8	4.2
McAllen-Edinburg-Mission .....	158.5	168.2	165.5	26.7	36.6	32.2	16.8	21.7	19.5
Midland .....	49.4	48.5	48.6	3.0	2.5	2.5	6.0	5.1	5.2
Odessa .....	52.1	50.8	50.5	4.4	3.0	3.2	8.5	6.0	6.2
San Angelo .....	45.7	44.1	44.2	2.6	2.4	2.6	5.6	5.5	5.8
San Antonio .....	612.9	603.4	611.4	45.0	36.0	42.9	7.3	6.0	7.0
Sherman-Denison .....	47.2	46.7	46.8	3.1	2.3	2.4	6.6	4.9	5.1
Texarkana .....	57.6	57.4	57.6	4.6	3.3	3.4	7.9	5.8	5.8
Tyler .....	75.6	74.2	74.4	5.3	3.9	4.2	7.0	5.3	5.6
Victoria .....	35.7	35.7	35.6	2.3	1.6	1.6	6.6	4.4	4.6
Waco .....	92.8	93.1	93.7	5.3	4.4	4.8	5.7	4.7	5.1
Wichita Falls .....	56.1	56.0	55.9	3.3	2.8	3.0	5.9	5.1	5.3
<b>Utah</b> .....	777.5	791.6	787.3	43.8	41.4	41.3	5.6	5.2	5.2
Provo-Orem .....	109.0	114.6	114.0	5.3	4.9	4.6	4.9	4.2	4.0
Salt Lake City-Ogden .....	506.7	510.7	505.1	27.1	25.1	24.7	5.4	4.9	4.9
<b>Vermont</b> .....	303.1	311.4	310.0	12.0	15.5	14.0	4.0	5.0	4.5
Burlington .....	78.3	79.8	81.4	1.8	2.6	2.2	2.4	3.2	2.7
<b>Virginia</b> .....	3,136.2	3,129.8	3,145.1	108.4	123.2	105.8	3.5	3.9	3.4
Charlottesville .....	69.9	75.4	75.2	1.6	2.4	1.5	2.3	3.2	2.0
Danville .....	51.9	51.6	51.7	3.1	3.2	3.0	6.0	6.2	5.9
Lynchburg .....	73.4	73.3	73.8	2.6	3.2	3.1	3.5	4.4	4.2
Norfolk-Virginia Beach-Newport News .....	614.3	609.2	617.3	25.5	25.1	24.4	4.2	4.1	4.0
Richmond-Petersburg .....	454.0	449.9	452.1	15.5	16.3	13.9	3.4	3.6	3.1
Roanoke .....	122.4	120.5	120.0	4.1	4.1	2.7	3.3	3.4	2.3
<b>Washington</b> .....	2,433.9	2,548.4	2,538.3	150.0	146.6	133.2	6.2	5.8	5.2
Seattle .....	1,094.4	1,156.6	1,147.7	50.6	45.3	43.3	4.6	3.9	3.8
<b>West Virginia</b> .....	762.5	756.1	754.0	65.8	57.3	50.9	8.6	7.6	6.7
Charleston .....	117.8	117.6	117.5	8.7	6.8	6.1	7.4	5.8	5.2
Huntington-Ashland .....	129.3	130.8	131.4	8.6	8.7	8.3	6.7	6.6	6.3
Parkersburg-Marietta .....	71.4	72.3	71.7	4.6	4.6	4.1	6.4	6.3	5.7
Wheeling .....	72.4	72.5	72.3	5.0	4.5	4.4	6.9	6.2	6.1
<b>Wisconsin</b> .....	2,601.7	2,545.9	2,550.6	114.8	125.9	119.9	4.4	4.9	4.7
Appleton-Oshkosh-Neenah .....	173.8	169.9	170.2	7.6	7.8	7.6	4.4	4.6	4.5
Eau Claire .....	76.3	74.2	75.1	3.4	5.3	3.7	4.5	7.2	4.9
Green Bay .....	109.3	107.7	108.5	4.3	4.4	4.5	4.0	4.1	4.1
Janesville-Beloit .....	74.5	72.6	74.4	3.7	3.8	3.7	4.9	5.3	5.0
Kenosha .....	54.3	51.5	51.6	4.8	3.7	3.7	8.8	7.2	7.1
La Crosse .....	55.7	53.5	53.3	2.3	2.4	2.0	4.1	4.5	3.8
Madison .....	225.7	222.2	222.3	5.4	7.4	6.1	2.4	3.3	2.7
Milwaukee .....	771.2	762.1	763.6	27.7	28.0	30.2	3.6	3.7	4.0
Racine .....	92.2	90.5	91.0	4.4	4.5	5.3	4.8	4.9	5.8
Sheboygan .....	59.1	57.8	58.0	2.1	2.4	2.6	3.6	4.2	4.5
Wausau .....	64.9	64.8	64.3	3.0	3.2	3.2	4.7	5.0	4.9
<b>Wyoming</b> .....	234.3	240.2	243.2	14.3	16.6	14.4	6.1	6.9	5.9
Casper .....	30.9	31.0	31.9	2.0	2.2	2.1	6.6	7.1	6.5

<sup>1</sup> Data are obtained directly from the Current Population Survey. See the Explanatory Notes for State and Area Labor Force Data.  
<sup>P</sup> = preliminary.

NOTE: Data refer to place of residence. Estimates for 1989 have been benchmarked to 1989 Current Population Survey annual averages. Except in the

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

# Explanatory Notes

## Introduction

The statistics in this periodical are compiled from two major sources: (1) Household interviews, and (2) reports from employers.

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural 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 300,000 establishments employing over 38 million nonagricultural 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 nonagricultural 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 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 nonagricultural 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; and (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 were 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 appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

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

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

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 rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. 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 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

**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 <sup>2</sup>	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.

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 contain 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 32 age-sex groups each; the other races category has 6 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. 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 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 postcensal 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-Hispanic 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-Hispanic 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 error 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 change between 2 consecutive months. Estimates of change for non-consecutive 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



**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)
Total, 16 years and over:		
Civilian labor force .....	275	212
Employed .....	293	224
Unemployed .....	136	140
Men, 20 years and over:		
Civilian labor force .....	173	151
Employed .....	186	163
Unemployed .....	93	95
Women, 20 years and over:		
Civilian labor force .....	211	155
Employed .....	212	160
Unemployed .....	83	87
Both sexes, 16 to 19 years:		
Civilian labor force .....	88	94
Employed .....	92	102
Unemployed .....	59	66
Black, 16 years and over:		
Civilian labor force .....	94	73
Employed .....	104	79
Unemployed .....	68	71
Men, 20 years and over:		
Civilian labor force .....	59	51
Employed .....	64	57
Unemployed .....	44	47
Women, 20 years and over:		
Civilian labor force .....	76	50
Employed .....	76	54
Unemployed .....	45	48
Both sexes, 16 to 19 years:		
Civilian labor force .....	36	40
Employed .....	33	38
Unemployed .....	30	33

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 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

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

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 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

**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.

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

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

Standard error of year-to-year change =

$$\sqrt{\left(\frac{\text{Standard error}}{x}\right)^2 + \left(\frac{\text{Standard error}}{y}\right)^2 - 2(P) \left(\frac{\text{Standard error}}{x}\right) \left(\frac{\text{Standard error}}{y}\right)}$$

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the corre-

lation 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:

$$(216,000)^2 + (221,000)^2 - 2(.30) (216,000) (221,000),$$

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 and hours and earnings in nonagricultural establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, 1909-84*, and *Employment, Hours, and Earnings, States and Areas, 1939-82* 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 nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory 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 and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual (SICM)*, 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 also are 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. The overall indexes are calculated from 349 seasonally adjusted employment series (three-digit industries) covering all nonagricultural payroll employment in the private sector. The manufacturing diffusion indexes are based on 141 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 1977. 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; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. 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. In addition, such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours.



*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-time 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 nonproduction 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 selected employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

### Size and regional stratification

A number of industries are stratified by size of establish-

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

### Benchmark adjustments

Employment estimates are compared periodically with

benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1988 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the

**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.

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.

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

## THE SAMPLE

### Design

The sampling plan used in the establishment survey is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a larger percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments, with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclu-

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1988**

(In thousands)

Industry	Benchmark	Estimate	Percent difference
Total .....	103,835	104,161	-0.3
Mining .....	711	723	-1.7
Construction .....	4,686	4,787	-2.2
Manufacturing .....	19,171	19,302	-.7
Transportation and public utilities .....	5,437	5,473	-.7
Wholesale trade .....	5,926	6,016	-1.5
Retail trade .....	18,551	18,612	-.3
Finance, insurance, and real estate .....	6,594	6,599	-.1
Services .....	25,103	24,978	.5
Government .....	17,656	17,671	-.1

sion 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 later 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.

**Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1988**

Industry	Benchmarks (thousands)	Sample coverage <sup>1</sup>		
		Number of establishments	Number (thousands)	Percent of benchmarks
Total .....	103,835	262,856	38,922	37
Mining .....	711	3,361	276	39
Construction .....	4,686	24,924	917	20
Manufacturing .....	19,171	49,889	9,483	49
Transportation and public utilities .....	5,437	214,091	22,482	46
Wholesale trade .....	5,926	22,810	1,062	18
Retail trade .....	18,551	49,015	3,704	20
Finance, insurance, and real estate .....	6,594	19,711	2,126	32
Services .....	25,103	58,713	5,795	23
Government:				
Federal .....	2,964	( <sup>2</sup> )	2,964	100
State .....	4,151	4,883	3,406	82
Local .....	10,541	15,459	6,707	64

<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.

<sup>3</sup> Total Federal employment counts 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.

## 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 usually adjusted annually to new benchmarks. In addition to taking account of sampling and 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

**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 estimates of employment <sup>1</sup>	Relative error <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total .....	0.2	—	—
Total private .....	.3	0.1	0.2
Mining .....	2.2	1.0	1.3
Construction .....	1.8	.2	.5
Manufacturing .....	.7	.1	.2
Durable goods .....	.7	.1	.3
Nondurable goods .....	.9	.1	.2
Transportation and public utilities .....	.4	.7	.6
Wholesale trade .....	1.0	.2	.4
Retail trade .....	.7	.2	.4
Finance, insurance, and real estate .....	.3	.2	.4
Services .....	.3	.4	.6
Government <sup>3</sup> .....	.3	—	—

<sup>1</sup> The average percent revision in employment for the 1984-88 benchmarks.

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

<sup>3</sup> Estimates 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.

relative errors of the estimate. (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:

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

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 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.

**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.

Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. 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 .....	88,900	89,500	Nondurable goods—Continued		
Total private .....	61,300	58,900	Chemicals and allied products ..	2,600	2,800
Goods-producing industries .....	21,200	19,800	Petroleum and coal products ...	1,200	1,200
Mining .....	4,400	4,200	Rubber and misc. plastics products .....	1,600	1,600
Oil and gas extraction .....	3,800	3,300	Leather and leather products ...	1,700	1,600
Construction .....	14,400	15,100	Service-producing industries .....	85,400	85,700
General building contractors .....	4,900	5,100	Transportation and public utilities ..	14,600	13,000
Manufacturing .....	18,200	18,300	Transportation .....	16,600	16,000
Durable goods .....	13,700	12,300	Communication and public utilities .....	6,500	6,100
Lumber and wood products .....	2,200	2,000	Wholesale trade .....	8,700	7,700
Furniture and fixtures .....	1,700	1,600	Durable goods .....	5,800	5,300
Stone, clay, and glass products ..	1,600	1,500	Nondurable goods .....	5,000	4,400
Primary metal industries .....	4,300	4,300	Retail trade .....	38,600	34,400
Blast furnaces and basic steel products .....	3,300	3,100	General merchandise stores .....	22,800	20,400
Fabricated metal products .....	2,400	2,200	Food stores .....	6,800	6,000
Machinery, except electrical .....	5,700	6,800	Automotive dealers and service stations .....	4,200	5,100
Electrical and electronic equipment .....	4,900	4,900	Eating and drinking places .....	10,100	9,500
Transportation equipment .....	7,700	7,000	Finance, insurance, and real estate .....	8,700	7,600
Motor vehicles and equipment ..	6,500	6,600	Finance .....	4,100	3,900
Instruments and related products ..	2,100	2,200	Insurance .....	3,700	3,100
Miscellaneous manufacturing .....	1,800	1,800	Real estate .....	5,000	4,000
Nondurable goods .....	8,500	8,400	Services .....	36,600	34,900
Food and kindred products .....	5,600	5,600	Business services .....	11,700	10,700
Tobacco manufactures .....	1,500	1,400	Health services .....	10,200	10,000
Textile mill products .....	1,800	1,700	Government .....	59,700	53,500
Apparel and other textile products .....	4,500	4,000	Federal .....	15,900	11,300
Paper and allied products .....	1,600	1,400	State .....	22,000	20,000
Printing and publishing .....	2,100	2,000	Local .....	34,600	34,500

NOTE: Data are based on differences from December 1983 through December 1988.

## 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 1977 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 1977 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 takers for the 1980 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.

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Bureau of Labor Statistics**

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