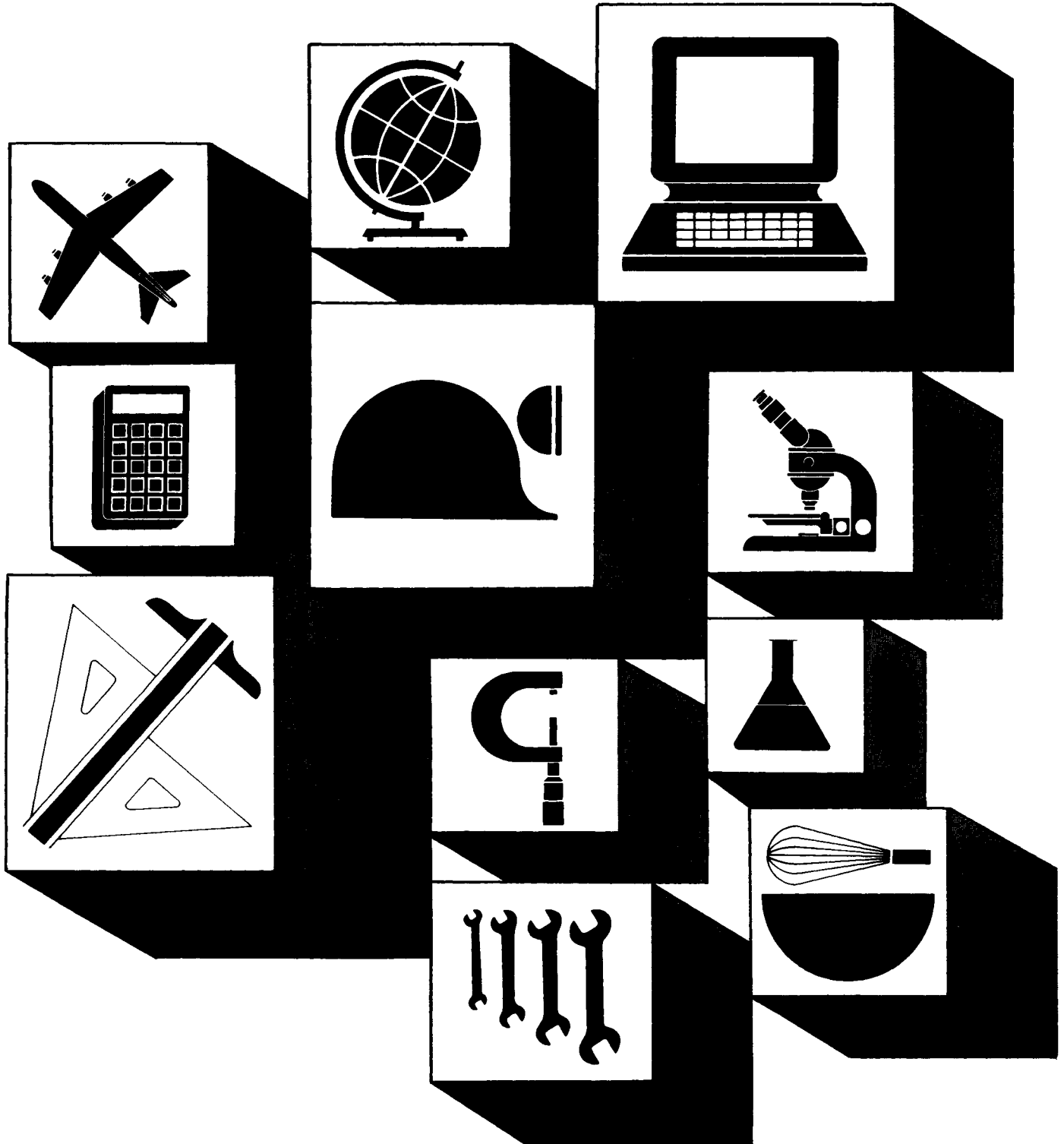




# EMPLOYMENT AND EARNINGS

U.S. Department of Labor  
Bureau of Labor Statistics  
July 1989





**U.S. DEPARTMENT OF LABOR**  
Elizabeth Dole, Secretary

BUREAU OF LABOR STATISTICS  
Janet L. Norwood, *Commissioner*

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**Calendar of Features**

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

**Household data**

Annual averages	Jan.
Union affiliation	Jan.
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.
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**Establishment data**

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

**State and area labor force data**

Annual averages	May
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<sup>1</sup> The latest supplement was published in August 1988.

# Employment and Earnings

Vol. 36 No. 7 July 1989

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Editors: Gloria Peterson Green, Rosalie K. Epstein

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# Employment and Unemployment Developments, June 1989

Unemployment was little changed in June, and employment rose moderately. The overall unemployment rate was 5.2 percent and the civilian worker rate was 5.3 percent; they had been 5.1 and 5.2 percent, respectively, in May.

Nonagricultural payroll employment—as measured by the survey of business establishments—increased by 180,000 in June, seasonally adjusted, about in line with recent gains. However, the number of jobs in the goods-producing sector declined by 50,000. Total civilian employment—as measured by the survey of households—rose by 325,000 over the month.

## Unemployment

The number of unemployed persons, 6.6 million, and the civilian worker unemployment rate, 5.3 percent, were little changed in June, after seasonal adjustment. Both series were also at about the same levels as a year earlier. (See table A-33.)

The jobless rates for adult men (4.3 percent), adult women (4.9 percent), teenagers (15.6 percent), whites (4.5 percent), and Hispanics (8.1 percent) were essentially unchanged from the previous month. There was an increase in the rate for young adult workers (20-24 year-olds), from 7.7 to 8.9 percent. Black workers (11.9 percent) also experienced an increase in their unemployment rate, as there was a rise in joblessness among young black women. (See tables A-33, A-34, and A-38.)

The median duration of unemployment, at 5.5 weeks, was about unchanged from the previous month and was down only slightly over the year. Average (mean) duration of unemployment declined seven-tenths of a week in June to a seasonally adjusted level of 11.1 weeks. This measure has fallen by more than 2 weeks over the past year, largely due to a decline in the number of long-term unemployed. The number of newly unemployed persons, those jobless for less than 5 weeks, rose to 3.3 million in June, after having held at 3.0 or 3.1 million for most of the last year and a half. Paralleling this was an increase of 200,000 in unemployed reentrants to the labor force. (See tables A-40 and A-41.)

## Civilian employment and the labor force

Civilian employment increased by 325,000 in June to a seasonally adjusted level of 117.5 million, as the employment-population ratio—the proportion of the

population that is employed—reached a new high of 63.1 percent. Over the past year, employment has risen by 2.5 million. (See table A-33.)

The civilian labor force increased by 490,000 in June to a seasonally adjusted level of 124.1 million. The labor force participation rate, at 66.6 percent, was at a record high. Over the year, the civilian labor force has risen by 2.5 million, 1.5 million of which occurred among adult women and 1.2 million among adult men. (See table A-33.)

## Discouraged workers

The quarterly estimate of discouraged workers—persons who want to work but have not looked for jobs because they believe they cannot find any—was about unchanged in the April-June period, at a seasonally adjusted level of 870,000. Blacks accounted for 37 percent of discouraged workers, even though they make up only 11 percent of the civilian working-age population. (See table A-53.)

## Industry payroll employment

Total nonagricultural payroll employment rose by 180,000 in June to a level of 108.5 million, seasonally adjusted. This gain was about the same as the increase for the previous month, as revised, and occurred entirely within the service-producing sector. (See table B-4.)

In the goods sector, employment decreased by 50,000 in June, returning the job total to its January level. Manufacturing employment fell for the third consecutive month and was 50,000 below the March level. Employment in auto manufacturing was down by 15,000, as production was cut back because of large inventories. Employment in the electrical equipment industry continued its downward trend; since November, the industry has lost 30,000 jobs. There were also small but widespread over-the-month declines in other industries, particularly in the durable goods sector. One exception to this pattern of job loss was the machinery industry, where employment has continued to increase in each month of 1989, although at a slower pace than in 1988.

The number of mining jobs fell over the month, as about 10,000 workers were off payrolls for the entire reference period due to labor-management disputes. Construction employment was little changed for the second straight month.

The service-producing sector continued to show job gains.

Employment in the services industry itself rose by 160,000 in June, with business and health services both posting large increases. Employment in the transportation industry, which had increased on a consistent basis for the last 3 years, rose by another 20,000. Insurance and real estate jobs continued to rise. After exhibiting strong-to-moderate growth during 1988 and early this year, employment levels were little changed in both wholesale and retail trade.

### Weekly hours

Average weekly hours for production or nonsupervisory workers on private nonagricultural payrolls, at 34.6 hours in June, seasonally adjusted, were unchanged over the month. The manufacturing workweek decreased by 0.1 hour to 40.9 in June, while factory overtime (3.8 hours) was unchanged. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 127.8 (1977=100), increased by 0.2 percent, after seasonal adjustment. The index for manufacturing declined 0.3 percent to 96.2, due to the drop in both the hours and employment levels. (See table C-6.)

### Hourly and weekly earnings

Both the average hourly and weekly earnings of private production or nonsupervisory workers were about unchanged in June, after seasonal adjustment. Prior to seasonal adjustment, average hourly earnings inched down by 1 cent to \$9.58 and average weekly earnings increased by \$1.57 to \$332.43. Average hourly earnings rose 3.8 percent over the past year. (See tables C-1 and C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
July	August 4	October	November 3
August	September 1	November	December 8
September	October 6	December	January 5



# New Seasonal Adjustment Factors for Household Data Series

\*Robert J. McIntire

Semiannually, the Bureau of Labor Statistics publishes the factors to be used during the following 6 months for seasonal adjustment of the major labor force series. Table 1 presents these seasonal adjustment factors for the 12 major labor force components for July-December 1989. The factors which were used for these components during the first 6 months of 1989 were published in the January 1989 issue of *Employment and Earnings*. The 12 seasonally adjusted series which result from the application of these factors are used in the computation of the seasonally adjusted figures for the national unemployment level and for the overall and civilian employment and labor force levels and unemployment rates. The overall measures include the resident Armed Forces in the employed segment of the labor force, but seasonal factors are not calculated for the resident Armed Forces data since they are considered to have no seasonal component.

The new seasonal factors have been extrapolated using the X-11 ARIMA program with data through June 1989 for each series. The ARIMA models used were the same as those used at the beginning of the year for the extrapolation of the factors for January through June; they were identified in the January issue of this publication. The historical seasonally adjusted data, including the first 6 months of 1989, will not be revised until the beginning of 1990. More detailed information on the adjustment method, the procedures for aggregation, and the revision of historical data is included in the January 1989 issue in the article entitled "Revision of Seasonally Adjusted Labor Force Series."

\* Robert J. McIntire is an economist and Chief of the Data Development Staff in the Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

Data for any of the several hundred seasonally adjusted labor force series and the July-December 1989 factors for any of the other independently adjusted series (there are about 200 in addition to the 12 major components) may be obtained from BLS upon request. Requests for data or inquiries concerning the seasonal adjustment methodology or the availability of machine-readable files of labor force data should be addressed to the Data Development Staff, Bureau of Labor Statistics, Washington, DC 20212.

**Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, July-December 1989**

Procedure and series	July	Aug.	Sept.	Oct.	Nov.	Dec.
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over . . .	1.087	1.070	1.034	1.040	.983	.927
Women, 20 years and over . . .	1.185	1.059	1.000	1.058	1.006	.914
Men, 16 to 19 years . . . . .	1.698	1.398	.998	.867	.710	.602
Women, 16 to 19 years . . . .	1.739	1.449	.812	.760	.682	.722
Nonagricultural employment:						
Men, 20 years and over . . . .	1.010	1.010	1.006	1.005	1.002	.998
Women, 20 years and over . . .	.987	.988	.999	1.011	1.013	1.010
Unemployment:						
Men, 20 years and over . . . .	.956	.919	.875	.898	.965	.992
Women, 20 years and over . . .	1.038	1.073	1.070	1.009	.975	.903
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years . . . . .	867	643	-155	-170	-137	-142
Women, 16 to 19 years . . . .	735	532	-176	-107	-132	-31
Unemployment:						
Men, 16 to 19 years . . . . .	144	-20	-44	-37	-42	-58
Women, 16 to 19 years . . . .	115	-3	4	-28	-24	-110

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1955 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>											
1955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660
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	1,647	63,036	5,586	57,450	4,602	6.6	46,088
1959	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960
1960 <sup>1</sup>	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617
1961	120,671	72,359	60.0	67,646	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>											
<b>1988:</b>											
June	186,247	123,209	66.2	116,686	1,685	115,001	3,121	111,880	6,523	5.3	63,038
July	186,402	123,331	66.2	116,707	1,673	115,034	3,060	111,974	6,624	5.4	63,071
August	186,522	123,692	66.3	116,895	1,692	115,203	3,142	112,061	6,797	5.5	62,830
September	186,666	123,688	66.3	117,074	1,704	115,370	3,176	112,194	6,614	5.3	62,978
October	186,801	123,778	66.3	117,260	1,687	115,573	3,238	112,335	6,518	5.3	63,023
November	186,949	124,215	66.4	117,652	1,705	115,947	3,238	112,709	6,563	5.3	62,734
December	187,098	124,259	66.4	117,705	1,696	116,009	3,193	112,816	6,554	5.3	62,839
<b>1989:</b>											
January	187,340	125,124	66.8	118,407	1,696	116,711	3,300	113,411	6,716	5.4	62,216
February	187,461	124,865	66.6	118,537	1,684	116,853	3,223	113,630	6,328	5.1	62,596
March	187,581	124,948	66.6	118,820	1,684	117,136	3,206	113,930	6,128	4.9	62,633
April	187,708	125,343	66.8	118,797	1,684	117,113	3,104	114,009	6,546	5.2	62,365
May	187,854	125,283	66.7	118,888	1,673	117,215	3,112	114,102	6,395	5.1	62,571
June	187,995	125,768	66.9	119,207	1,666	117,541	3,096	114,445	6,561	5.2	62,228

<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, 1978 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>												
1978 <sup>1</sup> .....	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956	
1979 .....	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983 .....	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984 .....	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987 .....	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1988:</b>												
June .....	89,367	68,436	76.6	64,894	1,523	63,371	2,448	60,923	3,542	5.2	20,931	
July .....	89,445	68,461	76.5	64,941	1,512	63,429	2,475	60,954	3,520	5.1	20,984	
August .....	89,504	68,685	76.7	64,931	1,529	63,402	2,491	60,911	3,754	5.5	20,819	
September .....	89,577	68,604	76.6	65,015	1,540	63,475	2,488	60,987	3,589	5.2	20,973	
October .....	89,637	68,569	76.5	64,976	1,526	63,450	2,544	60,906	3,593	5.2	21,068	
November .....	89,716	68,686	76.6	65,074	1,542	63,532	2,533	60,999	3,612	5.3	21,030	
December .....	89,792	68,638	76.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,154	
<b>1989:</b>												
January .....	89,914	69,032	76.8	65,322	1,532	63,790	2,501	61,289	3,710	5.4	20,882	
February .....	89,973	69,113	76.8	65,572	1,521	64,051	2,509	61,542	3,540	5.1	20,860	
March .....	90,032	69,190	76.9	65,920	1,521	64,399	2,497	61,902	3,270	4.7	20,842	
April .....	90,094	69,360	77.0	65,767	1,521	64,246	2,440	61,806	3,593	5.2	20,734	
May .....	90,167	69,114	76.7	65,713	1,511	64,202	2,447	61,755	3,401	4.9	21,053	
June .....	90,237	69,507	77.0	66,110	1,501	64,609	2,455	62,154	3,397	4.9	20,730	
<b>Annual averages</b>												
<b>WOMEN</b>												
1978 <sup>1</sup> .....	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980 .....	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981 .....	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <sup>1</sup> .....	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987 .....	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1988:</b>												
June .....	96,880	54,773	56.5	51,792	162	51,630	673	50,957	2,981	5.4	42,107	
July .....	96,957	54,870	56.6	51,766	161	51,605	585	51,020	3,104	5.7	42,087	
August .....	97,018	55,007	56.7	51,964	163	51,801	651	51,150	3,043	5.5	42,011	
September .....	97,089	55,084	56.7	52,059	164	51,895	688	51,207	3,025	5.5	42,005	
October .....	97,164	55,209	56.8	52,284	161	52,123	694	51,429	2,925	5.3	41,955	
November .....	97,234	55,529	57.1	52,578	163	52,415	705	51,710	2,951	5.3	41,705	
December .....	97,306	55,621	57.2	52,650	162	52,488	716	51,772	2,971	5.3	41,685	
<b>1989:</b>												
January .....	97,427	56,091	57.6	53,085	164	52,921	799	52,122	3,006	5.4	41,336	
February .....	97,488	55,752	57.2	52,965	163	52,802	713	52,089	2,787	5.0	41,736	
March .....	97,550	55,758	57.2	52,900	163	52,737	709	52,028	2,858	5.1	41,792	
April .....	97,614	55,983	57.4	53,029	163	52,866	663	52,203	2,953	5.3	41,631	
May .....	97,687	56,169	57.5	53,175	162	53,013	666	52,347	2,994	5.3	41,518	
June .....	97,758	56,261	57.6	53,097	165	52,932	641	52,290	3,164	5.6	41,497	

<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, 1955 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>								
1955 .....	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
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>2</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>2</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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1988:</b>								
June .....	184,562	121,524	65.8	115,001	6,523	5.4	5.3	5.5
July .....	184,729	121,658	65.9	115,034	6,624	5.4	5.3	5.7
August .....	184,830	122,000	66.0	115,203	6,797	5.6	5.6	5.5
September .....	184,962	121,984	66.0	115,370	6,614	5.4	5.4	5.5
October .....	185,114	122,091	66.0	115,573	6,518	5.3	5.4	5.3
November .....	185,244	122,510	66.1	115,947	6,563	5.4	5.4	5.3
December .....	185,402	122,563	66.1	116,009	6,554	5.3	5.3	5.4
<b>1989:</b>								
January .....	185,644	123,428	66.5	116,711	6,716	5.4	5.5	5.4
February .....	185,777	123,181	66.3	116,853	6,328	5.1	5.2	5.0
March .....	185,897	123,264	66.3	117,136	6,128	5.0	4.8	5.1
April .....	186,024	123,659	66.5	117,113	6,546	5.3	5.3	5.3
May .....	186,181	123,610	66.4	117,215	6,395	5.2	5.0	5.3
June .....	186,329	124,102	66.6	117,541	6,561	5.3	5.0	5.6

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

Explanatory Notes.

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



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	June 1989										
	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 .....	159,297	107,762	67.6	102,869	4,893	4.5	51,535	23,545	2,711	2,714	22,564
16 to 19 years .....	11,564	7,931	68.6	6,768	1,163	14.7	3,633	373	1,616	32	1,612
16 to 17 years .....	5,503	3,184	57.9	2,596	588	18.5	2,319	131	1,043	13	1,132
18 to 19 years .....	6,061	4,747	78.3	4,172	575	12.1	1,314	242	573	19	480
20 to 24 years .....	14,881	12,590	84.6	11,652	938	7.5	2,291	1,154	543	34	560
25 to 54 years .....	87,957	73,528	83.6	71,104	2,424	3.3	14,428	10,136	533	1,053	2,707
25 to 34 years .....	35,967	30,297	84.2	29,051	1,246	4.1	5,670	4,188	340	246	896
25 to 29 years .....	17,710	14,871	84.0	14,223	647	4.4	2,838	2,028	233	118	459
30 to 34 years .....	18,257	15,426	84.5	14,827	598	3.9	2,832	2,160	107	128	438
35 to 44 years .....	30,718	26,055	84.8	25,288	767	2.9	4,663	3,249	157	377	880
35 to 39 years .....	16,372	13,781	84.2	13,358	423	4.8	2,591	1,880	78	175	496
40 to 44 years .....	14,346	12,274	85.6	11,931	344	2.8	2,072	1,420	78	204	384
45 to 54 years .....	21,271	17,176	80.7	16,765	411	2.4	4,095	2,698	36	429	931
45 to 49 years .....	11,556	9,608	83.1	9,383	225	2.3	1,948	1,286	22	208	442
50 to 54 years .....	9,715	7,568	77.9	7,381	187	3.0	2,147	1,471	13	221	489
55 to 64 years .....	18,746	10,573	56.4	10,280	292	2.8	8,173	3,875	13	595	3,690
55 to 59 years .....	9,260	6,261	67.6	6,091	170	2.7	2,999	1,619	6	298	1,075
60 to 64 years .....	9,487	4,312	45.5	4,189	123	2.8	5,174	2,255	7	298	2,615
65 years and over .....	26,151	3,141	12.0	3,066	75	2.4	23,009	8,008	5	1,000	13,996
65 to 69 years .....	8,894	1,865	21.0	1,815	50	2.7	7,031	2,458	2	226	4,343
70 to 74 years .....	6,999	788	11.3	767	22	2.8	6,210	2,164	-1	193	3,855
75 years and over .....	10,257	489	4.8	484	4	.8	9,768	3,387	3	580	5,797
<b>Men</b>											
16 years and over .....	78,450	60,126	78.6	57,581	2,545	4.2	16,324	368	1,289	1,456	13,210
16 to 19 years .....	5,833	4,141	71.0	3,546	595	14.4	1,892	35	809	22	826
16 to 17 years .....	2,815	1,705	60.5	1,378	326	19.2	1,111	20	511	10	571
18 to 19 years .....	3,018	2,437	80.8	2,168	269	11.0	581	15	298	12	258
20 to 24 years .....	7,284	6,717	92.2	6,217	501	7.5	567	11	264	21	271
25 to 54 years .....	43,549	41,244	94.7	39,991	1,254	3.0	2,304	108	207	671	1,318
25 to 34 years .....	17,918	17,158	95.8	16,493	665	3.9	758	41	151	180	386
25 to 29 years .....	8,791	8,344	94.9	7,993	350	4.2	447	20	122	81	224
30 to 34 years .....	9,125	8,814	96.6	8,499	314	3.8	312	21	30	99	162
35 to 44 years .....	15,208	14,460	95.1	14,074	388	2.7	748	35	49	240	423
35 to 39 years .....	8,135	7,749	95.3	7,546	203	2.6	388	20	30	111	225
40 to 44 years .....	7,073	6,711	94.9	6,528	183	2.7	382	15	19	130	198
45 to 54 years .....	10,425	9,627	92.3	9,424	203	2.1	798	31	7	251	510
45 to 49 years .....	5,879	5,300	93.3	5,198	104	2.0	379	20	3	131	224
50 to 54 years .....	4,746	4,327	91.2	4,228	99	2.3	419	11	3	120	285
55 to 64 years .....	8,900	8,139	91.4	7,989	150	2.4	2,761	57	7	352	2,345
55 to 59 years .....	4,447	3,594	80.8	3,505	88	2.5	854	22	4	173	855
60 to 64 years .....	4,453	2,545	57.2	2,483	62	2.4	1,907	35	4	179	1,690
65 years and over .....	10,885	1,884	17.3	1,839	45	2.4	9,000	158	2	391	8,450
65 to 69 years .....	4,063	1,056	26.0	1,029	27	2.5	3,008	47	1	131	2,828
70 to 74 years .....	3,038	508	16.7	493	15	3.0	2,530	38	-1	93	2,400
75 years and over .....	3,783	321	8.5	317	4	1.2	3,462	73	1	188	3,222
<b>Women</b>											
16 years and over .....	82,847	47,836	57.5	45,288	2,348	4.9	35,211	23,177	1,422	1,258	9,354
16 to 19 years .....	5,731	3,789	66.1	3,221	568	15.0	1,942	338	808	10	786
16 to 17 years .....	2,888	1,479	55.0	1,218	262	17.7	1,208	111	532	3	562
18 to 19 years .....	3,043	2,310	75.9	2,004	306	13.3	733	227	275	7	224
20 to 24 years .....	7,597	5,872	77.3	5,435	437	7.4	1,725	1,143	279	13	269
25 to 54 years .....	44,408	32,284	72.7	31,113	1,170	3.6	12,124	10,028	326	382	1,389
25 to 34 years .....	18,051	13,139	72.8	12,558	581	4.4	4,912	4,147	189	86	510
25 to 29 years .....	8,919	6,527	73.2	6,230	297	4.6	2,391	2,008	111	37	235
30 to 34 years .....	9,132	8,612	72.4	6,328	284	4.3	2,520	2,139	77	29	276
35 to 44 years .....	15,511	11,595	74.8	11,214	381	3.3	3,915	3,214	108	137	456
35 to 39 years .....	8,237	6,032	73.2	5,812	220	3.7	2,205	1,823	48	64	271
40 to 44 years .....	7,273	5,563	76.5	5,403	161	2.9	1,710	1,391	59	74	186
45 to 54 years .....	10,846	7,549	69.6	7,341	208	2.8	3,297	2,667	30	179	422
45 to 49 years .....	5,877	4,308	73.3	4,187	121	2.8	1,569	1,254	19	77	218
50 to 54 years .....	4,969	3,241	65.2	3,153	88	2.7	1,728	1,413	10	101	204
55 to 64 years .....	9,846	4,434	45.0	4,292	142	3.2	5,412	3,818	6	243	1,345
55 to 59 years .....	4,812	2,667	55.4	2,586	82	3.1	2,145	1,597	3	125	420
60 to 64 years .....	5,034	1,767	35.1	1,706	81	3.4	3,267	2,220	3	119	925
65 years and over .....	15,266	1,257	8.2	1,227	30	2.4	14,009	7,851	4	609	5,546
65 to 69 years .....	4,831	809	16.7	786	23	2.9	4,023	2,411	1	95	1,515
70 to 74 years .....	3,961	280	7.1	274	7	2.5	3,680	2,126	1	100	1,455
75 years and over .....	6,474	168	2.6	167	-	.1	6,306	3,314	2	414	2,575

**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	June 1989										
	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 .....	21,012	13,751	65.4	12,023	1,728	12.6	7,261	2,795	694	834	2,941
16 to 19 years .....	2,175	1,168	53.7	690	478	40.9	1,008	108	458	7	435
16 to 17 years .....	1,092	465	42.6	248	218	46.8	627	33	311	3	280
18 to 19 years .....	1,083	702	64.8	442	260	37.0	381	74	147	4	155
20 to 24 years .....	2,485	1,883	75.8	1,493	390	20.7	602	275	130	30	168
25 to 54 years .....	11,777	9,453	80.3	8,664	789	8.3	2,324	1,267	105	338	615
25 to 34 years .....	5,310	4,299	81.0	3,798	501	11.7	1,010	580	65	94	271
25 to 29 years .....	2,677	2,112	78.9	1,866	245	11.6	565	302	49	49	165
30 to 34 years .....	2,633	2,188	83.1	1,932	256	11.7	445	278	16	44	106
35 to 44 years .....	3,983	3,197	82.3	3,019	178	5.6	686	385	40	83	179
35 to 39 years .....	2,194	1,772	80.8	1,654	118	6.7	423	244	34	39	105
40 to 44 years .....	1,689	1,425	84.4	1,365	61	4.3	264	141	6	44	75
45 to 54 years .....	2,584	1,957	75.7	1,848	110	5.6	627	302		161	165
45 to 49 years .....	1,376	1,073	78.0	1,005	67	6.2	303	141	1	69	93
50 to 54 years .....	1,208	884	73.2	841	43	4.9	324	160		93	71
55 to 64 years .....	2,124	991	46.7	927	65	6.5	1,132	451		170	512
55 to 59 years .....	1,103	622	56.4	587	35	5.7	481	218		68	195
60 to 64 years .....	1,020	369	36.2	340	29	7.9	651	232		102	317
65 years and over .....	2,451	256	10.4	248	8	2.9	2,195	694	1	289	1,211
65 to 69 years .....	901	137	15.2	133	5	3.6	763	268		88	407
70 years and over .....	1,551	118	7.6	116	3	2.5	1,432	426	1	201	805
<b>Men</b>											
16 years and over .....	9,436	6,678	72.9	6,059	819	11.9	2,558	113	314	443	1,690
16 to 19 years .....	1,073	638	59.5	406	232	36.4	438	3	233	5	194
16 to 17 years .....	550	273	49.6	154	119	43.6	277	-1	158	2	119
18 to 19 years .....	523	365	69.8	252	113	31.0	158	3	75	4	75
20 to 24 years .....	1,133	935	82.5	757	178	19.1	198	17	53	20	109
25 to 54 years .....	5,282	4,647	88.0	4,278	367	7.9	636	50	28	215	344
25 to 34 years .....	2,405	2,155	89.6	1,942	213	9.9	250	10	11	71	158
25 to 29 years .....	1,212	1,060	87.4	952	107	10.1	152	3	11	35	103
30 to 34 years .....	1,193	1,095	91.8	990	105	9.8	98	7	-	35	58
35 to 44 years .....	1,732	1,557	89.9	1,465	92	5.9	175	22	18	50	85
35 to 39 years .....	979	866	88.6	801	67	7.7	112	17	15	28	52
40 to 44 years .....	752	689	91.6	665	25	3.6	63	5	3	22	34
45 to 54 years .....	1,145	935	81.8	872	63	6.8	211	16	(1)	94	101
45 to 49 years .....	611	507	82.9	467	39	7.7	105	9	-	41	56
50 to 54 years .....	534	428	80.1	404	24	5.6	106	8	-	54	44
55 to 64 years .....	959	527	54.9	467	40	7.5	432	14	-	84	335
55 to 59 years .....	500	341	68.3	317	24	7.0	158	6	-	36	115
60 to 64 years .....	459	185	40.3	170	16	8.4	274	6	-	48	220
65 years and over .....	966	132	13.4	130	2	1.6	856	29	-	119	708
65 to 69 years .....	394	66	16.8	64	3	(1)	327	16	-	42	269
70 years and over .....	595	66	11.1	66	-	(1)	529	13	-	76	440
<b>Women</b>											
16 years and over .....	11,576	6,673	59.4	5,964	909	13.2	4,703	2,682	379	391	1,250
16 to 19 years .....	1,102	530	48.1	264	246	46.4	572	105	225	2	241
16 to 17 years .....	542	193	35.6	94	99	51.4	349	34	153	1	161
18 to 19 years .....	560	337	60.2	190	147	43.8	223	71	72	-	80
20 to 24 years .....	1,352	946	70.1	736	211	22.3	404	258	77	10	59
25 to 54 years .....	6,495	4,606	74.0	4,386	422	6.8	1,688	1,217	77	123	271
25 to 34 years .....	2,905	2,145	73.6	1,856	288	13.4	760	570	54	23	113
25 to 29 years .....	1,465	1,052	71.8	914	138	13.1	413	299	38	14	62
30 to 34 years .....	1,440	1,093	75.9	942	151	13.8	347	271	16	9	50
35 to 44 years .....	2,151	1,640	76.2	1,553	86	5.3	512	363	22	33	94
35 to 39 years .....	1,215	904	74.4	853	51	5.6	311	227	19	11	53
40 to 44 years .....	937	736	78.5	700	36	4.9	201	136	3	22	41
45 to 54 years .....	1,439	1,022	71.1	976	46	4.5	416	284	1	67	64
45 to 49 years .....	765	566	74.0	536	28	4.9	198	132	1	28	37
50 to 54 years .....	674	456	67.7	437	19	4.1	218	152		39	27
55 to 64 years .....	1,165	465	39.9	440	25	5.4	700	437		86	177
55 to 59 years .....	604	261	46.5	269	11	4.0	323	212		32	80
60 to 64 years .....	561	184	32.8	171	14	7.4	377	226		54	97
65 years and over .....	1,463	124	8.5	119	5	4.2	1,339	665	1	170	503
65 to 69 years .....	507	71	14.1	69	2	(1)	436	252		46	138
70 years and over .....	956	52	5.5	50	3	(1)	903	413	1	125	365

<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	June 1989								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	27,031	17,806	65.9	15,850	197	15,653	1,956	11.0	9,225
16 to 19 years .....	2,647	1,396	52.7	871	21	851	524	37.6	1,252
16 to 17 years .....	1,347	574	42.6	329	11	318	245	42.6	773
18 to 19 years .....	1,301	822	63.2	542	9	532	280	34.0	479
20 to 24 years .....	3,209	2,395	74.6	1,961	18	1,943	434	18.1	814
25 to 54 years .....	15,501	12,378	79.9	11,478	119	11,360	899	7.3	3,123
25 to 34 years .....	6,902	5,521	80.0	4,962	47	4,915	559	10.1	1,381
25 to 29 years .....	3,437	2,677	77.9	2,393	30	2,363	284	10.6	760
30 to 34 years .....	3,465	1,555	44.9	2,568	17	2,551	276	17.8	621
35 to 44 years .....	5,161	4,225	81.9	4,022	43	3,979	203	4.8	936
35 to 39 years .....	2,908	2,344	80.6	2,205	19	2,186	137	5.8	565
40 to 44 years .....	2,253	1,882	83.5	1,816	23	1,793	66	3.5	371
45 to 54 years .....	3,438	2,632	76.6	2,495	29	2,466	137	5.2	806
45 to 49 years .....	1,876	1,472	78.5	1,391	11	1,380	82	5.6	402
50 to 54 years .....	1,563	1,160	74.2	1,105	18	1,086	55	4.7	403
55 to 64 years .....	2,673	1,318	49.3	1,228	15	1,213	90	6.8	1,354
55 to 59 years .....	1,406	819	58.2	763	13	750	55	6.7	588
60 to 64 years .....	1,266	500	39.5	465	2	463	35	7.0	766
65 years and over .....	3,002	320	10.6	312	25	286	8	2.5	2,682
65 to 69 years .....	1,142	177	15.5	171	12	160	5	2.8	965
70 to 74 years .....	774	95	12.3	93	11	82	3	3.2	678
75 years and over .....	1,086	47	4.3	47	3	44	-	( <sup>1</sup> )	1,039
<b>Men</b>									
16 years and over .....	12,286	9,087	74.0	8,148	167	7,980	939	10.3	3,199
16 to 19 years .....	1,311	747	57.0	494	19	476	253	33.9	564
16 to 17 years .....	686	323	47.1	192	11	181	131	40.6	363
18 to 19 years .....	625	424	67.9	302	7	295	122	28.7	201
20 to 24 years .....	1,487	1,205	81.0	1,003	11	993	201	16.7	282
25 to 54 years .....	7,060	6,257	88.6	5,829	106	5,723	428	6.8	802
25 to 34 years .....	3,209	2,669	89.4	2,622	43	2,579	247	8.6	339
25 to 29 years .....	1,591	1,388	87.2	1,257	30	1,227	131	9.4	203
30 to 34 years .....	1,618	1,481	91.6	1,365	13	1,352	117	7.9	136
35 to 44 years .....	2,303	2,090	90.7	1,980	39	1,941	110	5.3	213
35 to 39 years .....	1,313	1,181	89.9	1,099	16	1,083	81	6.9	132
40 to 44 years .....	991	909	91.8	880	22	858	29	3.2	81
45 to 54 years .....	1,548	1,298	83.9	1,227	24	1,203	71	5.5	249
45 to 49 years .....	841	720	85.7	676	9	667	45	6.2	120
50 to 54 years .....	707	578	81.7	552	15	536	26	4.5	129
55 to 64 years .....	1,184	700	59.1	647	10	637	53	7.6	484
55 to 59 years .....	632	450	71.1	415	8	407	35	7.7	183
60 to 64 years .....	552	250	45.4	231	2	229	19	7.5	302
65 years and over .....	1,244	177	14.3	175	23	152	3	1.6	1,067
65 to 69 years .....	505	93	18.5	90	11	80	3	3.2	412
70 to 74 years .....	329	51	15.5	51	9	42	-	( <sup>1</sup> )	278
75 years and over .....	410	33	8.0	33	3	30	-	( <sup>1</sup> )	377
<b>Women</b>									
16 years and over .....	14,746	8,720	59.1	7,702	30	7,672	1,017	11.7	6,026
16 to 19 years .....	1,336	648	48.5	377	2	375	271	41.8	688
16 to 17 years .....	660	251	38.0	138	-	138	113	45.2	409
18 to 19 years .....	676	398	58.8	239	2	237	158	39.8	278
20 to 24 years .....	1,722	1,190	69.1	957	7	950	233	19.6	532
25 to 54 years .....	8,441	6,121	72.5	5,649	13	5,637	471	7.7	2,321
25 to 34 years .....	3,693	2,651	71.8	2,340	4	2,336	312	11.8	1,042
25 to 29 years .....	1,846	1,289	69.8	1,136	-	1,136	153	11.9	557
30 to 34 years .....	1,847	1,362	73.8	1,203	4	1,199	159	11.7	485
35 to 44 years .....	2,858	2,135	74.7	2,042	4	2,038	93	4.4	723
35 to 39 years .....	1,595	1,163	72.9	1,106	3	1,103	56	4.9	433
40 to 44 years .....	1,262	973	77.0	936	1	935	37	3.8	290
45 to 54 years .....	1,890	1,334	70.6	1,268	5	1,263	67	5.0	556
45 to 49 years .....	1,035	752	72.7	715	2	713	37	5.0	282
50 to 54 years .....	856	582	68.0	553	3	550	29	5.0	274
55 to 64 years .....	1,488	618	41.6	582	6	576	37	5.9	870
55 to 59 years .....	774	369	47.7	348	6	343	21	5.6	405
60 to 64 years .....	714	249	34.9	234	-	234	16	6.4	465
65 years and over .....	1,757	142	8.1	137	3	134	5	3.6	1,615
65 to 69 years .....	637	84	13.1	81	1	80	2	2.8	553
70 to 74 years .....	445	44	9.9	42	2	40	3	( <sup>1</sup> )	400
75 years and over .....	676	14	2.1	14	-	14	-	( <sup>1</sup> )	662

<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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
<b>TOTAL</b>								
Civilian noninstitutional population .....	184,562	186,329	80,526	81,592	89,502	90,526	14,534	14,211
Civilian labor force .....	123,028	125,569	63,134	64,325	50,420	51,918	9,474	9,326
Percent of population .....	66.7	67.4	78.4	78.8	56.3	57.4	65.2	65.6
Employed .....	116,209	118,719	60,350	61,688	47,972	49,392	7,887	7,639
Agriculture .....	3,546	3,494	2,416	2,439	704	684	425	371
Nonagricultural industries .....	112,663	115,226	57,934	59,249	47,268	48,708	7,461	7,268
Unemployed .....	6,819	6,850	2,784	2,636	2,448	2,526	1,588	1,687
Unemployment rate .....	5.5	5.5	4.4	4.1	4.9	4.9	16.8	18.1
Not in labor force .....	61,534	60,760	17,392	17,267	39,082	38,608	5,060	4,885
<b>White</b>								
Civilian noninstitutional population .....	158,166	159,297	69,862	70,618	76,434	77,116	11,870	11,564
Civilian labor force .....	106,015	107,762	55,085	55,985	42,742	43,847	8,188	7,931
Percent of population .....	67.0	67.6	78.8	79.3	55.9	56.9	69.0	68.6
Employed .....	101,069	102,869	53,016	54,035	41,018	42,067	7,034	6,768
Agriculture .....	3,304	3,296	2,217	2,290	681	656	406	350
Nonagricultural industries .....	97,764	99,573	50,800	51,744	40,337	41,411	6,628	6,418
Unemployed .....	4,946	4,893	2,069	1,950	1,724	1,780	1,154	1,163
Unemployment rate .....	4.7	4.5	3.8	3.5	4.0	4.1	14.1	14.7
Not in labor force .....	52,151	51,535	14,777	14,632	33,692	33,269	3,682	3,633
<b>Black</b>								
Civilian noninstitutional population .....	20,683	21,012	8,212	8,363	10,289	10,474	2,182	2,175
Civilian labor force .....	13,231	13,751	6,128	6,240	6,043	6,343	1,061	1,168
Percent of population .....	64.0	65.4	74.6	74.6	58.7	60.6	48.6	53.7
Employed .....	11,597	12,023	5,518	5,653	5,405	5,680	673	690
Agriculture .....	184	146	149	108	20	21	15	18
Nonagricultural industries .....	11,413	11,877	5,370	5,545	5,385	5,659	658	672
Unemployed .....	1,634	1,728	610	588	638	663	387	478
Unemployment rate .....	12.4	12.6	10.0	9.4	10.6	10.5	36.5	40.9
Not in labor force .....	7,452	7,261	2,084	2,122	4,246	4,131	1,122	1,008

**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	June 1989									
	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 .....	6,837	3,824	55.9	3,282	1,041	2,241	543	241	302	14.2
16 to 19 years .....	4,385	2,169	49.5	1,782	362	1,400	407	160	247	18.8
20 to 24 years .....	2,452	1,656	67.5	1,520	678	841	136	81	55	8.2
High school .....	3,381	1,522	45.0	1,188	166	1,022	334	133	202	22.0
College .....	3,456	2,302	66.6	2,094	875	1,219	208	108	100	9.0
Full-time students .....	2,457	1,448	58.9	1,308	433	875	140	74	66	9.7
Part-time students .....	1,000	854	85.4	786	442	344	68	35	34	8.0
Men, 16 to 24 years .....	3,385	1,900	56.1	1,613	575	1,038	288	125	163	15.1
16 to 19 years .....	2,219	1,111	50.1	887	232	655	224	91	133	20.2
20 to 24 years .....	1,167	789	67.6	726	343	383	63	34	29	8.0
High school .....	1,767	825	46.7	617	113	505	207	84	124	25.1
College .....	1,618	1,076	66.5	996	462	533	80	41	39	7.5
Full-time students .....	1,200	712	59.3	651	264	386	61	34	27	8.6
Part-time students .....	418	364	87.1	345	198	147	19	7	12	5.3
Women, 16 to 24 years .....	3,452	1,924	55.7	1,669	466	1,203	255	116	139	13.3
16 to 19 years .....	2,167	1,057	48.8	875	130	745	182	69	114	17.3
20 to 24 years .....	1,285	867	67.5	794	336	458	73	47	25	8.4
High school .....	1,614	697	43.2	570	53	517	127	49	78	18.2
College .....	1,838	1,226	66.7	1,098	413	686	128	67	61	10.5
Full-time students .....	1,257	736	58.6	657	168	489	79	40	39	10.7
Part-time students .....	581	490	84.3	441	244	197	49	27	22	10.0
<b>White</b>										
Total, 16 to 24 years .....	5,375	3,197	59.5	2,814	890	1,924	382	158	224	12.0
16 to 19 years .....	3,429	1,816	53.0	1,535	311	1,223	282	100	182	15.5
20 to 24 years .....	1,947	1,380	70.9	1,280	579	701	101	59	42	7.3
Men .....	2,681	1,607	59.9	1,401	495	906	206	84	122	12.8
Women .....	2,694	1,590	59.0	1,413	395	1,018	176	74	102	11.1
High school .....	2,597	1,260	48.5	1,029	134	895	231	83	148	18.4
College .....	2,779	1,937	69.7	1,786	756	1,029	151	75	76	7.8
Full-time students .....	1,941	1,222	62.9	1,118	384	734	104	54	49	8.5
Part-time students .....	838	715	85.3	668	372	296	47	21	26	6.6
<b>Black</b>										
Total, 16 to 24 years .....	1,022	434	42.4	304	109	195	130	68	62	29.9
16 to 19 years .....	730	263	36.1	161	37	124	102	48	55	38.9
20 to 24 years .....	292	171	58.3	143	72	71	28	20	7	16.1
Men .....	477	197	41.3	129	58	71	68	34	34	34.3
Women .....	545	237	43.5	175	51	124	62	34	28	26.3
High school .....	606	189	31.3	108	26	83	81	38	43	42.8
College .....	416	244	58.7	195	83	112	49	30	19	20.0
Full-time students .....	299	142	47.5	113	29	84	29	17	12	20.1
Part-time students .....	118	102	87.0	82	54	28	20	13	7	19.8
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	773	343	44.5	271	72	199	73	25	48	21.2
16 to 19 years .....	571	207	36.3	140	16	124	67	21	47	32.5
20 to 24 years .....	202	136	67.5	131	55	76	5	4	1	3.9
Men .....	377	177	46.9	132	28	103	45	17	28	25.4
Women .....	396	167	42.2	139	43	96	28	8	20	16.7
High school .....	511	165	32.4	110	12	98	55	20	35	33.2
College .....	262	178	68.1	160	59	101	18	5	13	9.9
Full-time students .....	173	94	54.2	87	15	72	7	4	3	7.4
Part-time students .....	88	84	95.4	74	44	30	11	1	10	12.8

See footnotes at end of table.

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	June 1989									
	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 .....	25,464	20,486	80.5	17,970	13,550	4,420	2,517	2,008	508	12.3
16 to 19 years .....	9,826	7,158	72.8	5,877	3,244	2,633	1,281	916	365	17.9
20 to 24 years .....	15,639	13,329	85.2	12,093	10,306	1,787	1,236	1,092	144	9.3
Less than 4 years of high school .....	8,371	5,478	65.4	4,347	2,450	1,897	1,131	815	316	20.6
4 years of high school .....	10,160	8,634	85.0	7,707	6,296	1,411	927	813	114	10.7
1 to 3 years of college .....	5,168	4,735	91.6	4,379	3,446	934	355	280	75	7.5
4 years of college or more .....	1,766	1,640	92.9	1,536	1,358	178	104	101	3	6.3
<b>Men, 16 to 24 years .....</b>	<b>12,529</b>	<b>10,910</b>	<b>87.1</b>	<b>9,648</b>	<b>7,692</b>	<b>1,956</b>	<b>1,262</b>	<b>1,070</b>	<b>192</b>	<b>11.6</b>
16 to 19 years .....	4,925	3,777	76.7	3,153	1,918	1,235	624	483	141	16.5
20 to 24 years .....	7,604	7,133	93.8	6,495	5,774	721	638	587	51	9.0
Less than 4 years of high school .....	4,381	3,302	75.4	2,700	1,733	967	602	474	128	18.2
4 years of high school .....	4,901	4,532	92.5	4,085	3,539	546	447	412	34	9.9
1 to 3 years of college .....	2,476	2,349	94.9	2,173	1,805	368	176	146	29	7.5
4 years of college or more .....	772	727	94.2	689	614	75	38	38	-	5.2
<b>Women, 16 to 24 years .....</b>	<b>12,935</b>	<b>9,576</b>	<b>74.0</b>	<b>8,322</b>	<b>5,858</b>	<b>2,464</b>	<b>1,255</b>	<b>938</b>	<b>316</b>	<b>13.1</b>
16 to 19 years .....	4,900	3,381	69.0	2,724	1,326	1,398	657	433	224	19.4
20 to 24 years .....	8,035	6,196	77.1	5,598	4,532	1,066	598	505	92	9.6
Less than 4 years of high school .....	3,990	2,175	54.5	1,647	716	930	529	341	188	24.3
4 years of high school .....	5,260	4,102	78.0	3,622	2,757	865	480	400	80	11.7
1 to 3 years of college .....	2,692	2,386	88.6	2,206	1,641	566	180	134	46	7.5
4 years of college or more .....	994	913	91.9	847	744	103	66	63	3	7.2
<b>White</b>										
Total, 16 to 24 years .....	21,069	17,323	82.2	15,605	11,881	3,724	1,718	1,356	363	9.9
16 to 19 years .....	8,135	6,114	75.2	5,233	2,935	2,298	881	615	266	14.4
20 to 24 years .....	12,934	11,209	86.7	10,372	8,946	1,426	837	740	97	7.5
Men .....	10,436	9,252	88.7	8,362	6,771	1,591	890	740	149	9.6
Women .....	10,634	6,072	75.9	7,243	5,110	2,133	829	616	213	10.3
Less than 4 years of high school .....	6,817	4,628	67.9	3,842	2,190	1,652	785	554	231	17.0
4 years of high school .....	8,394	7,272	86.6	6,680	5,531	1,150	592	520	71	8.1
1 to 3 years of college .....	4,308	3,978	92.3	3,731	2,964	766	247	190	57	6.2
4 years of college or more .....	1,549	1,446	93.4	1,352	1,196	155	94	91	3	6.5
<b>Black</b>										
Total, 16 to 24 years .....	3,639	2,617	71.9	1,879	1,297	583	738	603	135	28.2
16 to 19 years .....	1,446	904	62.6	529	255	274	376	284	92	41.5
20 to 24 years .....	2,193	1,713	78.1	1,350	1,042	309	362	319	44	21.2
Men .....	1,729	1,376	79.6	1,034	711	322	343	301	41	24.9
Women .....	1,909	1,241	65.0	846	585	260	395	301	94	31.8
Less than 4 years of high school .....	1,335	718	53.8	393	182	211	325	247	78	45.3
4 years of high school .....	1,517	1,185	78.1	873	654	219	312	273	39	26.3
1 to 3 years of college .....	659	593	90.0	501	366	136	92	74	18	15.5
4 years of college or more .....	127	121	95.2	112	95	17	9	9	-	7.5
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,577	1,922	74.6	1,655	1,396	257	267	226	40	13.9
16 to 19 years .....	817	523	64.0	400	275	126	123	108	15	23.5
20 to 24 years .....	1,760	1,399	79.5	1,255	1,123	132	144	119	25	10.3
Men .....	1,343	1,175	87.5	1,044	903	141	131	117	14	11.1
Women .....	1,235	747	60.5	611	494	117	136	110	26	18.2
Less than 4 years of high school .....	1,319	863	65.4	705	578	127	158	133	25	18.3
4 years of high school .....	922	756	81.9	658	573	85	98	83	15	12.9
1 to 3 years of college .....	268	243	90.7	237	196	41	6	6	-	2.5
4 years of college or more .....	67	60	( <sup>2</sup> )	55	51	4	5	5	-	( <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							
	June 1988	June 1989	Total		Employed		Unemployed			
			June 1988	June 1989	June 1988	June 1989	Number		Percent of labor force	
							June 1988	June 1989	June 1988	June 1989
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,902	7,928	7,249	7,299	7,011	7,053	238	246	3.3	3.4
30 to 44 years .....	5,942	5,530	5,665	5,303	5,467	5,121	198	182	3.5	3.4
30 to 34 years .....	701	489	668	471	613	425	55	46	8.2	9.8
35 to 39 years .....	2,178	1,760	2,058	1,667	1,994	1,600	64	67	3.1	4.0
40 to 44 years .....	3,063	3,281	2,939	3,165	2,860	3,096	79	69	2.7	2.2
45 years and over .....	1,960	2,398	1,584	1,996	1,544	1,932	40	64	2.5	3.2
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	20,367	21,418	19,190	20,290	18,469	19,594	721	696	3.8	3.4
30 to 34 years .....	9,079	9,357	8,596	8,964	8,232	8,607	364	357	4.2	4.0
35 to 39 years .....	6,799	7,404	6,434	6,986	6,202	6,786	232	200	3.6	2.9
40 to 44 years .....	4,489	4,657	4,160	4,340	4,035	4,201	125	139	3.0	3.2

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 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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

(In thousands)

Sex, age, and race	June 1989							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	99,539	97,801	1,738	19,180	15,505	3,675	5,578	1,271
16 to 19 years .....	3,606	3,386	220	4,032	3,056	976	1,076	612
16 to 17 years .....	804	749	55	2,121	1,677	444	442	390
18 to 19 years .....	2,802	2,637	165	1,911	1,379	532	633	221
20 years and over .....	95,933	94,415	1,518	15,147	12,449	2,698	4,503	660
20 to 24 years .....	10,984	10,712	272	2,628	1,929	699	1,174	198
25 years and over .....	84,949	83,703	1,246	12,519	10,520	1,999	3,328	461
25 to 54 years .....	73,703	72,633	1,070	8,879	7,233	1,646	2,976	348
55 years and over .....	11,246	11,070	176	3,640	3,287	353	352	113
Men, 16 years and over .....	59,606	58,651	955	6,123	4,550	1,573	3,000	484
16 to 19 years .....	2,150	2,024	126	1,891	1,386	505	574	274
20 years and over .....	57,456	56,627	829	4,232	3,164	1,068	2,426	210
20 to 24 years .....	6,116	5,949	167	1,103	743	360	621	81
25 years and over .....	51,340	50,678	662	3,129	2,421	708	1,805	130
25 to 54 years .....	44,208	43,645	563	1,612	1,054	558	1,613	70
55 years and over .....	7,132	7,033	99	1,517	1,367	150	192	60
Women, 16 years and over .....	39,933	39,150	783	13,057	10,955	2,102	2,578	787
16 to 19 years .....	1,456	1,362	94	2,142	1,670	472	502	338
20 years and over .....	38,477	37,788	689	10,915	9,285	1,630	2,077	449
20 to 24 years .....	4,868	4,763	105	1,524	1,185	339	553	118
25 years and over .....	33,608	33,024	584	9,391	8,099	1,292	1,524	332
25 to 54 years .....	29,495	28,988	507	7,266	6,179	1,087	1,364	278
55 years and over .....	4,114	4,036	78	2,125	1,921	204	160	53
<b>White</b>								
Men, 16 years and over .....	52,417	51,649	768	5,164	3,984	1,180	2,166	379
16 to 19 years .....	1,916	1,827	89	1,631	1,228	403	378	217
20 years and over .....	50,501	49,822	679	3,534	2,756	778	1,788	162
20 to 24 years .....	5,351	5,231	120	866	620	246	446	55
25 years and over .....	45,151	44,591	560	2,668	2,135	533	1,342	107
25 to 54 years .....	38,724	38,252	472	1,266	858	408	1,195	59
55 years and over .....	6,427	6,339	88	1,402	1,277	125	147	48
Women, 16 years and over .....	33,684	33,034	650	11,604	9,890	1,714	1,757	591
16 to 19 years .....	1,331	1,246	85	1,891	1,464	427	337	231
20 years and over .....	32,352	31,788	564	9,714	8,427	1,287	1,421	360
20 to 24 years .....	4,174	4,087	87	1,261	999	262	353	84
25 years and over .....	28,179	27,701	478	8,454	7,429	1,025	1,067	276
25 to 54 years .....	24,577	24,160	417	6,536	5,684	852	938	232
55 years and over .....	3,601	3,541	60	1,918	1,745	173	129	43
<b>Black</b>								
Men, 16 years and over .....	5,339	5,178	161	720	383	337	725	95
16 to 19 years .....	195	158	37	212	124	88	179	53
20 years and over .....	5,144	5,020	124	508	259	249	546	42
20 to 24 years .....	575	532	43	183	79	104	156	22
25 years and over .....	4,569	4,489	80	327	181	146	390	20
25 to 54 years .....	4,041	3,969	72	240	116	124	360	8
55 years and over .....	529	520	9	87	65	22	30	12
Women, 16 years and over .....	4,853	4,743	110	1,112	780	332	734	174
16 to 19 years .....	97	92	5	187	151	36	153	93
20 years and over .....	4,755	4,650	105	925	630	295	582	81
20 to 24 years .....	539	523	16	197	127	70	182	29
25 years and over .....	4,217	4,127	90	728	502	226	400	53
25 to 54 years .....	3,833	3,753	80	552	356	196	379	43
55 years and over .....	384	374	10	176	146	30	21	10

<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	June 1989									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	101,672	68.1	95,998	5,674	5.6	47,528	22,049	3,357	2,496	19,626
Husbands .....	40,444	78.7	39,443	1,001	2.5	10,918	163	136	935	9,684
With employed wife .....	26,122	92.3	25,581	541	2.1	2,170	55	72	323	1,721
With unemployed wife .....	886	90.3	800	86	9.7	95	5	2	16	73
With wife not in labor force .....	13,435	60.8	13,061	374	2.8	8,653	103	63	596	7,891
Wives .....	29,274	57.0	28,292	982	3.4	22,088	17,316	212	416	4,144
With employed husband .....	26,382	66.9	25,581	800	3.0	13,061	11,441	171	144	1,306
With unemployed husband .....	627	62.6	541	86	13.7	374	322	6	2	45
With husband not in labor force .....	2,266	20.8	2,170	95	4.2	8,653	5,553	35	271	2,793
Relatives in married-couple families .....	15,028	72.2	13,212	1,816	12.1	5,772	764	1,949	365	2,694
16 to 19 years .....	6,191	67.0	5,219	972	15.7	3,047	145	1,432	22	1,448
20 to 24 years .....	5,276	85.2	4,737	539	10.2	914	96	433	27	358
25 years and over .....	3,561	66.3	3,256	305	8.6	1,811	523	84	316	888
Women who maintain families .....	6,771	62.8	6,220	551	8.1	4,005	2,683	129	252	941
Relatives in families maintained by women .....	6,015	65.8	4,965	1,051	17.5	3,133	713	739	385	1,297
16 to 19 years .....	1,803	60.5	1,292	510	28.3	1,178	110	548	13	507
20 to 24 years .....	1,645	79.5	1,408	237	14.4	423	166	133	16	109
25 years and over .....	2,569	62.6	2,265	304	11.8	1,532	437	58	356	681
Men who maintain families .....	2,182	76.8	2,083	99	4.5	660	50	23	85	502
Relatives in families maintained by men .....	1,959	67.3	1,783	176	9.0	952	360	169	58	365
16 to 19 years .....	365	60.9	320	45	12.4	234	34	127	3	71
20 to 24 years .....	520	87.8	474	46	8.8	72	30	15	3	23
25 years and over .....	1,074	62.4	989	85	7.9	646	296	27	52	271

<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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
Total, 16 years and over .....	3,628	3,484	5.3	5.0	3,191	3,365	5.8	6.0
Married, spouse present .....	1,234	1,115	2.9	2.6	1,059	1,072	3.6	3.5
Widowed, divorced, or separated .....	416	410	6.1	5.9	655	693	6.3	6.4
Single (never married) .....	1,978	1,960	10.2	9.9	1,477	1,601	9.8	10.5
White, 16 years and over .....	2,674	2,545	4.5	4.2	2,272	2,348	4.9	4.9
Married, spouse present .....	1,034	889	2.8	2.4	867	876	3.3	3.3
Widowed, divorced, or separated .....	280	293	5.0	5.0	460	503	5.5	5.7
Single (never married) .....	1,360	1,363	8.4	8.3	945	969	7.7	8.0
Black, 16 years and over .....	812	819	12.1	11.9	822	909	12.6	13.2
Married, spouse present .....	156	175	5.0	5.5	156	153	6.5	6.3
Widowed, divorced, or separated .....	128	106	12.9	10.8	175	175	10.1	9.3
Single (never married) .....	528	539	20.5	20.0	491	581	20.5	22.5
Total, 25 years and over .....	2,130	1,934	3.9	3.4	1,776	1,856	4.1	4.1
Married, spouse present .....	1,159	1,003	2.9	2.5	891	897	3.3	3.2
Widowed, divorced, or separated .....	402	388	6.1	5.7	594	628	6.0	6.0
Single (never married) .....	568	543	6.7	6.0	291	331	4.8	5.3
White, 25 years and over .....	1,638	1,450	3.4	2.9	1,267	1,343	3.5	3.5
Married, spouse present .....	969	807	2.7	2.2	739	732	3.1	2.9
Widowed, divorced, or separated .....	268	270	4.9	4.8	404	454	5.1	5.4
Single (never married) .....	402	372	5.8	5.1	124	156	2.7	3.3
Black, 25 years and over .....	408	409	7.8	7.7	448	451	8.6	8.4
Married, spouse present .....	147	154	4.9	5.0	122	126	5.6	5.6
Widowed, divorced, or separated .....	126	106	12.9	11.0	171	162	10.1	8.9
Single (never married) .....	135	149	10.9	11.7	154	163	11.8	12.3

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
Total, 16 years and over .....	6,819	6,850	5.5	5.5	5.3	5.0	5.8	6.0
Managerial and professional specialty .....	601	620	2.0	2.0	2.1	1.5	1.9	2.6
Executive, administrative, and managerial .....	309	313	2.1	2.1	2.3	1.5	1.8	2.9
Professional specialty .....	292	307	2.0	2.0	1.9	1.5	2.0	2.5
Technical, sales, and administrative support .....	1,478	1,443	4.0	3.8	3.2	2.6	4.5	4.4
Technicians and related support .....	93	95	2.7	2.5	2.2	1.7	3.2	3.3
Sales occupations .....	664	610	4.6	4.1	3.3	2.3	5.8	5.9
Administrative support, including clerical .....	721	737	3.8	3.8	3.5	3.6	3.9	3.9
Service occupations .....	1,162	1,162	7.0	6.9	6.5	6.8	7.3	7.0
Private household .....	59	58	5.9	5.8	( <sup>1</sup> )	3.9	5.9	5.9
Protective service .....	70	59	3.4	2.9	2.5	2.4	8.4	5.9
Service, except private household and protective .....	1,034	1,046	7.6	7.6	8.0	8.2	7.5	7.1
Precision production, craft, and repair .....	711	735	4.8	4.9	4.8	4.8	4.8	5.8
Mechanics and repairers .....	150	162	3.2	3.4	3.2	3.4	3.0	5.4
Construction trades .....	361	391	6.3	6.7	6.3	6.7	6.0	6.3
Other precision production, craft, and repair .....	200	183	4.7	4.2	4.6	3.7	4.9	5.9
Operators, fabricators, and laborers .....	1,409	1,505	7.2	7.6	7.2	7.1	7.1	9.2
Machine operators, assemblers, and inspectors .....	592	647	6.6	7.3	6.0	5.9	7.5	9.2
Transportation and material moving occupations .....	282	266	5.4	5.2	5.7	5.1	2.6	6.5
Handlers, equipment cleaners, helpers, and laborers .....	535	592	9.7	10.4	10.1	10.3	7.8	10.4
Construction laborers .....	165	113	15.8	11.3	16.2	11.3	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	370	478	8.3	10.1	8.4	10.1	7.6	10.3
Farming, forestry, and fishing .....	212	209	5.0	5.1	4.7	4.8	6.6	6.7
No previous work experience .....	1,212	1,143	-	-	-	-	-	-
16 to 19 years .....	875	827	-	-	-	-	-	-
20 to 24 years .....	219	197	-	-	-	-	-	-
25 years and over .....	118	120	-	-	-	-	-	-

<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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
Total, 16 years and over .....	6,819	6,850	5.5	5.5	5.3	5.0	5.8	6.0
Nonagricultural private wage and salary workers .....	4,822	4,863	5.2	5.2	5.2	4.8	5.3	5.6
Mining .....	59	30	7.3	4.0	8.5	3.7	1.8	5.4
Construction .....	564	556	8.5	8.2	8.7	8.4	6.2	6.7
Manufacturing .....	1,016	1,076	4.6	4.8	4.1	3.8	5.6	6.8
Durable goods .....	568	578	4.4	4.4	4.0	3.6	5.3	6.5
Lumber and wood products .....	74	40	9.8	5.1	9.8	5.6	9.8	2.5
Furniture and fixtures .....	24	40	3.2	5.9	1.0	5.1	8.5	8.0
Stone, clay, and glass products .....	14	24	2.3	3.4	1.9	2.4	3.7	7.7
Primary metal industries .....	35	20	4.2	2.3	4.4	2.2	2.9	2.5
Fabricated metal products .....	78	83	6.0	6.3	6.1	4.6	5.8	11.5
Machinery, except electrical .....	108	87	4.1	3.3	3.5	2.6	5.8	5.2
Electrical machinery, equipment, and supplies .....	89	114	4.2	5.2	3.4	3.9	5.3	6.8
Transportation equipment .....	106	127	3.9	4.5	3.6	3.8	5.4	7.1
Automobiles .....	55	76	4.5	6.0	3.4	5.0	9.2	10.0
Other transportation equipment .....	51	51	3.5	3.3	3.7	2.9	2.4	4.9
Professional and photographic equipment .....	24	17	3.2	2.7	3.5	2.2	2.9	3.3
Other durable goods industries .....	15	26	2.9	4.7	2.8	3.1	3.1	6.1
Nondurable goods .....	448	498	4.9	5.3	4.1	4.1	5.9	7.1
Food and kindred products .....	142	137	7.8	6.9	7.3	5.5	8.8	9.8
Textile mill products .....	32	36	4.0	4.9	5.2	3.5	2.6	6.6
Apparel and other textile products .....	78	109	6.0	8.7	6.4	10.5	5.8	8.1
Paper and allied products .....	21	25	2.5	3.0	1.1	1.9	7.9	6.0
Printing and publishing .....	72	85	3.7	4.4	1.8	3.2	6.1	5.9
Chemicals and allied products .....	29	33	2.3	2.3	2.3	1.4	2.4	4.1
Rubber and miscellaneous plastics products .....	47	46	5.2	5.9	4.8	6.1	5.9	5.7
Other nondurable goods industries .....	29	29	7.4	7.0	6.3	4.3	9.4	12.8
Transportation and public utilities .....	265	287	4.0	4.4	3.7	4.0	4.9	5.1
Transportation .....	189	211	5.0	5.4	4.5	5.2	6.5	6.1
Communications and other public utilities .....	77	75	2.8	2.8	2.4	2.1	3.4	4.1
Wholesale and retail trade .....	1,410	1,471	6.1	6.1	5.6	5.1	6.6	7.2
Wholesale trade .....	195	167	4.5	3.7	4.0	3.3	5.6	4.7
Retail trade .....	1,215	1,304	6.4	6.7	6.1	5.7	6.7	7.6
Finance, insurance, and real estate .....	193	201	2.6	2.7	2.8	2.7	2.5	2.7
Service industries .....	1,314	1,241	5.3	4.7	5.5	4.8	5.1	4.7
Professional services .....	533	436	3.9	3.1	4.1	2.5	3.8	3.3
Other service industries .....	781	805	6.9	6.6	6.6	6.4	7.1	6.9
Agricultural wage and salary workers .....	133	143	6.7	7.3	6.6	6.4	7.0	10.7
Government, self-employed, and unpaid family workers .....	652	701	2.3	2.5	2.2	2.4	2.4	2.6
No previous work experience .....	1,212	1,143	-	-	-	-	-	-

**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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,819	6,850	2,784	2,636	2,448	2,526	1,588	1,687	4,946	4,893	1,634	1,728
Job losers .....	2,848	2,563	1,755	1,523	897	900	196	139	2,132	1,920	636	574
On layoff .....	726	679	417	405	252	253	57	21	592	577	117	85
Other job losers .....	2,122	1,884	1,338	1,118	645	647	139	118	1,540	1,343	519	489
Job leavers .....	884	947	368	360	377	420	139	167	679	714	182	188
Reentrants .....	1,876	2,197	543	626	955	1,016	378	554	1,321	1,540	473	586
New entrants .....	1,210	1,143	117	127	218	190	875	827	813	719	344	380
<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 .....	41.7	37.4	63.1	57.8	36.7	35.6	12.3	8.2	43.1	39.2	38.9	33.2
On layoff .....	10.6	9.9	15.0	15.4	10.3	10.0	3.6	1.2	12.0	11.8	7.1	4.9
Other job losers .....	31.1	27.5	48.1	42.4	26.4	25.6	8.7	7.0	31.1	27.4	31.8	28.3
Job leavers .....	13.0	13.8	13.2	13.6	15.4	16.6	8.8	9.9	13.7	14.6	11.1	10.9
Reentrants .....	27.5	32.1	19.5	23.8	39.0	40.2	23.8	32.8	26.7	31.5	28.9	33.9
New entrants .....	17.8	16.7	4.2	4.8	8.9	7.5	55.1	49.0	16.4	14.7	21.0	22.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.3	2.0	2.8	2.3	1.8	1.7	2.1	1.5	2.1	1.7	4.8	4.2
Job leavers .....	.7	.8	.6	.6	.7	.8	1.5	1.8	.6	.7	1.4	1.4
Reentrants .....	1.5	1.7	.9	1.0	1.9	2.0	4.0	5.9	1.2	1.4	3.6	4.3
New entrants .....	1.0	.9	.2	.2	.4	.4	9.2	8.9	.8	.7	2.6	2.8

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

(Percent distribution)

Reason, sex, and age	June 1989						
	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 .....	6,850	100.0	57.0	24.8	18.2	9.4	8.7
Job losers .....	2,563	100.0	43.3	29.4	27.3	14.5	12.8
On layoff .....	679	100.0	58.5	25.2	16.3	9.9	6.4
Other job losers .....	1,884	100.0	37.8	30.9	31.3	16.2	15.1
Job leavers .....	947	100.0	55.5	29.9	14.6	8.1	6.4
Reentrants .....	2,197	100.0	64.3	21.5	14.2	7.0	7.2
New entrants .....	1,143	100.0	75.0	16.9	8.2	3.6	4.5
Men, 20 years and over .....	2,636	100.0	45.4	27.0	27.6	13.4	14.2
Job losers .....	1,523	100.0	39.5	29.2	31.4	15.2	16.2
On layoff .....	405	100.0	52.3	26.3	21.4	12.8	8.6
Other job losers .....	1,118	100.0	34.9	30.2	35.0	16.1	18.9
Job leavers .....	360	100.0	48.8	29.1	22.1	12.3	9.8
Reentrants .....	626	100.0	56.4	21.4	22.2	10.3	11.9
New entrants .....	127	100.0	52.9	23.4	23.6	9.2	14.5
Women, 20 years and over .....	2,526	100.0	54.3	28.7	17.0	9.6	7.4
Job losers .....	900	100.0	45.2	32.1	22.6	13.9	8.7
On layoff .....	253	100.0	67.1	24.8	8.1	5.6	2.5
Other job losers .....	647	100.0	36.7	35.0	28.3	17.2	11.2
Job leavers .....	420	100.0	55.4	32.3	12.3	7.2	5.1
Reentrants .....	1,016	100.0	59.3	25.9	14.7	7.7	7.1
New entrants .....	190	100.0	67.6	19.3	13.1	4.4	8.7
Both sexes, 16 to 19 years .....	1,687	100.0	79.2	15.6	5.1	3.0	2.2
Job losers .....	139	100.0	72.0	14.6	13.4	11.0	2.3
On layoff .....	21	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	118	100.0	71.3	15.9	12.9	11.7	1.2
Job leavers .....	167	100.0	70.4	25.7	3.9	1.5	2.4
Reentrants .....	554	100.0	82.5	13.3	4.2	1.9	2.3
New entrants .....	827	100.0	80.1	15.3	4.6	2.6	2.0

<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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
Total, 16 years and over .....	6,819	6,850	100.0	100.0	5,613	5,578	100.0	100.0
Less than 5 weeks .....	3,661	3,905	53.7	57.0	2,747	2,924	48.9	52.4
5 to 14 weeks .....	1,631	1,701	23.9	24.8	1,436	1,479	25.6	26.5
5 to 10 weeks .....	1,213	1,281	17.8	18.7	1,058	1,093	18.8	19.6
11 to 14 weeks .....	417	420	6.1	6.1	378	386	6.7	6.9
15 weeks and over .....	1,527	1,243	22.4	18.2	1,429	1,176	25.5	21.1
15 to 26 weeks .....	732	644	10.7	9.4	670	610	11.9	10.9
27 weeks and over .....	795	599	11.7	8.7	759	566	13.5	10.1
27 to 51 weeks .....	313	232	4.6	3.4	301	223	5.4	4.0
52 weeks and over .....	483	367	7.1	5.4	458	343	8.2	6.1
Average (mean) duration, in weeks .....	12.5	10.5			13.8	11.7		
Median duration, in weeks .....	4.7	4.4			5.3	4.8		

**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	
	June 1989							June 1988	June 1989	June 1988	June 1989
Total, 16 years and over .....	6,850	3,905	1,701	644	599	10.5	4.4	53.7	57.0	22.4	18.2
16 to 19 years .....	1,687	1,337	264	50	37	4.8	3.2	75.6	79.2	5.9	5.1
20 to 24 years .....	1,372	879	318	108	68	7.6	3.9	58.9	64.1	16.3	12.8
25 to 34 years .....	1,805	911	514	194	186	11.8	5.0	46.7	50.5	26.3	21.0
35 to 44 years .....	971	402	300	138	131	14.2	6.9	40.8	41.4	35.2	27.7
45 to 54 years .....	549	206	171	75	96	17.6	8.2	34.3	37.6	38.7	31.2
55 to 64 years .....	382	139	102	73	68	19.5	10.3	40.6	36.2	38.6	37.0
65 years and over .....	83	30	33	6	14	15.9	7.3	53.3	36.3	14.8	24.2
Men, 16 years and over .....	3,484	1,844	865	375	400	12.4	4.7	48.8	52.9	27.5	22.2
16 to 19 years .....	848	647	152	23	26	5.3	3.3	75.8	76.3	5.5	5.7
20 to 24 years .....	702	445	154	66	37	7.8	3.9	50.0	63.4	21.3	14.7
25 to 34 years .....	912	420	267	109	117	14.0	5.9	42.7	46.0	34.6	24.7
35 to 44 years .....	496	176	145	77	99	17.9	9.1	33.8	35.4	40.5	35.5
45 to 54 years .....	274	74	76	53	70	23.9	12.2	27.3	27.0	47.9	45.2
55 to 64 years .....	204	63	56	45	40	20.5	12.0	35.7	30.8	41.2	41.9
65 years and over .....	48	19	16	1	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,365	2,061	836	269	199	8.5	4.1	59.3	61.2	16.6	13.9
16 to 19 years .....	839	690	111	27	11	4.3	3.0	75.4	82.2	6.4	4.5
20 to 24 years .....	670	434	164	41	31	7.3	3.9	67.5	64.8	11.4	10.8
25 to 34 years .....	893	491	248	85	69	9.5	4.5	51.5	55.0	16.6	17.3
35 to 44 years .....	474	226	155	61	32	10.4	5.4	48.3	47.7	29.5	19.6
45 to 54 years .....	275	133	95	21	26	11.3	5.3	43.2	48.3	27.0	17.2
55 to 64 years .....	179	76	47	28	28	18.4	7.0	49.0	42.4	34.3	31.4
65 years and over .....	35	11	17	5	3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,893	2,789	1,229	486	389	10.2	4.4	55.4	57.0	21.4	17.9
Men .....	2,545	1,329	644	293	279	12.4	4.8	49.5	52.2	27.1	22.5
Women .....	2,348	1,460	585	193	110	7.9	4.0	62.4	62.2	14.7	12.9
Black, 16 years and over .....	1,728	995	404	135	194	11.5	4.3	48.3	57.6	25.4	19.0
Men .....	819	459	185	65	111	12.7	4.5	45.8	56.0	30.3	21.5
Women .....	909	536	220	71	82	10.4	4.2	50.8	59.0	20.5	16.8
Men, 16 years and over:											
Married, spouse present .....	1,115	489	278	180	168	16.2	7.0	36.6	43.9	38.8	31.2
Widowed, divorced, or separated .....	410	135	134	53	88	18.0	9.2	38.0	32.9	38.2	34.5
Single (never married) .....	1,960	1,220	453	142	145	9.1	4.0	58.7	62.2	18.2	14.6
Women, 16 years and over:											
Married, spouse present .....	1,072	598	278	124	71	9.5	4.5	55.4	55.9	18.5	18.2
Widowed, divorced, or separated .....	693	325	247	66	55	10.9	5.5	50.0	46.9	23.3	17.5
Single (never married) .....	1,601	1,138	312	79	74	6.9	3.5	66.2	71.0	12.2	9.5

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
	June 1989							June 1988	June 1989	June 1988	June 1989
<b>OCCUPATION</b>											
Managerial and professional specialty .....	620	313	197	66	45	10.5	5.0	52.2	50.4	25.5	17.9
Technical, sales, and administrative support .....	1,443	818	374	170	81	8.8	4.4	51.1	56.7	22.3	17.4
Service occupations .....	1,162	702	259	91	110	10.3	4.1	55.8	60.4	20.1	17.3
Precision production, craft, and repair .....	735	319	215	111	91	14.5	6.4	45.4	43.4	26.2	27.4
Operators, fabricators, and laborers .....	1,505	749	408	154	194	13.5	5.1	41.8	49.8	32.2	23.1
Farming, forestry, and fishing .....	209	131	43	9	25	10.3	4.0	60.7	62.7	20.6	16.6
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	143	95	28	4	16	9.6	3.8	54.4	66.5	21.7	14.1
Construction .....	565	242	158	89	76	14.0	6.6	52.4	42.8	23.2	29.2
Manufacturing .....	1,078	466	345	138	130	13.3	6.3	39.2	43.2	36.3	24.9
Durable goods .....	580	237	184	80	79	15.0	6.8	35.7	40.8	38.7	27.5
Nondurable goods .....	498	229	161	58	50	11.3	5.8	43.7	46.0	33.2	21.8
Transportation and public utilities .....	326	144	87	48	47	14.7	6.7	41.1	44.2	29.8	29.0
Wholesale and retail trade .....	1,476	910	318	136	113	9.7	4.1	52.6	61.6	20.9	16.8
Finance and service industries .....	1,731	990	464	140	135	10.2	4.6	53.3	57.2	21.6	15.9
Public administration .....	202	101	62	22	18	9.8	5.0	49.6	49.8	29.4	19.5
No previous work experience .....	1,143	857	193	41	52	6.7	3.3	73.7	75.0	9.5	8.2

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, and race	June 1989								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	6,850	5,991	19.3	7.2	71.0	37.8	19.5	5.6	1.60
16 to 19 years .....	1,687	1,627	12.0	3.1	76.3	26.8	17.1	5.0	1.40
20 to 24 years .....	1,372	1,232	19.8	7.1	72.6	38.6	17.5	4.4	1.60
25 to 34 years .....	1,805	1,517	22.3	7.7	71.1	42.8	20.5	4.8	1.69
35 to 44 years .....	971	825	26.1	8.8	65.2	47.2	25.9	6.9	1.80
45 to 54 years .....	549	427	24.8	12.4	65.6	40.7	16.9	8.7	1.69
55 to 64 years .....	382	295	15.6	13.2	60.7	42.0	19.7	10.2	1.61
65 years and over .....	83	67	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men, 16 years and over .....	3,484	2,984	20.1	6.7	70.9	37.0	22.4	7.0	1.64
16 to 19 years .....	848	821	14.0	3.4	73.6	26.8	18.6	6.5	1.43
20 to 24 years .....	702	618	20.4	6.1	72.5	38.5	21.2	4.7	1.63
25 to 34 years .....	912	718	22.7	7.4	70.8	44.0	23.1	6.1	1.74
35 to 44 years .....	496	413	26.4	8.2	71.9	42.9	32.2	6.8	1.88
45 to 54 years .....	274	212	26.4	11.3	65.1	37.3	24.1	13.7	1.78
55 to 64 years .....	204	162	15.4	9.3	58.0	42.6	17.3	16.0	1.59
65 years and over .....	48	39	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,365	3,007	18.6	7.7	71.1	38.5	16.6	4.2	1.57
16 to 19 years .....	839	806	10.2	2.6	79.2	26.8	15.8	3.6	1.38
20 to 24 years .....	670	614	19.2	8.1	72.8	38.6	14.0	4.1	1.57
25 to 34 years .....	893	799	22.0	8.0	71.3	41.7	18.1	3.6	1.65
35 to 44 years .....	474	411	25.8	9.5	58.4	51.6	19.5	7.1	1.72
45 to 54 years .....	275	215	23.7	13.5	66.0	44.7	10.2	4.2	1.62
55 to 64 years .....	179	133	15.8	18.8	63.9	41.4	22.6	3.0	1.65
65 years and over .....	35	28	( <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 .....	4,893	4,166	18.7	7.1	71.6	40.0	19.6	6.1	1.63
Men .....	2,545	2,114	19.8	6.2	72.2	38.8	22.3	7.1	1.66
Women .....	2,348	2,051	17.5	8.0	71.0	41.4	16.7	5.0	1.60
Black, 16 years and over .....	1,728	1,624	20.0	7.5	71.2	31.1	19.1	4.2	1.53
Men .....	819	767	19.8	7.6	70.9	30.8	22.6	6.0	1.58
Women .....	909	858	20.0	7.3	71.6	31.4	16.0	2.7	1.49

<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	June 1989								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over .....	6,850	5,991	19.3	7.2	71.0	37.8	19.5	5.6	1.60
Job losers <sup>1</sup> .....	2,563	1,880	23.4	8.4	72.0	42.5	23.4	5.5	1.75
Job leavers .....	947	938	22.2	7.6	68.7	46.3	16.1	4.4	1.65
Reentrants .....	2,197	2,058	18.3	8.0	69.0	35.8	18.2	7.2	1.57
New entrants .....	1,143	1,115	12.0	3.3	74.8	26.3	18.2	3.6	1.38
Men, 16 years and over .....	3,484	2,984	20.1	6.7	70.9	37.0	22.4	7.0	1.64
Job losers <sup>1</sup> .....	1,598	1,186	23.1	7.8	74.1	41.3	25.2	6.7	1.78
Job leavers .....	447	438	20.5	5.0	68.7	47.9	20.3	4.1	1.67
Reentrants .....	905	836	18.4	8.6	66.4	33.1	21.8	10.0	1.58
New entrants .....	534	524	15.8	2.5	72.3	24.0	18.5	5.0	1.38
Women, 16 years and over .....	3,365	3,007	18.6	7.7	71.1	38.5	16.6	4.2	1.57
Job losers <sup>1</sup> .....	965	695	22.4	9.4	68.2	44.5	20.1	3.3	1.68
Job leavers .....	500	500	23.8	10.0	68.6	44.6	12.4	4.6	1.64
Reentrants .....	1,292	1,221	18.2	7.6	70.9	37.4	15.8	5.3	1.55
New entrants .....	609	591	8.8	4.2	77.0	28.3	17.9	2.4	1.39

<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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
All industries .....	116,209	118,719	64,473	65,729	51,736	52,990
16 to 19 years .....	7,887	7,639	4,122	4,040	3,764	3,599
16 to 17 years .....	3,192	2,925	1,688	1,570	1,504	1,355
18 to 19 years .....	4,695	4,714	2,435	2,471	2,260	2,243
20 to 24 years .....	13,772	13,612	7,288	7,220	6,484	6,392
25 to 54 years .....	79,974	82,581	44,475	45,819	35,498	36,762
25 to 34 years .....	33,499	34,012	18,686	19,115	14,813	14,898
35 to 44 years .....	28,075	29,310	15,505	16,054	12,570	13,256
45 to 54 years .....	18,400	19,260	10,284	10,651	8,116	8,608
55 to 64 years .....	11,323	11,509	6,580	6,635	4,743	4,874
55 to 59 years .....	6,844	6,855	3,965	3,921	2,879	2,934
60 to 64 years .....	4,479	4,654	2,615	2,715	1,864	1,940
65 years and over .....	3,253	3,378	2,007	2,014	1,247	1,364
Agriculture .....	3,546	3,494	2,760	2,756	785	738
16 to 19 years .....	425	371	345	316	81	54
16 to 17 years .....	212	201	169	178	43	23
18 to 19 years .....	214	170	175	138	38	32
20 to 24 years .....	442	417	350	349	91	68
25 to 54 years .....	1,856	1,943	1,411	1,472	445	473
25 to 34 years .....	834	786	654	631	181	156
35 to 44 years .....	580	682	427	474	153	208
45 to 54 years .....	442	476	330	367	112	109
55 to 64 years .....	472	445	359	351	113	95
55 to 59 years .....	250	225	186	175	64	49
60 to 64 years .....	222	221	173	176	49	45
65 years and over .....	350	317	295	268	55	49
Nonagricultural industries .....	112,663	115,226	61,712	62,973	50,951	52,252
16 to 19 years .....	7,461	7,268	3,778	3,724	3,683	3,544
16 to 17 years .....	2,980	2,724	1,519	1,392	1,461	1,333
18 to 19 years .....	4,481	4,544	2,259	2,332	2,222	2,212
20 to 24 years .....	13,331	13,195	6,938	6,872	6,393	6,324
25 to 54 years .....	78,117	80,638	43,064	44,348	35,054	36,290
25 to 34 years .....	32,665	33,226	18,033	18,484	14,632	14,742
35 to 44 years .....	27,495	28,628	15,078	15,580	12,417	13,048
45 to 54 years .....	17,958	18,784	9,954	10,284	8,004	8,500
55 to 64 years .....	10,850	11,064	6,220	6,284	4,630	4,779
55 to 59 years .....	6,594	6,630	3,779	3,745	2,815	2,885
60 to 64 years .....	4,256	4,434	2,442	2,539	1,814	1,895
65 years and over .....	2,903	3,061	1,711	1,746	1,192	1,315

**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	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
Total .....	116,209	118,719	64,473	65,729	60,350	61,688	51,736	52,990	47,972	49,392
Managerial and professional specialty .....	29,181	30,070	16,165	16,609	16,029	16,494	13,016	13,461	12,860	13,312
Executive, administrative, and managerial .....	14,569	14,902	8,765	9,011	8,709	8,965	5,804	5,891	5,741	5,852
Officials and administrators, public administration .....	555	608	333	358	329	358	222	249	216	249
Other executive, administrative, and managerial .....	10,151	10,324	6,523	6,617	6,483	6,577	3,628	3,708	3,580	3,679
Management-related occupations .....	3,862	3,970	1,909	2,036	1,897	2,030	1,954	1,933	1,944	1,924
Professional specialty .....	14,612	15,168	7,400	7,598	7,321	7,529	7,212	7,570	7,119	7,460
Engineers .....	1,889	1,929	1,747	1,755	1,745	1,752	143	174	141	174
Mathematical and computer scientists .....	771	814	510	531	510	530	261	284	260	284
Natural scientists .....	410	420	295	309	295	309	115	111	115	110
Health diagnosing occupations .....	791	859	638	738	638	737	153	122	153	122
Health assessment and treating occupations .....	2,138	2,304	337	362	333	362	1,801	1,942	1,800	1,936
Teachers, college and university .....	602	625	356	369	354	367	246	256	243	251
Teachers, except college and university .....	3,320	3,444	907	890	885	871	2,413	2,553	2,383	2,505
Lawyers and judges .....	759	785	600	605	600	603	159	180	159	180
Other professional specialty occupations .....	3,931	3,987	2,010	2,040	1,960	1,997	1,921	1,947	1,864	1,899
Technical, sales, and administrative support .....	35,310	36,661	12,380	12,959	11,626	12,155	22,930	23,702	20,970	21,862
Technicians and related support .....	3,388	3,774	1,818	1,986	1,758	1,949	1,570	1,787	1,553	1,763
Health technologists and technicians .....	1,208	1,266	241	227	235	224	967	1,039	964	1,032
Engineering and science technicians .....	1,096	1,184	866	935	835	911	230	249	225	244
Technicians, except health, engineering, and science .....	1,083	1,324	711	824	687	813	372	499	365	487
Sales occupations .....	13,885	14,288	7,047	7,180	6,591	6,675	6,838	7,108	5,676	5,984
Supervisors and proprietors .....	3,697	3,813	2,443	2,460	2,405	2,434	1,254	1,353	1,236	1,322
Sales representatives, finance and business services .....	2,459	2,428	1,403	1,357	1,365	1,330	1,056	1,070	1,007	1,041
Sales representatives, commodities, except retail .....	1,507	1,566	1,239	1,243	1,237	1,222	268	323	256	313
Sales workers, retail and personal services .....	6,164	6,406	1,938	2,101	1,559	1,674	4,226	4,305	3,145	3,254
Sales-related occupations .....	58	76	24	20	24	15	34	57	33	55
Administrative support, including clerical .....	18,038	18,599	3,515	3,793	3,278	3,531	14,523	14,807	13,741	14,115
Supervisors .....	778	708	340	292	339	292	438	416	434	416
Computer equipment operators .....	875	913	293	339	278	320	582	574	550	544
Secretaries, stenographers, and typists .....	4,848	4,762	113	75	102	73	4,735	4,686	4,506	4,503
Financial records processing .....	2,384	2,464	201	236	183	228	2,184	2,228	2,144	2,179
Mail and message distributing .....	879	913	560	572	528	539	319	341	301	332
Other administrative support, including clerical .....	8,273	8,839	2,008	2,278	1,847	2,079	6,265	6,561	5,806	6,141
Service occupations .....	15,390	15,688	6,129	6,375	5,069	5,318	9,261	9,312	7,963	8,064
Private household .....	941	942	41	54	31	51	900	888	688	747
Protective service .....	1,970	1,944	1,676	1,638	1,583	1,563	294	307	238	256
Service, except private household and protective .....	12,479	12,801	4,412	4,683	3,455	3,704	8,067	8,118	7,036	7,062
Food service .....	5,134	5,481	1,969	2,185	1,283	1,472	3,165	3,296	2,439	2,545
Health service .....	2,004	1,999	234	234	220	217	1,771	1,765	1,684	1,668
Cleaning and building service .....	3,069	3,057	1,726	1,838	1,547	1,664	1,344	1,219	1,246	1,142
Personal service .....	2,271	2,264	483	425	405	352	1,788	1,838	1,667	1,707
Precision production, craft, and repair .....	14,087	14,192	12,855	12,992	12,487	12,587	1,231	1,200	1,203	1,160
Mechanics and repairers .....	4,582	4,574	4,457	4,436	4,346	4,307	124	138	123	138
Construction trades .....	5,400	5,419	5,267	5,308	5,062	5,070	133	111	130	101
Other precision production, craft, and repair .....	4,105	4,200	3,132	3,249	3,078	3,211	974	951	950	921
Operators, fabricators, and laborers .....	18,238	18,218	13,617	13,569	12,279	12,361	4,622	4,649	4,391	4,408
Machine operators, assemblers, and inspectors .....	8,346	8,229	4,976	4,829	4,741	4,633	3,370	3,401	3,273	3,287
Manufacturing industries .....	6,843	6,768	4,009	3,886	3,840	3,754	2,834	2,882	2,754	2,790
Durable goods .....	3,746	3,722	2,577	2,516	2,502	2,434	1,169	1,206	1,136	1,179
Nondurable goods .....	3,097	3,045	1,432	1,370	1,338	1,319	1,665	1,676	1,618	1,611
Nonmanufacturing industries .....	1,503	1,462	967	943	900	879	536	519	519	497
Transportation and material moving occupations .....	4,902	4,861	4,481	4,454	4,305	4,330	421	407	396	398
Motor vehicle operators .....	3,602	3,500	3,216	3,138	3,075	3,034	386	363	365	356
Other transportation and material moving occupations .....	1,300	1,361	1,265	1,316	1,231	1,296	35	44	31	42
Handlers, equipment cleaners, helpers, and laborers .....	4,990	5,128	4,159	4,287	3,232	3,398	831	841	721	723
Construction laborers .....	876	893	833	849	690	718	43	43	41	36
Other handlers, equipment cleaners, helpers, and laborers .....	4,113	4,236	3,326	3,437	2,543	2,680	787	798	680	687
Farming, forestry, and fishing .....	4,003	3,890	3,327	3,225	2,860	2,774	676	665	586	586
Farm operators and managers .....	1,314	1,289	1,104	1,068	1,085	1,056	210	222	206	218
Other farming, forestry, and fishing occupations .....	2,689	2,600	2,223	2,158	1,776	1,718	466	443	380	368



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	June 1988	June 1989	June 1988	June 1989	June 1988	June 1989
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	116,209	118,719	64,473	65,729	51,736	52,990
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.1	25.3	25.1	25.3	25.2	25.4
Executive, administrative, and managerial .....	12.5	12.6	13.6	13.7	11.2	11.1
Professional specialty .....	12.6	12.8	11.5	11.6	13.9	14.3
Technical, sales, and administrative support .....	30.4	30.9	19.2	19.7	44.3	44.7
Technicians and related support .....	2.9	3.2	2.8	3.0	3.0	3.4
Sales occupations .....	11.9	12.0	10.9	10.9	13.2	13.4
Administrative support, including clerical .....	15.5	15.7	5.5	5.8	28.1	27.9
Service occupations .....	13.2	13.2	9.5	9.7	17.9	17.6
Private household .....	.8	.8	.1	.1	1.7	1.7
Protective service .....	1.7	1.6	2.6	2.5	.6	.6
Service, except private household and protective .....	10.7	10.8	6.8	7.1	15.6	15.3
Precision production, craft, and repair .....	12.1	12.0	19.9	19.8	2.4	2.3
Operators, fabricators, and laborers .....	15.7	15.3	21.1	20.6	8.9	8.8
Machine operators, assemblers, and inspectors .....	7.2	6.9	7.7	7.3	6.5	6.4
Transportation and material moving occupations .....	4.2	4.1	7.0	6.8	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.3	4.3	6.5	6.5	1.6	1.6
Farming, forestry, and fishing .....	3.4	3.3	5.2	4.9	1.3	1.3
<b>White</b>						
Total, 16 years and over (thousands) .....	101,069	102,869	56,663	57,581	44,406	45,288
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.1	26.4	26.1	26.4	26.2	26.3
Executive, administrative, and managerial .....	13.2	13.2	14.3	14.5	11.7	11.6
Professional specialty .....	13.0	13.1	11.8	11.9	14.5	14.7
Technical, sales, and administrative support .....	30.8	31.2	19.5	19.8	45.2	45.6
Technicians and related support .....	2.8	3.2	2.8	3.1	2.9	3.3
Sales occupations .....	12.5	12.6	11.6	11.4	13.8	14.0
Administrative support, including clerical .....	15.4	15.5	5.2	5.3	28.4	28.4
Service occupations .....	11.9	12.1	8.4	8.7	16.5	16.4
Private household .....	.7	.7	.1	.1	1.5	1.4
Protective service .....	1.6	1.6	2.4	2.3	.5	.6
Service, except private household and protective .....	9.7	9.9	5.9	6.3	14.4	14.4
Precision production, craft, and repair .....	12.6	12.3	20.6	20.3	2.4	2.1
Operators, fabricators, and laborers .....	15.0	14.5	20.2	19.6	8.4	8.1
Machine operators, assemblers, and inspectors .....	6.8	6.5	7.4	7.1	6.0	5.8
Transportation and material moving occupations .....	4.1	3.9	6.6	6.4	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.2	4.1	6.2	6.1	1.6	1.5
Farming, forestry, and fishing .....	3.6	3.5	5.3	5.1	1.5	1.4
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,597	12,023	5,894	6,059	5,703	5,964
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.5	15.6	13.5	12.8	17.6	18.4
Executive, administrative, and managerial .....	7.0	6.7	6.6	6.4	7.5	7.1
Professional specialty .....	8.5	8.9	6.9	6.4	10.2	11.4
Technical, sales, and administrative support .....	26.4	28.3	15.5	17.2	37.6	39.6
Technicians and related support .....	3.0	2.7	3.0	1.9	3.0	3.6
Sales occupations .....	6.6	8.0	4.7	6.4	8.5	9.6
Administrative support, including clerical .....	16.8	17.6	7.8	9.0	26.1	26.3
Service occupations .....	24.1	22.2	19.3	18.5	29.0	26.0
Private household .....	1.8	1.8	.2	.1	3.4	3.6
Protective service .....	2.8	2.6	4.4	4.4	1.3	.8
Service, except private household and protective .....	19.4	17.8	14.7	14.0	24.3	21.7
Precision production, craft, and repair .....	9.3	9.6	16.1	16.5	2.2	2.6
Operators, fabricators, and laborers .....	22.5	22.5	31.6	31.8	13.1	13.0
Machine operators, assemblers, and inspectors .....	10.7	9.8	10.8	9.8	10.6	9.9
Transportation and material moving occupations .....	6.2	6.0	11.3	10.9	1.0	1.0
Handlers, equipment cleaners, helpers, and laborers .....	5.6	6.7	9.5	11.1	1.5	2.1
Farming, forestry, and fishing .....	2.3	1.8	4.1	3.3	.4	.3

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	June 1989								
	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 .....	106,357	1,220	16,881	88,256	8,613	255	1,818	1,504	172
16 to 19 years .....	7,184	190	405	6,588	74	11	282	50	38
16 to 17 years .....	2,691	111	158	2,422	24	9	153	27	22
18 to 19 years .....	4,492	79	247	4,166	49	2	129	23	17
20 to 24 years .....	12,881	153	1,118	11,610	301	13	349	49	19
25 to 34 years .....	31,358	252	4,080	27,027	1,824	43	488	278	20
35 to 44 years .....	25,858	171	5,196	20,491	2,700	70	324	316	41
45 to 54 years .....	16,899	166	3,563	13,171	1,824	61	178	276	22
55 to 64 years .....	9,763	170	2,105	7,489	1,270	31	137	297	11
55 to 59 years .....	5,914	95	1,268	4,552	696	20	68	148	9
60 to 64 years .....	3,849	75	837	2,937	574	11	69	150	2
65 years and over .....	2,414	119	415	1,880	621	26	60	237	20
Men, 16 years and over .....	57,275	201	8,036	49,038	5,661	38	1,450	1,234	71
16 to 19 years .....	3,669	42	213	3,414	49	7	243	44	29
16 to 17 years .....	1,378	25	88	1,264	8	6	134	27	18
18 to 19 years .....	2,291	16	125	2,150	40	1	109	17	11
20 to 24 years .....	6,669	29	489	6,151	195	8	290	45	13
25 to 34 years .....	17,331	59	1,977	15,295	1,147	6	393	233	5
35 to 44 years .....	13,834	21	2,376	11,437	1,743	2	225	238	10
45 to 54 years .....	9,093	18	1,729	7,346	1,189	2	145	217	6
55 to 64 years .....	5,381	22	1,037	4,321	901	3	105	246	-
55 to 59 years .....	3,244	7	611	2,626	499	3	52	124	-
60 to 64 years .....	2,136	15	426	1,695	403	-	53	123	-
65 years and over .....	1,299	9	216	1,073	437	10	49	211	9
Women, 16 years and over .....	49,082	1,019	8,845	39,218	2,952	218	368	270	100
16 to 19 years .....	3,515	148	192	3,174	25	4	39	6	9
16 to 17 years .....	1,314	86	70	1,158	16	3	19	-	4
18 to 19 years .....	2,201	63	122	2,016	9	2	20	6	5
20 to 24 years .....	6,212	124	629	5,459	106	5	58	4	6
25 to 34 years .....	14,027	192	2,103	11,732	678	37	95	45	15
35 to 44 years .....	12,024	150	2,820	9,054	957	68	99	78	31
45 to 54 years .....	7,806	148	1,834	5,824	635	59	33	59	16
55 to 64 years .....	4,383	147	1,068	3,168	368	28	32	51	12
55 to 59 years .....	2,670	87	657	1,926	197	17	16	24	9
60 to 64 years .....	1,713	60	411	1,242	171	11	16	27	3
65 years and over .....	1,116	110	199	807	184	16	11	26	11

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	June 1989												
	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 .....	3,494	85	70	21	29	116		9	56	11	48	20	3,027
Mining .....	773	112	54	46	5	99		7	245	40	138	26	1
Construction .....	8,251	1,032	149	45	74	495		34	4,698	84	608	994	38
Manufacturing .....	21,943	2,495	1,902	782	707	2,541		329	4,187	6,768	894	1,258	79
Durable goods .....	12,913	1,458	1,315	510	276	1,408		191	2,889	3,722	458	612	73
Nondurable goods .....	9,030	1,038	586	271	431	1,133		139	1,297	3,045	437	646	6
Transportation and public utilities .....	8,120	935	464	271	385	2,182		263	1,271	149	1,709	478	13
Wholesale and retail trade .....	24,575	2,085	448	125	10,231	2,367		4,633	1,519	309	945	1,855	59
Wholesale trade .....	4,689	519	77	44	1,851	824		50	302	146	480	375	20
Retail trade .....	19,886	1,565	371	81	8,380	1,543		4,583	1,217	162	464	1,480	39
Finance, insurance, and real estate .....	8,099	2,081	190	175	1,848	3,247	-	268	148	15	17	15	95
Services .....	37,887	4,823	11,113	2,015	979	6,113	942	7,882	1,819	839	449	405	508
Private households .....	1,226	11	11	6	2	16	942	93	13	-	6	15	109
Other service industries .....	36,661	4,811	11,102	2,009	977	6,097	-	7,787	1,807	839	443	390	399
Professional services .....	23,589	2,624	9,682	1,600	131	4,257	-	4,250	387	225	231	105	96
Public administration .....	5,577	1,253	777	293	30	1,439	-	1,319	250	15	53	76	70

<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					
	June 1988	June 1989	Total		Wage and salary workers <sup>1</sup>			
			June 1988	June 1989	Paid absences		Unpaid absences	
					June 1988	June 1989	June 1988	June 1989
Total, 16 years and over .....	7,758	7,951	7,623	7,877	4,235	4,280	2,729	3,010
Vacation .....	5,280	5,383	5,220	5,356	3,420	3,407	1,470	1,646
Illness .....	1,321	1,246	1,306	1,231	544	558	633	595
Bad weather .....	23	115	14	97	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	26	45	25	45	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,108	1,161	1,057	1,148	271	315	626	770
Men, 16 years and over .....	3,395	3,469	3,298	3,409	1,976	1,989	956	1,096
Vacation .....	2,193	2,277	2,155	2,255	1,588	1,600	410	504
Illness .....	689	621	676	607	285	274	303	278
All other reasons <sup>3</sup> .....	514	571	466	546	102	115	242	313
Women, 16 years and over .....	4,363	4,483	4,325	4,468	2,260	2,292	1,773	1,915
Vacation .....	3,087	3,106	3,064	3,101	1,832	1,807	1,060	1,140
Illness .....	632	626	630	623	258	284	329	316
All other reasons <sup>3</sup> .....	645	751	631	744	169	200	384	458

<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	June 1989					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	110,768	3,420	107,348	100.0	100.0	100.0
1 to 34 hours .....	25,068	926	24,139	22.6	27.1	22.5
1 to 4 hours .....	870	51	818	.8	1.5	.8
5 to 14 hours .....	3,940	223	3,717	3.6	6.5	3.5
15 to 29 hours .....	12,627	436	12,190	11.4	12.7	11.4
30 to 34 hours .....	7,631	216	7,414	6.9	6.3	6.9
35 hours and over .....	85,702	2,494	83,209	77.4	72.9	77.5
35 to 39 hours .....	7,290	128	7,162	6.6	3.7	6.7
40 hours .....	44,842	666	44,176	40.5	19.5	41.2
41 hours and over .....	33,570	1,700	31,871	30.3	49.7	29.7
41 to 48 hours .....	11,510	225	11,286	10.4	6.6	10.5
49 to 59 hours .....	12,622	513	12,109	11.4	15.0	11.3
60 hours and over .....	9,438	962	8,476	8.5	28.1	7.9
Average hours, total at work .....	39.8	45.3	39.6			
Average hours, workers on full-time schedules .....	43.8	52.4	43.5			-

**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	June 1989					
	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 .....	25,068	7,656	17,411	24,139	7,369	16,771
Economic reasons .....	5,413	1,738	3,675	5,199	1,668	3,531
Slack work .....	2,223	1,261	962	2,105	1,199	906
Material shortages or repairs to plant and equipment .....	50	50	-	50	50	-
New job started during week .....	321	321	-	314	314	-
Job terminated during week .....	106	106	-	104	104	-
Could find only part-time work .....	2,713	-	2,713	2,625	-	2,625
Other reasons .....	19,655	5,919	13,736	18,941	5,701	13,240
Does not want, or unavailable for, full-time work .....	10,860	-	10,860	10,504	-	10,504
Vacation .....	2,093	2,093	-	2,058	2,058	-
Illness .....	1,321	1,172	149	1,288	1,152	136
Bad weather .....	746	746	-	628	628	-
Industrial dispute .....	17	17	-	17	17	-
Legal or religious holiday .....	150	150	-	150	150	-
Full time for this job .....	1,888	-	1,888	1,833	-	1,833
All other reasons .....	2,578	1,740	838	2,462	1,696	766
Average hours:						
Economic reasons .....	22.1	24.3	21.1	22.2	24.2	21.3
Other reasons .....	21.6	25.4	20.0	21.6	25.5	20.0
Worked 30 to 34 hours:						
Economic reasons .....	1,778	784	994	1,719	746	973
Other reasons .....	5,853	2,844	3,009	5,695	2,775	2,920

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

(Numbers in thousands)

Industry	June 1989								
	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 .....	107,348	5,199	13,240	88,909	57,038	11,286	20,585	39.6	43.5
Wage and salary workers .....	99,015	4,768	11,777	82,470	54,194	10,720	17,556	39.4	43.1
Mining .....	662	24	16	622	344	73	205	44.8	46.5
Construction .....	6,427	439	270	5,718	3,800	682	1,236	40.3	42.6
Manufacturing .....	20,561	497	611	19,453	12,245	3,229	3,979	42.2	43.4
Durable goods .....	12,157	166	256	11,735	7,298	1,925	2,512	42.7	43.5
Nondurable goods .....	8,403	331	354	7,718	4,947	1,304	1,467	41.5	43.2
Transportation and public utilities .....	7,250	177	383	6,690	4,193	843	1,654	42.5	44.2
Wholesale and retail trade .....	21,504	1,786	4,374	15,344	9,361	2,224	3,759	37.5	43.9
Finance, insurance, and real estate .....	7,129	134	707	6,288	4,327	758	1,203	39.8	42.4
Service industries .....	30,253	1,657	5,151	23,445	16,291	2,415	4,739	37.5	42.6
Private households .....	1,172	244	438	490	287	60	143	28.5	46.2
All other industries .....	29,081	1,413	4,713	22,955	16,004	2,355	4,596	37.9	42.5
Public administration .....	5,230	54	267	4,909	3,632	497	780	40.8	42.2
Self-employed workers .....	8,078	421	1,373	6,284	2,754	561	2,969	41.6	48.3
Unpaid family workers .....	255	9	90	156	91	5	60	37.0	46.1

**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	June 1989							
	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 .....	107,348	5,199	13,240	88,909	57,038	31,871	39.6	43.5
16 to 19 years .....	6,917	1,147	2,692	3,078	2,428	650	28.8	40.4
16 to 17 years .....	2,540	475	1,452	613	497	116	23.1	39.2
18 to 19 years .....	4,377	673	1,239	2,465	1,930	535	32.1	40.7
20 years and over .....	100,431	4,052	10,548	85,831	54,611	31,220	40.3	43.6
20 to 24 years .....	12,681	941	1,771	9,969	6,961	3,008	38.1	42.3
25 years and over .....	87,750	3,111	8,777	75,862	47,650	28,212	40.7	43.8
25 to 44 years .....	57,465	2,055	4,696	50,714	31,268	19,446	41.2	43.8
45 to 64 years .....	27,527	948	2,782	23,797	15,411	8,386	40.6	43.7
65 years and over .....	2,759	106	1,300	1,353	973	380	29.5	42.4
<b>Men, 16 years and over</b> .....	59,564	2,366	3,782	53,416	30,380	23,036	42.5	45.0
16 to 19 years .....	3,557	592	1,171	1,794	1,363	431	30.3	40.8
16 to 17 years .....	1,317	266	654	397	314	83	24.8	39.4
18 to 19 years .....	2,240	325	518	1,397	1,050	347	33.6	41.2
20 years and over .....	56,007	1,775	2,610	51,622	29,018	22,604	43.3	45.1
20 to 24 years .....	6,655	504	668	5,483	3,474	2,009	40.0	43.7
25 years and over .....	49,351	1,270	1,943	46,138	25,543	20,595	43.7	45.3
25 to 44 years .....	32,252	888	675	30,689	16,570	14,119	44.4	45.5
45 to 64 years .....	15,525	325	613	14,587	8,395	6,192	43.6	45.1
65 years and over .....	1,574	58	655	861	579	282	31.5	43.4
<b>Women, 16 years and over</b> .....	47,784	2,832	9,458	35,494	26,659	8,835	35.9	41.3
16 to 19 years .....	3,359	556	1,521	1,282	1,063	219	27.2	39.9
16 to 17 years .....	1,223	208	799	216	183	33	21.3	38.9
18 to 19 years .....	2,137	347	722	1,068	881	187	30.5	40.1
20 years and over .....	44,425	2,277	7,938	34,210	25,594	8,616	36.6	41.3
20 to 24 years .....	6,026	436	1,103	4,487	3,489	998	36.0	40.7
25 years and over .....	38,399	1,840	6,835	29,724	22,106	7,618	36.7	41.4
25 to 44 years .....	25,213	1,168	4,020	20,025	14,698	5,327	37.2	41.5
45 to 64 years .....	12,001	623	2,169	9,209	7,016	2,193	36.6	41.4
65 years and over .....	1,185	49	645	491	392	99	26.9	40.7
<b>RACE</b>								
White, 16 years and over .....	92,640	4,139	11,797	76,704	47,799	28,905	39.8	43.8
Men .....	51,962	1,821	3,308	46,833	25,754	21,079	42.9	45.3
Women .....	40,677	2,318	8,490	29,869	22,045	7,824	35.8	41.4
Black, 16 years and over .....	11,130	904	1,031	9,195	7,082	2,113	38.0	41.5
Men .....	5,637	468	315	4,854	3,469	1,385	39.8	42.8
Women .....	5,492	436	716	4,340	3,613	727	36.3	40.2
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,176	818	1,314	35,044	18,932	16,112	44.1	45.5
Widowed, divorced, or separated .....	6,013	255	275	5,483	3,077	2,406	43.1	45.2
Single (never married) .....	16,375	1,293	2,192	12,890	8,374	4,516	38.6	43.4
Women, 16 years and over:								
Married, spouse present .....	25,661	1,140	5,654	18,867	14,415	4,452	35.5	41.0
Widowed, divorced, or separated .....	9,376	537	1,124	7,715	5,535	2,180	38.3	42.0
Single (never married) .....	12,746	1,154	2,680	8,912	6,709	2,203	35.0	41.3

**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	June 1989								
	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> .....	106,991	5,117	13,184	88,690	56,819	11,242	20,629	39.6	43.5
Managerial and professional specialty .....	27,150	512	2,205	24,432	13,639	2,981	7,813	42.5	45.0
Executive, administrative, and managerial .....	14,103	158	663	13,282	6,820	1,693	4,770	44.6	46.1
Professional specialty .....	13,047	355	1,542	11,150	6,819	1,288	3,043	40.2	43.7
Technical, sales, and administrative support .....	34,608	1,418	5,758	27,431	18,813	3,302	5,316	38.1	42.6
Technicians and related support .....	3,573	83	337	3,153	2,165	470	517	39.9	42.3
Sales occupations .....	13,550	822	2,571	10,156	5,470	1,331	3,355	39.2	45.4
Administrative support, including clerical .....	17,485	513	2,850	14,122	11,178	1,500	1,444	36.9	40.8
Service occupations .....	14,632	1,563	3,554	9,515	6,859	990	1,666	34.8	42.6
Private household .....	900	155	345	400	234	50	116	29.4	46.2
Protective service .....	1,810	81	139	1,590	922	269	399	42.3	45.5
Service, except private household and protective .....	11,922	1,327	3,070	7,525	5,704	670	1,151	34.1	41.8
Precision production, craft, and repair .....	13,453	542	489	12,422	7,725	1,845	2,853	41.9	43.6
Operators, fabricators, and laborers .....	17,149	1,082	1,179	14,889	9,783	2,125	2,981	40.4	43.2
Machine operators, assemblers, and inspectors .....	7,821	362	292	7,167	5,050	1,065	1,052	40.7	42.2
Transportation and material moving occupations .....	4,486	193	245	4,048	2,114	561	1,374	43.8	46.3
Handlers, equipment cleaners, helpers, and laborers .....	4,842	527	642	3,674	2,619	499	555	36.9	41.8
Men, 16 years and over <sup>1</sup> .....	59,130	2,295	3,698	53,137	30,146	7,269	15,722	42.6	45.0
Managerial and professional specialty .....	15,520	218	613	14,689	7,055	1,788	5,846	45.3	46.8
Executive, administrative, and managerial .....	8,588	76	225	8,287	3,652	1,038	3,597	46.6	47.5
Professional specialty .....	6,932	141	388	6,402	3,403	750	2,249	43.7	45.8
Technical, sales, and administrative support .....	12,408	342	1,085	10,982	5,875	1,572	3,535	42.7	45.6
Technicians and related support .....	1,881	42	101	1,738	1,105	250	384	42.0	43.8
Sales occupations .....	6,909	206	614	6,089	2,621	858	2,609	44.4	47.6
Administrative support, including clerical .....	3,618	94	369	3,155	2,149	463	542	39.8	42.7
Service occupations .....	6,023	513	885	4,626	3,111	532	983	38.6	44.0
Private household .....	49	3	5	41	20	-	21	( <sup>2</sup> )	( <sup>2</sup> )
Protective service .....	1,523	74	81	1,369	774	225	371	43.5	46.0
Service, except private household and protective .....	4,451	437	799	3,215	2,317	307	591	36.8	42.9
Precision production, craft, and repair .....	12,312	500	360	11,452	6,996	1,727	2,729	42.2	43.8
Operators, fabricators, and laborers .....	12,866	722	755	11,389	7,109	1,650	2,630	41.4	43.9
Machine operators, assemblers, and inspectors .....	4,619	137	109	4,373	2,911	680	781	42.0	43.0
Transportation and material moving occupations .....	4,175	167	156	3,852	1,985	534	1,333	44.5	46.4
Handlers, equipment cleaners, helpers, and laborers .....	4,072	419	490	3,164	2,212	437	515	37.5	42.0
Women, 16 years and over <sup>1</sup> .....	47,862	2,822	9,487	35,552	26,673	3,973	4,907	35.9	41.3
Managerial and professional specialty .....	11,630	295	1,592	9,743	6,583	1,192	1,967	38.7	42.3
Executive, administrative, and managerial .....	5,515	81	438	4,995	3,168	654	1,173	41.5	43.6
Professional specialty .....	6,115	213	1,154	4,748	3,416	538	794	36.2	41.0
Technical, sales, and administrative support .....	22,199	1,077	4,673	16,449	12,938	1,730	1,781	35.5	40.7
Technicians and related support .....	1,692	41	236	1,414	1,060	221	133	37.5	40.6
Sales occupations .....	6,641	616	1,957	4,068	2,849	472	746	33.7	42.0
Administrative support, including clerical .....	13,867	419	2,480	10,968	9,029	1,037	902	36.2	40.2
Service occupations .....	8,608	1,050	2,669	4,889	3,748	458	683	32.1	41.4
Private household .....	851	152	340	359	214	50	95	28.2	45.0
Protective service .....	286	7	58	221	148	44	28	36.4	42.4
Service, except private household and protective .....	7,471	890	2,271	4,310	3,387	363	560	32.4	41.0
Precision production, craft, and repair .....	1,141	42	129	971	728	118	124	38.3	41.3
Operators, fabricators, and laborers .....	4,283	359	424	3,500	2,675	474	351	37.6	41.0
Machine operators, assemblers, and inspectors .....	3,202	225	183	2,794	2,139	385	270	38.8	40.9
Transportation and material moving occupations .....	311	27	89	196	128	27	41	34.7	43.4
Handlers, equipment cleaners, helpers, and laborers .....	770	108	152	510	408	62	40	34.0	40.6

<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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	186,247	186,402	186,522	186,666	186,801	186,949	187,098	187,340	187,461	187,581	187,708	187,854	187,995
Labor force <sup>1</sup> .....	123,209	123,331	123,692	123,688	123,778	124,215	124,259	125,124	124,865	124,948	125,343	125,283	125,768
Percent of population <sup>2</sup> .....	66.2	66.2	66.3	66.3	66.3	66.4	66.4	66.8	66.6	66.6	66.8	66.7	66.9
Total employed <sup>1</sup> .....	116,686	116,707	116,895	117,074	117,260	117,652	117,705	118,407	118,537	118,820	118,797	118,888	119,207
Employment-population ratio <sup>3</sup> .....	62.7	62.6	62.7	62.7	62.8	62.9	62.9	63.2	63.2	63.3	63.3	63.3	63.4
Resident Armed Forces .....	1,685	1,673	1,692	1,704	1,687	1,705	1,696	1,696	1,684	1,684	1,684	1,673	1,666
Civilian employed .....	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541
Agriculture .....	3,121	3,060	3,142	3,176	3,238	3,238	3,193	3,300	3,223	3,206	3,104	3,112	3,096
Nonagricultural industries .....	111,880	111,974	112,061	112,194	112,335	112,709	112,816	113,411	113,630	113,930	114,009	114,102	114,445
Unemployed .....	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561
Unemployment rate <sup>4</sup> .....	5.3	5.4	5.5	5.3	5.3	5.3	5.3	5.4	5.1	4.9	5.2	5.1	5.2
Not in labor force .....	63,038	63,071	62,830	62,978	63,023	62,734	62,839	62,216	62,596	62,633	62,365	62,571	62,228
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	89,367	89,445	89,504	89,577	89,637	89,716	89,792	89,914	89,973	90,032	90,094	90,167	90,237
Labor force <sup>1</sup> .....	68,436	68,461	68,685	68,604	68,569	68,686	68,638	69,032	69,113	69,190	69,360	69,114	69,507
Percent of population <sup>2</sup> .....	76.6	76.5	76.7	76.6	76.5	76.6	76.4	76.8	76.8	76.9	77.0	76.7	77.0
Total employed <sup>1</sup> .....	64,894	64,941	64,931	65,015	64,976	65,074	65,055	65,322	65,572	65,920	65,767	65,713	66,110
Employment-population ratio <sup>3</sup> .....	72.6	72.6	72.5	72.6	72.5	72.5	72.5	72.6	72.9	73.2	73.0	72.9	73.3
Resident Armed Forces .....	1,523	1,512	1,529	1,540	1,526	1,542	1,534	1,532	1,521	1,521	1,521	1,511	1,501
Civilian employed .....	63,371	63,429	63,402	63,475	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609
Unemployed .....	3,542	3,520	3,754	3,589	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397
Unemployment rate <sup>4</sup> .....	5.2	5.1	5.5	5.2	5.2	5.3	5.2	5.4	5.1	4.7	5.2	4.9	4.9
Not in labor force .....	20,931	20,984	20,819	20,973	21,068	21,030	21,154	20,882	20,860	20,842	20,734	21,053	20,730
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	96,880	96,957	97,018	97,089	97,164	97,234	97,306	97,427	97,488	97,550	97,614	97,687	97,758
Labor force <sup>1</sup> .....	54,773	54,870	55,007	55,084	55,209	55,529	55,621	56,091	55,752	55,758	55,983	56,169	56,261
Percent of population <sup>2</sup> .....	56.5	56.6	56.7	56.7	56.8	57.1	57.2	57.6	57.2	57.2	57.4	57.5	57.6
Total employed <sup>1</sup> .....	51,792	51,766	51,964	52,059	52,284	52,578	52,650	53,085	52,965	52,900	53,029	53,175	53,097
Employment-population ratio <sup>3</sup> .....	53.5	53.4	53.6	53.6	53.8	54.1	54.1	54.5	54.3	54.2	54.3	54.4	54.3
Resident Armed Forces .....	162	161	163	164	161	163	162	164	163	163	163	162	165
Civilian employed .....	51,630	51,605	51,801	51,895	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932
Unemployed .....	2,981	3,104	3,043	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164
Unemployment rate <sup>4</sup> .....	5.4	5.7	5.5	5.5	5.3	5.3	5.3	5.4	5.0	5.1	5.3	5.3	5.6
Not in labor force .....	42,107	42,087	42,011	42,005	41,955	41,705	41,685	41,336	41,736	41,792	41,631	41,518	41,497

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

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

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

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

Armed Forces).

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



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	184,562	184,729	184,830	184,962	185,114	185,244	185,402	185,644	185,777	185,897	186,024	186,181	186,329
Civilian labor force .....	121,524	121,658	122,000	121,984	122,091	122,510	122,563	123,428	123,181	123,264	123,659	123,610	124,102
Percent of population .....	65.8	65.9	66.0	66.0	66.0	66.1	66.1	66.5	66.3	66.3	66.5	66.4	66.6
Employed .....	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541
Employment-population ratio <sup>2</sup> .....	62.3	62.3	62.3	62.4	62.4	62.6	62.6	62.9	62.9	63.0	63.0	63.0	63.1
Unemployed .....	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561
Unemployment rate .....	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	80,526	80,608	80,669	80,751	80,851	80,924	81,001	81,162	81,256	81,333	81,413	81,524	81,592
Civilian labor force .....	62,669	62,729	62,916	62,884	62,915	62,995	63,002	63,358	63,490	63,557	63,709	63,503	63,831
Percent of population .....	77.8	77.8	78.0	77.9	77.8	77.8	77.8	78.1	78.1	78.1	78.3	77.9	78.2
Employed .....	59,780	59,897	59,839	59,979	60,004	59,999	60,049	60,420	60,636	60,869	60,757	60,798	61,093
Employment-population ratio <sup>2</sup> .....	74.2	74.3	74.2	74.3	74.2	74.1	74.1	74.4	74.6	74.8	74.6	74.6	74.9
Agriculture .....	2,231	2,252	2,273	2,249	2,315	2,313	2,292	2,277	2,320	2,317	2,252	2,284	2,256
Nonagricultural industries .....	57,549	57,645	57,566	57,730	57,689	57,686	57,757	58,143	58,316	58,552	58,505	58,514	58,837
Unemployed .....	2,889	2,832	3,077	2,905	2,911	2,996	2,953	2,938	2,853	2,688	2,952	2,705	2,737
Unemployment rate .....	4.6	4.5	4.9	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3
Not in labor force .....	17,857	17,879	17,753	17,867	17,936	17,929	17,999	17,804	17,766	17,776	17,704	18,021	17,761
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	89,502	89,588	89,670	89,735	89,807	89,887	89,954	90,072	90,153	90,242	90,318	90,432	90,526
Civilian labor force .....	50,690	50,807	50,959	50,991	51,201	51,558	51,587	51,998	51,821	51,851	51,992	52,171	52,231
Percent of population .....	56.6	56.7	56.8	56.8	57.0	57.4	57.3	57.7	57.5	57.5	57.6	57.7	57.7
Employed .....	48,205	48,242	48,492	48,535	48,788	49,113	49,165	49,543	49,514	49,484	49,544	49,690	49,661
Employment-population ratio <sup>2</sup> .....	53.9	53.8	54.1	54.1	54.3	54.6	54.7	55.0	54.9	54.8	54.9	54.9	54.9
Agriculture .....	626	549	609	638	640	640	646	715	666	664	615	628	610
Nonagricultural industries .....	47,579	47,693	47,883	47,897	48,148	48,473	48,519	48,827	48,849	48,819	48,929	49,062	49,051
Unemployed .....	2,485	2,565	2,467	2,456	2,413	2,445	2,422	2,455	2,306	2,367	2,448	2,480	2,570
Unemployment rate .....	4.9	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9
Not in labor force .....	38,812	38,781	38,711	38,744	38,606	38,329	38,367	38,074	38,332	38,391	38,326	38,261	38,295
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,534	14,533	14,491	14,477	14,456	14,433	14,447	14,410	14,367	14,323	14,293	14,224	14,211
Civilian labor force .....	8,165	8,122	8,125	8,109	7,975	7,957	7,974	8,071	7,871	7,856	7,958	7,936	8,040
Percent of population .....	56.2	55.9	56.1	56.0	55.2	55.1	55.2	56.0	54.8	54.9	55.7	55.8	56.6
Employed .....	7,016	6,895	6,872	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786
Employment-population ratio <sup>2</sup> .....	48.3	47.4	47.4	47.4	46.9	47.4	47.0	46.8	46.7	47.4	47.7	47.3	47.8
Agriculture .....	264	259	260	289	283	285	255	307	237	224	237	200	230
Nonagricultural industries .....	6,752	6,636	6,612	6,567	6,498	6,550	6,540	6,441	6,466	6,559	6,575	6,526	6,556
Unemployed .....	1,149	1,227	1,253	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254
Unemployment rate .....	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6
Not in labor force .....	6,369	6,411	6,366	6,368	6,481	6,476	6,473	6,339	6,496	6,467	6,335	6,288	6,171

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

population.

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

**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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup>	158,166	158,279	158,340	158,422	158,524	158,603	158,705	158,865	158,947	159,020	159,098	159,200	159,297
Civilian labor force	104,716	104,651	105,013	105,036	105,051	105,395	105,411	106,106	105,798	105,988	106,312	106,164	106,455
Percent of population	66.2	66.1	66.3	66.3	66.3	66.5	66.4	66.8	66.6	66.7	66.8	66.7	66.8
Employed	99,902	99,761	99,907	100,058	100,199	100,543	100,567	101,183	101,278	101,554	101,458	101,465	101,693
Employment-population ratio <sup>2</sup>	63.2	63.0	63.1	63.2	63.2	63.4	63.4	63.7	63.7	63.9	63.8	63.7	63.8
Unemployed	4,814	4,890	5,106	4,978	4,852	4,852	4,844	4,923	4,521	4,434	4,854	4,699	4,762
Unemployment rate	4.6	4.7	4.9	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5
<b>Men, 20 years and over</b>													
Civilian labor force	54,658	54,712	54,864	54,839	54,861	54,922	54,898	55,213	55,308	55,382	55,448	55,249	55,557
Percent of population	78.2	78.2	78.4	78.3	78.3	78.3	78.2	78.5	78.6	78.6	78.7	78.3	78.7
Employed	52,475	52,557	52,487	52,579	52,612	52,624	52,636	53,007	53,197	53,387	53,246	53,248	53,500
Employment-population ratio <sup>2</sup>	75.1	75.2	75.0	75.1	75.1	75.0	75.4	75.6	75.6	75.8	75.5	75.5	75.8
Unemployed	2,183	2,155	2,377	2,260	2,249	2,298	2,262	2,205	2,111	1,995	2,202	2,001	2,057
Unemployment rate	4.0	3.9	4.3	4.1	4.1	4.2	4.1	4.0	3.8	3.6	4.0	3.6	3.7
<b>Women, 20 years and over</b>													
Civilian labor force	42,955	42,958	43,149	43,191	43,298	43,625	43,644	43,936	43,770	43,780	44,016	44,084	44,050
Percent of population	56.2	56.2	56.4	56.4	56.5	56.9	56.9	57.2	56.9	56.9	57.2	57.2	57.1
Employed	41,201	41,124	41,378	41,413	41,583	41,889	41,930	42,201	42,177	42,115	42,207	42,282	42,236
Employment-population ratio <sup>2</sup>	53.9	53.8	54.1	54.1	54.2	54.6	54.6	54.9	54.8	54.7	54.8	54.9	54.8
Unemployed	1,754	1,834	1,771	1,778	1,715	1,736	1,714	1,734	1,593	1,665	1,810	1,803	1,814
Unemployment rate	4.1	4.3	4.1	4.1	4.0	4.0	3.9	3.9	3.6	3.8	4.1	4.1	4.1
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force	7,103	6,981	7,000	7,006	6,892	6,848	6,869	6,958	6,720	6,826	6,848	6,831	6,848
Percent of population	59.8	58.9	59.2	59.4	58.5	58.3	58.6	59.6	57.7	58.7	59.0	59.0	59.2
Employed	6,226	6,080	6,042	6,066	6,004	6,030	6,001	5,975	5,904	6,052	6,005	5,936	5,957
Employment-population ratio <sup>2</sup>	52.5	51.3	51.1	51.4	51.0	51.3	51.2	51.1	50.7	52.1	51.8	51.3	51.5
Unemployed	877	901	958	940	888	818	868	983	816	774	843	895	891
Unemployment rate	12.3	12.9	13.7	13.4	12.9	11.9	12.6	14.1	12.1	11.3	12.3	13.1	13.0
Men	13.2	14.3	13.9	14.5	14.4	12.6	13.4	16.4	14.0	12.3	13.1	14.8	13.4
Women	11.4	11.4	13.5	12.3	11.3	11.3	11.8	11.7	10.2	10.2	11.5	11.2	12.6
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup>	20,683	20,715	20,736	20,762	20,786	20,811	20,842	20,877	20,905	20,930	20,956	20,986	21,012
Civilian labor force	13,066	13,283	13,236	13,201	13,290	13,330	13,405	13,477	13,476	13,425	13,287	13,444	13,600
Percent of population	63.2	64.1	63.8	63.6	63.9	64.1	64.3	64.6	64.5	64.1	63.4	64.1	64.7
Employed	11,543	11,761	11,733	11,758	11,807	11,831	11,856	11,860	11,873	11,961	11,846	11,968	11,982
Employment-population ratio <sup>2</sup>	55.8	56.8	56.6	56.6	56.8	56.8	56.9	56.8	56.8	57.1	56.5	57.0	57.0
Unemployed	1,523	1,522	1,503	1,443	1,483	1,499	1,549	1,617	1,603	1,464	1,442	1,476	1,618
Unemployment rate	11.7	11.5	11.4	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9
<b>Men, 20 years and over</b>													
Civilian labor force	6,084	6,080	6,131	6,117	6,157	6,146	6,179	6,226	6,199	6,230	6,171	6,207	6,200
Percent of population	74.1	73.9	74.5	74.2	74.6	74.3	74.6	75.0	74.6	74.8	74.0	74.3	74.1
Employed	5,480	5,495	5,539	5,563	5,566	5,545	5,561	5,576	5,549	5,620	5,554	5,622	5,619
Employment-population ratio <sup>2</sup>	66.7	66.8	67.3	67.5	67.4	67.1	67.1	67.2	66.7	67.5	66.6	67.3	67.2
Unemployed	604	585	592	554	591	601	618	650	650	611	617	586	581
Unemployment rate	9.9	9.6	9.7	9.1	9.6	9.8	10.0	10.4	10.5	9.8	10.0	9.4	9.4
<b>Women, 20 years and over</b>													
Civilian labor force	6,097	6,286	6,188	6,174	6,234	6,280	6,316	6,369	6,349	6,315	6,227	6,340	6,405
Percent of population	59.3	61.0	60.0	59.8	60.2	60.6	60.9	61.2	61.0	60.5	59.6	60.6	61.2
Employed	5,449	5,640	5,571	5,575	5,620	5,663	5,654	5,706	5,697	5,739	5,677	5,740	5,732
Employment-population ratio <sup>2</sup>	53.0	54.7	54.0	54.0	54.3	54.6	54.5	54.9	54.7	55.0	54.3	54.9	54.7
Unemployed	648	646	617	599	614	617	662	663	651	576	550	600	674
Unemployment rate	10.6	10.3	10.0	9.7	9.8	9.8	10.5	10.4	10.3	9.1	8.8	9.5	10.5

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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>BLACK—Continued</b> <b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	885	917	917	910	899	904	910	881	928	880	889	897	994
Percent of population .....	40.6	42.0	42.0	41.7	41.2	41.5	41.7	40.5	42.7	40.5	40.9	41.3	45.7
Employed .....	614	626	623	620	621	623	641	577	627	602	615	606	631
Employment-population ratio <sup>2</sup> .....	28.1	28.7	28.5	28.4	28.5	28.6	29.4	26.5	28.8	27.7	28.3	27.9	29.0
Unemployed .....	271	291	294	290	278	281	269	304	301	278	274	291	363
Unemployment rate .....	30.6	31.7	32.1	31.9	30.9	31.1	29.6	34.5	32.4	31.6	30.8	32.4	36.5
Men .....	31.5	31.2	32.1	31.9	32.8	32.1	29.8	36.7	33.1	28.6	35.5	36.9	33.5
Women .....	29.6	32.4	32.0	31.9	28.6	29.9	29.3	32.0	31.6	34.8	26.2	28.4	40.2
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,306	13,344	13,381	13,419	13,458	13,495	13,533	13,564	13,606	13,649	13,690	13,731	13,772
Civilian labor force .....	9,009	8,997	8,963	9,061	9,075	9,148	9,133	9,205	9,219	9,210	9,262	9,428	9,272
Percent of population .....	67.7	67.4	67.0	67.5	67.4	67.8	67.5	67.9	67.8	67.5	67.7	68.7	67.3
Employed .....	8,222	8,285	8,214	8,378	8,368	8,419	8,441	8,434	8,596	8,607	8,495	8,686	8,524
Employment-population ratio <sup>2</sup> .....	61.8	61.9	61.4	62.4	62.2	62.4	62.4	62.2	63.2	63.1	62.1	63.3	61.9
Unemployed .....	787	732	749	683	707	729	692	771	624	603	767	742	748
Unemployment rate .....	8.7	8.1	8.4	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1

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

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

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

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

(In thousands)

Category	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTIC</b>													
Total .....	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541
Married men, spouse present .....	40,493	40,518	40,511	40,513	40,504	40,407	40,483	40,925	40,928	41,083	40,890	40,902	41,102
Married women, spouse present .....	28,678	28,669	28,809	28,836	28,890	28,995	29,053	29,589	29,412	29,589	29,656	29,739	29,481
Women who maintain families .....	6,130	6,170	6,280	6,253	6,344	6,375	6,399	6,416	6,385	6,256	6,243	6,331	6,403
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,583	1,572	1,607	1,612	1,661	1,672	1,698	1,684	1,645	1,656	1,554	1,610	1,550
Self-employed workers .....	1,375	1,362	1,411	1,421	1,405	1,450	1,349	1,387	1,419	1,403	1,419	1,358	1,412
Unpaid family workers .....	161	149	158	137	177	125	149	189	150	138	124	127	126
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	102,953	103,189	103,207	103,501	103,733	103,770	103,904	104,510	104,797	104,982	104,985	105,245	105,519
Government .....	17,049	17,031	17,111	17,145	17,240	17,387	17,423	17,393	17,311	17,382	17,180	17,230	17,261
Private industries .....	85,904	86,158	86,096	86,356	86,493	86,383	86,481	87,117	87,486	87,600	87,806	88,015	88,259
Private households .....	1,146	1,132	1,128	1,119	1,152	1,209	1,210	1,196	1,135	1,163	1,117	1,128	1,140
Other industries .....	84,758	85,026	84,968	85,237	85,341	85,174	85,271	85,921	86,350	86,437	86,689	86,887	87,118
Self-employed workers .....	8,536	8,531	8,508	8,570	8,479	8,619	8,602	8,718	8,517	8,645	8,671	8,516	8,570
Unpaid family workers .....	297	251	241	230	232	300	266	298	285	332	281	322	241
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
<b>All industries:</b>													
Part time for economic reasons .....	5,302	5,341	5,192	5,097	4,963	5,061	5,321	5,097	4,981	4,968	5,143	4,837	4,957
Stack work .....	2,346	2,471	2,315	2,266	2,220	2,279	2,549	2,302	2,303	2,232	2,373	2,296	2,318
Could only find part-time work .....	2,586	2,538	2,473	2,389	2,399	2,375	2,410	2,352	2,333	2,393	2,425	2,343	2,289
Voluntary part time .....	14,612	15,026	14,999	15,270	15,161	15,446	15,363	15,401	15,126	15,561	15,498	15,316	15,416
<b>Nonagricultural industries:</b>													
Part time for economic reasons .....	5,073	5,102	4,972	4,862	4,727	4,819	5,033	4,837	4,697	4,709	4,930	4,609	4,801
Stack work .....	2,183	2,334	2,171	2,102	2,095	2,116	2,377	2,144	2,105	2,048	2,243	2,102	2,190
Could only find part-time work .....	2,504	2,493	2,408	2,317	2,319	2,288	2,307	2,283	2,272	2,317	2,369	2,301	2,236
Voluntary part time .....	14,180	14,606	14,564	14,819	14,679	14,986	14,928	14,970	14,688	15,127	15,060	14,976	14,977

<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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541
16 to 24 years .....	20,338	20,137	20,123	20,050	19,930	19,877	19,852	19,741	19,797	19,996	19,899	19,784	19,959
16 to 19 years .....	7,016	6,895	6,872	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786
16 to 17 years .....	2,797	2,700	2,671	2,669	2,689	2,770	2,686	2,602	2,563	2,639	2,639	2,593	2,526
18 to 19 years .....	4,203	4,182	4,148	4,195	4,090	4,045	4,150	4,125	4,163	4,186	4,177	4,123	4,221
20 to 24 years .....	13,322	13,242	13,251	13,194	13,149	13,042	13,057	12,993	13,095	13,213	13,088	13,059	13,173
25 years and over .....	94,683	94,979	95,145	95,332	95,619	96,062	96,151	96,988	97,020	97,125	97,167	97,384	97,602
25 to 54 years .....	80,111	80,456	80,608	80,697	80,950	81,242	81,399	82,036	82,160	82,165	82,204	82,436	82,721
55 years and over .....	14,556	14,514	14,583	14,664	14,690	14,790	14,771	14,924	14,803	14,933	14,928	14,948	14,863
Men, 16 years and over .....	63,371	63,429	63,402	63,475	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609
16 to 24 years .....	10,550	10,441	10,475	10,401	10,303	10,379	10,288	10,198	10,377	10,530	10,385	10,243	10,412
16 to 19 years .....	3,591	3,532	3,563	3,496	3,446	3,533	3,472	3,370	3,415	3,530	3,489	3,403	3,515
16 to 17 years .....	1,415	1,392	1,395	1,397	1,404	1,433	1,385	1,270	1,298	1,377	1,338	1,304	1,296
18 to 19 years .....	2,171	2,133	2,126	2,106	2,040	2,105	2,135	2,088	2,134	2,179	2,149	2,089	2,206
20 to 24 years .....	6,959	6,909	6,912	6,905	6,857	6,846	6,816	6,828	6,962	7,000	6,896	6,839	6,897
25 years and over .....	52,818	53,016	52,983	53,072	53,136	53,152	53,227	53,573	53,659	53,897	53,842	53,949	54,222
25 to 54 years .....	44,287	44,509	44,471	44,577	44,669	44,712	44,779	45,001	45,091	45,278	45,163	45,398	45,619
55 years and over .....	8,529	8,524	8,514	8,502	8,482	8,436	8,470	8,563	8,536	8,603	8,643	8,543	8,589
Women, 16 years and over .....	51,630	51,605	51,801	51,895	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932
16 to 24 years .....	9,788	9,696	9,648	9,649	9,627	9,498	9,564	9,543	9,420	9,466	9,515	9,541	9,547
16 to 19 years .....	3,425	3,363	3,309	3,360	3,335	3,302	3,323	3,378	3,287	3,253	3,323	3,322	3,271
16 to 17 years .....	1,382	1,308	1,276	1,272	1,285	1,337	1,301	1,332	1,265	1,262	1,301	1,289	1,230
18 to 19 years .....	2,032	2,049	2,022	2,089	2,050	1,940	2,015	2,037	2,029	2,007	2,028	2,034	2,015
20 to 24 years .....	6,363	6,333	6,339	6,289	6,292	6,196	6,241	6,165	6,133	6,213	6,192	6,219	6,276
25 years and over .....	41,865	41,963	42,162	42,260	42,483	42,910	42,924	43,415	43,361	43,228	43,325	43,434	43,379
25 to 54 years .....	35,824	35,947	36,137	36,120	36,281	36,530	36,620	37,035	37,069	36,886	37,042	37,039	37,102
55 years and over .....	6,027	5,990	6,069	6,162	6,208	6,354	6,301	6,361	6,267	6,331	6,285	6,404	6,274

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

(In thousands)

Sex and age	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561
16 to 24 years .....	2,394	2,465	2,476	2,457	2,429	2,363	2,421	2,663	2,316	2,182	2,344	2,303	2,544
16 to 19 years .....	1,149	1,227	1,253	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254
16 to 17 years .....	527	571	605	650	559	520	535	581	572	477	463	500	535
18 to 19 years .....	642	628	660	615	629	599	637	751	605	597	667	701	737
20 to 24 years .....	1,245	1,238	1,223	1,204	1,235	1,241	1,242	1,340	1,148	1,109	1,198	1,093	1,290
25 years and over .....	4,146	4,143	4,334	4,179	4,061	4,193	4,125	4,101	4,026	3,921	4,191	4,074	4,036
25 to 54 years .....	3,675	3,702	3,828	3,733	3,651	3,739	3,687	3,632	3,559	3,542	3,761	3,628	3,503
55 years and over .....	450	457	475	436	419	433	457	474	466	396	451	453	515
Men, 16 years and over .....	3,542	3,520	3,754	3,589	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397
16 to 24 years .....	1,302	1,331	1,351	1,329	1,376	1,274	1,280	1,494	1,302	1,128	1,238	1,270	1,358
16 to 19 years .....	653	688	677	684	682	616	630	772	687	582	641	696	660
16 to 17 years .....	301	307	301	367	318	300	290	330	317	258	274	301	323
18 to 19 years .....	363	359	362	329	360	314	333	455	379	330	368	390	347
20 to 24 years .....	649	643	674	645	694	658	650	722	615	546	597	574	698
25 years and over .....	2,259	2,191	2,417	2,270	2,195	2,331	2,296	2,245	2,246	2,136	2,344	2,099	2,057
25 to 54 years .....	1,961	1,936	2,088	2,014	1,946	2,050	1,999	1,986	1,943	1,890	2,076	1,845	1,768
55 years and over .....	278	278	298	255	266	275	286	269	303	246	283	258	270
Women, 16 years and over .....	2,981	3,104	3,043	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164
16 to 24 years .....	1,092	1,134	1,125	1,128	1,053	1,089	1,141	1,169	1,014	1,054	1,106	1,034	1,186
16 to 19 years .....	496	539	576	569	512	506	549	551	481	491	505	514	594
16 to 17 years .....	226	264	304	283	241	220	245	251	255	219	189	199	212
18 to 19 years .....	279	269	298	286	269	285	304	296	226	267	299	311	390
20 to 24 years .....	596	595	549	559	541	583	592	618	533	563	601	520	592
25 years and over .....	1,887	1,952	1,917	1,909	1,866	1,862	1,829	1,856	1,780	1,784	1,847	1,975	1,979
25 to 54 years .....	1,714	1,766	1,740	1,719	1,705	1,689	1,688	1,646	1,616	1,652	1,685	1,782	1,735
55 years and over .....	172	179	177	181	153	158	171	205	164	151	169	195	245

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

(Civilian workers)

Sex and age	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3
16 to 24 years .....	10.5	10.9	11.0	10.9	10.9	10.6	10.9	11.9	10.5	9.8	10.5	10.4	11.3
16 to 19 years .....	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6
16 to 17 years .....	15.9	17.5	18.5	19.6	17.2	15.8	16.6	18.3	18.2	15.3	14.9	16.2	17.5
18 to 19 years .....	13.3	13.1	13.7	12.8	13.3	12.9	13.3	15.4	12.7	12.5	13.8	14.5	14.9
20 to 24 years .....	8.5	8.5	8.4	8.4	8.6	8.7	8.7	9.3	8.1	7.7	8.4	7.7	8.9
25 years and over .....	4.2	4.2	4.4	4.2	4.1	4.2	4.1	4.1	4.0	3.9	4.1	4.0	4.0
25 to 54 years .....	4.4	4.4	4.5	4.4	4.3	4.4	4.3	4.2	4.2	4.1	4.4	4.2	4.1
55 years and over .....	3.0	3.1	3.2	2.9	2.8	2.8	3.0	3.1	3.1	2.6	2.9	2.9	3.3
Men, 16 years and over .....	5.3	5.3	5.6	5.4	5.4	5.4	5.3	5.5	5.2	4.8	5.3	5.0	5.0
16 to 24 years .....	11.0	11.3	11.4	11.3	11.8	10.9	11.1	12.8	11.1	9.7	10.7	11.0	11.5
16 to 19 years .....	15.4	16.3	16.0	16.4	16.5	14.8	15.4	18.6	16.7	14.2	15.5	17.0	15.8
16 to 17 years .....	17.5	18.1	17.7	20.8	18.5	17.3	17.3	20.6	19.6	15.8	17.0	18.8	20.0
18 to 19 years .....	14.3	14.4	14.5	13.5	15.0	13.0	13.5	17.9	15.1	13.2	14.6	15.7	13.6
20 to 24 years .....	8.5	8.5	8.9	8.5	9.2	8.8	8.7	9.6	8.1	7.2	8.0	7.7	9.2
25 years and over .....	4.1	4.0	4.4	4.1	4.0	4.2	4.1	4.0	4.0	3.8	4.2	3.7	3.7
25 to 54 years .....	4.2	4.2	4.5	4.3	4.2	4.4	4.3	4.2	4.1	4.0	4.4	3.9	3.7
55 years and over .....	3.2	3.2	3.4	2.9	3.0	3.2	3.3	3.0	3.4	2.8	3.2	2.9	3.0
Women, 16 years and over .....	5.5	5.7	5.5	5.5	5.3	5.3	5.4	5.4	5.0	5.1	5.3	5.3	5.6
16 to 24 years .....	10.0	10.5	10.4	10.5	9.9	10.3	10.7	10.9	9.7	10.0	10.4	9.8	11.0
16 to 19 years .....	12.6	13.8	14.8	14.5	13.3	13.3	14.2	14.0	12.8	13.1	13.2	13.4	15.4
16 to 17 years .....	14.1	16.8	19.2	18.2	15.8	14.1	15.8	15.9	16.8	14.8	12.7	13.4	14.7
18 to 19 years .....	12.1	11.6	12.8	12.0	11.6	12.8	13.1	12.7	10.0	11.7	12.8	13.3	16.2
20 to 24 years .....	8.6	8.6	8.0	8.2	7.9	8.6	8.7	9.1	8.0	8.3	8.9	7.7	8.6
25 years and over .....	4.3	4.4	4.3	4.3	4.2	4.2	4.1	4.1	3.9	4.0	4.1	4.4	4.4
25 to 54 years .....	4.6	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.2	4.3	4.4	4.6	4.5
55 years and over .....	2.8	2.9	2.8	2.9	2.4	2.4	2.6	3.1	2.5	2.3	2.6	3.0	3.8

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3
Men, 20 years and over .....	4.6	4.5	4.9	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3
Women, 20 years and over .....	4.9	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9
Both sexes, 16 to 19 years .....	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6
White .....	4.6	4.7	4.9	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5
Black and other .....	10.3	10.1	10.0	9.5	9.8	10.0	10.0	10.6	10.6	9.8	9.6	9.5	10.3
Black .....	11.7	11.5	11.4	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9
Hispanic origin .....	8.7	8.1	8.4	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1
Married men, spouse present .....	3.2	3.1	3.4	3.1	3.1	3.3	3.1	3.1	3.1	2.9	3.2	2.9	2.8
Married women, spouse present .....	3.9	4.0	4.0	3.8	3.7	3.8	3.7	3.6	3.4	3.5	4.0	3.8	3.8
Women who maintain families .....	7.9	8.5	7.5	8.1	7.9	7.7	8.2	8.0	8.0	7.9	7.6	8.3	7.9
Full-time workers .....	5.0	5.0	5.3	5.1	5.0	5.0	5.1	5.0	4.8	4.8	5.0	4.8	4.8
Part-time workers .....	7.7	8.0	7.4	7.4	7.4	7.1	7.0	7.9	7.3	6.2	7.2	6.9	7.7
Unemployed 15 weeks and over <sup>1</sup> .....	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.0
Labor force time lost <sup>2</sup> .....	6.3	6.4	6.4	6.3	6.1	6.2	6.3	6.2	5.9	5.8	6.0	5.9	6.1
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.4	5.4	5.6	5.4	5.4	5.5	5.4	5.6	5.1	5.0	5.4	5.2	5.3
Goods-producing industries .....	6.2	6.3	6.7	6.4	6.4	6.4	6.4	6.4	6.1	5.8	6.0	5.8	6.2
Mining .....	6.8	5.4	7.0	8.6	8.8	8.9	7.7	6.1	8.0	7.0	5.6	4.5	3.7
Construction .....	10.3	10.4	10.7	9.6	10.0	10.6	10.4	10.4	10.0	9.4	9.7	9.3	10.0
Manufacturing .....	4.9	5.2	5.5	5.4	5.3	5.1	5.2	5.3	4.9	4.8	4.9	4.9	5.2
Durable goods .....	4.5	4.9	5.0	5.2	5.0	4.9	5.0	5.0	4.4	4.7	4.7	4.5	4.6
Nondurable goods .....	5.5	5.6	6.3	5.8	5.7	5.3	5.5	5.7	5.5	4.9	5.2	5.5	6.1
Service-producing industries .....	5.1	5.0	5.1	5.0	4.9	5.1	4.9	5.2	4.7	4.6	5.1	4.9	4.9
Transportation and public utilities .....	4.1	3.6	3.8	3.8	3.5	4.0	3.8	3.8	3.9	3.9	4.0	4.0	4.4
Wholesale and retail trade .....	6.0	6.2	6.4	6.2	6.0	6.2	6.3	6.3	5.6	5.6	5.9	5.5	6.0
Finance and service industries .....	4.6	4.5	4.4	4.4	4.5	4.6	4.1	4.7	4.3	4.1	4.8	4.7	4.3
Government workers .....	2.9	3.0	2.9	2.7	2.6	2.5	2.7	2.7	2.7	2.6	2.7	2.9	3.0
Agricultural wage and salary workers .....	10.0	11.0	11.0	10.8	10.2	9.3	8.8	9.5	8.9	8.9	10.5	10.3	11.0

<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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>DURATION</b>													
Less than 5 weeks .....	3,093	2,985	3,158	3,116	3,059	3,117	3,029	3,181	3,247	3,055	3,090	3,041	3,309
5 to 14 weeks .....	1,910	2,041	1,956	1,896	1,835	1,935	2,039	2,081	1,865	1,821	2,034	2,017	1,999
15 weeks and over .....	1,543	1,619	1,636	1,568	1,554	1,502	1,495	1,512	1,304	1,310	1,426	1,313	1,258
15 to 26 weeks .....	749	826	831	775	788	787	758	757	665	648	689	702	659
27 weeks and over .....	794	793	805	793	766	715	737	755	639	663	737	611	599
Average (mean) duration, in weeks .....	13.2	13.5	13.5	13.5	13.4	12.6	12.8	12.7	12.1	12.4	12.7	11.8	11.1
Median duration, in weeks .....	5.9	6.2	5.9	5.7	5.7	5.6	5.8	5.7	5.3	5.4	5.4	5.3	5.5
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	47.3	44.9	46.8	47.4	47.4	47.6	46.2	47.0	50.6	49.4	47.2	47.7	50.4
5 to 14 weeks .....	29.2	30.7	29.0	28.8	28.5	29.5	31.1	30.7	29.1	29.4	31.1	31.7	30.4
15 weeks and over .....	23.6	24.4	24.2	23.8	24.1	22.9	22.8	22.3	20.3	21.2	21.8	20.6	19.2
15 to 26 weeks .....	11.4	12.4	12.3	11.8	12.2	12.0	11.5	11.2	10.4	10.5	10.5	11.0	10.0
27 weeks and over .....	12.1	11.9	11.9	12.1	11.9	10.9	11.2	11.1	10.0	10.7	11.3	9.6	9.1

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

(Numbers in thousands)

Reasons for unemployment	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,070	3,085	3,112	3,079	2,951	3,031	3,066	3,121	2,876	2,831	2,984	2,724	2,765
On layoff .....	861	853	880	833	844	814	819	827	774	808	847	790	806
Other job losers .....	2,209	2,232	2,232	2,246	2,107	2,217	2,247	2,294	2,102	2,023	2,137	1,934	1,958
Job leavers .....	953	923	986	985	984	963	998	985	985	885	978	1,114	1,023
Reentrants .....	1,747	1,883	1,843	1,767	1,747	1,766	1,725	1,835	1,740	1,730	1,894	1,852	2,051
New entrants .....	800	799	800	761	747	799	799	780	765	713	671	683	742
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	46.7	46.1	46.2	46.7	45.9	46.2	46.5	46.4	45.2	46.0	45.7	42.7	42.0
On layoff .....	13.1	12.8	13.1	12.6	13.1	12.4	12.4	12.3	12.2	13.1	13.0	12.4	12.3
Other job losers .....	33.6	33.4	33.1	34.1	32.8	33.8	34.1	34.1	33.0	32.8	32.7	30.3	29.8
Job leavers .....	14.5	13.8	14.6	14.9	15.3	14.7	15.1	14.7	15.5	14.4	15.0	17.5	15.5
Reentrants .....	26.6	28.1	27.3	26.8	27.2	26.9	26.2	27.3	27.3	28.1	29.0	29.1	31.2
New entrants .....	12.2	11.9	11.9	11.5	11.6	12.2	12.1	11.6	12.0	11.6	10.3	10.7	11.3
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.5	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.3	2.3	2.4	2.2	2.2
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.7	.8	.9	.8
Reentrants .....	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.5	1.7
New entrants .....	.7	.7	.7	.6	.6	.7	.7	.6	.6	.6	.5	.6	.6

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-42. 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	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	182,008	182,530	183,115	183,743	184,253	184,749	185,216	185,707	186,099	186,530	186,949	187,461	187,852
Labor force <sup>1</sup> .....	119,383	119,900	120,298	120,826	121,441	121,779	122,301	122,786	123,062	123,570	124,084	124,979	125,464
Percent of population <sup>2</sup> .....	65.6	65.7	65.7	65.8	65.9	65.9	66.0	66.1	66.1	66.2	66.4	66.7	66.8
Total employed <sup>1</sup> .....	110,944	111,662	112,178	112,974	113,926	114,576	115,224	115,893	116,398	116,892	117,539	118,588	118,964
Employment-population ratio <sup>3</sup> .....	61.0	61.2	61.3	61.5	61.8	62.0	62.2	62.4	62.5	62.7	62.9	63.3	63.3
Resident Armed Forces .....	1,687	1,695	1,750	1,741	1,726	1,733	1,749	1,740	1,710	1,690	1,696	1,688	1,674
Civilian employed .....	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289
Agriculture .....	3,165	3,134	3,163	3,191	3,263	3,186	3,193	3,212	3,139	3,126	3,223	3,243	3,104
Nonagricultural industries .....	106,091	106,833	107,264	108,042	108,937	109,657	110,282	110,940	111,549	112,076	112,620	113,657	114,185
Unemployed .....	8,439	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545	6,391	6,501
Unemployment rate <sup>4</sup> .....	7.1	6.9	6.8	6.5	6.2	5.9	5.8	5.6	5.4	5.4	5.3	5.1	5.2
Not in labor force .....	62,626	62,630	62,817	62,917	62,813	62,970	62,915	62,922	63,037	62,959	62,865	62,482	62,388
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	87,201	87,463	87,775	88,101	88,358	88,605	88,843	89,100	89,293	89,509	89,715	89,973	90,166
Labor force <sup>1</sup> .....	66,895	67,036	67,322	67,608	67,711	67,765	68,005	68,234	68,436	68,583	68,631	69,112	69,327
Percent of population <sup>2</sup> .....	76.7	76.6	76.7	76.7	76.6	76.5	76.5	76.6	76.6	76.6	76.5	76.8	76.9
Total employed <sup>1</sup> .....	62,280	62,459	62,796	63,249	63,503	63,815	64,168	64,475	64,811	64,962	65,035	65,605	65,863
Employment-population ratio <sup>3</sup> .....	71.4	71.4	71.5	71.8	71.9	72.0	72.2	72.4	72.6	72.6	72.5	72.9	73.0
Resident Armed Forces .....	1,533	1,540	1,592	1,583	1,567	1,572	1,587	1,579	1,548	1,527	1,534	1,525	1,511
Civilian employed .....	60,747	60,920	61,204	61,666	61,937	62,243	62,581	62,895	63,262	63,435	63,501	64,080	64,352
Unemployed .....	4,615	4,577	4,526	4,358	4,208	3,950	3,837	3,759	3,625	3,621	3,596	3,507	3,464
Unemployment rate <sup>4</sup> .....	6.9	6.8	6.7	6.4	6.2	5.8	5.6	5.5	5.3	5.3	5.2	5.1	5.0
Not in labor force .....	20,306	20,426	20,453	20,494	20,647	20,840	20,839	20,866	20,858	20,926	21,084	20,861	20,839
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	94,807	95,067	95,341	95,642	95,896	96,144	96,372	96,608	96,806	97,022	97,234	97,488	97,686
Labor force <sup>1</sup> .....	52,487	52,864	52,976	53,219	53,730	54,014	54,296	54,552	54,626	54,987	55,453	55,867	56,137
Percent of population <sup>2</sup> .....	55.4	55.6	55.6	55.6	56.0	56.2	56.3	56.5	56.4	56.7	57.0	57.3	57.5
Total employed <sup>1</sup> .....	48,664	49,202	49,382	49,725	50,423	50,760	51,056	51,418	51,588	51,930	52,504	52,983	53,100
Employment-population ratio <sup>3</sup> .....	51.3	51.8	51.8	52.0	52.6	52.8	53.0	53.2	53.3	53.5	54.0	54.3	54.4
Resident Armed Forces .....	154	155	158	158	160	161	161	161	162	163	162	163	163
Civilian employed .....	48,509	49,047	49,224	49,567	50,263	50,600	50,894	51,257	51,426	51,767	52,342	52,820	52,937
Unemployed .....	3,824	3,661	3,594	3,494	3,307	3,253	3,241	3,134	3,039	3,057	2,949	2,884	3,037
Unemployment rate <sup>4</sup> .....	7.3	6.9	6.8	6.6	6.2	6.0	6.0	5.7	5.6	5.6	5.3	5.2	5.4
Not in labor force .....	42,320	42,204	42,365	42,423	42,166	42,130	42,076	42,056	42,180	42,035	41,781	41,621	41,549

<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-42 through A-53 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-43. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted**

(Numbers in thousands)

Employment status, sex, and age	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	180,321	180,835	181,365	182,002	182,527	183,016	183,467	183,967	184,389	184,840	185,253	185,773	186,178
Civilian labor force .....	117,695	118,205	118,548	119,085	119,714	120,046	120,552	121,045	121,352	121,881	122,388	123,291	123,790
Percent of population .....	65.3	65.4	65.4	65.4	65.6	65.6	65.7	65.8	65.8	65.9	66.1	66.4	66.5
Employed .....	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289
Employment-population ratio <sup>2</sup> .....	60.6	60.8	60.9	61.1	61.5	61.7	61.9	62.1	62.2	62.3	62.5	62.9	63.0
Unemployed .....	8,439	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545	6,391	6,501
Unemployment rate .....	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3	5.2	5.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	78,393	78,647	78,883	79,217	79,466	79,678	79,898	80,194	80,418	80,676	80,925	81,251	81,510
Civilian labor force .....	61,193	61,364	61,670	61,908	62,068	62,083	62,270	62,522	62,721	62,843	62,971	63,468	63,681
Percent of population .....	78.1	78.0	78.2	78.1	78.1	77.9	77.9	78.0	78.0	77.9	77.8	78.1	78.1
Employed .....	57,405	57,575	57,885	58,316	58,613	58,828	59,147	59,448	59,756	59,905	60,017	60,642	60,883
Employment-population ratio <sup>2</sup> .....	73.2	73.2	73.4	73.6	73.8	73.8	74.0	74.1	74.3	74.3	74.2	74.6	74.7
Agriculture .....	2,301	2,252	2,297	2,316	2,386	2,314	2,298	2,280	2,243	2,258	2,307	2,305	2,264
Nonagricultural industries .....	55,103	55,323	55,589	56,000	56,227	56,514	56,849	57,168	57,514	57,647	57,711	58,337	58,619
Unemployed .....	3,788	3,789	3,785	3,592	3,455	3,255	3,123	3,074	2,965	2,938	2,953	2,827	2,798
Unemployment rate .....	6.2	6.2	6.1	5.8	5.6	5.2	5.0	4.9	4.7	4.7	4.7	4.5	4.4
Not in labor force .....	17,200	17,283	17,213	17,309	17,398	17,595	17,628	17,672	17,697	17,833	17,954	17,783	17,829
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	87,449	87,699	87,935	88,236	88,468	88,701	88,925	89,183	89,397	89,664	89,883	90,155	90,425
Civilian labor force .....	48,471	48,921	48,993	49,255	49,688	49,962	50,214	50,501	50,604	50,919	51,449	51,890	52,131
Percent of population .....	55.4	55.8	55.7	55.8	56.2	56.3	56.5	56.6	56.6	56.8	57.2	57.6	57.7
Employed .....	45,345	45,916	46,062	46,403	46,986	47,295	47,605	47,963	48,122	48,423	49,022	49,514	49,632
Employment-population ratio <sup>2</sup> .....	51.9	52.4	52.4	52.6	53.1	53.3	53.5	53.8	53.8	54.0	54.5	54.9	54.9
Agriculture .....	591	628	622	611	615	622	635	639	628	599	642	682	618
Nonagricultural industries .....	44,754	45,288	45,440	45,791	46,371	46,673	46,970	47,323	47,494	47,824	48,380	48,832	49,014
Unemployed .....	3,125	3,005	2,931	2,852	2,702	2,667	2,609	2,538	2,483	2,496	2,427	2,376	2,499
Unemployment rate .....	6.4	6.1	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9	4.7	4.6	4.8
Not in labor force .....	38,978	38,778	38,942	38,981	38,780	38,739	38,711	38,682	38,793	38,745	38,434	38,265	38,294
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,479	14,489	14,547	14,548	14,593	14,638	14,644	14,590	14,574	14,500	14,445	14,367	14,243
Civilian labor force .....	8,032	7,920	7,885	7,922	7,959	8,001	8,069	8,022	8,026	8,119	7,969	7,933	7,978
Percent of population .....	55.5	54.7	54.2	54.5	54.5	54.7	55.1	55.0	55.1	56.0	55.2	55.2	56.0
Employed .....	6,507	6,476	6,481	6,514	6,601	6,720	6,723	6,742	6,810	6,874	6,804	6,745	6,774
Employment-population ratio <sup>2</sup> .....	44.9	44.7	44.5	44.8	45.2	45.9	45.9	46.2	46.7	47.4	47.1	46.9	47.6
Agriculture .....	273	254	245	263	263	249	260	293	269	269	274	256	222
Nonagricultural industries .....	6,234	6,222	6,236	6,251	6,339	6,470	6,463	6,448	6,541	6,605	6,529	6,489	6,552
Unemployed .....	1,525	1,444	1,404	1,408	1,358	1,281	1,345	1,281	1,216	1,244	1,165	1,188	1,203
Unemployment rate .....	19.0	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6	15.0	15.1
Not in labor force .....	6,447	6,569	6,662	6,626	6,634	6,637	6,575	6,568	6,548	6,381	6,476	6,434	6,265

<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  
QUARTERLY AVERAGES**

**A-44. 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	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	155,245	155,609	155,982	156,435	156,806	157,145	157,448	157,772	158,048	158,347	158,611	158,944	159,198
Civilian labor force .....	101,620	102,135	102,413	102,735	103,224	103,386	103,758	104,255	104,555	104,900	105,286	105,964	106,310
Percent of population .....	65.5	65.6	65.7	65.7	65.8	65.8	65.9	66.1	66.2	66.2	66.4	66.7	66.8
Employed .....	95,337	96,027	96,345	96,900	97,642	98,084	98,527	99,204	99,691	99,909	100,436	101,338	101,539
Employment-population ratio <sup>2</sup> .....	61.4	61.7	61.8	61.9	62.3	62.4	62.6	62.9	63.1	63.1	63.3	63.8	63.8
Unemployed .....	6,283	6,109	6,067	5,835	5,581	5,302	5,231	5,050	4,864	4,991	4,849	4,626	4,772
Unemployment rate .....	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.7	4.8	4.6	4.4	4.5
<b>Men, 20 years and over</b>													
Civilian labor force .....	53,564	53,691	53,959	54,120	54,205	54,191	54,365	54,546	54,678	54,805	54,894	55,301	55,418
Percent of population .....	78.4	78.4	78.6	78.5	78.5	78.2	78.3	78.3	78.3	78.3	78.3	78.6	78.5
Employed .....	50,673	50,832	51,068	51,350	51,570	51,718	51,956	52,231	52,465	52,541	52,624	53,197	53,331
Employment-population ratio <sup>2</sup> .....	74.2	74.2	74.4	74.5	74.6	74.7	74.8	75.0	75.2	75.1	75.0	75.6	75.6
Unemployed .....	2,891	2,859	2,891	2,770	2,635	2,473	2,409	2,315	2,212	2,264	2,270	2,104	2,087
Unemployment rate .....	5.4	5.3	5.4	5.1	4.9	4.6	4.4	4.2	4.0	4.1	4.1	3.8	3.8
<b>Women, 20 years and over</b>													
Civilian labor force .....	41,140	41,586	41,577	41,734	42,113	42,327	42,474	42,764	42,926	43,099	43,522	43,829	44,050
Percent of population .....	54.8	55.3	55.1	55.2	55.6	55.7	55.8	56.1	56.2	56.3	56.7	57.0	57.2
Employed .....	38,860	39,401	39,465	39,712	40,181	40,446	40,626	40,967	41,186	41,305	41,801	42,164	42,241
Employment-population ratio <sup>2</sup> .....	51.8	52.4	52.3	52.5	53.0	53.3	53.4	53.7	53.9	54.0	54.5	54.8	54.8
Unemployed .....	2,280	2,185	2,112	2,022	1,932	1,881	1,848	1,797	1,740	1,794	1,722	1,664	1,809
Unemployment rate .....	5.5	5.3	5.1	4.8	4.6	4.4	4.4	4.2	4.1	4.2	4.0	3.8	4.1
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,916	6,858	6,876	6,882	6,905	6,868	6,918	6,945	6,952	6,996	6,870	6,835	6,842
Percent of population .....	58.2	57.7	57.8	57.7	57.8	57.4	58.0	58.4	58.5	59.1	58.5	58.6	59.1
Employed .....	5,803	5,793	5,812	5,838	5,891	5,920	5,944	6,006	6,040	6,063	6,012	5,977	5,966
Employment-population ratio <sup>2</sup> .....	48.9	48.8	48.9	49.0	49.3	49.5	49.8	50.5	50.9	51.2	51.2	51.3	51.5
Unemployed .....	1,112	1,065	1,065	1,043	1,014	948	974	938	912	933	858	858	876
Unemployment rate .....	16.1	15.5	15.5	15.2	14.7	13.8	14.1	13.5	13.1	13.3	12.5	12.5	12.8
Men .....	17.1	16.2	16.0	16.3	16.2	14.4	14.9	14.2	13.9	14.2	13.4	14.2	13.8
Women .....	15.0	14.8	15.0	13.9	13.1	13.1	13.2	12.8	12.3	12.4	11.5	10.7	11.8
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,945	20,028	20,120	20,218	20,310	20,398	20,481	20,568	20,651	20,737	20,813	20,904	20,985
Civilian labor force .....	12,753	12,600	12,709	12,836	12,883	13,076	13,167	13,137	13,090	13,240	13,342	13,459	13,444
Percent of population .....	63.9	62.9	63.2	63.5	63.4	64.1	64.3	63.9	63.4	63.8	64.1	64.4	64.1
Employed .....	10,873	10,751	10,893	11,053	11,201	11,426	11,546	11,512	11,530	11,751	11,831	11,898	11,932
Employment-population ratio <sup>2</sup> .....	54.5	53.7	54.1	54.7	55.1	56.0	56.4	56.0	55.8	56.7	56.8	56.9	56.9
Unemployed .....	1,880	1,849	1,816	1,783	1,682	1,650	1,621	1,626	1,559	1,489	1,510	1,561	1,512
Unemployment rate .....	14.7	14.7	14.3	13.9	13.1	12.6	12.3	12.4	11.9	11.2	11.3	11.6	11.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,928	5,904	5,962	5,979	6,007	6,053	6,050	6,117	6,114	6,109	6,161	6,218	6,193
Percent of population .....	75.1	74.5	74.9	74.7	74.7	74.9	74.5	75.0	74.6	74.2	74.5	74.8	74.2
Employed .....	5,169	5,116	5,196	5,278	5,322	5,397	5,431	5,461	5,486	5,532	5,557	5,582	5,598
Employment-population ratio <sup>2</sup> .....	65.5	64.6	65.3	65.9	66.1	66.8	66.9	66.9	66.9	67.2	67.2	67.1	67.0
Unemployed .....	758	788	766	702	685	656	619	656	628	577	603	637	595
Unemployment rate .....	12.8	13.3	12.8	11.7	11.4	10.8	10.2	10.7	10.3	9.4	9.8	10.2	9.6
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,886	5,854	5,902	5,984	6,007	6,108	6,180	6,161	6,103	6,216	6,277	6,344	6,324
Percent of population .....	59.3	58.7	58.9	59.5	59.5	60.2	60.6	60.2	59.4	60.2	60.6	60.9	60.5
Employed .....	5,143	5,132	5,161	5,227	5,324	5,402	5,499	5,497	5,449	5,595	5,646	5,714	5,716
Employment-population ratio <sup>2</sup> .....	51.8	51.5	51.5	52.0	52.7	53.2	54.0	53.7	53.0	54.2	54.5	54.9	54.6
Unemployed .....	743	723	741	756	683	706	681	663	654	621	631	630	608
Unemployment rate .....	12.6	12.3	12.5	12.6	11.4	11.6	11.0	10.8	10.7	10.0	10.1	9.9	9.6

See footnotes at end of table.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-44. 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	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	939	842	844	873	869	915	937	859	873	915	904	896	927
Percent of population .....	44.0	39.4	39.4	40.6	40.2	42.2	43.1	39.5	40.0	41.9	41.5	41.2	42.6
Employed .....	561	503	535	548	555	627	616	553	595	623	628	602	617
Employment-population ratio <sup>2</sup> .....	26.3	23.6	25.0	25.5	25.7	28.9	28.4	25.5	27.3	28.5	28.8	27.7	28.4
Unemployed .....	378	339	309	325	315	288	321	306	278	292	276	294	309
Unemployment rate .....	40.3	40.2	36.6	37.2	36.2	31.5	34.2	35.6	31.8	31.9	30.5	32.8	33.4
Men .....	39.9	40.4	37.0	36.0	36.3	32.8	33.0	37.4	31.0	31.7	31.6	32.8	35.2
Women .....	40.7	40.1	36.2	38.6	36.1	30.0	35.5	33.8	32.8	32.1	29.3	32.8	31.6
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	12,290	12,397	12,504	12,692	12,809	12,926	13,043	13,153	13,268	13,382	13,495	13,606	13,731
Civilian labor force .....	8,013	8,172	8,252	8,400	8,501	8,528	8,724	8,889	8,914	9,007	9,119	9,212	9,321
Percent of population .....	65.2	65.9	66.0	66.2	66.4	66.0	66.9	67.6	67.2	67.3	67.6	67.7	67.9
Employed .....	7,166	7,278	7,418	7,581	7,763	7,830	7,981	8,176	8,127	8,286	8,409	8,546	8,568
Employment-population ratio <sup>2</sup> .....	58.3	58.7	59.3	59.7	60.6	60.6	61.2	62.2	61.3	61.9	62.3	62.8	62.4
Unemployed .....	847	894	834	819	738	698	743	713	787	721	709	666	752
Unemployment rate .....	10.6	10.9	10.1	9.8	8.7	8.2	8.5	8.0	8.8	8.0	7.8	7.2	8.1

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

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-45. Employed and unemployed full- and part-time workers by sex, and age, seasonally adjusted**

(In thousands)

Full- and part- time status, sex, and age	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>EMPLOYED</b>													
Full-time workers .....	90,142	90,899	91,267	92,009	92,576	93,336	93,886	94,527	95,069	95,345	95,866	96,723	97,102
Men, 16 years and over .....	54,510	54,744	54,945	55,388	55,532	55,910	56,164	56,452	56,838	56,948	57,028	57,537	57,801
Men, 20 years and over .....	53,105	53,386	53,609	54,026	54,244	54,501	54,755	55,035	55,372	55,460	55,545	56,122	56,300
Women, 16 years and over .....	35,633	36,135	36,357	36,611	37,046	37,449	37,729	38,014	38,271	38,453	38,852	39,120	39,327
Women, 20 years and over .....	34,542	35,123	35,351	35,560	35,979	36,331	36,602	36,922	37,178	37,318	37,769	38,085	38,251
Both sexes, 16 to 19 years .....	2,495	2,390	2,307	2,423	2,354	2,504	2,528	2,570	2,520	2,567	2,552	2,517	2,551
Part-time workers .....	19,098	19,030	19,175	19,246	19,603	19,449	19,632	19,670	19,549	19,771	20,021	20,208	20,121
Men, 16 years and over .....	6,224	6,174	6,286	6,264	6,387	6,346	6,440	6,412	6,399	6,515	6,499	6,504	6,528
Men, 20 years and over .....	4,288	4,185	4,285	4,285	4,362	4,337	4,393	4,410	4,372	4,459	4,471	4,499	4,566
Women, 16 years and over .....	12,862	12,896	12,895	12,949	13,212	13,143	13,194	13,219	13,153	13,293	13,522	13,667	13,597
Women, 20 years and over .....	10,798	10,763	10,731	10,851	11,012	10,926	11,026	11,048	10,949	11,053	11,283	11,439	11,386
Both sexes, 16 to 19 years .....	4,011	4,082	4,160	4,110	4,229	4,186	4,213	4,212	4,228	4,260	4,268	4,270	4,169
<b>UNEMPLOYED</b>													
Looking for full-time work .....	6,852	6,698	6,608	6,348	6,064	5,791	5,658	5,516	5,305	5,333	5,255	5,116	5,160
Men, 16 years and over .....	3,985	3,918	3,890	3,773	3,610	3,405	3,288	3,159	3,089	3,120	3,093	2,914	2,928
Men, 20 years and over .....	3,530	3,533	3,528	3,355	3,223	3,036	2,923	2,860	2,746	2,753	2,739	2,619	2,572
Women, 16 years and over .....	2,882	2,763	2,700	2,583	2,466	2,393	2,390	2,305	2,229	2,232	2,196	2,120	2,247
Women, 20 years and over .....	2,546	2,436	2,394	2,300	2,186	2,130	2,092	2,037	1,982	1,990	1,935	1,898	1,988
Both sexes, 16 to 19 years .....	776	730	687	693	655	625	642	620	577	590	582	598	600
Looking for part-time work .....	1,556	1,553	1,514	1,525	1,422	1,415	1,421	1,396	1,331	1,353	1,286	1,293	1,317
Men, 16 years and over .....	629	641	618	607	591	568	556	563	530	545	518	527	533
Men, 20 years and over .....	246	257	255	249	218	221	198	226	206	188	211	220	215
Women, 16 years and over .....	927	902	902	915	836	848	866	828	811	808	772	758	791
Women, 20 years and over .....	565	575	547	559	505	531	524	508	490	505	494	482	501
Both sexes, 16 to 19 years .....	745	721	712	717	699	663	699	662	635	661	580	591	600

NOTE: 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; unemployed persons are classified according to whether they are seeking full- or part-time jobs.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-46. Employed civilians by selected social and economic categories, seasonally adjusted**

(In thousands)

Category	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTIC</b>													
Total .....	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289
Married men, spouse present .....	39,613	39,698	39,878	40,036	40,087	40,316	40,611	40,471	40,435	40,514	40,465	40,979	40,964
Married women, spouse present .....	26,966	27,349	27,485	27,793	28,231	28,196	28,228	28,589	28,694	28,771	28,979	29,523	29,625
Women who maintain families .....	5,801	5,870	5,950	5,936	6,013	6,108	6,173	6,154	6,074	6,234	6,373	6,352	6,325
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,512	1,539	1,589	1,626	1,638	1,639	1,622	1,626	1,596	1,597	1,677	1,662	1,571
Self-employed workers .....	1,482	1,433	1,419	1,406	1,451	1,411	1,427	1,418	1,377	1,398	1,401	1,403	1,396
Unpaid family workers .....	166	168	170	147	162	149	150	137	156	148	150	159	126
Nonagricultural industries:													
Wage and salary workers .....	98,065	98,572	98,941	99,668	100,462	101,174	101,781	102,417	102,553	103,299	103,802	104,763	105,250
Government .....	16,315	16,464	16,357	16,526	16,722	16,901	17,047	16,998	17,002	17,096	17,350	17,362	17,224
Private industries .....	81,750	82,108	82,584	83,142	83,739	84,273	84,735	85,419	85,551	86,203	86,452	87,401	88,026
Private households .....	1,271	1,257	1,193	1,225	1,216	1,179	1,216	1,160	1,137	1,126	1,190	1,165	1,128
Other industries .....	80,479	80,851	81,391	81,917	82,523	83,094	83,519	84,259	84,414	85,077	85,262	86,236	86,898
Self-employed workers .....	7,723	7,984	8,081	8,170	8,144	8,210	8,274	8,326	8,640	8,536	8,567	8,626	8,586
Unpaid family workers .....	238	264	259	259	267	269	245	241	290	241	266	305	281
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,791	5,505	5,628	5,511	5,337	5,353	5,414	5,352	5,131	5,210	5,115	5,015	4,979
Slack work .....	2,573	2,457	2,491	2,421	2,339	2,388	2,387	2,402	2,292	2,351	2,349	2,279	2,329
Could only find part-time work .....	2,873	2,723	2,801	2,733	2,678	2,631	2,670	2,590	2,486	2,467	2,395	2,359	2,352
Voluntary part time .....	13,922	13,939	14,043	14,177	14,443	14,451	14,554	14,618	14,791	15,098	15,323	15,363	15,410
Nonagricultural industries:													
Part time for economic reasons .....	5,530	5,271	5,369	5,227	5,066	5,066	5,136	5,100	4,901	4,979	4,860	4,747	4,780
Slack work .....	2,425	2,306	2,340	2,230	2,156	2,206	2,210	2,245	2,150	2,202	2,196	2,099	2,179
Could only find part-time work .....	2,776	2,661	2,701	2,647	2,597	2,551	2,575	2,504	2,402	2,406	2,305	2,291	2,302
Voluntary part time .....	13,498	13,525	13,602	13,719	13,953	13,989	14,093	14,163	14,332	14,663	14,864	14,928	15,005

<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  
QUARTERLY AVERAGES**

**A-47. Employed civilians by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	109,257	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289
16 to 24 years .....	20,288	20,209	20,188	20,186	20,149	20,231	20,101	20,150	20,077	20,103	19,886	19,845	19,881
16 to 19 years .....	6,507	6,476	6,481	6,514	6,601	6,720	6,723	6,742	6,810	6,874	6,804	6,745	6,774
16 to 17 years .....	2,643	2,619	2,679	2,696	2,689	2,797	2,758	2,730	2,725	2,680	2,715	2,601	2,586
18 to 19 years .....	3,861	3,826	3,821	3,836	3,906	3,900	3,975	4,015	4,080	4,175	4,095	4,158	4,174
20 to 24 years .....	13,781	13,734	13,707	13,672	13,548	13,512	13,378	13,409	13,267	13,229	13,083	13,100	13,106
25 years and over .....	88,943	89,781	90,223	91,068	92,021	92,649	93,355	94,004	94,575	95,152	95,944	97,044	97,384
25 to 54 years .....	74,551	75,392	75,953	76,847	77,551	78,164	78,715	79,379	79,987	80,587	81,197	82,120	82,454
55 years and over .....	14,376	14,420	14,278	14,397	14,462	14,519	14,643	14,601	14,576	14,567	14,750	14,887	14,913
Men, 16 years and over .....	60,747	60,920	61,204	61,666	61,937	62,243	62,581	62,895	63,262	63,435	63,501	64,080	64,352
16 to 24 years .....	10,554	10,540	10,529	10,509	10,395	10,473	10,391	10,424	10,458	10,439	10,323	10,368	10,347
16 to 19 years .....	3,343	3,345	3,319	3,350	3,324	3,415	3,434	3,447	3,506	3,530	3,484	3,438	3,469
16 to 17 years .....	1,375	1,353	1,369	1,384	1,367	1,408	1,410	1,409	1,400	1,395	1,407	1,315	1,313
18 to 19 years .....	1,967	1,973	1,969	1,972	1,953	1,987	2,039	2,036	2,103	2,122	2,093	2,134	2,148
20 to 24 years .....	7,212	7,195	7,211	7,159	7,071	7,058	6,957	6,977	6,952	6,909	6,840	6,930	6,877
25 years and over .....	50,171	50,389	50,673	51,173	51,521	51,788	52,184	52,473	52,786	53,024	53,172	53,710	54,004
25 to 54 years .....	41,723	42,029	42,278	42,666	42,982	43,293	43,602	43,944	44,256	44,519	44,720	45,123	45,393
55 years and over .....	8,439	8,369	8,411	8,497	8,531	8,507	8,593	8,517	8,517	8,513	8,463	8,567	8,592
Women, 16 years and over .....	48,509	49,047	49,224	49,567	50,263	50,600	50,894	51,257	51,426	51,767	52,342	52,820	52,937
16 to 24 years .....	9,733	9,669	9,658	9,677	9,754	9,759	9,710	9,726	9,619	9,664	9,563	9,477	9,534
16 to 19 years .....	3,164	3,131	3,162	3,164	3,277	3,305	3,289	3,294	3,304	3,344	3,320	3,306	3,305
16 to 17 years .....	1,268	1,266	1,310	1,311	1,322	1,389	1,349	1,321	1,324	1,285	1,308	1,286	1,273
18 to 19 years .....	1,893	1,853	1,852	1,864	1,952	1,913	1,936	1,979	1,977	2,053	2,002	2,024	2,026
20 to 24 years .....	6,569	6,539	6,496	6,513	6,477	6,454	6,421	6,432	6,315	6,320	6,243	6,170	6,229
25 years and over .....	38,773	39,392	39,550	39,895	40,500	40,861	41,171	41,531	41,789	42,128	42,772	43,335	43,379
25 to 54 years .....	32,828	33,362	33,677	33,981	34,569	34,871	35,113	35,435	35,732	36,068	36,477	36,997	37,061
55 years and over .....	5,937	6,052	5,867	5,900	5,931	6,012	6,050	6,084	6,059	6,074	6,288	6,320	6,321

**A-48. Unemployed persons by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	8,439	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545	6,391	6,501
16 to 24 years .....	3,201	3,106	3,011	2,995	2,859	2,703	2,631	2,600	2,475	2,466	2,404	2,387	2,397
16 to 19 years .....	1,525	1,444	1,404	1,408	1,358	1,281	1,345	1,281	1,216	1,244	1,165	1,188	1,203
16 to 17 years .....	689	661	648	672	664	604	653	598	548	609	538	543	499
18 to 19 years .....	841	773	755	743	695	673	688	689	667	634	622	651	702
20 to 24 years .....	1,676	1,662	1,607	1,586	1,501	1,422	1,286	1,319	1,259	1,222	1,239	1,199	1,194
25 years and over .....	5,233	5,143	5,093	4,872	4,645	4,509	4,427	4,306	4,181	4,219	4,126	4,016	4,100
25 to 54 years .....	4,677	4,560	4,525	4,398	4,141	4,018	3,936	3,830	3,712	3,754	3,692	3,578	3,631
55 years and over .....	563	582	562	480	505	488	491	481	469	456	436	445	473
Men, 16 years and over .....	4,615	4,577	4,526	4,358	4,208	3,950	3,837	3,759	3,625	3,621	3,596	3,507	3,464
16 to 24 years .....	1,746	1,701	1,621	1,612	1,562	1,450	1,403	1,397	1,325	1,337	1,310	1,308	1,289
16 to 19 years .....	827	788	741	767	753	695	714	685	660	683	643	680	666
16 to 17 years .....	363	363	334	363	372	328	348	320	297	325	303	302	299
18 to 19 years .....	470	411	405	413	386	358	362	375	365	350	336	388	368
20 to 24 years .....	919	914	880	846	810	755	689	712	665	654	667	627	623
25 years and over .....	2,864	2,888	2,891	2,754	2,638	2,511	2,419	2,371	2,292	2,293	2,274	2,209	2,167
25 to 54 years .....	2,524	2,520	2,521	2,451	2,315	2,206	2,124	2,066	2,002	2,013	1,998	1,940	1,896
55 years and over .....	343	368	363	306	322	305	294	309	288	277	276	272	270
Women, 16 years and over .....	3,824	3,661	3,594	3,494	3,307	3,253	3,241	3,134	3,039	3,057	2,949	2,884	3,037
16 to 24 years .....	1,455	1,405	1,390	1,382	1,296	1,253	1,228	1,203	1,150	1,129	1,094	1,079	1,109
16 to 19 years .....	698	656	663	642	605	586	632	596	556	561	522	508	538
16 to 17 years .....	325	298	314	308	292	276	305	278	250	284	235	242	200
18 to 19 years .....	371	362	350	331	310	315	327	314	302	284	286	263	333
20 to 24 years .....	757	749	727	741	691	667	597	607	594	568	572	571	571
25 years and over .....	2,369	2,255	2,203	2,118	2,008	1,998	2,008	1,935	1,889	1,926	1,852	1,807	1,934
25 to 54 years .....	2,153	2,040	2,003	1,947	1,826	1,811	1,812	1,764	1,710	1,742	1,694	1,638	1,734
55 years and over .....	220	213	199	174	183	183	197	172	182	179	161	173	203

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-49. Unemployment rates by sex and age, seasonally adjusted**

(Civilian workers)

Sex and age	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3	5.2	5.3
16 to 24 years .....	13.6	13.3	13.0	12.9	12.4	11.8	11.6	11.4	11.0	10.9	10.8	10.7	10.8
16 to 19 years .....	19.0	18.2	17.8	17.6	17.1	16.0	16.7	16.0	15.2	15.3	14.6	15.0	15.1
16 to 17 years .....	20.7	20.2	19.5	19.9	19.8	17.8	19.1	18.0	16.7	18.5	16.5	17.3	16.2
18 to 19 years .....	17.9	16.8	16.5	16.2	15.1	14.7	14.8	14.7	14.0	13.2	13.2	13.5	14.4
20 to 24 years .....	10.8	10.8	10.5	10.4	10.0	9.5	8.8	9.0	8.7	8.5	8.7	8.4	8.3
25 years and over .....	5.6	5.4	5.3	5.1	4.8	4.6	4.5	4.4	4.2	4.2	4.1	4.0	4.0
25 to 54 years .....	5.9	5.7	5.6	5.4	5.1	4.9	4.8	4.6	4.4	4.5	4.3	4.2	4.2
55 years and over .....	3.8	3.9	3.8	3.2	3.4	3.2	3.2	3.2	3.1	3.0	2.9	2.9	3.1
Men, 16 years and over .....	7.1	7.0	6.9	6.6	6.4	6.0	5.8	5.6	5.4	5.4	5.4	5.2	5.1
16 to 24 years .....	14.2	13.9	13.3	13.3	13.1	12.2	11.9	11.8	11.2	11.4	11.3	11.2	11.1
16 to 19 years .....	19.8	19.1	18.3	18.6	18.5	16.9	17.2	16.6	15.8	16.2	15.6	16.5	16.1
16 to 17 years .....	20.9	21.2	19.6	20.8	21.4	18.9	19.8	18.5	17.5	18.9	17.7	18.7	18.6
18 to 19 years .....	19.3	17.2	17.1	17.3	16.5	15.3	15.1	15.6	14.8	14.2	13.8	15.4	14.6
20 to 24 years .....	11.3	11.3	10.9	10.6	10.3	9.7	9.0	9.3	8.7	8.6	8.9	8.3	8.3
25 years and over .....	5.4	5.4	5.4	5.1	4.9	4.6	4.4	4.3	4.2	4.1	4.1	4.0	3.9
25 to 54 years .....	5.7	5.7	5.6	5.4	5.1	4.8	4.6	4.5	4.3	4.3	4.3	4.1	4.0
55 years and over .....	3.9	4.2	4.1	3.5	3.6	3.5	3.3	3.5	3.3	3.2	3.2	3.1	3.0
Women, 16 years and over .....	7.3	6.9	6.8	6.6	6.2	6.0	6.0	5.8	5.6	5.6	5.3	5.2	5.4
16 to 24 years .....	13.0	12.7	12.6	12.5	11.7	11.4	11.2	11.0	10.7	10.5	10.3	10.2	10.4
16 to 19 years .....	18.1	17.3	17.3	16.9	15.6	15.1	16.1	15.3	14.4	14.4	13.6	13.3	14.0
16 to 17 years .....	20.4	19.1	19.3	19.0	18.1	16.6	18.4	17.4	15.9	18.1	15.3	15.8	13.6
18 to 19 years .....	16.4	16.3	15.9	15.1	13.7	14.1	14.4	13.7	13.2	12.2	12.5	11.5	14.1
20 to 24 years .....	10.3	10.3	10.1	10.2	9.6	9.4	8.5	8.6	8.6	8.2	8.4	8.5	8.4
25 years and over .....	5.8	5.4	5.3	5.0	4.7	4.7	4.6	4.5	4.3	4.4	4.2	4.0	4.3
25 to 54 years .....	6.2	5.8	5.6	5.4	5.0	4.9	4.9	4.7	4.6	4.6	4.4	4.2	4.5
55 years and over .....	3.6	3.4	3.3	2.9	3.0	2.9	3.2	2.7	2.9	2.9	2.5	2.7	3.1

**A-50. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3	5.2	5.3
Men, 20 years and over .....	6.2	6.2	6.1	5.8	5.6	5.2	5.0	4.9	4.7	4.7	4.7	4.5	4.4
Women, 20 years and over .....	6.4	6.1	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9	4.7	4.6	4.8
Both sexes, 16 to 19 years .....	19.0	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6	15.0	15.1
White .....	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.7	4.8	4.6	4.4	4.5
Black and other .....	13.4	13.1	12.7	12.4	11.7	11.3	11.0	11.1	10.6	9.9	9.9	10.3	9.8
Black .....	14.7	14.7	14.3	13.9	13.1	12.6	12.3	12.4	11.9	11.2	11.3	11.6	11.2
Hispanic origin .....	10.6	10.9	10.1	9.8	8.7	8.2	8.5	8.0	8.8	8.0	7.8	7.2	8.1
Married men, spouse present .....	4.4	4.4	4.4	4.1	4.1	3.8	3.5	3.4	3.2	3.2	3.2	3.0	3.0
Married women, spouse present .....	5.4	5.1	4.9	4.6	4.3	4.2	4.2	4.0	3.9	3.9	3.7	3.5	3.9
Women who maintain families .....	9.8	9.8	9.6	9.7	9.4	9.1	8.6	8.2	8.2	8.0	7.9	8.0	7.9
Full-time workers .....	6.8	6.6	6.5	6.2	5.9	5.8	5.5	5.3	5.1	5.1	5.0	4.9	4.9
Part-time workers .....	9.3	9.2	9.0	9.0	8.2	8.2	8.2	8.0	7.6	7.6	7.2	7.1	7.3
Unemployed 15 weeks and over <sup>1</sup> .....	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1
Labor force time lost <sup>2</sup> .....	8.1	7.9	7.7	7.4	7.2	6.8	6.7	6.6	6.3	6.4	6.2	6.0	6.0
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	7.2	7.0	6.9	6.6	6.3	6.0	5.8	5.7	5.5	5.5	5.4	5.3	5.3
Goods-producing industries .....	8.6	8.5	8.9	8.0	7.5	7.0	6.7	6.7	6.4	6.5	6.4	6.1	6.0
Mining .....	13.6	15.9	14.7	12.3	10.8	8.2	7.8	7.9	8.1	7.0	8.5	7.0	4.6
Construction .....	12.6	12.9	14.1	12.1	12.0	11.5	10.9	11.1	10.5	10.2	10.3	9.9	9.7
Manufacturing .....	7.2	7.0	7.2	6.7	6.1	5.7	5.4	5.4	5.2	5.4	5.2	5.0	5.0
Durable goods .....	7.1	6.7	7.0	6.5	6.0	5.6	5.1	5.4	4.8	5.0	5.0	4.7	4.6
Nondurable goods .....	7.4	7.4	7.5	6.9	6.3	5.8	6.0	5.5	5.8	5.9	5.5	5.4	5.6
Service-producing industries .....	6.5	6.3	6.0	5.9	5.7	5.5	5.4	5.2	5.0	5.0	5.0	4.9	5.0
Transportation and public utilities .....	5.3	5.1	4.7	4.5	4.6	4.3	4.4	3.9	4.0	3.7	3.8	3.9	4.1
Wholesale and retail trade .....	7.9	7.6	7.3	7.3	7.1	6.7	6.5	6.4	6.0	6.2	6.2	5.8	5.8
Finance and service industries .....	5.7	5.6	5.2	5.2	4.9	4.8	4.7	4.6	4.5	4.4	4.4	4.4	4.6
Government workers .....	3.6	3.3	3.6	3.6	3.5	3.4	3.3	2.9	2.9	2.9	2.6	2.7	2.9
Agricultural wage and salary workers .....	14.4	12.3	11.2	11.1	9.2	9.9	11.2	11.0	11.1	10.9	9.4	9.1	10.6

<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.

**A-51. Unemployed persons by duration of unemployment, seasonally adjusted**

(Numbers in thousands)

Weeks of unemployment	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>DURATION</b>													
Less than 5 weeks .....	3,542	3,423	3,362	3,382	3,208	3,193	3,205	3,091	3,086	3,086	3,068	3,161	3,147
5 to 14 weeks .....	2,684	2,521	2,543	2,409	2,185	2,102	2,060	2,122	1,982	1,964	1,936	1,922	2,016
15 weeks and over .....	2,227	2,288	2,204	2,109	2,085	1,892	1,804	1,718	1,580	1,608	1,517	1,375	1,332
15 to 26 weeks .....	1,022	1,081	1,022	979	1,002	891	872	844	765	811	778	690	683
27 weeks and over .....	1,204	1,207	1,182	1,131	1,083	1,001	932	874	815	797	739	686	649
Average (mean) duration, in weeks .....	14.9	15.4	15.1	14.8	14.9	14.2	14.1	14.0	13.5	13.5	12.9	12.4	11.9
Median duration, in weeks .....	6.9	7.1	7.1	6.7	6.7	6.3	6.1	6.3	5.9	5.9	5.7	5.5	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 .....	41.9	41.6	41.5	42.8	42.9	44.4	45.3	44.6	46.4	46.4	47.0	48.9	48.4
5 to 14 weeks .....	31.8	30.6	31.4	30.5	29.2	29.2	29.1	30.6	29.8	29.5	29.7	29.8	31.0
15 weeks and over .....	26.3	27.8	27.2	26.7	27.9	26.3	25.5	24.8	23.8	24.1	23.3	21.3	20.5
15 to 26 weeks .....	12.1	13.1	12.6	12.4	13.4	12.4	12.3	12.2	11.5	12.2	11.9	10.7	10.5
27 weeks and over .....	14.2	14.7	14.6	14.3	14.5	13.9	13.2	12.6	12.3	12.0	11.3	10.6	10.0

**A-52. Unemployed persons by reason for unemployment, seasonally adjusted**

(Numbers in thousands)

Reasons for unemployment	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,167	4,005	3,951	3,847	3,634	3,409	3,313	3,165	3,080	3,092	3,016	2,942	2,824
On layoff .....	1,105	1,058	1,066	1,018	946	871	898	877	837	855	826	803	815
Other job losers .....	3,062	2,946	2,885	2,829	2,688	2,538	2,415	2,288	2,243	2,237	2,190	2,140	2,010
Job leavers .....	1,043	1,009	1,037	968	953	991	949	1,025	960	965	982	952	1,038
Reentrants .....	2,180	2,181	2,103	2,059	1,998	1,926	1,914	1,872	1,785	1,831	1,746	1,768	1,933
New entrants .....	1,056	1,051	1,003	994	921	873	893	865	832	787	782	753	699
<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 .....	49.3	48.6	48.8	48.9	48.4	47.4	46.9	45.7	46.3	46.3	46.2	45.9	43.5
On layoff .....	13.1	12.8	13.2	12.9	12.6	12.1	12.7	12.7	12.6	12.8	12.7	12.5	12.5
Other job losers .....	36.3	35.7	35.6	35.9	35.8	35.3	34.2	33.0	33.7	33.5	33.6	33.4	30.9
Job leavers .....	12.4	12.2	12.8	12.3	12.7	13.8	13.4	14.8	14.4	14.5	15.0	14.8	16.0
Reentrants .....	25.8	26.4	26.0	26.2	26.6	26.8	27.1	27.0	26.8	27.4	26.8	27.6	29.8
New entrants .....	12.5	12.7	12.4	12.6	12.3	12.1	12.6	12.5	12.5	11.8	12.0	11.7	10.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.5	3.4	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.5	2.5	2.4	2.3
Job leavers .....	.9	.9	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants .....	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.6
New entrants .....	.9	.9	.8	.8	.8	.7	.7	.7	.7	.6	.6	.6	.6

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-53. Persons not in the labor force by reason, sex, and race, seasonally adjusted**

(In thousands)

Reason, sex, and race	1986			1987				1988				1989	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Total not in labor force .....	62,626	62,630	62,817	62,917	62,813	62,970	62,915	62,922	63,037	62,959	62,865	62,482	62,388
Do not want a job now .....	56,846	56,695	56,987	57,062	57,048	57,324	57,357	57,490	57,630	58,202	57,491	57,310	57,046
Current activity:													
Going to school .....	6,475	6,121	6,343	6,423	6,388	6,317	6,436	6,350	6,329	7,022	6,229	6,365	6,292
Ill health, disability .....	4,064	4,088	3,907	4,147	4,207	4,431	4,397	4,292	4,482	4,453	4,730	4,528	4,782
Keeping house .....	26,529	26,120	26,069	26,205	25,553	25,563	25,578	25,304	25,339	25,331	24,588	24,550	24,062
Retired .....	15,319	15,840	16,025	15,870	16,259	16,341	16,456	16,869	16,797	16,825	17,251	17,179	17,407
Other activity .....	4,458	4,525	4,643	4,416	4,641	4,672	4,490	4,675	4,683	4,571	4,693	4,688	4,503
Want a job now .....	5,856	5,931	5,848	5,775	5,885	5,788	5,455	5,484	5,318	5,276	5,418	5,313	5,331
Reason not looking:													
School attendance .....	1,381	1,511	1,415	1,364	1,479	1,516	1,371	1,327	1,286	1,387	1,412	1,279	1,274
Ill health, disability .....	865	905	769	854	906	838	849	849	832	794	750	910	965
Home responsibilities .....	1,297	1,200	1,357	1,240	1,326	1,265	1,237	1,193	1,209	1,128	1,145	1,177	1,151
Think cannot get a job .....	1,130	1,160	1,150	1,107	1,053	1,026	913	990	914	941	951	855	869
Job-market factors .....	776	753	828	735	706	652	587	667	600	599	597	562	519
Personal factors .....	354	407	322	373	347	374	326	323	314	341	354	293	350
Other reasons <sup>1</sup> .....	1,183	1,155	1,158	1,209	1,122	1,142	1,085	1,125	1,076	1,026	1,160	1,093	1,072
<b>Men</b>													
Total not in labor force .....	20,306	20,426	20,453	20,494	20,647	20,840	20,839	20,866	20,858	20,926	21,084	20,861	20,839
Do not want a job now .....	18,418	18,270	18,424	18,478	18,623	18,869	18,868	19,012	18,888	19,100	19,062	19,085	18,929
Want a job now .....	1,952	2,066	2,000	1,996	2,081	2,044	1,902	1,966	1,889	1,920	1,985	1,946	1,932
Reason not looking:													
School attendance .....	656	793	666	680	753	742	719	654	677	669	716	632	639
Ill health, disability .....	456	440	361	415	464	407	417	410	367	379	351	420	471
Think cannot get a job .....	410	431	499	452	437	445	364	440	414	447	446	410	410
Other reasons <sup>1</sup> .....	431	401	473	450	427	449	403	462	431	425	473	484	412
<b>Women</b>													
Total not in labor force .....	42,320	42,204	42,365	42,423	42,166	42,130	42,076	42,056	42,180	42,035	41,781	41,621	41,549
Do not want a job now .....	38,428	38,425	38,563	38,583	38,425	38,455	38,488	38,478	38,742	39,103	38,428	38,225	38,118
Want a job now .....	3,904	3,865	3,848	3,779	3,804	3,744	3,553	3,518	3,429	3,356	3,433	3,367	3,399
Reason not looking:													
School attendance .....	725	717	749	685	726	774	652	673	609	718	697	646	635
Ill health, disability .....	409	466	408	439	442	431	432	439	466	415	399	491	494
Home responsibilities .....	1,297	1,200	1,357	1,240	1,326	1,265	1,237	1,193	1,209	1,128	1,145	1,177	1,151
Think cannot get a job .....	720	729	651	655	615	581	549	551	500	494	505	445	460
Other reasons <sup>1</sup> .....	752	753	684	760	695	693	682	663	645	601	688	609	660
<b>White</b>													
Total not in labor force .....	53,625	53,474	53,569	53,700	53,582	53,759	53,690	53,517	53,493	53,447	53,325	52,980	52,888
Do not want a job now .....	49,412	49,185	49,353	49,445	49,291	49,496	49,594	49,547	49,651	49,728	49,381	49,280	49,060
Want a job now .....	4,329	4,287	4,209	4,187	4,362	4,277	4,012	4,012	3,886	3,691	3,854	3,844	3,835
Reason not looking:													
School attendance .....	974	1,013	955	955	1,108	1,058	962	954	917	908	911	885	906
Ill health, disability .....	610	630	542	615	687	645	651	640	639	556	511	704	684
Home responsibilities .....	1,004	900	982	924	954	950	901	848	846	806	828	793	835
Think cannot get a job .....	758	827	801	745	718	679	611	670	596	600	676	570	527
Other reasons <sup>1</sup> .....	984	916	929	948	895	945	887	900	888	821	928	892	882
<b>Black</b>													
Total not in labor force .....	7,192	7,428	7,411	7,382	7,427	7,322	7,314	7,431	7,561	7,497	7,471	7,445	7,542
Do not want a job now .....	5,908	6,022	6,036	5,976	6,151	6,083	6,090	6,115	6,340	6,227	6,182	6,134	6,303
Want a job now .....	1,327	1,390	1,394	1,388	1,323	1,207	1,211	1,301	1,267	1,241	1,259	1,315	1,325
Reason not looking:													
School attendance .....	350	411	373	344	326	322	335	346	327	316	374	335	316
Ill health, disability .....	218	240	197	227	196	158	173	197	187	217	206	206	261
Home responsibilities .....	269	271	304	290	314	279	299	308	315	270	272	343	266
Think cannot get a job .....	307	271	297	327	314	294	244	264	276	290	210	253	323
Other reasons <sup>1</sup> .....	183	197	223	201	173	154	161	185	162	147	197	178	160

<sup>1</sup> Includes small number of men not looking for work because of "home responsibilities."



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-54. Persons not in the labor force by reason, sex, and age**

(In thousands)

Reason and sex	Total		Age							
	II 1988	II 1989	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>TOTAL</b>										
Total not in labor force .....	63,034	62,398	6,413	6,145	3,950	3,782	21,279	20,930	31,392	31,541
Do not want a job now .....	57,444	56,811	4,930	4,754	3,122	2,980	18,588	18,062	30,800	31,015
Current activity:										
Going to school .....	5,831	5,770	3,841	3,732	1,221	1,264	747	745	20	29
Ill, disabled .....	4,587	4,895	58	28	168	88	2,246	2,512	2,113	2,266
Keeping house .....	25,522	24,217	319	312	1,251	1,243	12,492	11,737	11,461	10,925
Retired .....	16,889	17,501	-	-	-	-	433	468	16,454	17,036
Other activity .....	4,614	4,428	712	682	482	385	2,670	2,600	752	759
Want a job now .....	5,590	5,584	1,483	1,392	827	801	2,689	2,866	593	524
Reason for not looking:										
School attendance .....	1,698	1,658	1,132	1,066	331	294	228	291	7	8
Ill health, disability .....	842	969	27	15	55	44	564	735	197	175
Home responsibilities .....	1,175	1,120	61	58	201	187	857	823	57	51
Think cannot get a job .....	842	798	99	95	108	116	472	452	164	135
Job-market factors .....	561	488	48	52	80	70	373	316	60	49
Personal factors .....	281	310	50	42	28	46	99	135	104	86
Other reasons <sup>1</sup> .....	1,032	1,039	164	158	132	160	568	565	168	155
<b>Men</b>										
Total not in labor force .....	20,729	20,707	3,068	2,929	1,297	1,246	4,224	4,274	12,140	12,258
Do not want a job now .....	18,636	18,565	2,272	2,181	1,006	916	3,486	3,431	11,876	12,039
Current activity:										
Going to school .....	2,760	2,808	1,832	1,836	636	673	294	291	1	8
Ill, disabled .....	2,382	2,457	32	16	103	53	1,310	1,366	936	1,023
Keeping house .....	413	372	18	20	16	21	138	107	240	225
Retired .....	10,501	10,679	-	-	-	-	326	348	10,176	10,332
Other activity .....	2,580	2,248	390	309	251	169	1,418	1,319	523	451
Want a job now .....	2,093	2,141	797	749	292	330	740	845	263	220
Reason for not looking:										
School attendance .....	914	869	658	600	178	165	73	99	3	5
Ill health, disability .....	376	482	11	8	25	26	251	377	90	71
Think cannot get a job .....	379	374	66	56	39	73	200	196	74	51
Other reasons <sup>1</sup> .....	424	417	62	85	50	66	216	173	96	93
<b>Women</b>										
Total not in labor force .....	42,305	41,691	3,345	3,216	2,653	2,536	17,055	16,656	19,252	19,283
Do not want a job now .....	38,808	38,246	2,659	2,572	2,118	2,067	15,105	14,634	18,923	18,978
Current activity:										
Going to school .....	3,071	2,962	2,010	1,895	586	591	456	454	19	21
Ill, disabled .....	2,205	2,438	27	12	65	37	937	1,146	1,177	1,243
Keeping house .....	25,110	23,845	301	292	1,236	1,222	12,352	11,630	11,220	10,702
Retired .....	6,388	6,822	-	-	-	-	107	122	6,279	6,704
Other activity .....	2,034	2,179	321	373	231	217	1,253	1,282	228	308
Want a job now .....	3,498	3,442	685	643	535	471	1,948	2,022	330	305
Reason not looking:										
School attendance .....	784	788	474	466	153	129	154	191	4	2
Ill health, disability .....	467	488	16	7	30	17	314	359	108	104
Home responsibilities .....	1,175	1,120	61	58	201	187	857	823	57	51
Think cannot get a job .....	463	424	32	39	69	43	271	257	89	86
Other reasons .....	609	622	102	73	82	95	352	392	72	62

<sup>1</sup> Includes small number of men not looking for work because of "home responsibilities."

force totals because of differences in the weighting patterns used in aggregating these data.

NOTE: Detail in tables A-54 and A-55 may not add to not-in-labor-

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-55. Persons not in the labor force by reason, race, Hispanic origin, age, and sex**

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	 1988	 1989	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			 1988	 1989	 1988	 1989	 1988	 1989	 1988	 1989	 1988	 1989
<b>WHITE</b>												
Total not in labor force .....	53,415	52,798	7,702	7,463	17,594	17,210	28,120	28,125	17,373	17,270	36,041	35,527
Do not want a job now .....	49,344	48,751	6,047	5,874	15,658	15,177	27,641	27,696	15,804	15,708	33,542	33,042
Current activity:												
Going to school .....	4,328	4,401	3,797	3,794	511	580	19	28	2,074	2,116	2,254	2,285
Ill, disabled .....	3,560	3,817	156	87	1,730	1,918	1,672	1,810	1,906	1,963	1,654	1,854
Keeping house .....	22,629	21,300	1,213	1,200	10,932	10,192	10,485	9,906	325	294	22,304	21,006
Retired .....	15,198	15,686	-	-	398	417	14,798	15,269	9,523	9,563	5,675	6,123
Other activity .....	3,631	3,546	881	793	2,087	2,070	667	683	1,976	1,772	1,655	1,774
Want a job now .....	4,071	4,048	1,653	1,588	1,937	2,030	481	427	1,570	1,562	2,500	2,485
Reason for not looking:												
School attendance .....	1,243	1,240	1,079	1,027	157	205	7	6	660	657	583	583
Ill health, disability .....	636	681	67	34	413	518	155	129	309	336	326	345
Home responsibilities .....	795	787	161	151	594	596	39	40	-	-	795	787
Think cannot get a job .....	554	485	107	114	320	257	129	116	260	206	294	279
Other reasons <sup>1</sup> .....	843	854	239	262	453	454	151	136	341	363	502	491
<b>BLACK</b>												
Total not in labor force .....	7,580	7,569	2,118	1,929	2,730	2,820	2,733	2,821	2,656	2,726	4,924	4,843
Do not want a job now .....	6,288	6,266	1,539	1,417	2,122	2,112	2,628	2,740	2,237	2,242	4,051	4,026
Current activity:												
Going to school .....	1,006	925	913	876	92	50	-	-	447	448	559	477
Ill, disabled .....	929	967	61	30	452	520	417	417	421	450	508	518
Keeping house .....	2,119	2,173	304	295	1,069	1,058	747	820	64	58	2,055	2,116
Retired .....	1,453	1,493	-	-	29	42	1,425	1,452	828	917	626	576
Other activity .....	781	708	261	216	480	442	39	51	477	369	303	339
Want a job now .....	1,292	1,302	576	514	606	708	107	80	418	485	874	818
Reason for not looking:												
School attendance .....	373	340	331	269	43	69	-	2	207	167	166	173
Ill health, disability .....	200	254	14	25	137	193	47	36	60	126	140	128
Home responsibilities .....	336	284	96	82	224	192	14	10	-	-	336	284
Think cannot get a job .....	231	274	86	90	111	171	34	13	89	145	142	130
Other reasons <sup>1</sup> .....	152	150	49	48	91	83	12	19	62	147	90	103
<b>HISPANIC ORIGIN</b>												
Total not in labor force .....	4,360	4,415	1,114	1,138	2,119	2,098	1,128	1,179	1,214	1,248	3,146	3,167
Do not want a job now .....	3,786	3,870	906	919	1,774	1,779	1,107	1,165	1,029	1,087	2,757	2,782
Current activity:												
Going to school .....	542	575	477	504	66	64	-	5	256	259	286	315
Ill, disabled .....	331	400	42	7	183	266	106	125	187	235	143	165
Keeping house .....	2,037	2,026	280	304	1,323	1,227	433	494	63	60	1,974	1,966
Retired .....	560	538	-	-	7	23	554	515	343	353	218	185
Other activity .....	316	331	107	104	195	199	14	26	180	180	136	151
Want a job now .....	574	545	207	217	345	318	22	13	185	162	390	385
Reason for not looking:												
School attendance .....	170	146	134	118	35	28	-	-	85	80	85	67
Ill health, disability .....	92	54	10	10	71	32	11	13	28	26	64	28
Home responsibilities .....	134	142	14	27	116	116	4	-	-	-	134	142
Think cannot get a job .....	101	93	17	41	78	52	7	-	43	24	58	69
Other reasons <sup>1</sup> .....	77	110	32	21	45	90	-	-	29	32	49	79

<sup>1</sup> Includes small number of men not looking for work because of "home responsibilities."

NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-56. Persons not in the labor force who desire work but think they cannot get jobs by reason, sex, age, race, and Hispanic origin**

(In thousands)

Reason and sex	2nd Quarter 1989							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
<b>TOTAL</b>								
Personal factors:								
Employers think too young or old .....	95	13	1	14	68	74	14	-
Lacks education or training .....	144	20	35	73	16	79	62	22
Other personal handicap .....	71	9	10	48	2	51	21	13
Job-market factors:								
Could not find work .....	269	39	45	166	19	144	111	44
Thinks no job available .....	219	13	25	150	30	138	66	14
<b>Men</b>								
Personal factors:								
Employers think too young or old .....	46	10	-	4	33	35	11	-
Lacks education or training .....	64	10	17	37	-	28	32	-
Other personal handicap .....	41	6	4	31	-	28	13	3
Job-market factors:								
Could not find work .....	131	19	33	71	8	70	54	20
Thinks no job available .....	92	10	20	53	10	44	34	1
<b>Women</b>								
Personal factors:								
Employers think too young or old .....	49	3	1	10	35	39	4	-
Lacks education or training .....	80	10	18	36	16	51	30	22
Other personal handicap .....	30	3	6	19	2	23	8	10
Job-market factors:								
Could not find work .....	139	20	12	96	12	74	57	24
Thinks no job available .....	126	2	6	97	21	94	32	13

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-57. Work-seeking intentions of persons not in the labor force and work history of those who intend to seek work within the next 12 months by sex, age, and race**

(In thousands)

Work-seeking intentions, work history, and sex	Total		Age						Race			
	II 1988	II 1989	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>TOTAL</b>												
Do not intend to seek work .....	54,717	54,078	6,240	5,901	17,608	17,177	30,869	31,000	47,017	46,439	5,997	5,974
Intend to seek work in the next 12 months .....	8,316	8,319	4,122	4,025	3,670	3,752	524	541	6,397	6,358	1,583	1,596
Never worked .....	1,582	1,447	1,473	1,242	111	195	-	9	1,065	960	434	377
Last worked over 5 years ago .....	1,114	1,081	69	65	850	834	194	182	831	767	237	287
Last worked 1 to 5 years ago .....	1,752	1,851	438	508	1,142	1,176	173	166	1,271	1,408	400	358
Worked during previous 12 months .....	3,869	3,940	2,143	2,209	1,568	1,547	157	184	3,231	3,222	513	574
<b>Men</b>												
Do not intend to seek work .....	17,729	17,620	2,486	2,278	3,329	3,311	11,914	12,030	15,027	14,907	2,122	2,133
Intend to seek work in the next 12 months .....	2,999	3,086	1,879	1,896	895	962	225	228	2,346	2,363	534	593
Never worked .....	708	658	695	623	12	34	-	1	472	428	211	192
Last worked over 5 years ago .....	223	219	26	18	134	140	65	61	178	142	30	71
Last worked 1 to 5 years ago .....	534	585	153	183	294	314	86	89	420	443	90	106
Worked during previous 12 months .....	1,535	1,624	1,005	1,070	456	475	75	78	1,276	1,349	203	224
<b>Women</b>												
Do not intend to seek work .....	36,988	36,458	3,753	3,621	14,281	13,865	18,954	18,970	31,990	31,532	3,875	3,840
Intend to seek work in the next 12 months .....	5,317	5,233	2,244	2,131	2,773	2,790	299	313	4,051	3,995	1,049	1,003
Never worked .....	874	788	778	619	98	162	-	9	593	532	224	185
Last worked over 5 years ago .....	890	862	43	48	719	694	129	121	653	625	206	216
Last worked 1 to 5 years ago .....	1,219	1,266	286	326	845	863	86	78	851	965	310	251
Worked during previous 12 months .....	2,333	2,316	1,138	1,139	1,112	1,073	84	105	1,955	1,873	310	350

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-58. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin**

(Numbers in thousands)

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	1988	1989	1988	1989	1988	1989	1988	1989
<b>TOTAL</b>								
Civilian noninstitutional population .....	184,389	186,178	158,048	159,198	20,651	20,985	13,268	13,731
Civilian labor force .....	121,355	123,780	104,633	106,401	13,071	13,415	8,908	9,316
Percent of population .....	65.8	66.5	66.2	66.8	63.3	63.9	67.1	67.8
Employed .....	114,778	117,368	99,875	101,741	11,477	11,868	8,131	8,571
Agriculture .....	3,343	3,298	3,101	3,102	181	147	380	409
Nonagricultural industries .....	111,435	114,070	96,774	98,639	11,296	11,721	7,751	8,161
Unemployed .....	6,577	6,412	4,758	4,660	1,594	1,547	777	745
Unemployment rate .....	5.4	5.2	4.5	4.4	12.2	11.5	8.7	8.0
Not in labor force .....	63,034	62,398	53,415	52,798	7,580	7,569	4,360	4,415
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	87,745	88,655	75,778	76,395	9,272	9,423	6,575	6,794
Civilian labor force .....	67,016	67,948	58,404	59,124	6,616	6,696	5,361	5,546
Percent of population .....	76.4	76.6	77.1	77.4	71.4	71.1	81.5	81.6
Employed .....	63,445	64,538	55,763	56,613	5,815	5,908	4,903	5,159
Agriculture .....	2,619	2,602	2,406	2,441	161	122	322	373
Nonagricultural industries .....	60,826	61,936	53,358	54,172	5,654	5,785	4,581	4,786
Unemployed .....	3,571	3,411	2,641	2,511	801	789	458	387
Unemployment rate .....	5.3	5.0	4.5	4.2	12.1	11.8	8.5	7.0
Not in labor force .....	20,729	20,707	17,373	17,270	2,656	2,726	1,214	1,248
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	80,418	81,510	69,789	70,560	8,197	8,351	5,893	6,094
Civilian labor force .....	62,757	63,732	54,739	55,486	6,131	6,209	4,979	5,143
Percent of population .....	78.0	78.2	78.4	78.6	74.8	74.4	84.5	84.4
Employed .....	59,866	61,006	52,605	53,474	5,483	5,595	4,621	4,841
Agriculture .....	2,344	2,367	2,144	2,216	151	114	291	346
Nonagricultural industries .....	57,523	58,639	50,461	51,259	5,333	5,481	4,330	4,495
Unemployed .....	2,891	2,726	2,135	2,011	648	615	358	302
Unemployment rate .....	4.6	4.3	3.9	3.6	10.6	9.9	7.2	5.9
Not in labor force .....	17,661	17,778	15,050	15,074	2,065	2,141	914	951
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	96,644	97,523	82,270	82,804	11,380	11,562	6,693	6,937
Civilian labor force .....	54,339	55,832	46,228	47,277	6,455	6,719	3,547	3,770
Percent of population .....	56.2	57.2	56.2	57.1	56.7	58.1	53.0	54.3
Employed .....	51,333	52,831	44,111	45,128	5,662	5,960	3,229	3,412
Agriculture .....	724	696	695	661	20	25	58	36
Nonagricultural industries .....	50,609	52,135	43,416	44,467	5,642	5,936	3,170	3,376
Unemployed .....	3,006	3,001	2,117	2,149	793	758	318	358
Unemployment rate .....	5.5	5.4	4.6	4.5	12.3	11.3	9.0	9.5
Not in labor force .....	42,305	41,691	36,041	35,527	4,924	4,843	3,146	3,167
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	89,397	90,425	76,382	77,060	10,274	10,460	6,023	6,250
Civilian labor force .....	50,437	51,951	42,811	43,947	6,055	6,270	3,238	3,490
Percent of population .....	56.4	57.5	56.0	57.0	58.9	59.9	53.8	55.8
Employed .....	48,051	49,551	41,153	42,227	5,410	5,670	3,005	3,198
Agriculture .....	662	651	636	616	16	24	57	32
Nonagricultural industries .....	47,389	48,900	40,517	41,611	5,394	5,646	2,948	3,165
Unemployed .....	2,386	2,400	1,658	1,720	645	600	233	292
Unemployment rate .....	4.7	4.6	3.9	3.9	10.7	9.6	7.2	8.4
Not in labor force .....	38,960	38,475	33,571	33,114	4,219	4,190	2,785	2,760
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,574	14,243	11,877	11,578	2,180	2,174	1,352	1,387
Civilian labor force .....	8,161	8,098	7,082	6,968	885	936	691	683
Percent of population .....	56.0	56.9	59.6	60.2	40.6	43.1	51.1	49.2
Employed .....	6,861	6,812	6,116	6,040	583	603	506	531
Agriculture .....	338	281	320	270	14	9	33	31
Nonagricultural industries .....	6,523	6,531	5,796	5,770	569	593	474	501
Unemployed .....	1,300	1,286	966	929	302	333	185	151
Unemployment rate .....	15.9	15.9	13.6	13.3	34.1	35.6	26.8	22.2
Not in labor force .....	6,413	6,145	4,795	4,610	1,296	1,238	661	704

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-59. Employment status of civilians of Mexican, Puerto Rican, and Cuban origin by sex and age**

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>TOTAL</b>								
Civilian noninstitutional population .....	13,288	13,731	7,907	8,170	1,858	1,524	870	912
Civilian labor force .....	8,908	9,318	5,526	5,874	917	876	581	593
Percent of population .....	87.1	87.8	89.9	89.4	55.3	57.5	66.8	85.0
Employed .....	8,131	8,571	4,972	5,193	849	799	563	560
Agriculture .....	380	409	348	365	8	8	3	6
Nonagricultural industries .....	7,751	8,161	4,625	4,828	843	793	560	553
Unemployed .....	777	745	554	482	68	77	19	33
Unemployment rate .....	6.7	8.0	10.0	8.5	7.4	8.8	3.2	5.6
Not in labor force .....	4,360	4,415	2,381	2,496	741	648	288	319
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	6,575	8,794	4,107	4,178	738	678	429	430
Civilian labor force .....	5,361	5,546	3,455	3,460	538	514	343	344
Percent of population .....	81.5	81.8	84.1	82.8	72.9	75.8	80.0	80.0
Employed .....	4,903	5,159	3,135	3,206	499	475	332	324
Agriculture .....	322	373	294	332	6	5	2	6
Nonagricultural industries .....	4,581	4,786	2,841	2,874	494	470	329	318
Unemployed .....	458	387	321	254	39	39	11	19
Unemployment rate .....	8.5	7.0	9.3	7.3	7.2	7.6	3.1	5.7
Not in labor force .....	1,214	1,248	651	718	200	164	87	86
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	5,893	6,094	3,642	3,697	660	599	405	409
Civilian labor force .....	4,979	5,143	3,171	3,161	505	483	334	334
Percent of population .....	84.5	84.4	87.1	85.5	78.5	80.6	82.5	81.7
Employed .....	4,821	4,841	2,924	2,978	474	452	324	314
Agriculture .....	291	346	288	312	6	5	2	5
Nonagricultural industries .....	4,330	4,495	2,656	2,667	469	447	321	309
Unemployed .....	358	302	247	183	30	31	10	19
Unemployment rate .....	7.2	5.9	7.8	5.8	6.0	6.4	3.1	5.8
Not in labor force .....	914	951	471	536	156	116	70	75
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	6,693	8,937	3,800	3,992	920	846	440	482
Civilian labor force .....	3,547	3,770	2,071	2,215	379	362	239	249
Percent of population .....	53.0	54.3	54.5	55.5	41.2	42.8	54.3	51.7
Employed .....	3,229	3,412	1,838	1,987	350	324	231	236
Agriculture .....	58	36	54	33	1	1	-	1
Nonagricultural industries .....	3,170	3,376	1,784	1,954	349	323	231	235
Unemployed .....	318	358	233	228	29	38	8	14
Unemployment rate .....	9.0	9.5	11.2	10.3	7.7	10.5	3.2	5.5
Not in labor force .....	3,146	3,167	1,730	1,778	541	484	202	232
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	6,023	6,250	3,367	3,535	818	769	418	456
Civilian labor force .....	3,238	3,490	1,850	2,008	349	336	229	242
Percent of population .....	53.8	55.8	54.9	56.8	42.7	43.7	54.8	53.1
Employed .....	3,005	3,198	1,678	1,830	331	303	222	230
Agriculture .....	57	32	52	30	1	-	-	1
Nonagricultural industries .....	2,948	3,165	1,625	1,800	331	303	222	229
Unemployed .....	233	292	173	178	18	33	6	13
Unemployment rate .....	7.2	8.4	9.3	8.9	5.2	9.8	2.7	5.3
Not in labor force .....	2,785	2,760	1,516	1,527	468	433	189	213
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	1,352	1,387	898	938	180	156	47	47
Civilian labor force .....	691	683	504	506	63	57	19	17
Percent of population .....	51.1	49.2	56.1	53.9	35.0	36.5	( <sup>2</sup> )	( <sup>2</sup> )
Employed .....	506	531	370	365	43	44	17	16
Agriculture .....	33	31	27	23	-	1	-	-
Nonagricultural industries .....	474	501	343	362	43	43	17	15
Unemployed .....	185	151	134	120	20	13	2	1
Unemployment rate .....	26.8	22.2	26.6	23.8	31.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	661	704	394	433	117	99	29	30

<sup>1</sup> Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

<sup>2</sup> Data not shown where base is less than 60,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-60. Employed civilians by selected social and economic categories, race, and Hispanic origin**

(In thousands)

Category	Total		White		Black		Hispanic origin	
	1988	1989	1988	1989	1988	1989	1988	1989
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	114,778	117,368	99,875	101,741	11,477	11,868	8,131	8,571
Men .....	63,445	64,538	55,763	56,613	5,815	5,908	4,903	5,159
Women .....	51,333	52,831	44,111	45,128	5,662	5,960	3,229	3,412
<b>OCCUPATION</b>								
Managerial and professional specialty .....	29,177	30,422	26,412	27,497	1,802	1,861	1,047	1,182
Executive, administrative, and managerial .....	14,337	14,906	13,132	13,644	767	804	588	625
Professional specialty .....	14,840	15,515	13,280	13,853	1,035	1,057	460	557
Technical, sales, and administrative support .....	35,150	36,095	30,972	31,560	3,082	3,333	2,041	2,027
Technicians and related support .....	3,409	3,654	2,917	3,132	325	344	142	158
Sales occupations .....	13,655	14,038	12,455	12,717	784	898	742	700
Administrative support, including clerical .....	18,087	18,403	15,600	15,711	1,973	2,092	1,157	1,169
Service occupations .....	15,251	15,442	11,986	12,189	2,735	2,694	1,477	1,669
Private household .....	893	887	669	632	201	229	135	135
Protective service .....	1,897	1,926	1,526	1,575	333	322	104	103
Service, except private household and protective .....	12,461	12,629	9,791	9,981	2,201	2,143	1,237	1,431
Precision production, craft, and repair .....	13,833	13,768	12,490	12,351	1,034	1,078	1,168	1,146
Mechanics and repairers .....	4,552	4,593	4,111	4,152	342	343	363	297
Construction trades .....	5,184	5,091	4,759	4,609	353	393	446	431
Other precision production, craft, and repair .....	4,096	4,084	3,620	3,590	339	342	360	417
Operators, fabricators, and laborers .....	17,658	18,047	14,645	14,816	2,556	2,691	1,962	2,074
Machine operators, assemblers, and inspectors .....	8,063	8,266	6,601	6,752	1,192	1,198	1,052	1,189
Transportation and material moving occupations .....	4,784	4,852	4,027	4,059	686	701	301	325
Handlers, equipment cleaners, helpers, and laborers .....	4,811	4,929	4,017	4,005	679	792	609	560
Construction laborers .....	777	787	652	645	112	125	120	114
Other handlers, equipment cleaners, helpers, and laborers .....	4,034	4,142	3,365	3,361	567	667	490	446
Farming, forestry, and fishing .....	3,709	3,595	3,369	3,327	268	210	436	472
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,745	1,715	1,559	1,570	149	122	340	368
Self-employed workers .....	1,414	1,433	1,361	1,383	32	25	40	41
Unpaid family workers .....	185	150	181	149	-	-	-	-
Nonagricultural industries:								
Wage and salary workers .....	102,488	105,179	88,515	90,418	10,914	11,342	7,224	7,627
Government .....	16,999	17,218	13,828	13,973	2,611	2,624	908	922
Private industries .....	85,488	87,962	74,687	76,444	8,303	8,718	6,316	6,705
Private households .....	1,165	1,157	879	829	258	298	157	155
Other industries .....	84,323	86,805	73,808	75,616	8,045	8,420	6,158	6,550
Self-employed workers .....	8,649	8,603	7,984	7,957	378	373	502	518
Unpaid family workers .....	298	289	275	264	4	6	25	16
<b>FULL- AND PART-TIME STATUS<sup>1</sup></b>								
Full-time schedules .....	93,510	95,579	81,169	82,636	9,518	9,833	6,756	7,156
Part time for economic reasons .....	5,103	4,940	4,147	3,961	806	833	597	609
Part time for noneconomic reasons .....	16,165	16,849	14,558	15,144	1,152	1,203	778	806

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

NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-61. Employed civilians of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories**

(In thousands)

Category	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	8,131	8,571	4,972	5,193	849	799	563	560
Men .....	4,903	5,159	3,135	3,206	499	475	332	324
Women .....	3,229	3,412	1,838	1,987	350	324	231	236
<b>OCCUPATION</b>								
Managerial and professional specialty .....	1,047	1,182	489	551	121	129	145	155
Executive, administrative, and managerial .....	588	625	272	283	71	72	93	102
Professional specialty .....	460	557	216	268	50	58	53	53
Technical, sales, and administrative support .....	2,041	2,027	1,085	1,098	265	242	195	189
Technicians and related support .....	142	158	69	84	15	22	9	11
Sales occupations .....	742	700	409	391	48	52	65	70
Administrative support, including clerical .....	1,157	1,169	606	623	202	168	120	108
Service occupations .....	1,477	1,669	882	964	147	144	52	76
Private household .....	135	135	82	54	2	4	2	4
Protective service .....	104	103	59	60	18	24	4	8
Service, except private household and protective .....	1,237	1,431	742	851	127	116	47	63
Precision production, craft, and repair .....	1,168	1,146	790	775	108	94	70	56
Mechanics and repairers .....	363	297	234	181	43	32	26	12
Construction trades .....	446	431	309	304	36	33	26	27
Other precision production, craft, and repair .....	360	417	247	290	29	29	18	17
Operators, fabricators, and laborers .....	1,962	2,074	1,327	1,397	200	180	98	79
Machine operators, assemblers, and inspectors .....	1,052	1,189	694	807	108	111	48	36
Transportation and material moving occupations .....	301	325	190	190	44	28	20	21
Handlers, equipment cleaners, helpers, and laborers .....	609	560	443	400	48	41	30	22
Construction laborers .....	120	114	103	86	3	5	2	6
Other handlers, equipment cleaners, helpers, and laborers .....	490	446	341	314	45	35	28	16
Farming, forestry, and fishing .....	436	472	400	409	7	10	3	6
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	340	368	316	331	5	6		5
Self-employed workers .....	40	41	32	34	1		3	2
Unpaid family workers .....	-		-	-				
Nonagricultural industries:								
Wage and salary workers .....	7,224	7,627	4,343	4,567	807	766	488	486
Government .....	908	922	554	562	126	128	59	56
Private industries .....	6,316	6,705	3,789	4,004	681	638	430	430
Private households .....	157	155	99	66	2	4	2	5
Other industries .....	6,158	6,550	3,690	3,938	679	634	428	425
Self-employed workers .....	502	518	275	252	34	26	59	67
Unpaid family workers .....	25	16	6	10	2	2	12	-
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	6,756	7,156	4,046	4,236	752	716	501	493
Part time for economic reasons .....	597	609	451	446	35	19	22	23
Part time for noneconomic reasons .....	778	806	476	512	62	65	41	44

<sup>1</sup> Includes persons of Central or South American origin and of other Hispanic origin, not shown separately.

<sup>2</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  
QUARTERLY AVERAGES**

**A-62. Employed civilians by sex, age, race, and Hispanic origin**

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
Total, 16 years and over .....	114,778	117,368	99,875	101,741	11,477	11,868	8,131	8,571
16 to 19 years .....	6,861	6,812	6,116	6,040	583	603	506	531
16 to 17 years .....	2,734	2,594	2,455	2,309	213	207	189	165
18 to 19 years .....	4,128	4,218	3,661	3,730	370	396	317	366
20 to 24 years .....	13,258	13,091	11,565	11,201	1,321	1,465	1,374	1,363
25 years and over .....	94,659	97,465	82,193	84,500	9,573	9,800	6,251	6,677
25 to 54 years .....	80,061	82,532	69,156	71,126	8,320	8,605	5,598	5,962
55 years and over .....	14,598	14,933	13,037	13,373	1,252	1,195	653	714
Men, 16 years and over .....	63,445	64,538	55,763	56,613	5,815	5,908	4,903	5,159
16 to 19 years .....	3,579	3,532	3,159	3,139	331	313	282	317
16 to 17 years .....	1,446	1,356	1,290	1,216	121	107	93	100
18 to 19 years .....	2,133	2,175	1,869	1,923	210	205	189	218
20 to 24 years .....	6,991	6,913	6,124	5,934	678	748	831	825
25 years and over .....	52,875	54,093	46,481	47,540	4,805	4,846	3,789	4,017
25 to 54 years .....	44,331	45,473	38,803	39,749	4,117	4,218	3,415	3,591
55 years and over .....	8,544	8,620	7,678	7,791	687	628	374	426
Women, 16 years and over .....	51,333	52,831	44,111	45,128	5,662	5,960	3,229	3,412
16 to 19 years .....	3,283	3,280	2,958	2,901	252	290	224	214
16 to 17 years .....	1,288	1,237	1,166	1,093	92	99	96	65
18 to 19 years .....	1,995	2,043	1,792	1,807	159	191	128	149
20 to 24 years .....	6,267	6,179	5,441	5,267	643	716	543	538
25 years and over .....	41,784	43,372	35,712	36,960	4,768	4,954	2,461	2,659
25 to 54 years .....	35,730	37,059	30,353	31,377	4,203	4,387	2,183	2,371
55 years and over .....	6,054	6,313	5,359	5,582	565	567	278	288

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-63. Unemployment rates by sex, age, race, and Hispanic origin**

(Civilian workers)

Sex and age	Total		White		Black		Hispanic origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
Total, 16 years and over .....	5.4	5.2	4.5	4.4	12.2	11.5	8.7	8.0
16 to 19 years .....	15.9	15.9	13.6	13.3	34.1	35.6	26.8	22.2
16 to 17 years .....	18.7	18.2	16.3	16.1	38.7	37.4	32.1	27.9
18 to 19 years .....	14.0	14.4	11.8	11.5	31.1	34.6	23.2	19.3
20 to 24 years .....	8.9	8.6	6.9	7.1	22.9	18.5	10.5	9.4
25 years and over .....	4.0	3.8	3.4	3.3	8.6	8.3	6.5	6.4
25 to 54 years .....	4.2	4.0	3.6	3.4	9.1	8.7	6.3	6.4
55 years and over .....	3.0	3.0	2.7	2.6	5.3	5.3	7.5	5.9
Men, 16 years and over .....	5.3	5.0	4.5	4.2	12.1	11.8	8.5	7.0
16 to 19 years .....	16.0	16.2	13.8	13.7	31.7	35.8	26.2	21.2
16 to 17 years .....	18.3	19.3	16.0	17.0	36.4	39.2	32.9	27.5
18 to 19 years .....	14.3	14.2	12.2	11.5	28.7	33.9	22.3	18.0
20 to 24 years .....	8.8	8.4	6.9	7.0	23.3	17.7	10.2	7.6
25 years and over .....	4.0	3.7	3.5	3.2	8.4	8.6	6.5	5.5
25 to 54 years .....	4.2	3.9	3.6	3.3	9.0	9.0	6.2	5.4
55 years and over .....	3.2	3.0	2.9	2.6	5.1	5.8	9.0	6.8
Women, 16 years and over .....	5.5	5.4	4.6	4.5	12.3	11.3	9.0	9.5
16 to 19 years .....	15.9	15.5	13.4	12.9	37.0	35.4	27.5	23.5
16 to 17 years .....	19.0	17.0	16.5	15.1	41.4	35.2	31.3	28.5
18 to 19 years .....	13.7	14.6	11.3	11.5	34.1	35.5	24.5	21.0
20 to 24 years .....	9.0	8.8	7.0	7.1	22.4	19.2	10.9	11.9
25 years and over .....	4.1	4.0	3.4	3.4	8.8	8.0	6.4	7.6
25 to 54 years .....	4.3	4.2	3.5	3.6	9.2	8.4	6.5	8.0
55 years and over .....	2.7	2.9	2.4	2.7	5.5	4.7	5.4	4.6

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-64. Unemployed persons by duration of unemployment, race, and Hispanic origin**

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>DURATION</b>								
Total, 16 years and over .....	6,577	6,412	4,758	4,660	1,594	1,547	777	745
Less than 5 weeks .....	3,159	3,230	2,364	2,363	690	776	399	403
5 to 14 weeks .....	1,712	1,738	1,212	1,275	437	399	211	211
15 weeks and over .....	1,706	1,443	1,182	1,022	468	372	167	130
15 to 26 weeks .....	862	771	607	576	224	172	90	73
27 weeks and over .....	844	672	575	446	244	200	76	58
Average (mean) duration, in weeks .....	13.7	12.1	13.1	11.8	15.8	13.0	11.7	10.5
Median duration, in weeks .....	5.5	5.0	5.1	4.9	6.8	5.0	4.9	4.6
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	48.0	50.4	49.7	50.7	43.3	50.1	51.4	54.1
5 to 14 weeks .....	26.0	27.1	25.5	27.4	27.4	25.8	27.2	28.3
15 weeks and over .....	25.9	22.5	24.8	21.9	29.3	24.1	21.5	17.5
15 to 26 weeks .....	13.1	12.0	12.8	12.4	14.0	11.1	11.6	9.8
27 weeks and over .....	12.8	10.5	12.1	9.6	15.3	12.9	9.8	7.7

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-65. Unemployed persons by reason for unemployment, race, and Hispanic origin**

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	6,577	6,412	4,758	4,660	1,594	1,547	777	745
Job losers .....	2,961	2,718	2,185	2,028	687	610	395	355
On layoff .....	736	716	603	602	114	100	77	71
Other job losers .....	2,225	2,002	1,582	1,426	574	511	318	284
Job leavers .....	866	934	671	728	174	168	94	93
Reentrants .....	1,785	1,932	1,265	1,377	451	490	161	199
New entrants .....	965	828	637	527	282	278	127	97
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	45.0	42.4	45.9	43.5	43.1	39.5	50.9	47.7
On layoff .....	11.2	11.2	12.7	12.9	7.1	6.4	10.0	9.5
Other job losers .....	33.8	31.2	33.2	30.6	36.0	33.0	41.0	38.1
Job leavers .....	13.2	14.6	14.1	15.6	10.9	10.9	12.1	12.5
Reentrants .....	27.1	30.1	26.6	29.5	28.3	31.7	20.7	26.8
New entrants .....	14.7	12.9	13.4	11.3	17.7	18.0	16.4	13.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	2.4	2.2	2.1	1.9	5.3	4.5	4.4	3.8
Job leavers .....	.7	.8	.6	.7	1.3	1.3	1.1	1.0
Reentrants .....	1.5	1.6	1.2	1.3	3.4	3.7	1.8	2.1
New entrants .....	.8	.7	.6	.5	2.2	2.1	1.4	1.0

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-66. Employment status of male Vietnam-era veterans and nonveterans by age**

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	II 1988	II 1989	Total		Employed		Unemployed			
			II 1988	II 1989	II 1988	II 1989	Number		Percent of labor force	
							II 1988	II 1989	II 1988	II 1989
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,898	7,924	7,276	7,247	6,992	7,001	284	246	3.9	3.4
30 to 44 years .....	5,967	5,563	5,691	5,284	5,453	5,092	238	192	4.2	3.6
30 to 34 years .....	723	508	684	471	626	434	58	37	8.4	7.8
35 to 39 years .....	2,216	1,796	2,102	1,694	2,023	1,620	78	74	3.7	4.4
40 to 44 years .....	3,028	3,259	2,905	3,118	2,803	3,037	102	81	3.5	2.6
45 years and over .....	1,931	2,361	1,585	1,964	1,539	1,910	46	54	2.9	2.7
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	20,286	21,340	19,110	20,202	18,341	19,436	769	766	4.0	3.8
30 to 34 years .....	9,040	9,336	8,543	8,909	8,171	8,537	372	371	4.4	4.2
35 to 39 years .....	6,756	7,355	6,398	6,961	6,161	6,710	237	251	3.7	3.6
40 to 44 years .....	4,490	4,649	4,169	4,332	4,009	4,188	159	144	3.8	3.3

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 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

**A-67. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin**

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989	II 1988	II 1989
<b>TOTAL, 30 to 44 years</b>												
Civilian noninstitutional population .....	5,288	4,945	582	537	270	223	17,425	18,284	2,044	2,169	1,776	1,937
Civilian labor force .....	5,081	4,716	520	490	264	197	16,566	17,466	1,820	1,934	1,634	1,793
Employed .....	4,887	4,563	485	453	247	188	15,992	16,897	1,652	1,768	1,539	1,696
Unemployed .....	194	153	34	37	17	9	574	569	168	168	95	97
Unemployment rate .....	3.8	3.2	6.6	7.5	6.5	4.6	3.5	3.3	9.2	8.6	5.8	5.4
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	597	433	113	71	52	28	7,811	7,964	932	981	779	864
Civilian labor force .....	569	408	102	60	50	22	7,450	7,668	838	885	720	813
Employed .....	528	381	87	50	44	21	7,161	7,401	781	797	680	773
Unemployed .....	41	27	15	10	6	1	289	268	77	87	40	40
Unemployment rate .....	7.3	6.6	14.6	16.0	( <sup>1</sup> )	( <sup>1</sup> )	3.9	3.5	9.2	9.9	5.5	5.0
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	1,944	1,572	228	184	95	68	5,802	6,329	673	731	558	605
Civilian labor force .....	1,867	1,492	194	165	92	64	5,538	6,035	604	655	518	546
Employed .....	1,802	1,438	184	145	86	61	5,363	5,847	551	604	487	512
Unemployed .....	65	54	10	19	7	3	175	188	53	51	31	35
Unemployment rate .....	3.5	3.6	5.1	11.7	7.5	4.5	3.2	3.1	8.7	7.9	6.0	6.3
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	2,747	2,941	241	282	123	127	3,812	3,991	439	457	440	467
Civilian labor force .....	2,645	2,817	223	266	122	111	3,578	3,763	378	394	396	433
Employed .....	2,557	2,744	214	258	117	106	3,467	3,650	340	367	371	411
Unemployed .....	88	72	9	8	4	5	111	113	38	27	24	22
Unemployment rate .....	3.3	2.6	4.2	3.1	3.4	4.2	3.1	3.0	10.2	6.8	8.1	5.2

<sup>1</sup> Data not shown where base is less than 60,000.

NOTE: Male Vietnam-era veterans are those who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who never served in the Armed Forces; published data are limited to those 30 to 44 years of age, the group that most closely corresponds to

the bulk of the Vietnam-era veteran population. 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  
QUARTERLY AVERAGES**

**A-68. Unemployment in families by type of family, race, Hispanic origin, and presence of employed family members**

(Numbers in thousands)

Type of family, race, and Hispanic origin	II 1988					II 1989				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	Percent of families:		
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
<b>TOTAL</b>										
Total families .....	64,249	4,951	27.7	72.3	63.2	64,995	4,926	27.3	72.7	64.2
With children under 18 years of age .....	31,485	2,962	31.1	68.9	59.9	31,248	2,817	30.7	69.3	61.9
Married-couple families .....	50,767	3,370	18.0	82.0	73.3	51,305	3,374	17.3	82.7	74.4
With children under 18 years of age .....	23,955	2,058	17.6	82.4	73.4	23,752	1,938	17.4	82.6	75.2
Families maintained by women .....	10,540	1,269	51.0	49.0	39.0	10,801	1,278	50.4	49.6	40.5
With children under 18 years of age .....	6,327	773	63.1	36.9	27.8	6,378	770	60.3	39.7	32.2
Families maintained by men .....	2,943	312	38.1	61.9	51.6	2,889	274	42.3	57.7	50.0
With children under 18 years of age .....	1,202	130	54.6	45.4	37.7	1,119	108	58.3	41.7	34.3
<b>White</b>										
Total families .....	55,317	3,677	23.8	76.2	66.7	55,725	3,639	23.8	76.2	68.3
With children under 18 years of age .....	26,323	2,165	25.7	74.3	64.9	25,979	2,065	25.9	74.1	66.9
Married-couple families .....	45,910	2,801	17.4	82.6	73.8	46,150	2,757	17.4	82.6	75.0
With children under 18 years of age .....	21,286	1,680	16.9	83.1	74.1	20,978	1,581	17.3	82.7	75.6
Families maintained by women .....	7,124	678	47.5	52.5	41.0	7,336	699	45.7	54.3	44.8
With children under 18 years of age .....	4,113	407	58.5	41.5	31.2	4,139	411	55.5	44.5	37.0
Families maintained by men .....	2,284	198	33.3	66.7	54.5	2,238	183	36.6	63.4	55.7
With children under 18 years of age .....	924	79	45.6	54.4	43.0	862	73	46.6	53.4	46.6
<b>Black</b>										
Total families .....	7,095	1,111	40.4	59.6	51.6	7,291	1,127	38.7	61.3	51.3
With children under 18 years of age .....	4,087	690	47.9	52.1	44.6	4,132	664	45.6	54.4	46.1
Married-couple families .....	3,458	462	20.3	79.7	71.6	3,609	497	16.7	83.3	71.7
With children under 18 years of age .....	1,822	301	20.3	79.7	71.4	1,838	287	17.1	82.9	74.1
Families maintained by women .....	3,102	551	55.5	44.5	36.3	3,166	554	56.3	43.7	34.7
With children under 18 years of age .....	2,026	341	69.5	30.5	23.2	2,072	347	66.0	34.0	26.5
Families maintained by men .....	535	98	50.0	50.0	41.8	517	76	53.9	46.1	38.2
With children under 18 years of age .....	239	49	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	222	30	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total families .....	4,489	565	30.5	69.5	58.0	4,717	578	30.3	69.7	64.0
With children under 18 years of age .....	2,903	392	32.2	67.8	56.8	2,958	394	32.2	67.8	63.2
Married-couple families .....	3,165	411	22.4	77.6	66.2	3,308	416	20.9	79.1	74.3
With children under 18 years of age .....	2,082	305	22.0	78.0	65.8	2,124	296	22.0	78.0	73.6
Families maintained by women .....	971	114	56.5	43.5	31.3	1,036	124	58.9	41.1	33.9
With children under 18 years of age .....	690	70	67.1	32.9	25.7	713	86	64.0	36.0	32.6
Families maintained by men .....	354	39	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	373	38	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
With children under 18 years of age .....	131	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	121	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Data not shown where base is less than 60,000.

NOTE: Detail for the above race and Hispanic-origin groups will not

sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-69. Unemployed persons by family relationship, race, Hispanic origin, and presence of employed family members**

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1988				II 1989			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
<b>TOTAL</b>								
Total unemployed in families <sup>1</sup> .....	5,409	29.7	70.3	61.1	5,267	29.7	70.3	61.9
Husbands .....	1,151	36.5	63.5	48.4	1,088	37.2	62.8	48.9
With children under 18 years of age .....	728	39.9	60.1	43.9	636	43.7	56.3	42.5
Wives .....	960	17.6	82.4	74.9	998	15.2	84.8	78.0
With children under 18 years of age .....	618	17.7	82.3	74.5	592	14.0	86.0	79.9
Relatives in married-couple families .....	1,535	9.7	90.3	85.3	1,496	9.7	90.3	85.2
Women who maintain families .....	534	83.2	16.8	9.4	534	82.2	17.8	10.6
With children under 18 years of age .....	462	88.6	11.4	4.4	441	89.7	10.3	4.5
Relatives in families maintained by women .....	880	31.6	68.4	56.9	862	32.8	67.2	56.8
Men who maintain families .....	149	64.0	36.0	25.5	114	74.3	25.7	19.9
With children under 18 years of age .....	75	87.4	12.6	1.2	59	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	201	25.5	74.5	65.4	176	31.5	68.5	61.9
<b>White</b>								
Total unemployed in families <sup>1</sup> .....	3,894	25.9	74.1	64.6	3,780	26.3	73.7	65.7
Husbands .....	966	36.0	64.0	48.3	885	38.7	61.3	48.1
With children under 18 years of age .....	591	39.5	60.5	43.8	508	44.8	55.2	41.3
Wives .....	781	15.7	84.3	77.1	830	14.5	85.5	79.0
With children under 18 years of age .....	484	15.9	84.1	76.5	485	13.2	86.8	81.1
Relatives in married-couple families .....	1,224	9.0	91.0	86.0	1,164	9.1	90.9	86.4
Women who maintain families .....	264	80.1	19.9	12.2	289	75.5	24.5	14.7
With children under 18 years of age .....	226	87.5	12.5	5.2	227	85.9	14.1	6.1
Relatives in families maintained by women .....	445	30.4	69.6	56.7	429	29.4	70.6	61.3
Men who maintain families .....	92	57.7	42.3	26.5	65	71.5	28.5	19.5
With children under 18 years of age .....	41	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	32	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	121	22.4	77.6	69.6	119	27.7	72.3	67.1
<b>Black</b>								
Total unemployed in families <sup>1</sup> .....	1,336	40.8	59.2	50.9	1,314	39.5	60.5	51.1
Husbands .....	143	39.0	61.0	51.7	156	30.0	70.0	52.8
With children under 18 years of age .....	107	41.6	58.4	48.1	98	40.1	59.9	46.8
Wives .....	142	28.6	71.4	61.0	128	21.0	79.0	68.8
With children under 18 years of age .....	105	28.7	71.3	60.9	87	19.4	80.6	71.8
Relatives in married-couple families .....	269	12.1	87.9	82.8	293	11.9	88.1	81.3
Women who maintain families .....	257	85.4	14.6	7.1	233	90.4	9.6	5.3
With children under 18 years of age .....	226	89.2	10.8	3.7	206	93.8	6.2	2.8
Relatives in families maintained by women .....	414	33.4	66.6	56.7	420	36.4	63.6	52.2
Men who maintain families .....	50	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	41	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	31	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	23	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	62	30.7	69.3	56.9	42	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Hispanic origin</b>								
Total unemployed in families <sup>1</sup> .....	646	32.7	67.3	55.9	617	32.1	67.9	62.2
Husbands .....	152	38.5	61.5	42.8	124	51.1	48.9	43.3
With children under 18 years of age .....	115	40.8	59.2	38.9	86	59.2	40.8	34.3
Wives .....	107	22.2	77.8	66.7	139	13.4	86.6	78.8
With children under 18 years of age .....	79	24.4	75.6	61.8	99	17.7	82.3	76.0
Relatives in married-couple families .....	206	14.5	85.5	77.9	186	9.8	90.2	85.0
Women who maintain families .....	42	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	59	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	38	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	50	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by women .....	94	43.4	56.6	44.3	68	38.1	61.9	56.6
Men who maintain families .....	23	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	11	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	23	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

<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. Estimates 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.

<sup>2</sup> Data not shown where base is less than 60,000.

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-70. Employed civilians by family relationship, race, Hispanic origin, and presence of employed family members**

(Numbers in thousands)

Family relationship, race, and Hispanic origin	II 1988			II 1989				
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
<b>TOTAL</b>								
Total employed in families <sup>1</sup> .....	93,120	22.2	77.8	66.8	94,730	21.7	78.3	67.2
Husbands .....	38,669	29.3	70.7	52.8	39,255	28.3	71.7	53.5
With children under 18 years of age .....	22,139	31.2	68.8	47.4	22,067	30.4	69.6	48.1
Wives .....	27,670	8.1	91.9	87.1	28,643	8.1	91.9	87.1
With children under 18 years of age .....	14,840	4.6	95.4	91.3	15,043	4.2	95.8	92.1
Relatives in married-couple families .....	12,454	6.8	93.2	88.9	12,046	6.4	93.6	90.0
Women who maintain families .....	5,965	63.5	36.5	24.1	6,221	61.9	38.1	25.0
With children under 18 years of age .....	3,862	79.8	20.2	9.1	3,981	78.6	21.4	9.6
Relatives in families maintained by women .....	4,561	24.2	75.8	67.0	4,718	23.7	76.3	66.9
Men who maintain families .....	2,128	52.1	47.9	37.0	2,103	51.3	48.7	37.9
With children under 18 years of age .....	1,010	79.1	20.9	10.6	952	78.2	21.8	12.0
Relatives in families maintained by men .....	1,672	14.9	85.1	78.2	1,744	15.7	84.3	77.0
<b>White</b>								
Total employed in families <sup>1</sup> .....	81,492	21.6	78.4	67.1	82,443	20.9	79.1	67.6
Husbands .....	35,028	29.7	70.3	51.7	35,366	28.7	71.3	52.5
With children under 18 years of age .....	19,846	31.9	68.1	45.6	19,649	30.9	69.1	46.4
Wives .....	24,719	7.9	92.1	87.5	25,423	7.7	92.3	87.6
With children under 18 years of age .....	13,046	4.2	95.8	91.8	13,149	3.7	98.3	92.7
Relatives in married-couple families .....	11,089	6.7	93.3	89.2	10,650	6.2	93.8	90.3
Women who maintain families .....	4,247	61.2	38.8	25.6	4,418	58.8	41.2	27.0
With children under 18 years of age .....	2,712	78.7	21.3	9.3	2,770	77.0	23.0	9.8
Relatives in families maintained by women .....	3,383	24.1	75.9	67.2	3,537	23.8	76.2	67.1
Men who maintain families .....	1,708	51.1	48.9	38.0	1,696	50.4	49.6	38.4
With children under 18 years of age .....	812	78.2	21.8	11.0	760	77.4	22.6	12.4
Relatives in families maintained by men .....	1,317	14.4	85.6	79.2	1,353	14.1	85.9	79.7
<b>Black</b>								
Total employed in families <sup>1</sup> .....	8,789	28.6	71.4	62.7	9,115	28.9	71.1	62.1
Husbands .....	2,568	23.9	76.1	65.9	2,651	22.9	77.1	64.9
With children under 18 years of age .....	1,588	22.9	77.1	66.8	1,605	23.1	76.9	65.0
Wives .....	2,056	11.0	89.0	83.1	2,197	12.5	87.5	81.9
With children under 18 years of age .....	1,241	7.7	92.3	87.1	1,272	8.5	91.5	87.2
Relatives in married-couple families .....	955	8.5	91.5	85.7	959	9.4	90.6	86.1
Women who maintain families .....	1,551	70.2	29.8	19.4	1,644	70.5	29.5	19.6
With children under 18 years of age .....	1,052	82.3	17.7	8.8	1,117	82.9	17.1	8.9
Relatives in families maintained by women .....	1,045	25.4	74.6	64.9	1,056	23.1	76.9	66.4
Men who maintain families .....	337	57.2	42.8	33.1	319	58.8	41.2	31.7
With children under 18 years of age .....	173	82.9	17.1	8.7	170	82.1	17.9	8.4
Relatives in families maintained by men .....	277	17.9	82.1	73.7	291	24.3	75.7	65.2
<b>Hispanic origin</b>								
Total employed in families <sup>1</sup> .....	6,570	25.2	74.8	64.6	7,084	23.3	76.7	67.2
Husbands .....	2,554	37.5	62.5	48.8	2,735	35.7	64.3	50.7
With children under 18 years of age .....	1,824	41.3	58.7	43.2	1,904	37.8	62.2	47.5
Wives .....	1,594	8.3	91.7	84.7	1,747	7.1	92.9	86.9
With children under 18 years of age .....	998	7.1	92.9	86.5	1,116	5.0	95.0	88.4
Relatives in married-couple families .....	1,033	6.3	93.7	85.7	1,042	5.2	94.8	89.9
Women who maintain families .....	446	65.0	35.0	27.0	512	56.1	43.9	31.9
With children under 18 years of age .....	296	78.2	21.8	13.8	341	69.5	30.5	19.9
Relatives in families maintained by women .....	366	23.1	76.9	64.0	451	16.1	83.9	74.9
Men who maintain families .....	279	40.2	59.8	52.3	286	38.0	62.0	56.3
With children under 18 years of age .....	110	69.7	30.3	25.5	100	71.0	29.0	21.8
Relatives in families maintained by men .....	297	4.4	95.6	89.9	312	9.1	90.9	83.4

<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. Estimates 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.

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-71. Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin**

Type of family, number of earners, race, and Hispanic origin	Number of families		Median weekly earnings	
	II 1988	II 1989	II 1988	II 1989
<b>TOTAL</b>				
Total families with earners <sup>1</sup> .....	42,637	43,198	\$597	\$622
Married-couple families .....	33,839	34,052	668	698
One earner .....	12,400	12,175	418	419
Husband .....	9,532	9,293	490	492
Wife .....	2,121	2,180	232	244
Other family member .....	747	703	236	234
Two or more earners .....	21,439	21,876	809	850
Husband and wife .....	18,976	19,501	820	866
Husband and other family member(s) .....	1,806	1,736	804	781
Wife and other family member(s) .....	465	505	466	557
Other family members only .....	192	135	507	501
Families maintained by women .....	6,679	7,039	330	340
One earner .....	4,592	4,794	258	269
Householder .....	3,645	3,796	267	279
Other family member .....	947	998	224	231
Two or more earners .....	2,087	2,245	559	570
Families maintained by men .....	2,119	2,107	493	491
One earner .....	1,209	1,192	379	342
Two or more earners .....	910	916	713	720
<b>White</b>				
Total families with earners <sup>1</sup> .....	36,570	36,640	616	647
Married-couple families .....	30,173	30,095	676	708
One earner .....	11,207	10,766	433	434
Husband .....	8,743	8,349	498	501
Wife .....	1,814	1,806	237	245
Two or more earners .....	18,966	19,328	813	857
Husband and wife .....	16,766	17,208	823	872
Families maintained by women .....	4,725	4,959	349	363
Families maintained by men .....	1,671	1,586	505	510
<b>Black</b>				
Total families with earners <sup>1</sup> .....	4,828	5,145	432	439
Married-couple families .....	2,734	2,859	583	586
One earner .....	859	971	292	307
Husband .....	565	609	324	374
Wife .....	230	296	202	234
Two or more earners .....	1,875	1,888	736	765
Husband and wife .....	1,682	1,697	766	778
Families maintained by women .....	1,740	1,858	278	285
Families maintained by men .....	354	428	410	385
<b>Hispanic origin</b>				
Total families with earners <sup>1</sup> .....	3,351	3,331	447	451
Married-couple families .....	2,571	2,447	489	508
One earner .....	1,081	970	304	294
Husband .....	903	826	311	314
Wife .....	127	105	259	209
Two or more earners .....	1,490	1,477	662	681
Husband and wife .....	1,237	1,230	690	707
Families maintained by women .....	479	588	291	327
Families maintained by men .....	301	295	392	403

<sup>1</sup> Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces.

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-72. Families with unemployed members and wage and salary workers by type of family and median weekly earnings**

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	II 1988	II 1989	II 1988	II 1989
Married-couple families <sup>1</sup> .....	2,405	2,405	\$455	\$473
Husband unemployed .....	680	627	252	272
Wife only earner .....	93	89	( <sup>2</sup> )	( <sup>2</sup> )
Wife and other earner(s) .....	67	62	( <sup>2</sup> )	( <sup>2</sup> )
Other earner(s) only .....	67	62	( <sup>2</sup> )	( <sup>2</sup> )
Wife unemployed .....	708	792	398	419
Husband only earner .....	592	663	356	399
Husband and other earner(s) .....	102	106	709	692
Other earner(s) only .....	13	24	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	1,017	986	696	691
Husband or wife earner .....	406	342	598	526
Both husband and wife earners .....	577	620	777	868
Other combinations of earners .....	34	23	( <sup>2</sup> )	( <sup>2</sup> )
Families maintained by women <sup>1</sup> .....	567	536	283	307
Householder unemployed .....	78	107	( <sup>2</sup> )	193
Other member(s) unemployed .....	489	428	310	334
Families maintained by men <sup>1</sup> .....	158	109	321	378

<sup>1</sup> Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or

in the Armed Forces.

<sup>2</sup> Data not shown where base is less than 100,000.



A-73. Median weekly earnings of full-time wage and salary workers by selected characteristics

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1988	II 1989	II 1988	II 1989
<b>SEX AND AGE</b>				
Total, 16 years and over .....	82,731	84,359	\$382	\$398
Men, 16 years and over .....	48,211	49,046	445	467
16 to 24 years .....	6,817	6,695	259	267
25 years and over .....	41,394	42,350	487	498
Women, 16 years and over .....	34,520	35,314	314	324
16 to 24 years .....	5,306	5,231	230	239
25 years and over .....	29,213	30,082	333	349
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	31,127	31,190	499	512
Wives .....	17,903	18,525	323	338
Women who maintain families .....	4,583	4,750	308	317
Men who maintain families .....	1,682	1,652	405	415
Other persons in families:				
Men .....	6,637	6,530	263	273
Women .....	4,431	4,210	244	257
All other men <sup>1</sup> .....	8,759	9,667	412	433
All other women <sup>1</sup> .....	7,609	7,836	344	356
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	71,025	72,022	391	407
Men .....	42,053	42,628	462	479
Women .....	28,972	29,393	317	329
Black .....	9,234	9,510	315	324
Men .....	4,794	4,873	349	362
Women .....	4,441	4,637	287	302
Hispanic origin .....	6,256	6,634	292	289
Men .....	4,011	4,190	308	304
Women .....	2,244	2,443	263	263

<sup>1</sup> The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces and persons in unrelated subfamilies.

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-74. Median weekly earnings of part-time wage and salary workers by selected characteristics**

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1988	II 1989	II 1988	II 1989
<b>SEX AND AGE</b>				
Total, 16 years and over .....	18,413	19,150	\$104	\$110
Men, 16 years and over .....	5,849	5,994	97	103
16 to 24 years .....	3,313	3,342	83	87
25 years and over .....	2,536	2,652	123	131
Women, 16 years and over .....	12,563	13,157	108	113
16 to 24 years .....	4,064	4,060	78	85
25 years and over .....	8,499	9,097	127	133
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	1,557	1,568	122	138
Wives .....	6,583	6,799	130	136
Women who maintain families .....	974	1,044	112	120
Men who maintain families .....	154	140	126	136
Other persons in families:				
Men .....	3,131	3,151	81	86
Women .....	3,491	3,556	75	82
All other men <sup>1</sup> .....	1,006	1,135	122	117
All other women <sup>1</sup> .....	1,515	1,758	111	116
<b>RACE, HISPANIC ORIGIN, AND SEX</b>				
White .....	16,033	16,714	105	110
Men .....	4,891	5,063	97	102
Women .....	11,141	11,651	109	114
Black .....	1,788	1,889	99	105
Men .....	710	710	95	100
Women .....	1,077	1,180	102	108
Hispanic origin .....	1,225	1,246	101	110
Men .....	438	497	105	117
Women .....	787	749	98	107

<sup>1</sup> The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces and persons in unrelated subfamilies.

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-75. Median weekly earnings of full-time wage and salary workers by occupation and sex**

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	II 1988	II 1989	II 1988	II 1989
<b>TOTAL</b>				
Managerial and professional specialty .....	21,546	22,558	\$543	\$581
Executive, administrative, and managerial .....	10,592	11,284	533	582
Professional specialty .....	10,954	11,274	550	580
Technical, sales, and administrative support .....	24,955	25,447	345	358
Technicians and related support .....	2,943	3,076	447	478
Sales occupations .....	7,730	8,054	385	389
Administrative support, including clerical .....	14,283	14,318	317	327
Service occupations .....	8,680	8,620	243	253
Private household .....	327	331	129	150
Protective service .....	1,734	1,803	400	435
Service, except private household and protective .....	6,618	6,486	226	234
Precision production, craft, and repair .....	11,331	11,270	430	461
Mechanics and repairers .....	4,105	3,998	448	465
Construction trades .....	3,672	3,773	416	452
Other precision production, craft, and repair .....	3,554	3,499	423	462
Operators, fabricators, and laborers .....	14,700	15,089	317	319
Machine operators, assemblers, and inspectors .....	7,388	7,554	309	310
Transportation and material moving occupations .....	3,885	3,899	386	397
Handlers, equipment cleaners, helpers, and laborers .....	3,428	3,635	273	286
Farming, forestry, and fishing .....	1,518	1,375	221	245
<b>Men</b>				
Managerial and professional specialty .....	11,807	12,398	662	685
Executive, administrative, and managerial .....	6,178	6,612	682	689
Professional specialty .....	5,629	5,786	643	682
Technical, sales, and administrative support .....	9,263	9,378	475	485
Technicians and related support .....	1,661	1,675	504	548
Sales occupations .....	4,524	4,626	491	496
Administrative support, including clerical .....	3,079	3,077	421	427
Service occupations .....	4,372	4,404	287	299
Private household .....	14	38	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,579	1,572	406	453
Service, except private household and protective .....	2,779	2,795	252	257
Precision production, craft, and repair .....	10,375	10,423	445	475
Mechanics and repairers .....	3,935	3,860	449	465
Construction trades .....	3,612	3,717	417	454
Other precision production, craft, and repair .....	2,828	2,847	472	500
Operators, fabricators, and laborers .....	11,054	11,237	355	361
Machine operators, assemblers, and inspectors .....	4,527	4,420	371	381
Transportation and material moving occupations .....	3,652	3,689	392	403
Handlers, equipment cleaners, helpers, and laborers .....	2,875	3,128	285	291
Farming, forestry, and fishing .....	1,340	1,204	228	250
<b>Women</b>				
Managerial and professional specialty .....	9,739	10,160	459	490
Executive, administrative, and managerial .....	4,415	4,672	419	466
Professional specialty .....	5,324	5,488	483	505
Technical, sales, and administrative support .....	15,692	16,069	304	314
Technicians and related support .....	1,282	1,400	383	408
Sales occupations .....	3,206	3,428	268	275
Administrative support, including clerical .....	11,204	11,241	303	313
Service occupations .....	4,308	4,215	210	217
Private household .....	313	292	126	146
Protective service .....	155	232	340	337
Service, except private household and protective .....	3,840	3,691	213	220
Precision production, craft, and repair .....	956	847	311	305
Mechanics and repairers .....	170	137	396	473
Construction trades .....	59	57	( <sup>1</sup> )	( <sup>1</sup> )
Other precision production, craft, and repair .....	726	653	293	290
Operators, fabricators, and laborers .....	3,646	3,852	236	251
Machine operators, assemblers, and inspectors .....	2,861	3,134	237	248
Transportation and material moving occupations .....	232	211	274	287
Handlers, equipment cleaners, helpers, and laborers .....	553	507	218	251
Farming, forestry, and fishing .....	178	171	186	213

<sup>1</sup> Data not shown where base is less than 100,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-76. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin**

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Total United States		Metropolitan areas					
	 1988	 1989	Total		Central cities		Suburbs	
			 1988	 1989	 1988	 1989	 1988	 1989
<b>TOTAL</b>								
Civilian noninstitutional population .....	184,389	186,178	143,512	144,589	57,216	57,102	86,296	87,488
Civilian labor force .....	121,355	123,780	95,843	97,391	36,926	37,022	58,916	60,370
Percent of population .....	65.8	66.5	66.8	67.4	64.5	64.8	68.3	69.0
Employed .....	114,778	117,368	90,801	92,449	34,403	34,516	56,397	57,933
Unemployed .....	6,577	6,412	5,042	4,942	2,523	2,506	2,519	2,436
Unemployment rate .....	5.4	5.2	5.3	5.1	6.8	6.8	4.3	4.0
Not in labor force .....	63,034	62,398	47,670	47,198	20,290	20,080	27,380	27,118
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	80,418	81,510	62,539	63,302	24,616	24,582	37,923	38,720
Civilian labor force .....	62,757	63,732	49,432	50,099	18,898	18,777	30,534	31,322
Percent of population .....	78.0	78.2	79.0	79.1	76.8	76.4	80.5	80.9
Employed .....	59,866	61,006	47,208	47,988	17,749	17,668	29,460	30,320
Unemployed .....	2,891	2,726	2,223	2,111	1,149	1,109	1,074	1,002
Unemployment rate .....	4.6	4.3	4.5	4.2	6.1	5.9	3.5	3.2
Not in labor force .....	17,661	17,778	13,107	13,204	5,718	5,805	7,389	7,398
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	89,397	90,425	89,672	70,311	28,333	28,396	41,339	41,915
Civilian labor force .....	50,437	51,951	40,076	41,082	15,857	16,089	24,218	24,992
Percent of population .....	56.4	57.5	57.5	58.4	56.0	56.7	58.6	59.6
Employed .....	48,051	49,551	38,257	39,232	14,926	15,138	23,331	24,094
Unemployed .....	2,386	2,400	1,818	1,849	931	951	887	898
Unemployment rate .....	4.7	4.8	4.5	4.5	5.9	5.9	3.7	3.6
Not in labor force .....	38,960	38,475	29,596	29,229	12,476	12,307	17,121	16,923
<b>Both sexes, 18 to 19 years</b>								
Civilian noninstitutional population .....	14,574	14,243	11,301	10,976	4,267	4,123	7,034	6,853
Civilian labor force .....	8,161	8,098	6,335	6,211	2,171	2,155	4,164	4,055
Percent of population .....	56.0	56.9	56.1	56.6	50.9	52.3	59.2	59.2
Employed .....	8,861	8,812	5,335	5,229	1,729	1,710	3,606	3,519
Unemployed .....	1,300	1,286	1,000	982	443	446	557	536
Unemployment rate .....	15.9	15.9	15.8	15.8	20.4	20.7	13.4	13.2
Not in labor force .....	8,413	6,145	4,966	4,765	2,096	1,968	2,870	2,797
<b>White</b>								
Civilian noninstitutional population .....	158,048	159,198	121,454	121,971	42,778	42,474	78,676	79,497
Civilian labor force .....	104,633	106,401	81,524	82,569	27,902	27,839	53,621	54,731
Percent of population .....	66.2	66.8	67.1	67.7	65.2	65.5	68.2	68.8
Employed .....	99,875	101,741	77,957	79,072	26,427	26,365	51,529	52,707
Unemployed .....	4,758	4,660	3,567	3,497	1,475	1,474	2,092	2,023
Unemployment rate .....	4.5	4.4	4.4	4.2	5.3	5.3	3.9	3.7
Not in labor force .....	53,415	52,798	39,930	39,402	14,876	14,636	25,055	24,766
<b>Black</b>								
Civilian noninstitutional population .....	20,651	20,985	17,090	17,400	11,924	12,049	5,166	5,350
Civilian labor force .....	13,071	13,415	11,089	11,308	7,377	7,479	3,692	3,829
Percent of population .....	63.3	63.9	64.8	65.0	61.9	62.1	71.5	71.6
Employed .....	11,477	11,868	9,762	10,018	6,418	6,534	3,344	3,484
Unemployed .....	1,594	1,547	1,307	1,290	959	945	348	344
Unemployment rate .....	12.2	11.5	11.8	11.4	13.0	12.6	9.4	9.0
Not in labor force .....	7,580	7,569	6,021	6,092	4,547	4,570	1,474	1,522
<b>Hispanic origin</b>								
Civilian noninstitutional population .....	13,268	13,731	12,372	12,687	7,231	7,440	5,142	5,247
Civilian labor force .....	8,908	9,316	8,280	8,607	4,686	4,832	3,594	3,775
Percent of population .....	67.1	67.8	66.9	67.8	64.8	64.9	69.9	71.9
Employed .....	8,131	8,571	7,583	7,929	4,251	4,398	3,332	3,531
Unemployed .....	777	745	697	678	435	435	262	244
Unemployment rate .....	8.7	8.0	8.4	7.9	9.3	9.0	7.3	6.5
Not in labor force .....	4,360	4,415	4,093	4,080	2,545	2,608	1,548	1,472

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-76. Employment status of the civilian noninstitutional population in metropolitan, nonmetropolitan, urban, and rural areas by sex, age, race, and Hispanic origin—Continued**

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		1988	1989	1988	1989
	1988	1989	1988	1989	1988	1989				
<b>TOTAL</b>										
Civilian noninstitutional population .....	40,877	41,588	2,920	2,705	37,957	38,884	135,653	136,205	48,736	49,972
Civilian labor force .....	25,513	26,389	2,055	1,888	23,458	24,501	89,853	90,877	31,503	32,903
Percent of population .....	62.4	63.5	70.4	69.8	61.8	63.0	66.2	66.7	64.6	65.8
Employed .....	23,978	24,919	2,017	1,852	21,960	23,067	84,882	85,993	29,897	31,375
Unemployed .....	1,535	1,470	37	36	1,498	1,434	4,971	4,884	1,606	1,528
Unemployment rate .....	6.0	5.6	1.8	1.9	6.4	5.9	5.5	5.4	5.1	4.6
Not in labor force .....	15,364	15,200	865	816	14,499	14,383	45,801	45,328	17,233	17,069
<b>Men, 20 years and over</b>										
Civilian noninstitutional population .....	17,865	18,195	1,394	1,300	16,471	16,896	58,594	59,075	21,810	22,423
Civilian labor force .....	13,314	13,626	1,170	1,080	12,144	12,546	45,949	46,286	16,796	17,439
Percent of population .....	74.5	74.9	84.0	83.1	73.7	74.3	78.4	78.4	77.0	77.8
Employed .....	12,646	13,011	1,156	1,069	11,491	11,942	43,739	44,193	16,116	16,805
Unemployed .....	668	615	15	11	653	604	2,211	2,092	680	634
Unemployment rate .....	5.0	4.5	1.3	1.0	5.4	4.8	4.8	4.5	4.1	3.6
Not in labor force .....	4,551	4,570	223	220	4,328	4,350	12,645	12,789	5,013	4,984
<b>Women, 20 years and over</b>										
Civilian noninstitutional population .....	19,739	20,126	1,262	1,195	18,477	18,931	66,628	67,038	22,783	23,399
Civilian labor force .....	10,373	10,876	714	679	9,659	10,197	38,088	38,891	12,360	13,067
Percent of population .....	52.5	54.0	56.6	56.8	52.3	53.9	57.2	58.0	54.3	55.8
Employed .....	9,805	10,326	705	666	9,100	9,659	36,288	37,041	11,774	12,517
Unemployed .....	568	550	9	13	559	538	1,800	1,850	586	550
Unemployment rate .....	5.5	5.1	1.3	1.9	5.8	5.3	4.7	4.8	4.7	4.2
Not in labor force .....	9,366	9,250	548	516	8,819	8,733	28,539	28,148	10,423	10,332
<b>Both sexes, 16 to 19 years</b>										
Civilian noninstitutional population .....	3,273	3,267	264	209	3,009	3,058	10,432	10,092	4,143	4,151
Civilian labor force .....	1,826	1,887	170	129	1,656	1,758	5,815	5,700	2,346	2,397
Percent of population .....	55.8	57.8	64.5	61.6	55.0	57.5	55.7	56.5	56.6	57.8
Employed .....	1,526	1,583	157	117	1,369	1,466	4,855	4,759	2,007	2,053
Unemployed .....	300	304	13	12	287	292	961	942	339	344
Unemployment rate .....	16.4	16.1	7.7	9.5	17.3	16.6	16.5	16.5	14.5	14.4
Not in labor force .....	1,447	1,380	94	80	1,353	1,300	4,616	4,391	1,797	1,754
<b>White</b>										
Civilian noninstitutional population .....	36,594	37,227	2,839	2,654	33,755	34,573	112,898	112,807	45,149	46,391
Civilian labor force .....	23,109	23,831	2,002	1,857	21,107	21,974	75,230	75,679	29,403	30,722
Percent of population .....	63.2	64.0	70.5	70.0	62.5	63.6	66.6	67.1	65.1	66.2
Employed .....	21,918	22,669	1,969	1,823	19,949	20,846	71,837	72,321	28,037	29,420
Unemployed .....	1,191	1,163	33	34	1,158	1,129	3,392	3,358	1,366	1,302
Unemployment rate .....	5.2	4.9	1.7	1.8	5.5	5.1	4.5	4.4	4.6	4.2
Not in labor force .....	13,485	13,396	837	797	12,648	12,599	37,669	37,128	15,746	15,669
<b>Black</b>										
Civilian noninstitutional population .....	3,561	3,585	63	33	3,499	3,552	17,722	18,106	2,930	2,878
Civilian labor force .....	2,003	2,107	42	21	1,961	2,086	11,344	11,661	1,728	1,754
Percent of population .....	56.2	58.8	66.3	( <sup>1</sup> )	56.0	58.7	64.0	64.4	59.0	60.9
Employed .....	1,715	1,850	38	19	1,677	1,830	9,941	10,302	1,536	1,566
Unemployed .....	288	258	3	2	284	256	1,402	1,359	192	188
Unemployment rate .....	14.4	12.2	( <sup>1</sup> )	( <sup>1</sup> )	14.5	12.3	12.4	11.7	11.1	10.7
Not in labor force .....	1,559	1,478	21	11	1,538	1,466	6,378	6,445	1,202	1,124
<b>Hispanic origin</b>										
Civilian noninstitutional population .....	896	1,044	44	34	851	1,010	12,256	12,591	1,013	1,140
Civilian labor force .....	628	709	35	24	594	685	8,194	8,520	714	796
Percent of population .....	70.2	67.9	( <sup>1</sup> )	( <sup>1</sup> )	69.7	67.8	66.9	67.7	70.5	69.9
Employed .....	548	642	33	24	515	618	7,489	7,834	643	737
Unemployed .....	80	67	2	-	78	67	705	686	71	59
Unemployment rate .....	12.7	9.4	( <sup>1</sup> )	( <sup>1</sup> )	13.2	9.7	8.6	8.1	10.0	7.4
Not in labor force .....	267	335	10	10	258	325	4,061	4,072	299	343

<sup>1</sup> Data not shown where base is less than 60,000.

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-77. Employment status of the civilian noninstitutional population in poverty and nonpoverty areas by race and Hispanic origin**

(Numbers in thousands)

Employment status, race, and Hispanic origin	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
<b>TOTAL</b>												
Civilian noninstitutional population .....	27,536	27,400	156,854	158,777	18,174	18,049	125,338	126,541	9,362	9,352	31,515	32,237
Civilian labor force .....	15,640	15,720	105,715	108,060	10,244	10,230	85,598	87,161	5,396	5,489	20,117	20,899
Percent of population .....	56.8	57.4	67.4	68.1	56.4	56.7	68.3	68.9	57.6	58.7	63.8	64.8
Employed .....	13,953	14,126	100,826	103,243	9,041	9,079	81,760	83,370	4,912	5,046	19,066	19,873
Unemployed .....	1,688	1,594	4,890	4,818	1,204	1,151	3,838	3,791	484	443	1,052	1,027
Unemployment rate .....	10.8	10.1	4.6	4.5	11.8	11.2	4.5	4.3	9.0	8.1	5.2	4.9
Men, 20 years and over .....	9.5	8.5	3.9	3.7	10.8	9.6	3.8	3.6	7.3	6.6	4.4	4.0
Women, 20 years and over .....	9.7	9.0	4.0	4.0	10.3	9.9	3.8	3.9	8.4	7.2	4.7	4.5
Both sexes, 16 to 19 years .....	27.4	28.7	14.2	13.8	28.4	30.0	14.2	13.9	25.4	26.1	14.2	13.8
Men .....	26.3	26.6	14.4	14.6	28.8	28.7	14.7	14.6	21.9	22.6	13.2	14.7
Women .....	28.6	31.1	14.1	13.0	28.0	31.3	13.8	13.1	29.9	30.6	15.3	12.9
Not in labor force .....	11,896	11,681	51,138	50,717	7,930	7,818	39,740	39,380	3,966	3,862	11,398	11,337
<b>White</b>												
Civilian noninstitutional population .....	16,562	16,603	141,486	142,595	9,782	9,733	111,672	112,238	6,780	6,870	29,814	30,357
Civilian labor force .....	9,705	9,761	94,927	96,640	5,661	5,652	75,863	76,917	4,044	4,109	19,065	19,723
Percent of population .....	58.6	58.8	67.1	67.8	57.9	58.1	67.9	68.5	59.6	59.8	63.9	65.0
Employed .....	8,938	9,002	90,936	92,739	5,147	5,145	72,810	73,927	3,791	3,857	18,126	18,811
Unemployed .....	767	759	3,991	3,901	514	507	3,053	2,990	253	251	938	911
Unemployment rate .....	7.9	7.8	4.2	4.0	9.1	9.0	4.0	3.9	6.3	6.1	4.9	4.6
Men, 20 years and over .....	7.1	6.6	3.6	3.3	8.4	7.4	3.4	3.2	5.3	5.5	4.1	3.6
Women, 20 years and over .....	6.7	7.2	3.6	3.6	7.6	8.6	3.4	3.4	5.5	5.3	4.4	4.3
Both sexes, 16 to 19 years .....	20.8	20.6	12.9	12.6	22.2	22.6	12.8	12.4	18.6	17.2	13.1	13.2
Men .....	20.4	19.3	13.1	13.1	23.1	22.5	13.3	12.8	16.6	14.6	12.5	14.2
Women .....	21.2	22.1	12.7	11.9	21.2	22.8	12.4	11.9	21.3	20.8	13.8	12.0
Not in labor force .....	6,856	6,843	46,559	45,955	4,121	4,081	35,810	35,321	2,736	2,762	10,749	10,634
<b>Black</b>												
Civilian noninstitutional population .....	9,907	9,707	10,745	11,277	7,643	7,521	9,447	9,879	2,263	2,187	1,298	1,398
Civilian labor force .....	5,357	5,361	7,715	8,054	4,176	4,139	6,893	7,168	1,181	1,221	821	886
Percent of population .....	54.1	55.2	71.8	71.4	54.6	55.0	73.0	72.6	52.2	55.9	63.3	63.4
Employed .....	4,510	4,580	6,967	7,288	3,524	3,527	6,238	6,491	985	1,053	730	797
Unemployed .....	847	781	747	767	651	612	655	677	196	168	92	89
Unemployment rate .....	15.8	14.6	9.7	9.5	15.6	14.8	9.5	9.4	16.6	13.8	11.2	10.1
Men, 20 years and over .....	14.2	12.8	8.2	8.1	14.9	14.0	7.9	7.8	12.2	9.0	10.0	10.0
Women, 20 years and over .....	14.0	11.8	8.2	8.0	13.3	11.5	8.2	8.1	16.9	13.0	8.1	7.6
Both sexes, 16 to 19 years .....	39.6	42.0	30.4	30.6	37.8	40.9	29.1	31.2	45.7	45.4	( <sup>1</sup> )	26.4
Men .....	37.1	39.0	28.2	33.4	37.5	37.8	27.8	34.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	42.5	45.1	33.1	27.5	38.3	44.1	30.7	27.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	4,550	4,347	3,030	3,223	3,468	3,381	2,554	2,711	1,082	965	477	512
<b>Hispanic origin</b>												
Civilian noninstitutional population .....	4,660	4,609	8,608	9,122	4,303	4,230	8,070	8,457	357	379	539	665
Civilian labor force .....	2,791	2,723	6,117	6,593	2,554	2,487	5,726	6,121	237	236	391	472
Percent of population .....	59.9	59.1	71.1	72.3	59.4	58.8	71.0	72.4	66.5	62.3	72.5	71.0
Employed .....	2,460	2,421	5,672	6,150	2,256	2,211	5,327	5,717	204	209	344	433
Unemployed .....	332	302	445	443	298	275	399	403	33	27	47	40
Unemployment rate .....	11.9	11.1	7.3	6.7	11.7	11.1	7.0	6.6	14.1	11.5	11.9	8.4
Men, 20 years and over .....	10.1	8.2	5.8	4.9	10.0	8.0	5.6	4.7	11.1	9.9	9.5	7.5
Women, 20 years and over .....	10.7	12.3	5.7	7.0	10.4	12.4	5.3	7.0	13.7	11.9	11.1	6.3
Both sexes, 16 to 19 years .....	28.5	25.8	25.9	20.2	28.1	25.9	25.2	19.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	26.3	25.9	26.1	19.3	25.2	26.2	26.0	19.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	31.2	25.7	25.6	21.7	31.6	25.5	24.2	20.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	1,868	1,886	2,492	2,529	1,749	1,743	2,344	2,336	119	143	148	193

<sup>1</sup> Data not shown where base is less than 60,000.

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. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.



**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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>o</sup>	June 1989 <sup>o</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>o</sup>	June 1989 <sup>o</sup>
<b>Total</b> .....		105,533	106,459	107,944	108,742	109,418					
<b>Total private</b> .....		87,861	89,033	89,975	90,716	91,634	71,133	72,161	72,751	73,425	74,232
<b>Mining</b> .....		722	730	711	719	714	520	527	511	517	512
Metal mining .....	10	50.3	51.5	59.5	61.2		38.7	39.7	47.2	48.5	
Iron ores .....	101	8.1	8.3	9.0	9.3		6.5	6.8	7.4	7.6	
Copper ores .....	102	13.7	13.3	13.9	14.0		10.7	10.3	11.0	11.1	
Coal mining .....	11,12	149.6	150.7	143.2	144.0		121.9	122.5	117.5	117.9	
Bituminous coal and lignite mining .....	12	147.6	148.6	141.0	141.8		120.1	120.7	115.6	116.0	
Oil and gas extraction .....	13	406.8	409.7	394.0	395.3	396.3	270.8	273.5	258.7	260.1	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	201.1	201.8	196.1	196.0	-	100.9	101.5	97.5	97.1	
Oil and gas field services .....	138	205.7	207.9	197.9	199.3		169.9	172.0	161.2	163.0	
Nonmetallic minerals, except fuels .....	14	115.6	117.9	114.7	118.1		88.8	90.9	87.7	90.6	
Crushed and broken stone .....	142	42.3	43.0	41.5	42.6		33.5	34.1	32.8	33.9	
Sand and gravel .....	144	36.5	37.7	35.2	37.1		-	-	-	-	
Chemical and fertilizer minerals .....	147	16.7	16.8	17.7	17.8						
<b>Construction</b> .....		5,141	5,341	5,121	5,320	5,481	4,022	4,207	3,960	4,149	4,293
General building contractors .....	15	1,362.7	1,423.0	1,331.7	1,381.4	1,431.3	995.4	1,053.3	955.4	1,002.4	
Residential building construction .....	152	731.3	768.0	716.2	746.0	-	521.9	557.2	500.1	527.9	
Operative builders .....	153	47.9	49.8	45.3	45.2		22.4	23.7	19.6	19.9	
Nonresidential building construction .....	154	583.5	605.2	570.2	590.2		451.1	472.4	435.7	454.6	
Heavy construction contractors .....	16	796.3	821.2	775.3	823.4		672.4	695.3	642.6	689.2	
Highway and street construction .....	161	275.4	291.1	236.4	266.2		231.2	246.4	191.4	220.3	
Heavy construction, except highway .....	162	520.9	530.1	538.9	557.2		441.2	448.9	451.2	468.9	
Special trade contractors .....	17	2,982.4	3,096.9	3,013.8	3,114.7		2,354.2	2,458.4	2,361.9	2,457.0	
Plumbing, heating, and air conditioning .....	171	642.5	662.1	661.3	671.2		473.9	490.2	486.7	495.7	-
Painting, paper hanging, and decorating .....	172	172.9	183.2	170.4	179.9		145.0	155.2	140.9	150.4	
Electrical work .....	173	532.3	549.7	540.7	549.5		412.3	427.6	415.6	423.2	
Masonry, stonework, and plastering .....	174	489.7	513.0	492.9	511.4		422.1	444.2	421.5	439.7	
Carpentering and flooring .....	175	192.7	198.8	197.1	198.3		149.1	155.8	153.4	154.1	
Roofing and sheet metal work .....	176	206.1	214.7	208.0	214.7		163.3	171.2	164.7	170.8	
<b>Manufacturing</b> .....		19,308	19,510	19,580	19,612	19,741	13,186	13,336	13,362	13,390	13,488
<b>Durable goods</b> .....		11,395	11,497	11,573	11,584	11,627	7,612	7,683	7,727	7,739	7,769
Lumber and wood products .....	24	761.2	779.3	757.8	768.0	783.8	634.8	650.9	628.4	638.2	651.6
Logging camps and logging contractors .....	241	85.7	93.1	83.1	89.3	-	70.6	77.3	67.3	73.3	-
Sawmills and planing mills .....	242	206.4	205.6	206.6	208.3		182.1	181.0	180.6	182.2	
Sawmills and planing mills, general .....	2421	168.0	167.1	167.7	169.0		148.2	147.0	146.4	147.8	
Hardwood dimension and flooring .....	2426	34.9	35.0	35.2	35.6		30.8	31.0	31.1	31.3	
Millwork, plywood, and structural members .....	243	269.0	275.8	268.9	271.3		221.7	227.6	220.1	222.1	
Millwork .....	2431	106.4	111.7	107.4	109.1		85.9	90.6	86.7	88.3	
Wood kitchen cabinets .....	2434	72.2	73.3	72.4	72.6		57.9	58.8	57.8	57.8	
Hardwood veneer and plywood .....	2435	24.1	24.5	24.7	24.8		21.1	21.5	21.5	21.5	
Softwood veneer and plywood .....	2436	37.5	36.7	35.1	35.0		34.1	33.2	31.5	31.5	
Wood containers .....	244	44.2	45.1	43.8	43.8		37.7	38.5	37.1	37.2	
Wood buildings and mobile homes .....	245	69.9	72.4	69.5	70.0		52.5	54.9	52.7	53.4	
Mobile homes .....	2451	45.8	47.4	48.6	49.4		37.0	38.6	39.5	40.2	
Miscellaneous wood products .....	249	86.0	87.3	85.9	85.3		70.2	71.6	70.6	70.0	

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	526.7	527.2	536.0	531.6	530.0	419.2	420.3	427.0	424.4	422.8
Household furniture .....	251	309.0	306.6	313.1	310.2	-	260.8	259.2	264.9	262.3	-
Wood household furniture .....	2511	138.5	138.2	138.6	137.7	-	121.0	120.9	121.2	120.4	-
Upholstered household furniture .....	2512	98.6	100.1	102.1	101.8	-	82.6	83.9	85.6	85.4	-
Metal household furniture .....	2514	28.5	26.4	28.5	26.8	-	23.2	21.1	23.3	21.6	-
Mattresses and bedsprings .....	2515	30.0	30.1	30.5	30.3	-	22.9	23.3	23.4	23.3	-
Office furniture .....	252	69.5	70.5	71.3	69.5	-	52.2	53.1	52.2	52.2	-
Public building and related furniture .....	253	32.6	33.3	34.8	34.8	-	25.1	25.8	27.4	27.2	-
Partitions and fixtures .....	254	78.6	79.2	79.1	79.1	-	56.6	57.1	57.1	57.0	-
Miscellaneous furniture and fixtures .....	259	37.0	37.6	37.7	38.0	-	24.5	25.1	25.4	25.7	-
Stone, clay, and glass products .....	32	604.3	613.0	603.3	609.9	619.5	471.0	478.9	469.4	475.2	483.3
Flat glass .....	321	15.4	15.8	16.4	16.3	-	12.0	12.4	13.3	13.2	-
Glass and glassware, pressed or blown .....	322	86.2	87.2	83.6	84.2	-	74.5	75.7	72.3	72.8	-
Glass containers .....	3221	44.5	45.3	41.8	42.5	-	40.3	41.2	38.0	38.7	-
Pressed and blown glass, nec .....	3229	41.7	41.9	41.8	41.7	-	34.2	34.5	34.3	34.1	-
Products of purchased glass .....	323	53.8	54.8	55.7	55.8	-	40.0	41.0	42.9	42.8	-
Cement, hydraulic .....	324	19.7	20.0	19.3	19.4	-	15.1	15.4	14.6	14.7	-
Structural clay products .....	325	39.0	39.5	38.4	38.6	-	30.5	30.8	29.9	30.0	-
Pottery and related products .....	326	37.3	37.8	38.2	38.4	-	30.0	30.4	30.5	30.6	-
Concrete, gypsum, and plaster products .....	327	221.2	224.3	214.7	219.7	-	171.6	174.0	164.6	169.3	-
Concrete block and brick .....	3271	20.9	21.2	19.3	19.9	-	13.8	14.0	12.5	13.0	-
Concrete products, nec .....	3272	74.0	75.0	75.3	75.7	-	56.3	57.0	57.4	57.7	-
Ready-mixed concrete .....	3273	106.5	108.1	100.2	104.3	-	86.2	87.5	79.5	83.3	-
Misc. nonmetallic mineral products .....	329	117.8	119.6	121.2	121.7	-	86.3	88.2	89.1	89.4	-
Abrasive products .....	3291	21.7	22.1	22.6	22.8	-	15.0	15.4	16.0	16.2	-
Asbestos products .....	3292	8.8	9.1	8.9	8.9	-	6.6	6.8	6.7	6.7	-
Mineral wool .....	3296	26.1	26.3	26.6	26.8	-	-	-	-	-	-
Primary metal industries .....	33	769.9	777.2	788.7	786.8	791.2	589.6	595.8	603.7	601.5	604.9
Blast furnaces and basic steel products .....	331	277.5	279.0	275.2	275.3	276.7	215.3	216.7	212.8	212.6	213.0
Blast furnaces and steel mills .....	3312	209.0	209.6	206.2	206.2	-	163.4	164.0	161.0	160.6	-
Steel pipe and tubes .....	3317	24.7	25.1	24.9	24.8	-	18.9	19.1	18.8	18.7	-
Iron and steel foundries .....	332	136.6	138.9	145.7	144.9	-	109.5	111.5	116.3	115.5	-
Gray iron foundries .....	3321	84.6	85.9	87.9	87.6	-	69.3	70.4	72.3	71.9	-
Malleable iron foundries .....	3322	9.3	9.6	9.8	9.8	-	7.0	7.1	7.4	7.4	-
Steel foundries, nec .....	3325	28.2	28.6	31.9	31.3	-	21.9	22.4	25.2	24.6	-
Primary nonferrous metals .....	333	43.6	43.9	45.3	45.4	-	32.3	32.4	33.9	34.1	-
Primary aluminum .....	3334	25.8	26.0	26.9	27.0	-	19.4	19.5	20.7	20.9	-
Nonferrous rolling and drawing .....	335	179.9	181.3	182.6	182.0	-	129.3	130.4	131.1	130.4	-
Copper rolling and drawing .....	3351	23.5	23.6	23.5	23.5	-	18.0	18.1	18.0	18.0	-
Aluminum sheet, plate, and foil .....	3353	28.2	28.1	28.4	28.4	-	19.7	19.6	19.2	19.1	-
Nonferrous wire drawing and insulating .....	3357	76.4	77.5	78.2	77.6	-	55.3	56.2	57.2	56.6	-
Nonferrous foundries .....	336	87.4	88.7	92.3	91.7	-	70.1	71.3	74.1	73.5	-
Aluminum foundries .....	3361	53.9	54.8	55.1	54.8	-	44.0	44.9	45.0	44.7	-
Fabricated metal products .....	34	1,423.9	1,438.6	1,449.5	1,450.6	1,454.6	1,061.2	1,073.6	1,076.5	1,077.5	1,082.1
Metal cans and shipping containers .....	341	53.4	53.7	52.3	52.9	-	45.6	46.1	45.0	45.5	-
Metal cans .....	3411	42.8	43.1	41.4	41.7	-	36.9	37.4	36.0	36.2	-
Cutlery, hand tools, and hardware .....	342	140.7	140.5	136.6	136.1	-	104.6	104.6	101.3	100.6	-
Hand and edge tools, and hand saws and blades .....	3423.5	47.7	47.5	46.2	46.0	-	35.0	34.8	33.8	33.5	-
Hardware, nec .....	3429	82.0	82.0	79.2	78.9	-	62.1	62.2	59.8	59.4	-
Plumbing and heating, except electric .....	343	58.7	59.7	59.8	60.0	-	42.2	43.1	43.3	43.5	-
Plumbing fittings and brass goods .....	3432	24.8	24.9	26.1	25.9	-	18.1	18.1	19.6	19.3	-
Heating equipment, except electric .....	3433	20.8	21.3	21.0	21.4	-	14.0	14.6	14.0	14.4	-
Fabricated structural metal products .....	344	424.3	431.4	432.2	434.2	-	303.4	309.4	308.0	309.8	-
Fabricated structural metal .....	3441	76.3	77.1	78.5	78.9	-	54.7	55.7	56.3	56.6	-
Metal doors, sash, and trim .....	3442	83.1	85.8	81.7	83.3	-	61.2	63.4	59.2	60.8	-
Fabricated plate work (boiler shops) .....	3443	100.9	102.6	107.3	107.4	-	67.4	68.7	72.7	72.6	-
Sheet metal work .....	3444	99.4	99.8	99.4	99.3	-	74.9	75.1	74.2	74.3	-
Architectural metal work .....	3446	31.7	32.6	33.2	33.0	-	23.6	24.1	24.1	23.8	-

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Screw machine products, bolts, etc .....	345	99.6	100.6	101.9	101.4		76.0	77.0	77.9	77.3	
Screw machine products .....	3451	49.5	50.1	50.6	50.1		40.5	41.1	41.3	40.8	
Bolts, nuts, rivets, and washers .....	3452	50.1	50.5	51.3	51.3		35.5	35.9	36.6	36.5	
Metal forgings and stampings .....	346	228.5	230.8	237.1	236.3		182.4	184.9	189.7	189.2	
Iron and steel forgings .....	3462	31.8	32.1	33.6	33.4		24.4	24.7	25.9	25.7	
Automotive stampings .....	3465	103.0	103.6	106.9	106.3		87.4	88.2	90.6	90.0	
Metal stampings, nec .....	3469	81.1	82.4	84.0	83.9		61.3	62.6	63.7	63.9	-
Metal services, nec .....	347	120.3	122.4	129.1	129.9		96.7	98.2	102.6	103.2	
Plating and polishing .....	3471	78.0	79.4	83.4	83.8		63.1	64.1	66.7	66.9	
Metal coating and allied services .....	3479	42.3	43.0	45.7	46.1		33.6	34.1	35.9	36.3	
Ordnance and accessories, nec .....	348	76.8	77.0	73.1	72.3		48.0	47.9	43.8	43.5	
Ammunition, except for small arms, nec .....	3483	42.8	42.9	40.7	40.1		24.0	23.8	21.4	21.2	
Misc. fabricated metal products .....	349	221.6	222.5	227.4	227.5		162.3	162.4	164.9	164.9	
Valves and pipe fittings .....	3494	74.4	75.2	78.1	78.4		50.5	50.7	52.4	52.6	
Misc. fabricated wire products .....	3496	54.7	54.2	55.8	55.6		42.1	41.6	42.5	42.6	
Machinery, except electrical .....	35	2,070.3	2,087.1	2,148.4	2,152.6	2,162.1	1,246.8	1,254.0	1,303.1	1,307.7	1,312.7
Engines and turbines .....	351	92.2	93.2	97.9	98.3	-	61.3	61.9	64.3	65.0	-
Turbines and turbine generator sets .....	3511	24.4	24.6	27.4	27.8		14.0	14.3	16.0	16.4	
Internal combustion engines, nec .....	3519	67.8	68.6	70.5	70.5		47.3	47.6	48.3	48.6	
Farm and garden machinery .....	352	105.4	104.4	111.7	110.4		74.9	73.8	81.5	80.1	
Farm machinery and equipment .....	3523	75.4	76.3	80.3	80.3		51.2	51.9	56.8	56.7	
Construction and related machinery .....	353	226.2	230.0	236.6	238.0		138.6	140.0	145.6	146.7	
Construction machinery .....	3531	81.9	84.3	86.0	86.6		51.5	51.7	53.6	54.1	
Mining machinery .....	3532	16.3	16.5	16.7	16.7		10.0	10.1	10.3	10.4	
Oil field machinery .....	3533	42.0	42.0	42.5	42.7		25.3	25.2	25.1	25.2	
Conveyors and conveying equipment .....	3535	34.3	34.7	36.2	36.2		18.3	18.7	19.8	19.9	
Industrial trucks and tractors .....	3537	27.0	27.3	28.2	28.6		18.6	18.9	19.5	19.6	
Metalworking machinery .....	354	310.2	312.6	334.7	335.6		221.6	223.5	242.0	243.3	
Machine tools, metal cutting types .....	3541	48.8	48.8	53.2	53.6		30.8	31.0	34.8	35.2	
Machine tools, metal forming types .....	3542	18.2	18.5	19.4	19.4		11.7	11.8	12.6	12.6	
Special dies, tools, jigs, and fixtures .....	3544	146.6	146.9	157.2	157.5		112.0	112.4	121.2	121.7	
Machine tool accessories .....	3545	56.7	57.8	61.8	61.7		40.1	40.8	44.0	44.2	
Power driven hand tools .....	3546	22.5	22.6	23.5	23.7		16.4	16.4	16.9	17.0	
Special industry machinery .....	355	169.3	171.0	179.2	179.5		101.1	102.5	107.4	107.5	-
Food products machinery .....	3551	34.7	34.8	36.0	36.2		20.9	21.1	21.7	21.9	
Textile machinery .....	3552	20.8	21.0	21.2	21.2		13.9	14.0	14.0	14.0	
Printing trades machinery .....	3555	28.4	28.7	29.5	29.5		17.0	17.3	17.3	17.4	
General industrial machinery .....	356	247.4	249.2	256.2	256.8		159.6	160.9	166.6	166.7	
Pumps and pumping equipment .....	3561	43.8	44.1	46.0	46.2		25.4	25.7	26.7	26.7	-
Ball and roller bearings .....	3562	42.3	42.7	43.7	43.8		32.9	33.2	34.2	34.4	
Air and gas compressors .....	3563	22.4	22.7	22.4	22.6		13.1	13.3	12.9	12.9	-
Blowers and fans .....	3564	30.8	30.8	31.5	31.5		19.8	19.7	21.0	21.1	
Speed changers, drives, and gears .....	3566	16.8	16.9	17.7	17.7		11.6	11.6	12.4	12.3	
Power transmission equipment, nec .....	3568	18.1	18.3	18.9	18.9		12.3	12.4	13.0	12.9	
Office and computing machines .....	357	470.4	474.9	473.7	473.8		155.8	155.7	154.7	155.5	
Electronic computing equipment .....	3573	414.6	418.9	418.7	418.8		128.7	129.1	129.1	129.6	
Refrigeration and service machinery .....	358	185.8	186.8	188.3	189.8		134.0	134.8	135.8	137.1	
Refrigeration and heating equipment .....	3585	129.5	130.3	131.5	133.0		96.0	96.7	97.8	98.9	
Misc. machinery, except electrical .....	359	263.4	265.0	270.1	270.4		199.9	200.9	205.2	205.8	
Carburetors, pistons, rings, and valves .....	3592	31.0	31.0	30.5	30.2		24.8	24.8	24.1	24.0	
Machinery, except electrical, nec .....	3599	232.4	234.0	239.6	240.2		175.1	176.1	181.1	181.8	
Electrical and electronic equipment .....	36	2,056.2	2,074.8	2,047.8	2,040.5	2,044.9	1,212.9	1,223.9	1,205.8	1,199.5	1,204.8
Electric distributing equipment .....	361	105.4	105.9	108.4	107.1	-	75.6	75.8	76.6	75.6	-
Transformers .....	3612	52.7	52.5	53.6	53.0		37.9	37.8	38.4	38.0	-
Switchgear and switchboard apparatus .....	3613	52.7	53.4	54.8	54.1		37.7	38.0	38.2	37.6	
Electrical industrial apparatus .....	362	182.8	185.1	186.3	187.3		127.8	129.5	130.6	131.5	
Motors and generators .....	3621	90.2	91.4	90.8	91.1		70.6	71.6	71.4	71.8	
Industrial controls .....	3622	58.7	59.4	60.8	61.2		34.4	34.8	36.2	36.6	
Household appliances .....	363	137.0	138.2	137.8	137.9		109.2	110.6	110.4	110.7	
Household refrigerators and freezers .....	3632	29.4	29.2	29.2	28.6		23.8	24.0	23.7	23.4	
Household laundry equipment .....	3633	22.8	22.8	22.3	22.2		18.4	18.5	18.1	18.1	
Electric housewares and fans .....	3634	36.4	36.8	37.1	37.2		28.5	28.7	29.3	29.4	-

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>o</sup>	June 1989 <sup>o</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>o</sup>	June 1989 <sup>o</sup>
<b>Durable goods—Continued</b>											
<b>Electrical and electronic equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	197.2	198.1	201.0	199.1		143.3	143.7	145.3	143.5	
Electric lamps .....	3641	27.0	27.1	26.5	26.5		23.2	23.2	22.6	22.6	
Current-carrying wiring devices .....	3643	78.8	78.8	78.2	78.0		52.1	51.8	51.0	50.7	
Noncurrent-carrying wiring devices .....	3644	15.9	16.2	17.1	16.9		11.6	12.0	12.8	12.6	
Residential lighting fixtures .....	3645	26.6	26.9	28.1	27.1		20.0	20.2	20.9	19.9	
Radio and TV receiving equipment .....	365	82.3	84.0	92.4	92.3		56.8	57.6	65.6	64.9	
Radio and TV receiving sets .....	3651	60.4	61.6	68.6	68.4		40.2	40.6	47.3	46.8	
Communication equipment .....	366	567.1	568.9	543.6	541.0		237.8	238.3	220.6	218.7	
Telephone and telegraph apparatus .....	3661	111.6	111.9	104.8	103.1		66.2	66.8	62.3	61.8	
Radio and TV communication equipment .....	3662	455.5	457.0	438.8	437.9		171.6	171.5	158.3	156.9	
Electronic components and accessories .....	367	630.9	639.3	621.6	620.0		354.7	359.1	346.1	345.0	
Electronic tubes .....	3671-3	39.0	39.7	38.6	38.6		25.2	25.3	24.7	24.6	
Semiconductors and related devices .....	3674	259.5	263.7	257.7	257.7		102.1	104.1	96.3	96.4	
Electronic components, nec .....	3679	256.1	258.4	251.6	250.1		171.3	172.7	170.3	169.5	
Misc. electrical equipment and supplies .....	369	153.5	155.3	156.7	155.8		107.7	109.3	110.6	109.6	
Storage batteries .....	3691	27.6	28.3	27.9	27.1		20.8	21.5	21.0	20.3	
Engine electrical equipment .....	3694	68.4	68.9	69.6	69.8		52.3	52.8	53.5	53.7	
Transportation equipment .....	37	2,056.8	2,060.0	2,075.1	2,075.6	2,064.5	1,287.6	1,287.1	1,301.7	1,301.6	1,287.8
Motor vehicles and equipment .....	371	859.3	863.2	876.7	879.6	869.6	669.7	672.9	683.1	685.6	675.8
Motor vehicles and car bodies .....	3711	359.6	359.0	364.8	369.6	-	270.0	269.2	273.7	278.1	-
Truck and bus bodies .....	3713	43.8	44.3	43.9	44.2		34.2	34.7	34.2	34.1	
Motor vehicle parts and accessories .....	3714	405.4	408.6	415.9	414.5		325.7	328.3	334.0	332.7	
Truck trailers .....	3715	30.5	30.9	31.1	30.6		24.0	24.5	24.7	24.3	
Aircraft and parts .....	372	692.4	695.2	697.9	698.8		336.8	337.7	340.3	340.3	
Aircraft .....	3721	364.5	367.2	375.6	377.5		160.0	161.6	165.9	166.1	
Aircraft engines and engine parts .....	3724	155.3	155.0	150.4	150.1		76.4	76.0	75.9	75.7	
Aircraft equipment, nec .....	3728	172.6	173.0	171.9	171.2		100.4	100.1	98.5	98.5	
Ship and boat building and repairing .....	373	199.6	196.7	191.5	189.4		152.5	149.4	143.6	141.5	
Ship building and repairing .....	3731	126.4	124.0	120.1	119.4		92.4	89.6	83.7	82.9	
Boat building and repairing .....	3732	73.2	72.7	71.4	70.0		60.1	59.8	59.9	58.6	
Railroad equipment .....	374	31.0	31.6	38.3	38.7		22.6	23.1	28.6	28.9	
Guided missiles, space vehicles, and parts .....	376	211.1	211.6	207.7	207.5		62.5	61.9	62.4	63.0	
Guided missiles and space vehicles .....	3761	153.8	154.1	152.7	152.3		42.8	42.1	42.3	42.5	
Miscellaneous transportation equipment .....	379	51.2	50.8	49.4	48.2		35.0	34.6	33.9	32.6	
Travel trailers and campers .....	3792	21.4	21.4	20.5	19.5		16.8	16.8	16.3	15.2	
Instruments and related products .....	38	741.7	751.7	775.7	777.3	782.1	408.4	414.6	427.6	429.7	432.2
Engineering and scientific instruments .....	381	93.4	94.5	99.6	99.4	-	42.2	42.6	46.1	46.3	-
Measuring and controlling devices .....	382	258.6	260.6	269.5	270.1		147.4	149.1	154.5	155.0	
Environmental controls .....	3822	48.2	48.3	49.4	49.6		31.5	31.6	33.2	33.3	
Process control instruments .....	3823	58.1	59.2	63.0	62.9		31.1	32.0	33.9	33.9	
Instruments to measure electricity .....	3825	106.7	107.2	108.6	109.1		53.9	54.2	54.9	55.2	
Optical instruments and lenses .....	383	29.5	29.8	30.7	30.5		14.9	15.2	16.2	16.3	
Medical instruments and supplies .....	384	198.5	201.5	209.9	210.7		120.9	122.7	126.2	126.8	
Surgical and medical instruments .....	3841	98.3	99.6	104.6	104.9		57.1	58.0	61.1	61.3	
Surgical appliances and supplies .....	3842	86.0	87.3	90.4	90.7		55.7	56.4	56.8	57.0	
Ophthalmic goods .....	385	39.2	39.7	39.1	39.5		26.8	27.1	26.6	27.2	
Photographic equipment and supplies .....	386	111.2	114.2	115.5	115.8		47.9	49.5	49.4	49.6	
Watches, clocks, and watchcases .....	387	11.3	11.4	11.4	11.3		8.3	8.4	8.6	8.5	
Miscellaneous manufacturing .....	39	384.0	388.2	390.2	391.5	393.8	280.5	283.8	283.5	283.5	286.5
Jewelry, silverware, and plated ware .....	391	53.1	53.4	53.6	53.7	-	37.0	37.5	38.0	38.0	-
Jewelry, precious metal .....	3911	37.8	38.0	38.7	38.7		26.2	26.6	27.3	27.3	
Musical instruments .....	393	13.1	13.2	13.4	13.4		11.0	11.0	11.0	11.0	
Toys and sporting goods .....	394	103.6	104.4	105.6	105.3		78.0	78.1	77.7	77.0	
Dolls, games, toys, and children's vehicles .....	3942.4	44.8	45.3	44.6	44.8		32.8	32.8	31.3	31.3	
Sporting and athletic goods, nec .....	3949	58.8	59.1	61.0	60.5		45.2	45.3	46.4	45.7	
Pens, pencils, office, and art supplies .....	395	34.2	34.6	34.3	34.5		24.2	24.6	23.8	24.0	
Costume jewelry and notions .....	396	40.5	41.4	41.0	42.2		31.1	32.3	32.0	33.0	
Costume jewelry .....	3961	21.0	21.5	22.2	23.1		16.1	16.6	17.1	17.8	
Miscellaneous manufactures .....	399	139.5	141.2	142.3	142.4		99.2	100.3	101.0	100.5	
Signs and advertising displays .....	3993	60.7	61.1	62.4	62.0		41.7	42.2	43.1	42.3	

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Nondurable goods</b> .....		7,913	8,013	8,007	8,028	8,114	5,574	5,653	5,635	5,651	5,719
Food and kindred products .....	20	1,592.8	1,638.8	1,600.4	1,615.3	1,659.7	1,122.0	1,163.3	1,133.1	1,145.5	1,184.3
Meat products .....	201	395.5	401.4	409.7	413.1	-	334.6	340.2	347.4	350.2	-
Meat packing plants .....	2011	139.4	140.1	142.2	142.9	-	116.8	117.2	118.8	119.5	-
Sausages and other prepared meats .....	2013	79.8	81.2	82.0	82.8	-	58.5	59.8	60.3	60.9	-
Poultry dressing plants .....	2016	155.0	157.7	162.4	164.2	-	140.4	143.3	147.8	149.1	-
Dairy products .....	202	158.5	162.8	156.1	157.9	-	96.5	100.0	95.6	97.1	-
Cheese, natural and processed .....	2022	41.5	42.9	41.5	41.8	-	31.7	33.0	31.6	31.8	-
Fluid milk .....	2026	76.3	77.3	74.5	74.7	-	37.7	38.4	37.5	37.7	-
Preserved fruits and vegetables .....	203	228.2	246.7	227.5	231.6	-	183.3	201.6	183.3	186.7	-
Canned specialties .....	2032	21.8	22.1	23.3	23.1	-	15.2	15.5	16.6	16.5	-
Canned fruits and vegetables .....	2033	71.1	79.2	70.7	73.2	-	56.4	64.5	57.4	59.9	-
Frozen fruits and vegetables .....	2037	48.9	53.2	44.6	45.4	-	42.5	47.0	38.5	39.1	-
Grain mill products .....	204	123.0	125.0	124.7	124.6	-	84.8	86.4	86.7	86.9	-
Flour and other grain mill products .....	2041	21.4	21.9	22.0	22.0	-	14.6	15.1	15.1	15.0	-
Prepared feeds, nec .....	2048	42.4	43.0	42.2	41.9	-	26.5	27.1	26.7	26.5	-
Bakery products .....	205	201.2	203.4	198.1	200.4	-	122.1	124.0	120.7	122.8	-
Bread, cake, and related products .....	2051	157.1	158.4	153.6	156.1	-	88.1	89.4	87.0	89.4	-
Cookies and crackers .....	2052	44.1	45.0	44.5	44.3	-	34.0	34.6	33.7	33.4	-
Sugar and confectionery products .....	206	89.7	91.6	91.4	92.0	-	69.6	71.1	70.4	70.8	-
Cane and beet sugar .....	2061-3	19.1	18.5	17.5	17.2	-	14.8	14.1	13.2	12.9	-
Confectionery products .....	2065	50.1	51.6	53.2	53.6	-	41.1	42.6	43.5	43.8	-
Fats and oils .....	207	31.9	31.7	32.2	31.8	-	23.5	23.2	23.7	23.0	-
Beverages .....	208	201.9	205.8	196.9	198.9	-	86.1	88.4	83.4	84.8	-
Malt beverages .....	2082	42.2	42.2	40.8	41.0	-	26.0	25.7	24.7	24.9	-
Bottled and canned soft drinks .....	2086	115.8	118.2	111.7	113.0	-	38.5	40.1	36.9	37.5	-
Misc. food and kindred products .....	209	162.9	170.4	163.8	165.0	-	121.5	128.4	121.9	123.2	-
Tobacco manufactures .....	21	51.8	52.3	51.4	49.2	49.7	38.1	38.6	37.4	35.2	35.1
Cigarettes .....	211	40.1	41.1	39.9	38.5	-	30.1	31.0	29.3	27.8	-
Textile mill products .....	22	732.7	734.7	727.7	728.1	731.5	634.6	636.9	629.7	630.2	633.9
Weaving mills, cotton .....	221	102.0	100.8	96.4	96.2	-	92.5	91.3	86.6	86.2	-
Weaving mills, synthetics .....	222	88.8	89.5	91.0	90.4	-	78.6	79.2	80.8	80.2	-
Weaving and finishing mills, wool .....	223	19.1	19.1	19.6	19.6	-	15.6	15.7	15.9	15.9	-
Narrow fabric mills .....	224	24.0	24.0	24.5	24.4	-	20.5	20.6	20.9	20.9	-
Knitting mills .....	225	213.0	214.3	211.3	212.1	-	188.3	189.2	186.6	187.3	-
Women's hosiery, except socks .....	2251	33.6	33.9	33.7	33.5	-	30.8	31.1	30.4	30.3	-
Hosiery, nec .....	2252	36.5	36.7	36.9	37.0	-	32.9	33.0	33.5	33.6	-
Knit outerwear mills .....	2253	71.6	72.1	70.0	70.8	-	63.9	64.2	62.4	63.2	-
Knit underwear mills .....	2254	26.4	26.4	25.4	25.1	-	22.3	22.3	21.6	21.1	-
Circular knit fabric mills .....	2257	25.6	25.8	26.6	27.0	-	22.4	22.5	23.2	23.6	-
Textile finishing, except wool .....	226	60.6	60.6	61.5	61.5	-	50.3	50.3	50.7	50.7	-
Finishing plants, cotton .....	2261	25.3	25.3	25.7	25.6	-	21.0	20.9	21.1	21.0	-
Finishing plants, synthetics .....	2262	21.6	21.5	21.7	21.8	-	17.4	17.4	17.6	17.6	-
Floor covering mills .....	227	59.8	60.4	61.4	61.5	-	47.5	48.7	50.0	50.1	-
Yarn and thread mills .....	228	109.1	109.4	106.1	106.2	-	97.5	97.9	94.9	95.4	-
Yarn mills, except wool .....	2281	81.8	82.1	79.9	79.9	-	73.9	74.4	72.1	72.2	-
Throwing and winding mills .....	2282	14.9	15.0	14.4	14.6	-	13.1	13.1	12.7	13.0	-
Miscellaneous textile goods .....	229	56.3	56.6	55.9	56.2	-	43.8	44.0	43.3	43.5	-
Apparel and other textile products .....	23	1,099.2	1,103.8	1,100.3	1,098.6	1,102.8	924.4	928.5	929.6	927.4	931.8
Men's and boys' suits and coats .....	231	58.2	59.0	57.1	57.5	-	50.3	51.0	48.9	49.4	-
Men's and boys' furnishings .....	232	302.8	304.9	300.9	301.3	-	261.2	263.1	260.7	260.7	-
Men's and boys' shirts and nightwear .....	2321	77.3	77.7	75.0	75.0	-	66.1	66.7	64.4	64.3	-
Men's and boys' separate trousers .....	2327	50.9	51.1	50.3	50.0	-	44.4	44.5	43.6	43.2	-
Men's and boys' work clothing .....	2328	91.4	92.5	91.4	92.2	-	80.0	80.8	80.2	81.0	-
Women's and misses' outerwear .....	233	349.8	349.6	342.0	338.5	-	292.6	291.6	287.0	283.3	-
Women's and misses' blouses and waists .....	2331	44.4	45.1	43.0	42.7	-	36.8	37.2	35.6	35.3	-
Women's and misses' dresses .....	2335	78.4	79.0	77.0	75.5	-	65.2	65.7	64.2	62.7	-
Women's and misses' suits and coats .....	2337	37.2	38.3	37.8	38.6	-	30.4	31.4	31.5	32.1	-
Women's and misses' outerwear, nec .....	2339	189.8	187.2	184.2	181.7	-	160.2	157.3	155.7	153.2	-

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	71.6	72.0	70.8	70.3		59.0	59.4	58.8	58.2	
Women's and children's underwear .....	2341	57.6	58.0	56.9	56.4		49.3	49.7	49.0	48.5	
Brassieres and allied garments .....	2342	14.0	14.0	13.9	13.9		9.7	9.7	9.8	9.7	
Children's outerwear .....	236	58.4	59.2	56.5	57.0		49.1	50.0	47.3	47.8	
Children's dresses and blouses .....	2361	22.8	22.8	22.2	22.6		19.9	20.0	19.3	19.6	
Misc. apparel and accessories .....	238	43.0	43.4	44.2	44.5		35.7	35.9	36.5	36.8	
Misc. fabricated textile products .....	239	198.2	198.3	210.1	210.4		162.9	163.7	175.2	175.6	
Curtains and draperies .....	2391	25.5	25.6	25.8	26.3		21.0	21.0	21.5	21.9	
House furnishings, nec .....	2392	51.9	51.9	55.8	55.7		43.9	44.0	46.9	46.9	
Automotive and apparel trimmings .....	2396	42.1	42.3	44.8	44.6		34.8	35.2	38.2	38.0	
Paper and allied products .....	26	690.1	700.8	692.1	694.5	703.1	521.2	530.8	520.4	523.0	531.6
Paper and pulp mills .....	261,2,6	194.3	198.3	191.9	193.1	-	147.7	151.6	145.5	146.9	-
Paper mills, except building paper .....	262	172.8	176.7	171.8	172.8		130.7	134.4	129.6	130.9	
Paperboard mills .....	263	52.7	53.6	52.4	52.7		39.9	40.6	40.1	40.3	
Misc. converted paper products .....	264	237.0	240.5	238.3	238.7		173.5	176.6	172.9	173.2	
Paper coating and glazing .....	2641	59.6	60.3	60.1	59.8		36.7	37.1	34.7	34.4	
Envelopes .....	2642	26.9	27.2	26.8	26.8		20.6	20.8	20.8	20.8	
Bags, except textile bags .....	2643	52.1	52.7	52.9	52.8		40.7	41.3	41.4	41.1	
Paperboard containers and boxes .....	265	206.1	208.4	209.5	210.0		160.1	162.0	161.9	162.6	
Folding paperboard boxes .....	2651	45.7	46.0	46.4	46.7		36.3	36.6	36.9	37.3	
Corrugated and solid fiber boxes .....	2653	111.8	112.7	113.6	113.6		84.1	84.9	85.3	85.3	
Sanitary food containers .....	2654	22.6	23.2	22.3	22.6		19.4	19.9	18.7	19.0	
Printing and publishing .....	27	1,553.7	1,562.3	1,602.2	1,601.5	1,611.3	871.3	873.8	893.0	891.8	895.2
Newspapers .....	271	473.4	476.4	474.8	475.4	-	170.6	170.9	168.0	167.9	-
Periodicals .....	272	128.4	128.9	134.5	134.7		46.7	46.2	47.4	47.9	
Books .....	273	115.7	116.7	123.5	123.0		63.0	63.1	66.2	65.8	
Book publishing .....	2731	85.7	86.3	91.3	91.1		38.9	38.7	40.6	40.4	
Book printing .....	2732	30.0	30.4	32.2	31.9		24.1	24.4	25.6	25.4	
Miscellaneous publishing .....	274	78.7	79.5	82.9	82.1		40.8	41.0	42.7	41.9	
Commercial printing .....	275	552.0	553.3	572.3	571.6		402.9	403.6	416.0	415.4	
Commercial printing, letterpress .....	2751	169.5	170.2	176.0	176.0		121.0	122.1	127.0	126.7	
Commercial printing, lithographic .....	2752	355.1	356.2	367.9	367.5		260.0	259.9	266.2	266.1	
Manifold business forms .....	276	49.0	49.2	49.2	49.0		33.6	33.7	33.5	33.3	
Blankbooks and bookbinding .....	278	76.0	76.9	80.3	80.9		60.3	61.1	62.3	62.9	
Printing trade services .....	279	57.0	57.4	60.5	60.4		42.0	42.3	44.5	44.2	
Chemicals and allied products .....	28	1,058.5	1,073.5	1,086.4	1,092.2	1,100.8	593.4	602.4	608.1	612.8	617.5
Industrial inorganic chemicals .....	281	132.3	133.9	133.9	134.6	-	66.8	67.6	68.3	68.9	-
Industrial inorganic chemicals, nec .....	2819	90.1	91.0	90.4	90.5		48.7	49.2	48.0	48.1	
Plastics materials and synthetics .....	282	176.1	179.1	184.0	186.2		115.3	117.1	120.4	122.3	
Plastics materials and resins .....	2821	81.7	83.7	86.0	86.4		48.3	49.2	50.9	51.3	
Organic fibers, noncellulosic .....	2824	66.0	66.9	68.8	70.3		46.5	47.4	48.7	50.1	
Drugs .....	283	228.4	232.4	239.5	240.4		101.5	102.7	104.0	104.9	
Pharmaceutical preparations .....	2834	188.7	191.6	197.3	198.1		82.6	83.1	85.0	86.2	
Soap, cleaners, and toilet goods .....	284	158.9	161.9	161.4	162.4		102.4	105.4	102.2	102.9	
Soap and other detergents .....	2841	43.7	44.4	43.4	43.5		27.1	27.8	27.1	27.0	
Polishing, sanitation, and finishing preparations .....	2842,3	43.6	43.9	46.3	46.3		25.2	25.4	26.4	26.5	
Toilet preparations .....	2844	71.6	73.6	71.7	72.6		50.1	52.2	48.7	49.4	
Paints and allied products .....	285	63.5	64.5	62.9	63.3		31.1	32.2	31.6	31.7	
Industrial organic chemicals .....	286	145.3	146.6	149.2	149.5		84.1	84.8	87.0	87.5	
Cyclic crudes and intermediates .....	2865	29.6	30.0	30.6	30.6		18.3	18.5	18.9	18.9	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	115.7	116.6	118.6	118.9		65.8	66.3	68.1	68.6	
Agricultural chemicals .....	287	53.3	53.0	54.3	54.7		34.4	33.9	34.5	34.6	
Miscellaneous chemical products .....	289	100.7	102.1	101.2	101.1		57.8	58.7	60.1	60.0	
Petroleum and coal products .....	29	162.4	164.6	160.6	162.8	165.6	106.0	107.7	104.2	106.5	109.2
Petroleum refining .....	291	122.1	123.2	121.6	121.8	-	77.7	78.6	77.2	77.4	-
Paving and roofing materials .....	295	28.1	28.8	26.2	28.1		21.5	22.2	19.9	21.8	

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	827.5	835.7	844.5	843.5	845.2	643.1	650.4	661.6	660.6	660.8
Tires and inner tubes .....	301	83.5	84.6	84.8	85.3	-	59.7	61.0	63.9	64.5	-
Rubber and plastics footwear .....	302	12.4	12.0	11.0	10.9	-	10.2	9.9	9.0	8.9	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	25.6	26.2	27.8	27.7	-	19.0	19.5	20.7	20.9	-
Fabricated rubber products, nec .....	306	100.8	101.5	101.1	100.8	-	77.5	78.5	77.9	77.7	-
Miscellaneous plastics products .....	307	605.2	611.4	619.8	618.8	-	476.7	481.5	490.1	488.6	-
Leather and leather products .....	31	144.7	146.2	141.8	142.3	143.8	119.8	120.6	117.5	117.9	119.6
Leather tanning and finishing .....	311	13.6	13.7	14.3	14.4	-	11.3	11.4	12.0	12.1	-
Footwear, except rubber .....	314	84.2	85.3	80.9	80.6	-	72.1	72.6	69.0	68.7	-
Men's footwear, except athletic .....	3143	37.0	37.5	35.8	35.5	-	29.9	30.1	29.0	28.8	-
Women's footwear, except athletic .....	3144	29.1	29.6	27.8	27.8	-	25.8	26.1	24.6	24.6	-
Luggage .....	316	11.0	11.3	11.7	11.8	-	7.6	7.9	8.4	8.5	-
Handbags and personal leather goods .....	317	17.1	16.9	15.7	16.1	-	13.3	13.1	12.1	12.5	-
<b>Transportation and public utilities .....</b>		<b>5,522</b>	<b>5,579</b>	<b>5,649</b>	<b>5,699</b>	<b>5,759</b>	<b>4,585</b>	<b>4,636</b>	<b>4,707</b>	<b>4,752</b>	<b>4,798</b>
Transportation .....		3,312	3,349	3,443	3,488	3,530	-	-	-	-	-
Railroad transportation .....	40	301.8	305.0	297.0	298.5	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	262.1	264.4	253.7	255.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	325.4	313.1	341.8	343.5	-	300.2	288.5	314.6	315.9	-
Local and suburban transportation .....	411	118.4	119.8	128.2	129.4	-	108.0	109.5	116.7	117.9	-
Taxicabs .....	412	36.1	35.4	35.9	34.8	-	-	-	-	-	-
Intercity highway transportation .....	413	28.4	29.0	29.5	29.5	-	25.8	26.0	26.4	26.4	-
School buses .....	415	114.8	101.0	116.8	117.5	-	-	-	-	-	-
Trucking and warehousing .....	42	1,539.6	1,569.5	1,616.8	1,637.7	-	1,339.4	1,368.2	1,410.9	1,429.0	-
Trucking and trucking terminals .....	421,3	1,431.2	1,460.8	1,498.9	1,520.4	-	1,249.0	1,277.2	1,312.2	1,330.9	-
Public warehousing .....	422	108.4	108.7	117.9	117.3	-	90.4	91.0	98.7	98.1	-
Water transportation .....	44	173.2	180.3	173.5	181.7	-	-	-	-	-	-
Local water transportation .....	445	27.8	29.7	28.6	30.1	-	-	-	-	-	-
Water transportation services .....	446	93.8	98.7	95.3	101.6	-	-	-	-	-	-
Transportation by air .....	45	639.4	645.3	658.0	667.9	-	-	-	-	-	-
Air transportation .....	451,2	553.0	558.2	563.5	572.9	-	-	-	-	-	-
Air transportation services .....	458	86.4	87.1	94.5	95.0	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	18.1	18.8	18.2	18.3	-	12.5	13.1	12.9	12.9	-
Transportation services .....	47	314.0	317.1	337.3	340.2	-	-	-	-	-	-
Freight forwarding .....	471	68.2	69.0	75.1	75.1	-	-	-	-	-	-
Communication and public utilities .....		2,210	2,230	2,206	2,211	2,229	-	-	-	-	-
Communication .....	48	1,280.0	1,286.6	1,276.0	1,277.6	-	967.3	971.9	971.2	972.6	-
Telephone communication .....	481	897.5	902.8	882.4	882.4	-	660.2	663.1	652.3	652.5	-
Radio and television broadcasting .....	483	238.6	239.3	243.1	244.3	-	196.0	196.9	201.0	202.2	-
Radio broadcasting .....	4832	118.5	119.2	120.8	121.8	-	-	-	-	-	-
Television broadcasting .....	4833	120.1	120.1	122.3	122.5	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	930.4	943.4	929.7	932.9	-	736.2	748.0	733.8	736.4	-
Electric services .....	491	453.0	457.6	448.6	449.5	-	346.0	349.7	342.9	343.8	-
Gas production and distribution .....	492	164.0	167.5	164.9	165.9	-	129.6	133.0	129.5	130.3	-
Combination utility services .....	493	193.9	195.8	192.8	193.3	-	159.2	161.0	157.1	157.0	-
Sanitary services .....	495	91.2	93.5	94.1	94.6	-	78.9	81.2	81.6	82.3	-
<b>Wholesale trade .....</b>		<b>5,998</b>	<b>6,062</b>	<b>6,186</b>	<b>6,217</b>	<b>6,265</b>	<b>4,831</b>	<b>4,891</b>	<b>4,976</b>	<b>5,006</b>	<b>5,051</b>
Durable goods .....	50	3,545	3,579	3,669	3,685	3,706	2,829	2,861	2,931	2,944	-
Motor vehicles and automotive equipment .....	501	430.3	435.1	436.9	437.8	-	345.0	349.2	353.2	354.3	-
Automobiles and other motor vehicles .....	5012	119.2	120.3	124.2	123.4	-	-	-	-	-	-
Automotive parts and supplies .....	5013	280.7	284.5	282.2	283.8	-	-	-	-	-	-

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Furniture and home furnishings .....	502	150.8	152.2	155.8	155.1		121.3	122.7	125.8	125.4	
Furniture .....	5021	70.0	70.7	72.7	72.6		-	-	-	-	
Home furnishings .....	5023	80.8	81.5	83.1	82.5		-	-	-	-	
Lumber and construction materials .....	503	225.2	229.4	232.1	235.8		184.7	188.1	189.5	193.2	
Lumber, plywood, and millwork .....	5031	117.1	119.4	120.9	121.8		-	-	-	-	
Construction materials, nec .....	5039	108.1	110.0	111.2	114.0		-	-	-	-	
Sporting goods, toys, and hobby goods .....	504	88.7	89.6	95.2	97.7		73.0	73.7	75.9	78.4	
Metals and minerals, except petroleum .....	505	139.1	140.6	145.7	146.4		110.4	111.4	115.4	116.0	
Electrical goods .....	506	500.4	503.8	520.6	522.4		382.7	386.3	398.6	398.2	
Electrical apparatus and equipment .....	5063	259.2	261.3	272.4	273.3		-	-	-	-	
Electrical appliances, TV and radios .....	5064	66.2	66.5	69.0	68.9		-	-	-	-	
Electronic parts and equipment .....	5065	175.0	176.0	179.2	180.2		-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	276.9	280.7	283.4	284.5		223.8	227.1	229.7	230.5	
Hardware .....	5072	97.6	98.8	97.9	98.0		-	-	-	-	
Plumbing and hydronic heating supplies .....	5074	112.6	113.7	117.7	118.1		-	-	-	-	
Machinery, equipment, and supplies .....	508	1,513.8	1,524.6	1,563.6	1,569.1		1,210.6	1,221.4	1,253.0	1,257.8	
Commercial machines and equipment .....	5081	549.2	548.7	557.8	556.2		-	-	-	-	
Construction and mining machinery .....	5082	81.0	81.8	85.0	85.5		-	-	-	-	
Farm machinery and equipment .....	5083	119.4	121.3	123.0	124.7		-	-	-	-	
Industrial machinery and equipment .....	5084	332.1	335.4	344.9	347.8		-	-	-	-	
Industrial supplies .....	5085	137.3	138.2	144.7	145.9		-	-	-	-	
Professional equipment and supplies .....	5086	172.1	173.8	179.4	179.3		-	-	-	-	
Miscellaneous durable goods .....	509	220.0	223.3	235.3	236.3		177.9	180.6	190.1	190.4	
Scrap and waste materials .....	5093	101.9	104.3	111.0	112.0		-	-	-	-	
Nondurable goods .....	51	2,453	2,483	2,517	2,532	2,559	2,002	2,030	2,045	2,062	
Paper and paper products .....	511	217.3	220.1	225.7	226.4	-	175.9	178.4	182.0	182.8	
Drugs, proprietaries, and sundries .....	512	177.8	180.2	186.8	186.5		149.2	151.0	157.0	156.5	
Apparel, piece goods, and notions .....	513	189.3	191.6	197.1	198.4		145.0	147.2	152.1	153.4	
Groceries and related products .....	514	814.3	830.5	827.4	835.1		688.2	705.4	694.7	704.3	
Groceries, general line .....	5141	260.3	262.2	270.0	271.8		-	-	-	-	
Meats and meat products .....	5147	64.4	65.3	66.7	66.7		-	-	-	-	
Fresh fruits and vegetables .....	5148	102.8	107.4	100.4	103.4		-	-	-	-	
Chemicals and allied products .....	516	124.9	126.8	130.1	131.1		92.6	94.3	93.6	94.8	
Petroleum and petroleum products .....	517	201.0	202.7	207.2	208.2		157.4	158.9	162.5	163.4	
Petroleum bulk stations and terminals .....	5171	82.9	84.1	87.0	87.5		-	-	-	-	
Petroleum products, nec .....	5172	118.1	118.6	120.2	120.7		-	-	-	-	
Beer, wine, and distilled beverages .....	518	150.4	153.3	151.4	152.8		123.7	126.3	123.6	125.2	
Beer and ale .....	5181	95.4	98.3	95.9	97.2	-	-	-	-	-	
Wines and distilled beverages .....	5182	55.0	55.0	55.5	55.6		-	-	-	-	
Miscellaneous nondurable goods .....	519	453.2	452.8	470.2	473.9		368.9	367.5	381.7	385.1	
Farm supplies .....	5191	156.7	154.1	163.9	166.4		-	-	-	-	
<b>Retail trade .....</b>		<b>19,040</b>	<b>19,263</b>	<b>19,275</b>	<b>19,524</b>	<b>19,701</b>	<b>16,871</b>	<b>17,080</b>	<b>17,028</b>	<b>17,268</b>	<b>17,428</b>
Building materials and garden supplies .....	52	799.6	807.3	774.2	788.9		664.6	672.5	640.6	656.0	
Lumber and other building materials .....	521	438.3	448.4	423.5	431.4		369.0	378.7	356.0	364.5	
Hardware stores .....	525	162.0	164.7	165.8	168.5		134.2	137.2	137.3	139.9	
General merchandise stores .....	53	2,384.3	2,399.5	2,404.9	2,417.1	2,419.4	2,210.4	2,220.4	2,209.5	2,225.0	
Department stores .....	531	1,974.5	1,985.8	1,987.3	1,994.9	-	1,843.9	1,850.1	1,834.5	1,846.2	
Variety stores .....	533	238.0	237.8	233.6	235.8		217.1	217.0	214.2	215.8	
Misc. general merchandise stores .....	539	171.8	175.9	184.0	186.4	-	149.4	153.3	160.8	163.0	
Food stores .....	54	3,052.9	3,099.8	3,197.0	3,225.9	3,259.5	2,805.5	2,851.3	2,940.8	2,968.5	
Grocery stores .....	541	2,700.3	2,743.1	2,829.4	2,851.0	-	2,495.0	2,536.4	2,616.7	2,638.1	
Meat markets and freezer provisioners .....	542	54.6	54.7	55.7	57.6		-	-	-	-	
Dairy products stores .....	545	26.5	27.8	30.5	32.3		-	-	-	-	
Retail bakeries .....	546	173.3	173.5	175.3	175.1		156.9	156.8	157.9	157.8	
Automotive dealers and service stations .....	55	2,078.3	2,103.0	2,148.4	2,161.2	2,173.3	1,737.6	1,760.1	1,796.3	1,807.1	-
New and used car dealers .....	551,2	1,018.5	1,027.1	1,046.5	1,044.8	-	844.3	852.5	868.5	867.8	-
Auto and home supply stores .....	553	329.5	335.4	347.9	352.4	-	267.2	271.8	279.8	282.6	
Gasoline service stations .....	554	625.8	632.2	637.6	643.5		541.8	548.3	554.5	559.8	

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,144.0	1,156.5	1,164.4	1,169.7		966.7	978.8	978.7	981.6	
Men's and boys' clothing and furnishings .....	561	107.9	107.9	105.7	106.2		88.1	87.9	85.2	85.4	
Women's ready-to-wear stores .....	562	405.7	409.1	412.8	416.2		341.9	345.3	345.6	347.9	-
Family clothing stores .....	565	265.1	273.0	269.3	270.8		230.2	238.1	232.1	233.3	
Shoe stores .....	566	220.2	220.1	227.0	227.7	-	183.4	183.3	188.9	189.1	
Furniture and home furnishings stores .....	57	793.3	795.0	802.2	804.5		649.6	651.4	656.5	658.8	
Furniture and home furnishings stores .....	571	457.1	459.8	469.8	470.8		371.4	374.6	382.5	383.8	
Furniture stores .....	5712	281.5	283.0	290.2	290.2		-	-	-	-	
Household appliance stores .....	572	90.2	89.0	77.8	77.6		77.2	75.4	64.7	64.8	
Radio, television, and music stores .....	573	246.0	246.2	254.6	256.1		201.0	201.4	209.3	210.2	
Radio and television stores .....	5732	172.8	172.8	177.8	178.2		-	-	-	-	
Music stores .....	5733	73.2	73.4	76.8	77.9		-	-	-	-	
Eating and drinking places .....	58	6,385.6	6,493.1	6,316.0	6,459.7	6,576.9	5,817.5	5,923.4	5,739.9	5,877.6	
Miscellaneous retail .....	59	2,401.6	2,408.9	2,468.2	2,497.2	-	2,019.3	2,021.7	2,065.6	2,093.1	-
Drug stores and proprietary stores .....	591	592.8	594.3	599.5	602.5		505.7	507.0	508.0	510.5	
Liquor stores .....	592	121.9	123.6	123.1	124.2		-	-	-	-	
Miscellaneous shopping goods stores .....	594	821.5	835.8	869.8	874.3	-	685.0	696.5	722.4	726.5	
Sporting goods and bicycle shops .....	5941	144.9	147.4	158.6	158.8		-	-	-	-	
Book stores .....	5942	83.4	81.7	91.6	90.2		-	-	-	-	
Stationery stores .....	5943	81.6	82.0	85.0	85.2		-	-	-	-	
Jewelry stores .....	5944	152.1	152.2	159.0	160.3		-	-	-	-	
Gift, novelty, and souvenir shops .....	5947	173.8	185.8	181.1	187.2		-	-	-	-	
Sewing, needlework, and piece goods .....	5949	62.1	62.0	65.4	64.5		-	-	-	-	
Nonstore retailers .....	596	286.2	283.8	265.4	261.3		255.9	254.0	234.5	230.5	
Mail order houses .....	5961	140.6	140.1	130.5	127.4		-	-	-	-	
Merchandising machine operators .....	5962	86.1	86.7	86.0	85.4		-	-	-	-	
Fuel and ice dealers .....	598	107.2	107.4	117.0	115.6		89.0	89.1	97.6	96.0	
Retail stores, nec .....	599	394.2	385.5	409.5	435.3		320.7	310.4	334.7	360.2	
<b>Finance, insurance, and real estate<sup>2</sup></b> .....		<b>6,652</b>	<b>6,739</b>	<b>6,749</b>	<b>6,790</b>	<b>6,871</b>	<b>4,832</b>	<b>4,905</b>	<b>4,877</b>	<b>4,912</b>	<b>4,991</b>
Finance .....		3,277	3,308	3,302	3,311	3,339					-
Banking .....	60	1,727.0	1,747.5	1,752.9	1,762.3	-	1,234.4	1,250.6	1,244.8	1,251.9	
Commercial and stock savings banks .....	602	1,549.5	1,567.4	1,557.4	1,563.5	-	1,104.8	1,118.7	1,102.8	1,107.7	
State banks, Federal Reserve .....	6022	312.5	317.0	313.4	314.1		-	-	-	-	
State banks, not Federal Reserve .....	6023,4	359.1	363.7	363.8	365.3		-	-	-	-	
Mutual savings banks .....	603	78.5	80.3	80.4	80.3		-	-	-	-	
Credit agencies other than banks .....	61	895.4	901.3	902.9	904.7	-	666.3	672.0	673.9	675.3	
Savings and loan associations .....	612	402.4	403.9	402.3	403.1		305.2	306.8	304.2	305.0	
Federal savings and loan associations .....	6122	231.6	232.5	232.7	233.2		-	-	-	-	
State associations, insured .....	6123	165.5	166.0	164.4	164.7	-	-	-	-	-	
Personal credit institutions .....	614	251.8	255.5	264.4	265.0		194.5	198.0	205.7	205.9	
Business credit institutions .....	615	56.8	57.5	65.3	65.9		-	-	-	-	
Mortgage bankers and brokers .....	616	160.5	160.5	148.5	148.6		-	-	-	-	
Security, commodity brokers, and services .....	62	449.3	451.9	436.5	435.1		-	-	-	-	
Security brokers and dealers .....	621	354.3	356.0	339.1	337.7	-	-	-	-	-	
Holding and other investment offices .....	67	205.0	206.8	209.7	209.3	-	-	-	-	-	
Insurance .....		2,073	2,087	2,117	2,123	2,134					-
Insurance carriers .....	63	1,437.5	1,445.9	1,459.7	1,463.4		962.7	969.0	969.0	969.7	
Life insurance .....	631	576.4	578.1	575.4	575.9		346.4	348.0	344.1	343.6	-
Medical service and health insurance .....	632	214.9	217.8	231.0	232.1		173.8	175.9	186.8	187.6	-
Fire, marine, and casualty insurance .....	633	538.9	541.9	543.3	544.5	-	361.3	363.0	354.6	354.2	-
Title insurance .....	636	58.2	58.5	57.9	58.4	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	635.6	640.6	657.1	659.7	-	-	-	-	-	

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,302	1,344	1,330	1,356	1,398					-
Real estate .....	65	1,292.0	1,334.0	1,320.9	1,347.0	-					-
Real estate operators and lessors .....	651	557.7	575.7	575.5	582.5	-					-
Real estate agents and managers .....	653	531.4	550.4	540.2	548.4	-					-
Subdividers and developers .....	655	171.7	176.3	173.4	184.2	-					-
Combined real estate, insurance, etc .....	66	9.7	9.6	9.0	9.0	-					-
<b>Services .....</b>		<b>25,478</b>	<b>25,809</b>	<b>26,704</b>	<b>26,835</b>	<b>27,102</b>	<b>22,286</b>	<b>22,579</b>	<b>23,330</b>	<b>23,431</b>	<b>23,671</b>
Hotels and other lodging places .....	70	1,534.5	1,638.0	1,569.9	1,597.0	-					-
Hotels, motels, and tourist courts .....	701	1,492.5	1,578.4	1,525.7	1,550.0	-	1,330.0	1,413.6	1,353.8	1,379.1	-
Personal services .....	72	1,163.9	1,166.3	1,234.7	1,185.5	-					-
Laundry, cleaning, and garment services .....	721	412.3	415.8	410.6	415.0	-	367.0	370.3	364.8	368.5	-
Photographic studios, portrait .....	722	57.4	59.0	56.8	56.9	-					-
Beauty shops .....	723	365.7	366.2	368.2	368.0	-	326.1	326.5	327.9	328.2	-
Funeral service and crematories .....	726	79.1	80.5	81.4	81.4	-					-
Business services .....	73	5,515.6	5,594.8	5,719.5	5,760.8	5,829.7	4,734.1	4,803.2	4,874.5	4,906.5	-
Advertising .....	731	231.4	233.8	253.4	254.9	-	171.6	173.8	187.0	187.7	-
Advertising agencies .....	7311	167.0	168.7	184.0	184.4	-					-
Credit reporting and collection .....	732	91.3	92.2	93.9	95.7	-					-
Mailing, reproduction, and stenographic .....	733	206.7	207.5	238.2	238.6	-					-
Services to buildings .....	734	780.8	790.7	806.1	812.1	-	707.4	716.5	730.0	736.2	-
Personnel supply services .....	736	1,366.6	1,393.4	1,338.0	1,348.7	-					-
Employment agencies .....	7361	220.0	220.9	218.5	216.3	-					-
Temporary help supply services .....	7362	1,044.9	1,068.1	1,016.3	1,029.2	-					-
Computer and data processing services .....	737	659.7	670.3	751.4	750.5	-	513.1	521.8	584.0	580.4	-
Computer programming and software .....	7372	300.3	306.1	342.8	345.6	-					-
Data processing services .....	7374	248.3	252.2	283.7	280.8	-					-
Miscellaneous business services .....	739	2,168.5	2,196.2	2,225.6	2,246.9	-					-
Research development laboratories, nec .....	7391	211.6	214.9	217.1	217.8	-					-
Management and public relations .....	7392	536.3	541.5	550.6	553.9	-					-
Detective and protective services .....	7393	464.2	463.6	469.4	473.0	-					-
Equipment rental and leasing .....	7394	260.4	267.2	270.8	275.4	-					-
Photofinishing laboratories .....	7395	81.4	82.6	79.4	81.0	-					-
Auto repair, services, and garages .....	75	830.6	840.3	891.8	894.1	-	689.3	696.9	734.3	735.6	-
Automotive rentals, without drivers .....	751	163.7	165.2	179.7	182.6	-					-
Automotive repair shops .....	753	480.2	487.2	515.6	517.7	-	396.5	402.3	421.5	423.7	-
Miscellaneous repair services .....	76	345.4	348.6	355.6	357.1	-	284.5	285.5	288.4	290.0	-
Electrical repair shops .....	762	107.6	109.6	117.9	119.7	-					-
Motion pictures .....	78	236.9	250.9	262.4	267.5	-	196.0	210.3	222.0	226.3	-
Motion picture production and services .....	781	107.9	113.7	139.5	141.5	-	82.7	88.3	114.4	115.5	-
Motion picture theaters .....	783	111.2	118.5	105.6	108.3	-					-
Amusement and recreation services .....	79	951.4	1,044.8	946.6	1,007.7	-	812.2	897.3	823.2	878.8	-
Health services .....	80	7,067.7	7,150.0	7,512.8	7,552.8	7,639.6	6,279.9	6,356.5	6,675.7	6,707.6	-
Offices of physicians .....	801	1,099.4	1,112.0	1,185.2	1,193.9	-	900.8	913.4	970.9	978.0	-
Offices of dentists .....	802	484.2	487.7	507.9	508.2	-	426.3	427.7	443.6	443.2	-
Nursing and personal care facilities .....	805	1,304.9	1,320.5	1,363.5	1,369.2	-	1,177.8	1,192.6	1,232.3	1,236.6	-
Skilled nursing care facilities .....	8051	903.9	913.9	943.8	948.8	-					-
Nursing and personal care, nec .....	8059	401.0	406.6	419.7	420.4	-					-
Hospitals .....	806	3,266.8	3,304.6	3,441.6	3,456.1	-	2,983.7	3,020.0	3,146.4	3,159.7	-
General medical and surgical hospitals .....	8062	3,023.0	3,057.8	3,182.7	3,196.1	-					-
Psychiatric hospitals .....	8063	91.8	92.5	96.0	96.5	-					-
Specialty hospitals, excluding psychiatric .....	8069	152.0	154.3	162.9	163.5	-					-
Medical and dental laboratories .....	807	147.0	148.7	166.1	167.6	-					-
Outpatient care facilities .....	808	259.2	264.0	304.5	308.7	-					-

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>				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	835.2	869.7	880.4	882.1		699.0	730.6	733.6	734.0	
Educational services .....	82	1,564.9	1,421.4	1,712.3	1,664.7						
Elementary and secondary schools .....	821	405.9	387.1	409.2	410.7						
Colleges and universities .....	822	966.7	837.9	1,064.7	1,015.4						
Correspondence and vocational schools .....	824	90.2	91.1	105.3	105.3						
Social services .....	83	1,616.0	1,606.3	1,722.2	1,737.6						
Individual and family services .....	832	334.9	337.8	349.5	351.3						
Job training and related services .....	833	247.9	258.5	240.2	242.3						
Residential care .....	836	385.9	394.1	417.1	421.7						
Museums, botanical and zoological gardens .....	84	52.6	53.8	52.5	54.1			-			
Membership organizations .....	86	1,727.3	1,753.0	1,746.0	1,755.7						
Business associations .....	861	98.2	101.3	99.6	100.0						
Labor organizations .....	863	134.3	133.2	137.8	137.0						
Civic and social associations .....	864	378.0	398.0	391.0	398.8						
Miscellaneous services .....	89	1,373.0	1,388.5	1,458.6	1,442.5		1,104.7	1,120.3	1,168.6	1,152.7	
Engineering and architectural services .....	891	717.6	732.3	742.5	750.7		598.9	612.8	613.5	620.3	-
Noncommercial research organizations .....	892	133.5	136.4	144.0	144.3		-	-	-	-	
Accounting, auditing, and bookkeeping .....	893	490.4	487.7	537.9	513.7		375.9	374.6	415.5	393.1	
<b>Government .....</b>		<b>17,672</b>	<b>17,426</b>	<b>17,969</b>	<b>18,026</b>	<b>17,784</b>					
Federal Government <sup>4</sup> .....		2,969	2,986	2,982	3,004	3,028					
Executive, by agency <sup>4</sup> .....		2,909.9	2,925.6	2,922.8							
Department of Defense .....		966.9	967.1	967.3							
Postal Service <sup>5</sup> .....		827.3	829.8	839.9							
Other executive agencies .....		1,115.7	1,128.7	1,115.6							
Legislative .....		38.1	39.4	37.5							
Judicial .....		20.7	20.9	21.3							
Federal government, by industry:											
Manufacturing activities .....		121.6	121.8	123.6	123.7			-			-
Shipbuilding and repairing .....	3731	73.9	74.0	74.5	74.3						
Transportation and public utilities, except Postal Service .....		43.3	42.8	38.4	38.4						
Services .....		424.4	426.3	430.5	433.7	-	-	-	-	-	
Hospitals .....	806	247.2	248.8	247.9	248.9						
State government .....		4,118	3,943	4,222	4,179	4,014					
Hospitals .....	806	445.3	446.4	448.4	447.7	-					
Education .....	82	1,673.7	1,461.1	1,745.8	1,685.4						
General administration, including executive, legislative, and judicial functions .....		1,469.8	1,496.3	1,502.1	1,512.2						
Local government .....		10,585	10,497	10,765	10,843	10,742					
Transportation and public utilities .....		486.4	492.9	491.6	493.4	-					
Hospitals .....	806	619.1	624.7	640.4	642.3						
Education .....	82	6,023.2	5,752.2	6,136.7	6,168.1						
General administration, including executive, legislative, and judicial functions .....		3,132.4	3,281.2	3,158.7	3,190.0						

<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	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989	Apr. 1989
<b>Total</b> .....	48,593	48,852	50,075	50,371	50,646
<b>Total private</b> .....	39,437	39,706	40,757	41,003	41,271
<b>Goods-producing</b> .....	6,934	6,961	7,091	7,106	7,121
<b>Mining</b> .....	95	96	96	97	97
<b>Construction</b> .....	525	535	554	558	568
<b>Manufacturing</b> .....	6,314	6,330	6,441	6,451	6,456
<b>Durable goods</b> .....	3,037	3,050	3,101	3,099	3,104
Lumber and wood products .....	121	123	124	124	125
Furniture and fixtures .....	164	164	167	167	168
Stone, clay, and glass products .....	118	120	122	122	123
Primary metal industries .....	103	104	107	108	108
Fabricated metal products .....	320	321	328	327	327
Machinery, except electrical .....	456	458	472	472	473
Electrical and electronic equipment .....	860	861	861	856	854
Transportation equipment .....	397	399	407	407	409
Instruments and related products .....	321	322	337	337	338
Miscellaneous manufacturing .....	177	178	177	179	181
<b>Nondurable goods</b> .....	3,277	3,280	3,340	3,352	3,352
Food and kindred products .....	499	499	511	509	509
Tobacco manufactures .....	17	17	19	18	17
Textile mill products .....	353	352	351	353	353
Apparel and other textile products .....	877	874	876	880	879
Paper and allied products .....	166	167	169	169	170
Printing and publishing .....	668	672	698	701	704
Chemicals and allied products .....	305	306	317	319	320
Petroleum and coal products .....	23	23	25	26	26
Rubber and misc. plastics products .....	284	286	292	293	292
Leather and leather products .....	85	85	83	83	83
<b>Service-producing</b> .....	41,659	41,891	42,984	43,265	43,525
<b>Transportation and public utilities</b> .....	1,571	1,580	1,624	1,622	1,628
<b>Wholesale trade</b> .....	1,772	1,774	1,851	1,859	1,867
<b>Retail trade</b> .....	9,820	9,931	10,009	10,067	10,182
<b>Finance, insurance, and real estate</b> .....	4,130	4,138	4,217	4,232	4,239
<b>Services</b> .....	15,210	15,322	15,965	16,117	16,234
<b>Government</b> .....	9,156	9,146	9,318	9,368	9,375
Federal .....	1,057	1,057	1,058	1,061	1,063
State .....	2,033	2,039	2,074	2,083	2,086
Local .....	6,066	6,050	6,186	6,224	6,226

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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>Total .....</b>	<b>105,561</b>	<b>105,768</b>	<b>105,954</b>	<b>106,207</b>	<b>106,475</b>	<b>106,824</b>	<b>107,097</b>	<b>107,442</b>	<b>107,711</b>	<b>107,888</b>	<b>108,101</b>	<b>108,308</b>	<b>108,488</b>
<b>Total private .....</b>	<b>88,199</b>	<b>88,418</b>	<b>88,578</b>	<b>88,736</b>	<b>88,991</b>	<b>89,299</b>	<b>89,574</b>	<b>89,897</b>	<b>90,124</b>	<b>90,291</b>	<b>90,475</b>	<b>90,625</b>	<b>90,773</b>
<b>Goods-producing .....</b>	<b>25,265</b>	<b>25,323</b>	<b>25,303</b>	<b>25,313</b>	<b>25,384</b>	<b>25,460</b>	<b>25,513</b>	<b>25,626</b>	<b>25,629</b>	<b>25,646</b>	<b>25,671</b>	<b>25,661</b>	<b>25,610</b>
<b>Mining .....</b>	726	725	725	719	717	712	711	711	711	714	720	722	710
Oil and gas extraction .....	411	410	408	404	400	396	394	393	394	397	400	400	397
<b>Construction .....</b>	5,139	5,150	5,153	5,163	5,162	5,191	5,213	5,267	5,270	5,252	5,279	5,278	5,270
General building contractors .....	1,378	1,372	1,372	1,374	1,363	1,375	1,380	1,404	1,398	1,380	1,377	1,386	1,386
<b>Manufacturing .....</b>	<b>19,400</b>	<b>19,448</b>	<b>19,425</b>	<b>19,431</b>	<b>19,505</b>	<b>19,557</b>	<b>19,589</b>	<b>19,648</b>	<b>19,648</b>	<b>19,680</b>	<b>19,672</b>	<b>19,661</b>	<b>19,630</b>
<b>Durable goods .....</b>	<b>11,431</b>	<b>11,475</b>	<b>11,462</b>	<b>11,464</b>	<b>11,509</b>	<b>11,545</b>	<b>11,565</b>	<b>11,605</b>	<b>11,594</b>	<b>11,604</b>	<b>11,600</b>	<b>11,591</b>	<b>11,561</b>
Lumber and wood products .....	762	762	761	763	770	775	780	784	778	777	772	770	766
Furniture and fixtures .....	529	531	529	530	531	532	532	532	534	535	537	534	532
Stone, clay, and glass products .....	600	602	600	600	603	605	607	607	608	607	606	604	607
Primary metal industries .....	773	780	776	779	783	784	785	786	786	788	788	787	788
Blast furnaces and basic steel products .....	278	278	277	277	277	277	276	276	276	276	275	276	275
Fabricated metal products .....	1,432	1,438	1,435	1,436	1,442	1,445	1,449	1,458	1,458	1,457	1,454	1,452	1,447
Machinery, except electrical .....	2,077	2,092	2,094	2,098	2,110	2,120	2,126	2,134	2,138	2,143	2,144	2,148	2,151
Electrical and electronic equipment .....	2,072	2,072	2,073	2,072	2,073	2,075	2,067	2,065	2,062	2,060	2,058	2,051	2,043
Transportation equipment .....	2,053	2,058	2,052	2,044	2,055	2,060	2,063	2,079	2,067	2,071	2,073	2,074	2,058
Motor vehicles and equipment .....	855	862	859	859	865	867	867	882	871	869	875	876	861
Instruments and related products .....	748	751	755	756	758	762	767	770	772	776	777	779	778
Miscellaneous manufacturing .....	385	389	387	386	384	387	389	390	391	390	391	392	391
<b>Nondurable goods .....</b>	<b>7,969</b>	<b>7,973</b>	<b>7,963</b>	<b>7,967</b>	<b>7,996</b>	<b>8,012</b>	<b>8,024</b>	<b>8,043</b>	<b>8,054</b>	<b>8,076</b>	<b>8,072</b>	<b>8,070</b>	<b>8,069</b>
Food and kindred products .....	1,633	1,628	1,629	1,627	1,644	1,648	1,646	1,650	1,650	1,655	1,657	1,655	1,655
Tobacco manufactures .....	56	55	55	55	55	56	56	56	56	56	54	53	53
Textile mill products .....	731	730	723	726	726	725	724	728	728	729	728	727	728
Apparel and other textile products .....	1,093	1,091	1,085	1,085	1,083	1,088	1,090	1,092	1,096	1,101	1,098	1,094	1,092
Paper and allied products .....	694	695	694	693	695	695	696	696	696	697	696	697	696
Printing and publishing .....	1,560	1,564	1,568	1,573	1,577	1,581	1,588	1,595	1,595	1,600	1,601	1,603	1,608
Chemicals and allied products .....	1,066	1,068	1,071	1,072	1,074	1,075	1,079	1,084	1,085	1,088	1,090	1,094	1,093
Petroleum and coal products .....	162	162	162	162	162	162	162	160	161	161	162	162	163
Rubber and misc. plastics products .....	830	836	832	830	836	839	840	839	843	845	843	843	839
Leather and leather products .....	144	144	144	144	144	143	143	143	144	144	143	142	142
<b>Service-producing .....</b>	<b>80,296</b>	<b>80,445</b>	<b>80,651</b>	<b>80,894</b>	<b>81,091</b>	<b>81,364</b>	<b>81,584</b>	<b>81,816</b>	<b>82,082</b>	<b>82,242</b>	<b>82,430</b>	<b>82,647</b>	<b>82,878</b>
<b>Transportation and public utilities .....</b>	<b>5,542</b>	<b>5,557</b>	<b>5,572</b>	<b>5,581</b>	<b>5,596</b>	<b>5,616</b>	<b>5,634</b>	<b>5,654</b>	<b>5,667</b>	<b>5,666</b>	<b>5,682</b>	<b>5,700</b>	<b>5,721</b>
Transportation .....	3,326	3,340	3,353	3,365	3,381	3,402	3,421	3,439	3,453	3,452	3,467	3,485	3,505
Communication and public utilities .....	2,216	2,217	2,219	2,216	2,215	2,214	2,213	2,215	2,214	2,214	2,215	2,215	2,216
<b>Wholesale trade .....</b>	<b>6,027</b>	<b>6,038</b>	<b>6,051</b>	<b>6,071</b>	<b>6,086</b>	<b>6,104</b>	<b>6,125</b>	<b>6,146</b>	<b>6,171</b>	<b>6,197</b>	<b>6,206</b>	<b>6,222</b>	<b>6,229</b>
Durable goods .....	3,561	3,569	3,578	3,590	3,599	3,612	3,626	3,638	3,657	3,676	3,676	3,685	3,688
Nondurable goods .....	2,466	2,469	2,473	2,481	2,487	2,492	2,499	2,508	2,514	2,521	2,530	2,537	2,541
<b>Retail trade .....</b>	<b>19,096</b>	<b>19,139</b>	<b>19,182</b>	<b>19,188</b>	<b>19,229</b>	<b>19,282</b>	<b>19,328</b>	<b>19,407</b>	<b>19,460</b>	<b>19,488</b>	<b>19,489</b>	<b>19,524</b>	<b>19,525</b>
General merchandise stores .....	2,459	2,457	2,454	2,452	2,447	2,452	2,460	2,472	2,481	2,490	2,492	2,492	2,479
Food stores .....	3,090	3,105	3,117	3,122	3,149	3,165	3,182	3,200	3,212	3,223	3,233	3,242	3,250
Automotive dealers and service stations .....	2,082	2,096	2,107	2,115	2,124	2,131	2,136	2,143	2,150	2,155	2,159	2,157	2,152
Eating and drinking places .....	6,283	6,284	6,302	6,296	6,314	6,322	6,328	6,323	6,332	6,322	6,335	6,345	6,367
<b>Finance, insurance, and real estate .....</b>	<b>6,672</b>	<b>6,678</b>	<b>6,686</b>	<b>6,695</b>	<b>6,710</b>	<b>6,726</b>	<b>6,744</b>	<b>6,746</b>	<b>6,763</b>	<b>6,774</b>	<b>6,776</b>	<b>6,790</b>	<b>6,801</b>
Finance .....	3,286	3,284	3,285	3,288	3,293	3,299	3,307	3,308	3,311	3,316	3,312	3,318	3,316
Insurance .....	2,081	2,084	2,087	2,092	2,098	2,102	2,110	2,109	2,116	2,117	2,119	2,123	2,128
Real estate .....	1,305	1,310	1,314	1,315	1,319	1,325	1,327	1,329	1,336	1,341	1,345	1,349	1,357
<b>Services .....</b>	<b>25,597</b>	<b>25,683</b>	<b>25,784</b>	<b>25,888</b>	<b>25,986</b>	<b>26,111</b>	<b>26,230</b>	<b>26,318</b>	<b>26,434</b>	<b>26,520</b>	<b>26,651</b>	<b>26,728</b>	<b>26,887</b>
Business services .....	5,567	5,595	5,617	5,651	5,667	5,682	5,715	5,707	5,729	5,736	5,760	5,778	5,801
Health services .....	7,123	7,153	7,187	7,228	7,267	7,313	7,359	7,396	7,442	7,488	7,528	7,568	7,609
<b>Government .....</b>	<b>17,362</b>	<b>17,350</b>	<b>17,376</b>	<b>17,471</b>	<b>17,484</b>	<b>17,525</b>	<b>17,523</b>	<b>17,545</b>	<b>17,587</b>	<b>17,597</b>	<b>17,626</b>	<b>17,683</b>	<b>17,715</b>
Federal .....	2,956	2,958	2,967	2,985	2,986	2,983	2,981	2,978	2,982	2,982	2,982	2,998	2,998
State .....	4,062	4,071	4,079	4,088	4,081	4,085	4,085	4,084	4,095	4,102	4,111	4,117	4,134
Local .....	10,344	10,321	10,330	10,398	10,417	10,457	10,457	10,483	10,510	10,513	10,533	10,568	10,583

<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	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>Total</b> .....	48,741	48,871	49,119	49,207	49,338	49,488	49,586	49,799	49,963	50,130	50,302	50,414	50,515
<b>Total private</b> .....	39,863	39,966	40,191	40,296	40,393	40,503	40,602	40,776	40,943	41,093	41,239	41,340	41,418
<b>Goods-producing</b> .....	6,999	7,018	7,035	7,053	7,049	7,054	7,069	7,095	7,112	7,141	7,152	7,159	7,161
<b>Mining</b> .....	96	96	97	97	98	97	97	97	97	97	97	97	97
<b>Construction</b> .....	540	545	548	551	554	555	555	557	561	566	571	571	573
<b>Manufacturing</b> .....	6,363	6,377	6,390	6,405	6,397	6,402	6,417	6,441	6,454	6,478	6,484	6,491	6,491
<b>Durable goods</b> .....	3,054	3,062	3,073	3,084	3,084	3,082	3,087	3,097	3,103	3,113	3,111	3,109	3,111
Lumber and wood products .....	124	124	125	125	125	125	125	127	127	127	127	127	126
Furniture and fixtures .....	164	164	164	165	164	165	165	165	165	166	166	167	167
Stone, clay, and glass products .....	120	121	121	122	122	121	122	122	123	123	123	123	124
Primary metal industries .....	104	104	106	106	106	106	106	106	107	108	107	108	108
Fabricated metal products .....	321	323	324	326	325	325	325	327	327	330	329	328	327
Machinery, except electrical .....	457	458	460	463	464	465	467	469	469	471	471	471	471
Electrical and electronic equipment .....	865	865	868	868	868	867	868	869	866	864	863	860	859
Transportation equipment .....	399	401	401	401	401	399	401	402	405	407	407	408	409
Instruments and related products .....	322	324	326	328	330	330	331	332	335	337	337	337	338
Miscellaneous manufacturing .....	178	178	178	180	179	179	177	178	179	180	181	180	182
<b>Nondurable goods</b> .....	3,309	3,315	3,317	3,321	3,313	3,320	3,330	3,344	3,351	3,365	3,373	3,382	3,380
Food and kindred products .....	527	527	526	525	520	524	531	535	532	536	537	537	537
Tobacco manufactures .....	18	18	18	18	18	18	18	18	19	18	19	19	18
Textile mill products .....	353	352	352	351	349	349	349	350	350	352	352	354	353
Apparel and other textile products .....	870	871	869	867	863	863	862	867	869	871	874	877	875
Paper and allied products .....	168	169	169	170	170	171	171	171	171	171	171	171	171
Printing and publishing .....	670	672	675	678	681	682	685	688	692	697	698	700	702
Chemicals and allied products .....	308	309	311	312	313	314	315	315	316	318	319	321	322
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 .....	285	287	288	290	289	289	289	291	292	292	292	293	292
Leather and leather products .....	86	86	85	86	85	85	85	84	84	84	85	84	84
<b>Service-producing</b> .....	41,742	41,853	42,084	42,154	42,289	42,434	42,517	42,704	42,851	42,989	43,150	43,255	43,354
<b>Transportation and public utilities</b> .....	1,580	1,585	1,597	1,598	1,604	1,604	1,608	1,614	1,621	1,626	1,630	1,629	1,628
<b>Wholesale trade</b> .....	1,783	1,793	1,801	1,808	1,811	1,820	1,827	1,835	1,845	1,854	1,862	1,866	1,876
<b>Retail trade</b> .....	10,088	10,116	10,137	10,149	10,171	10,179	10,190	10,213	10,238	10,287	10,318	10,336	10,337
<b>Finance, insurance, and real estate</b> .....	4,146	4,149	4,164	4,169	4,178	4,188	4,199	4,212	4,222	4,227	4,242	4,249	4,247
<b>Services</b> .....	15,267	15,305	15,457	15,519	15,580	15,658	15,709	15,807	15,905	15,958	16,035	16,101	16,169
<b>Government</b> .....	8,878	8,905	8,928	8,911	8,945	8,985	8,984	9,023	9,020	9,037	9,063	9,074	9,097
Federal .....	1,058	1,056	1,054	1,055	1,059	1,065	1,067	1,066	1,065	1,063	1,064	1,064	1,064
State .....	1,978	1,982	1,989	1,998	2,003	2,015	2,009	2,013	2,013	2,012	2,017	2,020	2,023
Local .....	5,842	5,867	5,885	5,858	5,883	5,905	5,908	5,944	5,942	5,962	5,982	5,990	6,010

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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>o</sup>	June <sup>o</sup>
<b>Total private</b> .....	71,408	71,593	71,723	71,825	72,021	72,273	72,494	72,774	72,949	73,101	73,204	73,314	73,446
<b>Goods-producing</b> .....	17,791	17,844	17,815	17,813	17,865	17,929	17,963	18,065	18,048	18,052	18,053	18,057	18,005
<b>Mining</b> .....	524	523	522	518	515	511	510	510	510	514	519	520	508
<b>Construction</b> .....	4,017	4,026	4,023	4,032	4,026	4,053	4,068	4,132	4,112	4,096	4,104	4,108	4,096
<b>Manufacturing</b> .....	13,250	13,295	13,270	13,263	13,324	13,365	13,385	13,423	13,426	13,442	13,430	13,429	13,401
<b>Durable goods</b> .....	7,630	7,672	7,658	7,653	7,690	7,717	7,730	7,758	7,749	7,749	7,744	7,738	7,716
Lumber and wood products .....	635	635	634	635	641	645	647	652	648	646	642	640	636
Furniture and fixtures .....	423	425	422	424	425	426	426	426	427	428	428	428	425
Stone, clay, and glass products .....	467	469	468	466	469	470	472	473	474	472	471	470	471
Primary metal industries .....	593	599	595	597	600	601	602	603	602	603	603	601	602
Blast furnaces and basic steel products .....	213	214	216	217	216	217	216	215	215	213	211	210	209
Fabricated metal products .....	1,067	1,073	1,070	1,069	1,076	1,079	1,082	1,089	1,087	1,086	1,080	1,079	1,076
Machinery, except electrical .....	1,247	1,261	1,260	1,261	1,270	1,279	1,285	1,292	1,298	1,298	1,298	1,304	1,306
Electrical and electronic equipment .....	1,224	1,226	1,227	1,227	1,228	1,233	1,224	1,222	1,218	1,214	1,213	1,207	1,205
Transportation equipment .....	1,281	1,287	1,284	1,276	1,283	1,283	1,285	1,294	1,286	1,292	1,297	1,295	1,281
Motor vehicles and equipment .....	665	674	673	671	676	676	676	687	677	675	680	682	668
Instruments and related products .....	412	414	416	417	419	421	425	424	425	427	428	430	430
Miscellaneous manufacturing .....	281	283	282	281	279	280	282	283	284	283	284	284	284
<b>Nondurable goods</b> .....	5,620	5,623	5,612	5,610	5,634	5,648	5,655	5,665	5,677	5,693	5,686	5,691	5,685
Food and kindred products .....	1,161	1,157	1,158	1,156	1,169	1,173	1,172	1,175	1,177	1,182	1,184	1,185	1,183
Tobacco manufactures .....	42	41	41	40	41	42	42	41	41	41	40	38	38
Textile mill products .....	633	634	626	629	629	628	628	630	630	630	630	630	630
Apparel and other textile products .....	919	917	912	912	912	916	919	922	926	930	927	924	922
Paper and allied products .....	525	526	525	523	524	525	525	524	524	525	524	525	525
Printing and publishing .....	873	874	877	878	881	883	886	887	888	891	889	891	894
Chemicals and allied products .....	597	598	600	600	602	602	604	607	608	610	609	614	612
Petroleum and coal products .....	105	106	106	106	106	106	105	104	105	105	105	106	107
Rubber and misc. plastics products .....	646	651	649	647	652	655	656	656	659	660	660	660	656
Leather and leather products .....	119	119	118	119	118	118	118	119	119	119	118	118	118
<b>Service-producing</b> .....	53,617	53,749	53,908	54,012	54,156	54,344	54,531	54,709	54,901	55,049	55,151	55,257	55,441
<b>Transportation and public utilities</b> .....	4,604	4,618	4,631	4,635	4,653	4,671	4,691	4,704	4,718	4,718	4,735	4,752	4,765
<b>Wholesale trade</b> .....	4,857	4,867	4,876	4,890	4,903	4,917	4,931	4,948	4,970	4,990	4,996	5,006	5,016
<b>Retail trade</b> .....	16,925	16,959	17,001	16,997	17,017	17,066	17,106	17,171	17,215	17,244	17,235	17,268	17,273
<b>Finance, insurance, and real estate</b> .....	4,845	4,850	4,856	4,858	4,866	4,873	4,879	4,886	4,893	4,900	4,902	4,917	4,927
<b>Services</b> .....	22,386	22,455	22,544	22,632	22,717	22,817	22,924	23,000	23,105	23,197	23,283	23,314	23,460

<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>o</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**

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

(Percent)

Year	Private nonagricultural payrolls, 349 industries <sup>1</sup>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977 .....	63.5	60.5	70.3	67.9	68.6	63.8	64.5	61.3	65.9	61.3	67.0	67.9
1978 .....	62.5	64.3	70.2	70.1	64.6	67.6	61.6	62.2	62.0	64.3	70.9	66.6
1979 .....	63.9	61.0	64.8	52.7	61.6	61.3	55.7	53.2	50.7	61.3	54.2	53.9
1980 .....	54.6	53.4	49.7	37.4	40.8	38.0	42.3	59.0	55.7	63.8	59.3	58.6
1981 .....	58.5	52.7	54.0	64.5	57.0	53.3	57.7	51.3	45.8	42.3	40.3	36.0
1982 .....	37.2	47.3	40.1	41.5	49.3	38.1	42.8	39.1	44.7	36.2	40.1	43.6
1983 .....	55.0	47.9	60.2	65.6	66.3	66.5	67.2	68.9	70.1	66.6	67.6	64.6
1984 .....	67.8	70.6	65.2	67.8	63.3	67.2	59.6	61.9	57.2	62.9	59.3	57.7
1985 .....	58.5	52.3	60.2	53.2	58.5	51.4	57.6	60.7	53.6	56.3	56.6	59.7
1986 .....	55.4	53.7	53.2	56.3	55.2	50.7	54.7	56.3	57.9	54.6	58.0	61.7
1987 .....	55.6	59.3	61.0	61.9	58.6	59.7	65.3	60.6	63.0	67.8	64.5	60.7
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	<sup>p</sup> 56.3	<sup>p</sup> 54.3						
Over 3-month span												
1977 .....	70.2	74.5	76.4	79.2	74.8	72.1	69.3	72.1	70.5	73.5	73.6	72.5
1978 .....	71.9	73.8	76.9	76.9	74.9	71.1	69.2	65.8	66.3	73.5	74.8	76.2
1979 .....	69.5	71.8	65.8	66.2	62.0	64.0	58.9	53.3	57.6	58.6	62.2	56.2
1980 .....	56.6	51.4	42.0	38.3	35.5	37.4	42.8	50.9	65.3	66.9	68.5	64.3
1981 .....	59.5	55.6	58.9	64.6	63.3	60.7	57.0	52.4	43.3	40.0	34.0	30.9
1982 .....	31.2	34.8	37.7	41.5	40.3	40.3	34.8	38.3	35.4	35.8	34.0	46.6
1983 .....	48.4	57.0	62.6	71.9	72.1	74.4	72.6	77.2	77.2	74.6	71.6	73.6
1984 .....	74.9	75.5	78.2	72.8	73.6	68.8	67.8	65.5	64.6	62.2	61.9	61.6
1985 .....	58.3	58.3	55.6	59.0	55.4	57.6	56.6	58.7	58.5	56.9	59.5	59.3
1986 .....	57.7	53.0	54.4	55.4	53.3	51.4	52.9	58.7	57.0	59.7	62.0	62.0
1987 .....	60.7	62.0	66.6	65.2	65.8	65.9	67.8	71.1	71.2	72.3	70.9	65.9
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	<sup>p</sup> 61.9	<sup>p</sup> 59.0							
Over 6-month span												
1977 .....	79.1	81.8	78.7	78.4	78.1	79.7	76.2	76.2	77.5	76.6	78.1	78.4
1978 .....	77.8	81.4	81.2	79.8	78.7	76.2	73.6	76.9	75.6	76.8	76.1	77.8
1979 .....	74.6	73.9	71.2	66.8	63.2	57.9	62.9	59.5	57.7	58.6	60.9	57.7
1980 .....	48.6	44.7	41.1	37.4	37.1	37.5	44.4	51.9	61.2	70.9	68.9	66.2
1981 .....	66.5	65.2	62.9	64.9	61.3	58.0	50.3	43.0	39.0	32.2	32.5	28.7
1982 .....	28.5	29.7	33.0	38.8	37.2	36.8	34.5	33.8	34.8	38.1	39.1	43.1
1983 .....	55.2	62.2	67.3	71.1	76.4	78.2	79.4	79.5	78.2	77.2	78.1	77.7
1984 .....	78.7	78.9	80.2	77.1	74.4	72.6	70.1	68.6	64.9	63.9	61.6	62.6
1985 .....	58.7	59.7	58.2	57.6	58.6	57.6	57.6	56.2	59.5	59.7	58.3	55.6
1986 .....	55.6	56.6	52.7	52.9	53.4	56.0	55.6	57.0	62.3	61.6	62.9	63.2
1987 .....	67.3	65.8	64.8	66.8	67.6	69.5	71.3	73.5	73.2	71.5	71.8	72.2
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	<sup>p</sup> 69.9	<sup>p</sup> 66.2									
Over 12-month span												
1977 .....	79.2	80.1	81.8	81.9	84.8	84.7	84.5	83.4	83.7	83.0	82.5	82.1
1978 .....	81.9	82.2	81.8	81.9	83.0	82.8	83.4	81.4	81.7	75.8	78.1	75.5
1979 .....	75.9	75.4	74.8	72.1	68.2	66.0	66.0	63.6	59.7	57.6	52.0	48.7
1980 .....	47.0	46.4	46.8	45.3	43.7	43.8	43.6	42.8	44.3	50.6	57.2	62.2
1981 .....	71.2	68.3	68.1	61.3	53.4	48.0	42.3	38.8	36.4	33.1	34.1	32.2
1982 .....	32.4	31.1	29.7	30.4	30.4	31.4	35.0	35.1	38.8	43.4	46.7	51.4
1983 .....	57.0	61.9	66.5	72.8	75.8	77.2	76.8	80.7	80.4	81.4	83.0	81.9
1984 .....	81.7	79.5	78.7	77.1	76.2	74.1	73.1	70.2	69.1	65.2	63.8	61.5
1985 .....	59.5	59.2	59.2	56.9	56.6	58.5	55.9	55.9	56.7	55.6	55.2	53.7
1986 .....	54.4	54.6	53.9	55.6	55.2	56.3	57.2	59.3	60.0	62.0	61.3	63.6
1987 .....	66.6	68.2	68.2	71.8	71.9	72.5	72.2	74.1	75.4	72.5	73.8	76.9
1988 .....	76.2	76.1	74.8	74.6	75.8	74.9	78.1	75.5	75.5	74.8	<sup>p</sup> 75.2	<sup>p</sup> 73.1
1989 .....												

See footnotes at end of table.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Year	Manufacturing payrolls, 143 industries <sup>1</sup>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977 .....	66.0	59.9	68.4	70.9	67.0	59.6	60.3	54.3	62.1	57.4	63.1	70.2
1978 .....	63.1	64.5	63.8	65.6	61.0	62.4	56.0	58.5	57.1	62.8	66.3	69.1
1979 .....	60.3	55.0	58.9	50.4	55.7	61.7	50.0	45.0	41.1	57.4	46.8	47.9
1980 .....	48.6	46.1	47.5	28.4	24.8	27.0	28.7	58.2	55.0	63.1	61.7	53.9
1981 .....	53.2	45.0	55.0	63.1	61.3	56.7	56.0	42.2	39.4	30.5	29.4	23.4
1982 .....	27.0	39.4	28.0	31.9	36.2	26.6	34.4	28.4	35.5	26.6	26.2	39.4
1983 .....	53.2	48.6	55.3	67.0	67.4	59.9	68.8	64.9	68.1	70.9	62.4	62.1
1984 .....	61.7	70.6	64.5	63.8	54.6	61.0	56.0	52.8	42.9	52.8	44.7	48.6
1985 .....	46.5	40.4	44.0	37.6	41.5	39.4	47.9	48.6	37.9	44.3	44.0	50.7
1986 .....	48.9	45.0	43.6	43.6	46.5	43.3	38.7	51.1	48.6	45.0	50.7	52.8
1987 .....	44.3	53.9	54.3	55.7	55.3	54.3	62.8	59.9	63.8	59.9	65.6	56.4
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	<sup>P</sup> 46.8	<sup>P</sup> 46.6						
Over 3-month span												
1977 .....	70.6	77.0	78.7	78.7	72.0	66.7	62.4	64.9	62.4	67.7	69.1	76.2
1978 .....	77.0	72.3	72.3	69.9	69.1	62.8	61.3	58.2	62.4	67.0	70.9	73.4
1979 .....	64.9	62.8	59.6	59.9	58.5	59.2	50.0	36.5	44.0	43.6	52.5	42.9
1980 .....	44.7	40.4	28.4	20.2	18.4	19.5	27.7	39.7	64.2	67.7	67.4	61.3
1981 .....	51.8	50.4	56.4	64.5	66.7	64.9	55.0	42.6	28.0	25.5	17.7	17.4
1982 .....	17.0	19.1	21.3	22.0	22.0	22.3	18.1	18.8	20.6	18.4	17.7	33.3
1983 .....	46.1	53.9	61.7	71.3	70.9	73.8	70.6	76.2	77.0	74.1	72.0	67.4
1984 .....	71.6	71.6	75.2	65.6	65.2	58.9	57.1	50.7	47.5	42.9	45.7	44.7
1985 .....	43.6	37.9	32.6	33.0	31.2	37.6	40.8	37.9	38.3	36.5	42.9	46.8
1986 .....	45.0	40.8	38.3	38.7	39.4	37.2	37.2	44.0	46.5	47.5	52.5	49.3
1987 .....	52.1	51.4	59.6	61.3	58.5	62.8	67.0	71.6	68.4	70.6	67.7	64.5
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	<sup>P</sup> 51.4	<sup>P</sup> 47.5							
Over 6-month span												
1977 .....	81.6	81.9	79.1	77.3	75.2	74.8	67.7	68.4	70.9	75.2	80.5	77.7
1978 .....	77.7	79.8	78.0	72.3	73.0	68.8	63.5	68.1	69.9	71.3	67.0	69.9
1979 .....	68.4	66.3	62.1	58.2	52.1	43.6	48.2	41.5	39.7	40.1	42.6	42.9
1980 .....	33.0	27.0	23.4	16.7	17.4	19.1	26.2	39.7	52.8	70.6	67.4	65.2
1981 .....	65.2	62.8	62.8	68.1	61.7	55.3	40.1	29.1	22.3	17.0	18.4	12.4
1982 .....	10.3	10.6	13.5	20.6	15.6	15.2	12.4	12.1	14.5	18.1	21.3	27.3
1983 .....	46.8	59.6	64.9	67.0	75.5	76.2	78.7	77.3	76.2	73.8	75.9	74.8
1984 .....	75.2	72.3	72.7	70.2	62.1	58.2	54.6	52.5	48.6	44.7	39.4	41.8
1985 .....	35.5	34.8	29.4	31.9	33.3	33.0	31.9	32.6	38.3	40.1	38.3	37.6
1986 .....	37.6	38.7	35.5	33.3	34.0	38.3	37.9	41.1	45.4	49.6	50.4	51.1
1987 .....	57.4	56.7	55.3	62.4	64.9	67.0	67.4	70.6	71.3	69.5	69.5	68.1
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	<sup>P</sup> 58.2	<sup>P</sup> 54.3									
Over 12-month span												
1977 .....	77.0	77.7	75.9	76.6	81.2	82.6	84.0	81.9	83.3	80.5	78.0	77.3
1978 .....	75.2	77.7	76.2	77.0	77.0	77.0	75.2	70.6	70.9	65.6	69.1	64.9
1979 .....	67.0	64.2	62.4	57.4	51.8	48.6	48.9	47.5	42.2	36.5	29.1	24.8
1980 .....	20.6	22.3	23.8	25.2	23.0	22.3	21.3	22.7	23.8	30.5	45.7	59.6
1981 .....	72.0	69.1	69.1	52.8	40.4	35.1	27.7	21.6	17.7	15.2	13.8	12.4
1982 .....	12.1	12.4	9.2	11.3	8.2	9.9	13.5	14.2	15.2	21.6	25.5	33.7
1983 .....	43.3	50.0	56.0	66.0	71.6	75.5	76.2	78.4	78.0	78.7	80.1	76.2
1984 .....	77.0	72.3	68.1	66.0	62.4	61.0	57.8	54.6	50.4	44.0	40.1	33.7
1985 .....	31.6	30.9	30.1	28.4	27.7	28.4	29.1	29.8	32.6	30.9	32.6	29.8
1986 .....	30.9	30.1	34.8	34.8	36.2	39.0	38.3	39.7	42.9	46.1	48.6	50.0
1987 .....	55.3	58.5	58.5	63.5	66.3	67.4	71.6	72.7	71.6	69.1	68.4	72.3
1988 .....	73.8	70.2	70.9	71.6	72.0	69.9	70.9	69.1	71.6	70.2	<sup>P</sup> 69.9	<sup>P</sup> 65.6
1989 .....												

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

<sup>P</sup> = preliminary.

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

equal balance between industries with increasing and decreasing employment.

Establishment survey estimates are currently projected from March 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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Alabama</b> .....	1,549.7	1,566.9	1,572.8	11.1	11.3	11.3	78.7	74.3	75.3
Birmingham .....	400.0	406.6	407.8	5.2	5.0	4.9	24.7	24.6	25.3
Huntsville .....	127.9	133.0	133.9	.1	.1	.1	5.6	5.8	6.0
Mobile .....	165.2	166.4	166.8	.7	.7	.7	10.3	10.2	10.4
Montgomery .....	129.0	130.3	130.2	.1	.1	.1	8.6	7.9	8.0
Tuscaloosa .....	60.3	63.0	62.5	2.6	2.7	2.7	3.0	2.9	2.9
<b>Alaska</b> .....	212.8	213.3	220.9	9.5	10.3	10.3	8.9	7.2	8.4
<b>Arizona</b> .....	1,419.6	1,443.1	1,442.5	12.0	12.0	12.1	93.5	89.2	90.1
Phoenix .....	937.1	947.1	946.5	.7	.8	.8	64.5	60.4	60.7
Tucson .....	248.4	253.1	252.7	1.8	2.0	2.0	17.0	16.4	16.8
<b>Arkansas</b> .....	861.5	883.0	887.6	4.2	4.2	4.3	34.0	32.4	33.8
Fayetteville-Springdale .....	50.5	52.0	51.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.7	1.7
Fort Smith .....	78.6	76.6	76.4	1.0	.9	.9	2.7	2.6	2.6
Little Rock-North Little Rock .....	236.5	241.5	243.3	.4	.4	.4	10.1	9.9	10.3
Pine Bluff .....	32.9	33.7	33.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.8
<b>California</b> .....	12,048.0	12,344.1	12,385.6	42.8	41.5	41.7	599.4	624.1	632.0
Anaheim-Santa Ana .....	1,129.7	1,149.7	1,154.8	1.4	1.3	1.3	66.6	66.9	68.2
Bakersfield .....	162.2	161.0	161.9	14.4	14.1	14.1	9.8	8.9	9.1
Fresno .....	207.6	211.1	212.5	.7	.5	.6	12.1	11.8	12.1
Los Angeles-Long Beach .....	4,101.6	4,180.3	4,185.9	9.9	9.5	9.6	147.1	152.4	153.4
Modesto .....	106.6	112.4	112.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.9	8.0
Oakland .....	837.1	866.3	870.1	3.3	3.5	3.6	50.0	50.5	51.3
Oxnard-Ventura .....	212.7	219.8	221.3	2.9	2.8	2.9	13.7	14.0	14.5
Riverside-San Bernardino .....	627.6	641.2	643.4	1.3	1.3	1.3	52.9	54.8	55.3
Sacramento .....	566.7	591.3	594.0	.7	.6	.6	32.9	33.9	35.2
San Diego .....	909.9	946.7	951.1	.8	.8	.8	56.3	60.5	61.5
San Francisco .....	941.4	952.3	957.2	.9	.9	.9	34.7	35.6	36.0
San Jose .....	816.4	821.9	824.7	.1	.1	.1	33.3	32.9	33.2
Santa Barbara-Santa Maria-Lompoc .....	146.3	148.8	149.0	1.5	1.5	1.5	6.5	6.8	6.9
Santa Rosa-Petaluma .....	126.4	128.6	129.4	.7	.7	.7	8.7	8.2	8.7
Stockton .....	146.2	146.8	148.0	.1	.1	.1	8.4	8.3	8.4
Vallejo-Fairfield-Napa .....	129.6	132.8	134.3	.6	.6	.7	9.5	10.4	10.5
<b>Colorado</b> .....	1,419.5	1,436.7	1,441.9	20.5	20.1	20.1	59.8	54.6	57.3
Boulder-Longmont .....	108.0	106.4	109.3	.3	.3	.3	3.5	3.4	3.6
Denver .....	805.5	801.1	807.0	12.9	11.8	11.8	33.6	28.4	29.7
<b>Connecticut</b> .....	1,674.9	1,689.5	1,699.0	1.6	1.5	1.5	82.3	74.5	77.6
Bridgeport-Milford .....	203.3	203.4	204.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	9.0	9.4
Hartford .....	486.4	469.7	491.3	.3	.4	.4	21.0	20.9	21.4
New Britain .....	65.6	66.2	66.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	4.4	4.7
New Haven-Meriden .....	259.4	263.3	265.2	.4	.4	.4	13.7	14.2	14.7
Stamford .....	125.9	126.0	126.4	.5	.4	.4	5.4	5.5	5.6
Waterbury .....	88.5	88.5	88.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	5.0	5.1
<b>Delaware</b> .....	329.6	340.7	342.2	.1	.1	.1	21.6	21.7	21.6
Wilmington .....	283.0	290.3	290.7	.2	.2	.2	18.7	18.3	18.6
<b>District of Columbia</b> .....	671.4	684.5	685.5	.1	.1	.1	13.5	13.2	13.1
Washington MSA .....	2,157.6	2,223.6	2,235.7	1.2	1.1	1.2	140.8	147.0	148.5
<b>Florida</b> .....	5,081.2	5,274.5	5,267.5	9.1	9.4	9.5	347.3	346.3	347.0
Daytona Beach .....	117.3	121.9	121.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.4	8.3	8.4
Fort Lauderdale-Hollywood-Pompano Beach .....	481.5	497.4	494.9	.3	.3	.3	36.7	36.3	36.5
Fort Myers-Cape Coral .....	115.1	125.1	124.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.3	14.1	13.9
Jacksonville .....	407.9	419.6	421.5	.6	.6	.8	26.8	27.5	27.7
Melbourne-Titusville-Palm Bay .....	151.3	158.5	158.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	9.2	9.1
Miami-Hialeah .....	852.4	872.6	874.0	1.0	.9	1.0	40.4	38.8	38.2
Orlando .....	502.0	517.9	516.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	37.1	37.1	36.9
Pensacola .....	125.7	126.5	126.8	.4	.3	.3	8.6	8.2	8.3
Sarasota .....	109.8	114.7	114.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.0	10.4	10.4
Tallahassee .....	114.3	117.5	117.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	5.7	5.6
Tampa-St. Petersburg-Clearwater .....	830.8	860.6	861.3	.7	.8	.8	57.5	56.6	56.7
West Palm Beach-Boca Raton-DeLray Beach .....	338.5	367.7	363.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.5	30.7	30.1

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Alabama</b> .....	378.4	385.3	385.6	79.1	79.4	79.6	337.2	343.2	344.2
Birmingham .....	56.8	58.6	58.5	32.0	31.9	31.9	97.4	100.3	100.6
Huntsville .....	32.2	33.3	33.2	2.9	2.9	3.0	24.3	25.2	25.4
Mobile .....	25.6	24.7	24.9	10.2	10.2	10.1	43.7	44.3	44.4
Montgomery .....	19.0	18.7	18.7	5.1	5.1	5.1	29.2	29.5	29.4
Tuscaloosa .....	10.1	10.3	10.2	2.0	2.0	2.0	12.4	12.8	12.8
<b>Alaska</b> .....	14.3	12.9	14.0	17.2	18.5	22.1	42.4	41.6	43.2
<b>Arizona</b> .....	190.0	190.0	189.5	72.4	72.8	72.2	346.7	360.0	360.3
Phoenix .....	138.7	139.0	138.9	50.2	50.6	50.4	235.5	243.5	243.6
Tucson .....	30.4	29.5	29.0	9.1	9.1	9.3	56.5	58.1	58.3
<b>Arkansas</b> .....	226.3	234.4	234.1	51.3	51.3	51.7	194.5	197.1	199.1
Fayetteville-Springdale .....	12.8	13.0	13.0	4.8	4.7	4.8	11.6	12.0	12.0
Fort Smith .....	27.8	26.4	25.9	4.1	4.3	4.2	15.9	15.3	15.4
Little Rock-North Little Rock .....	33.5	35.3	35.3	16.6	17.5	17.6	56.8	57.1	57.5
Pine Bluff .....	6.4	6.7	8.5	2.5	2.6	2.6	7.1	7.2	7.3
<b>California</b> .....	2,139.5	2,160.8	2,161.8	584.4	590.0	593.4	2,837.4	2,907.1	2,923.0
Anaheim-Santa Ana .....	255.8	257.4	257.7	34.1	34.1	34.1	277.1	288.3	287.4
Bakersfield .....	10.8	10.4	10.4	7.1	7.3	7.4	38.6	37.8	38.1
Fresno .....	21.8	22.1	22.3	11.3	11.5	11.5	53.5	52.7	53.0
Los Angeles-Long Beach .....	904.1	902.7	900.9	203.7	204.7	205.0	948.0	966.4	969.9
Modesto .....	21.9	24.2	23.8	4.4	4.6	4.6	27.8	29.0	29.3
Oakland .....	107.9	109.2	109.6	55.2	57.6	58.2	202.7	211.4	212.0
Oxnard-Ventura .....	29.9	30.4	30.4	11.0	11.7	11.8	52.6	54.6	55.1
Riverside-San Bernardino .....	81.8	81.7	82.1	30.3	30.5	30.5	156.7	157.1	158.0
Sacramento .....	41.2	42.1	42.0	24.6	25.8	26.0	135.7	139.5	140.4
San Diego .....	126.7	131.4	131.6	35.3	35.7	35.8	219.4	228.2	229.5
San Francisco .....	80.3	80.9	80.5	76.8	78.6	76.9	208.8	211.1	214.3
San Jose .....	270.1	273.8	273.7	21.6	21.4	21.5	159.8	159.6	160.4
Santa Barbara-Santa Maria-Lompoc .....	22.1	22.0	21.7	5.0	5.0	5.0	34.7	35.3	35.4
Santa Rosa-Petaluma .....	19.5	19.7	19.7	5.8	5.8	5.8	32.5	32.9	32.9
Stockton .....	23.7	23.1	23.6	8.6	9.0	9.1	33.8	34.1	34.5
Vallejo-Fairfield-Napa .....	12.0	12.0	12.2	4.5	4.5	4.6	31.2	32.3	32.7
<b>Colorado</b> .....	188.0	189.3	190.5	91.1	90.3	90.4	345.5	352.6	353.4
Boulder-Longmont .....	29.3	28.9	28.9	2.3	2.3	2.3	22.9	22.8	23.4
Denver .....	94.5	95.3	95.6	67.1	85.5	65.7	196.6	197.2	198.2
<b>Connecticut</b> .....	375.3	372.2	370.8	72.7	72.6	73.1	378.2	385.4	388.4
Bridgeport-Milford .....	57.5	56.4	56.2	8.2	8.3	8.4	47.0	46.4	46.9
Hartford .....	90.8	89.3	89.4	18.8	19.0	19.2	103.0	104.6	104.9
New Britain .....	18.6	19.0	19.0	3.1	3.2	3.2	13.5	13.9	14.0
New Haven-Meriden .....	47.5	47.3	47.4	17.8	18.2	18.1	60.0	60.8	61.3
Stamford .....	22.8	22.3	21.8	5.5	5.5	5.6	29.6	29.3	29.6
Waterbury .....	23.8	24.2	23.5	3.2	3.1	3.1	16.7	17.0	17.3
<b>Delaware</b> .....	69.5	72.1	71.8	13.9	14.2	14.1	72.0	73.8	74.4
Wilmington .....	59.2	81.8	81.2	14.7	15.2	15.1	59.6	80.2	60.1
<b>District of Columbia</b> .....	16.5	16.1	16.1	25.3	25.6	25.5	65.2	66.2	66.9
Washington MSA .....	87.4	86.5	86.6	103.7	109.9	110.5	427.7	434.5	437.4
<b>Florida</b> .....	541.5	545.3	545.9	260.6	255.6	256.9	1,376.3	1,448.4	1,442.8
Daytona Beach .....	12.0	12.0	12.0	3.6	3.7	3.7	35.2	37.3	36.9
Fort Lauderdale-Hollywood-Pompano Beach .....	48.2	47.0	46.9	23.3	23.3	23.3	143.9	150.0	148.9
Fort Myers-Cape Coral .....	5.8	6.4	6.6	5.1	5.2	5.2	34.2	36.9	36.7
Jacksonville .....	38.2	39.4	39.2	27.4	27.6	27.7	112.2	115.6	116.6
Melbourne-Titusville-Palm Bay .....	29.2	30.4	30.3	5.6	6.1	6.1	35.5	37.0	37.0
Miami-Hialeah .....	93.2	93.0	93.1	70.3	63.5	64.5	232.4	239.5	240.2
Orlando .....	57.5	56.9	56.8	25.5	26.1	26.4	129.6	134.6	134.2
Pensacola .....	11.2	11.3	11.3	6.5	6.6	6.7	31.9	32.0	32.2
Sarasota .....	8.5	8.8	8.9	3.4	3.4	3.4	32.2	34.4	34.4
Tallahassee .....	4.9	5.0	4.9	2.9	2.8	2.8	23.9	24.7	24.8
Tampa-St. Petersburg-Clearwater .....	96.3	97.0	97.6	39.1	39.1	39.3	228.0	240.1	239.7
West Palm Beach-Boca Raton-Delray Beach .....	35.2	34.1	34.0	12.5	12.8	12.8	90.6	101.8	100.1

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		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Alabama</b> .....	69.9	71.1	71.3	285.8	287.5	288.8	309.5	314.8	316.7
Birmingham .....	28.4	27.8	27.9	93.8	95.9	95.9	61.7	62.5	62.8
Huntsville .....	3.7	3.8	3.8	29.6	31.2	31.4	29.5	30.7	31.0
Mobile .....	8.0	7.9	7.8	38.2	39.3	39.4	28.5	29.0	29.1
Montgomery .....	7.5	7.6	7.7	27.5	28.7	28.6	32.0	32.7	32.8
Tuscaloosa .....	2.1	2.1	2.1	8.6	9.3	9.0	19.5	20.9	20.8
<b>Alaska</b> .....	10.6	10.6	10.6	43.2	42.9	43.8	66.7	69.3	68.5
<b>Arizona</b> .....	94.0	92.1	92.2	362.3	371.9	370.5	248.7	255.3	255.8
Phoenix .....	74.7	73.4	73.8	244.8	249.7	248.3	128.0	129.7	130.2
Tucson .....	12.4	11.8	11.8	67.4	70.4	69.9	53.8	55.8	55.8
<b>Arkansas</b> .....	37.8	38.0	38.0	162.4	170.1	171.0	151.0	155.5	155.8
Fayetteville-Springdale .....	1.5	1.5	1.5	7.8	8.1	8.1	10.2	11.0	10.7
Fort Smith .....	2.7	2.6	2.6	16.4	16.3	16.5	8.0	8.2	8.3
Little Rock-North Little Rock .....	15.8	15.9	15.9	56.3	58.0	58.8	47.0	47.4	47.5
Pine Bluff .....	1.4	1.4	1.3	6.4	6.6	8.7	7.5	7.5	7.5
<b>California</b> .....	810.2	821.4	824.1	3,065.4	3,172.8	3,176.3	1,988.9	2,028.4	2,033.5
Anaheim-Santa Ana .....	92.5	90.7	90.6	280.8	289.5	291.2	121.4	123.5	124.3
Bakersfield .....	6.4	6.5	6.5	34.2	33.5	33.8	41.1	42.5	42.5
Fresno .....	12.1	11.8	11.8	48.2	51.3	51.8	47.9	49.4	49.6
Los Angeles-Long Beach .....	284.8	287.1	287.5	1,093.5	1,129.2	1,129.5	512.5	528.3	530.1
Modesto .....	4.4	4.2	4.2	22.6	23.4	23.4	18.3	19.1	19.1
Oakland .....	55.7	56.2	56.3	198.5	209.2	209.7	163.8	168.7	169.4
Oxnard-Ventura .....	11.2	11.1	11.3	50.7	53.5	53.5	40.7	41.7	41.8
Riverside-San Bernardino .....	27.4	28.3	28.5	148.9	154.8	154.1	128.3	132.7	133.8
Sacramento .....	35.1	37.0	37.0	122.9	132.0	131.4	173.8	180.4	181.4
San Diego .....	63.8	64.8	65.0	242.1	254.4	255.7	165.5	170.9	171.2
San Francisco .....	111.2	110.2	110.2	291.4	298.0	298.9	137.3	139.0	139.5
San Jose .....	32.4	32.8	32.7	211.2	213.7	214.9	87.9	87.8	88.2
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.7	8.7	39.8	40.9	41.1	28.1	28.8	28.7
Santa Rosa-Petaluma .....	8.4	8.4	8.4	29.3	29.0	29.1	23.5	24.1	24.1
Stockton .....	8.8	8.5	8.5	30.6	31.1	31.2	32.2	32.6	32.6
Vallejo-Fairfield-Napa .....	4.6	4.6	4.6	29.1	30.1	30.6	38.1	38.3	38.4
<b>Colorado</b> .....	95.2	93.5	93.7	348.2	381.2	358.4	271.2	277.1	278.1
Boulder-Longmont .....	4.0	4.0	4.1	22.9	23.5	23.4	22.8	23.2	23.3
Denver .....	63.3	61.8	62.2	209.9	211.3	213.8	127.6	129.8	130.0
<b>Connecticut</b> .....	153.4	154.3	154.7	406.0	415.5	420.0	207.4	213.5	212.9
Bridgeport-Milford .....	12.8	13.3	13.3	48.4	50.0	50.5	20.0	20.0	20.0
Hartford .....	76.5	76.0	76.0	113.4	116.0	116.6	82.8	63.5	63.4
New Britain .....	4.2	4.5	4.6	14.0	14.4	14.5	7.0	6.8	6.8
New Haven-Meriden .....	16.1	18.8	18.9	71.2	73.2	73.8	32.7	32.4	32.8
Stamford .....	13.8	14.4	14.4	37.5	37.8	38.2	10.8	10.8	10.8
Waterbury .....	4.5	4.6	4.7	21.0	21.7	22.1	12.6	12.9	12.9
<b>Delaware</b> .....	28.8	32.3	32.7	75.8	78.3	79.0	47.9	48.2	48.5
Wilmington .....	25.5	28.0	28.3	67.0	68.3	68.4	38.1	38.5	38.8
<b>District of Columbia</b> .....	34.8	34.8	34.8	242.2	254.0	253.4	273.9	274.5	275.6
Washington MSA .....	126.2	130.0	130.5	697.4	731.3	733.8	573.2	583.1	587.1
<b>Florida</b> .....	363.2	372.0	372.5	1,386.9	1,481.8	1,473.8	776.3	815.7	819.1
Daytona Beach .....	6.4	6.3	6.3	32.8	34.1	33.9	19.1	20.2	20.3
Fort Lauderdale-Hollywood-Pompano Beach .....	39.8	39.7	39.7	130.5	136.2	134.3	60.8	64.6	65.0
Fort Myers-Cape Coral .....	7.9	8.7	8.7	32.4	35.7	34.9	17.3	18.0	18.3
Jacksonville .....	38.8	39.2	39.2	104.0	108.6	109.0	59.9	61.3	61.5
Melbourne-Titusville-Palm Bay .....	5.6	5.7	5.7	45.0	48.0	48.0	21.2	22.0	21.8
Miami-Hialeah .....	70.5	72.4	72.7	232.9	244.6	244.0	111.7	119.9	120.3
Orlando .....	33.2	33.6	33.7	161.4	169.4	170.4	57.6	60.1	60.3
Pensacola .....	5.8	5.6	5.6	31.9	32.5	32.4	29.6	30.0	30.0
Sarasota .....	8.4	8.6	8.5	33.5	34.8	34.8	13.7	14.3	14.3
Tallahassee .....	5.0	5.0	5.0	23.6	24.0	24.1	47.9	50.0	50.1
Tampa-St. Petersburg-Clearwater .....	65.2	65.9	66.1	239.1	252.1	252.1	104.9	109.0	109.0
West Palm Beach-Boca Raton-DeLray Beach .....	28.5	29.1	29.0	99.2	112.3	110.5	42.9	46.8	46.9

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Georgia</b> .....	2,865.8	2,925.9	2,930.7	8.9	8.9	8.8	150.4	140.6	142.3
Athens .....	65.0	66.0	66.4	.1	.1	.1	2.4	2.3	2.3
Atlanta .....	1,414.5	1,428.8	1,434.7	1.5	1.5	1.4	70.6	66.6	67.9
Augusta .....	159.4	159.0	159.3	.5	.5	.5	10.2	10.4	10.4
Columbus .....	95.1	95.3	95.6	.1	.1	.1	5.2	4.9	5.0
Macon-Warner Robins .....	120.7	123.2	123.5	.1	.1	.1	5.0	5.0	5.2
Savannah .....	104.8	105.5	105.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.3	6.2	6.2
<b>Hawaii</b> .....	477.3	490.4	492.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.6	26.0	28.3
Honolulu .....	378.9	386.6	388.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.9	19.9	20.1
<b>Idaho</b> .....	347.8	355.3	359.7	3.3	3.7	3.8	14.0	13.7	15.0
Boise City .....	91.9	95.6	97.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.8	4.7	5.0
<b>Illinois</b> .....	5,073.6	5,136.1	5,154.1	21.5	20.1	20.2	207.0	198.8	209.1
Aurora-Elgin .....	142.8	146.3	147.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	7.8	8.1
Bloomington-Normal .....	58.8	62.4	62.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.8	1.9
Champaign-Urbana-Rantoul .....	88.9	89.7	89.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.5	2.8
Chicago .....	3,103.1	3,137.7	3,155.2	2.3	2.2	2.2	130.5	129.0	135.2
Davenport-Rock Island-Moline .....	156.3	157.7	157.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.7	4.9
Decatur .....	51.7	52.8	52.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.7	2.7
Joliet .....	98.7	99.3	99.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.7	5.7
Kankakee .....	33.4	33.9	34.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.3
Lake County .....	198.3	203.4	204.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	10.4	11.0
Peoria .....	139.7	142.5	143.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.9	6.1	6.4
Rockford .....	130.2	130.2	130.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.2	4.4
Springfield .....	99.9	100.1	100.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	2.9	3.0
<b>Indiana</b> .....	2,405.2	2,455.7	2,482.5	8.6	8.2	8.4	110.7	113.2	119.8
Anderson .....	49.0	50.2	50.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.4	1.5	1.6
Bloomington .....	53.4	57.6	57.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.3	2.9	3.1
Elkhart-Goshen .....	103.6	106.1	106.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.9	2.9	3.0
Evansville .....	128.5	132.0	133.0	2.1	1.9	2.0	7.4	7.3	7.8
Fort Wayne .....	191.7	196.8	198.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.5	9.8	10.3
Gary-Hammond .....	229.8	237.1	239.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	12.7	13.8	14.7
Indianapolis .....	626.9	642.4	651.4	.9	.9	.9	32.3	34.0	35.5
Lafayette-West Lafayette .....	62.5	67.1	64.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.0	3.4	3.7
Muncie .....	53.0	53.7	53.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.1	2.0	2.1
South Bend-Mishawaka .....	115.9	118.7	120.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.4	6.5	7.0
Terre Haute .....	54.0	55.5	55.1	.4	.3	.3	2.0	2.1	2.5
<b>Iowa</b> .....	1,165.0	1,191.4	1,201.2	2.4	2.2	2.3	38.7	37.1	41.3
Cedar Rapids .....	88.9	90.8	91.6	.1	.1	.1	3.1	2.9	3.0
Des Moines .....	214.3	219.4	221.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	6.5	7.0
Dubuque .....	42.2	42.9	42.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.1	1.1
Sioux City .....	51.4	53.0	53.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.7	1.7
Waterloo-Cedar Falls .....	63.9	66.1	66.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.3	2.5
<b>Kansas</b> .....	1,037.7	1,057.8	1,060.9	10.8	9.9	10.0	43.2	40.6	42.1
Topeka .....	89.9	92.0	91.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	2.9	3.0
Wichita .....	235.3	240.7	242.7	2.2	1.9	2.0	10.0	9.5	9.9
<b>Kentucky</b> .....	1,375.1	1,389.7	1,396.7	36.9	34.2	34.4	63.5	61.0	62.2
Lexington-Fayette .....	192.6	197.1	197.9	.3	.2	.2	11.7	11.8	11.8
Louisville .....	453.8	455.8	458.0	.8	1.1	1.2	21.6	20.6	20.8
Owensboro .....	34.0	34.1	34.6	.7	.5	.6	2.1	1.9	2.0
<b>Louisiana</b> .....	1,502.5	1,513.6	1,519.4	56.4	57.1	56.9	64.3	89.6	89.7
Alexandria .....	45.4	45.2	45.5	.2	.2	.2	2.3	1.9	2.0
Baton Rouge .....	222.4	223.1	222.7	1.0	1.0	1.0	25.7	24.5	24.5
Houma-Thibodaux .....	54.1	54.2	54.3	5.8	6.0	5.8	1.8	1.8	1.8
Lafayette .....	84.4	86.3	86.3	11.2	11.4	11.4	3.0	3.8	3.7
Monroe .....	55.1	54.0	53.8	.4	.4	.4	2.4	2.2	2.3
New Orleans .....	517.6	519.7	520.5	15.1	15.2	15.1	22.1	23.1	23.1
Shreveport .....	131.4	128.0	128.9	3.3	3.0	3.0	6.5	6.4	6.5
<b>Maine</b> .....	518.7	517.8	524.5	.2	.2	.2	34.8	31.8	34.1
Lewiston-Auburn .....	41.1	40.7	41.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.2	2.2
Portland .....	127.5	131.1	133.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	8.7	9.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Georgia</b> .....	575.4	582.5	585.5	180.9	180.0	181.0	728.5	764.8	783.5
Athens .....	14.9	14.9	15.1	1.7	1.9	1.9	14.2	14.5	14.8
Atlanta .....	186.4	174.0	176.5	119.4	115.5	116.1	396.3	408.0	410.2
Augusta .....	36.0	36.2	36.2	4.8	4.4	4.4	35.1	35.1	35.2
Columbus .....	20.3	21.1	21.1	3.6	3.6	3.6	21.0	20.6	20.8
Macon-Warner Robins .....	18.7	18.7	18.6	5.2	5.3	5.3	28.3	28.1	28.3
Savannah .....	17.5	17.5	17.6	9.5	9.8	10.2	25.9	26.0	26.1
<b>Hawaii</b> .....	22.3	21.9	22.1	37.8	39.3	39.6	126.2	128.3	129.0
Honolulu .....	16.7	16.3	16.6	30.9	32.3	32.5	100.3	100.1	100.6
<b>Idaho</b> .....	57.5	58.2	59.5	18.4	18.8	18.7	86.1	88.0	89.1
Boise City .....	12.7	13.9	14.1	5.2	5.4	5.4	23.1	24.2	24.7
<b>Illinois</b> .....	971.4	980.4	981.0	299.1	301.6	302.4	1,247.5	1,282.2	1,287.0
Aurora-Elgin .....	38.3	38.4	38.3	3.0	2.9	2.9	38.4	39.5	40.0
Bloomington-Normal .....	5.6	7.8	8.1	2.7	2.7	2.7	13.3	13.2	13.2
Champaign-Urbana-Rantoul .....	8.5	8.9	9.0	2.3	2.3	2.3	20.1	20.2	20.3
Chicago .....	563.1	585.5	564.7	186.8	188.3	188.8	775.0	777.9	783.9
Davenport-Rock Island-Moline .....	32.5	32.8	32.8	8.0	8.1	8.1	42.8	43.2	43.2
Decatur .....	13.6	13.6	13.7	5.0	5.2	5.2	11.3	11.7	11.7
Joliet .....	19.1	19.3	19.4	8.3	8.3	8.3	22.9	22.9	22.9
Kankakee .....	5.2	5.5	5.6	1.3	1.3	1.3	8.4	8.5	8.5
Lake County .....	44.2	44.3	44.4	7.0	7.1	7.2	54.4	57.7	57.9
Peoria .....	33.2	35.1	35.6	6.9	7.1	7.1	33.7	33.8	33.9
Rockford .....	45.3	45.8	45.6	5.0	5.0	5.1	28.5	28.6	28.6
Springfield .....	4.0	3.7	3.6	4.9	5.0	5.0	22.5	22.0	22.3
<b>Indiana</b> .....	631.4	636.6	637.1	123.9	127.8	129.0	571.5	579.2	588.2
Anderson .....	17.3	17.1	17.1	1.4	1.5	1.5	11.3	11.6	11.7
Bloomington .....	9.3	10.4	10.6	1.7	1.8	1.8	12.1	12.6	12.5
Elkhart-Goshen .....	56.7	57.9	58.0	2.8	2.9	2.9	18.8	19.1	19.4
Evansville .....	30.7	31.5	31.7	6.6	6.7	6.7	33.6	34.5	34.8
Fort Wayne .....	52.1	53.6	53.5	12.7	13.0	13.2	47.4	48.4	49.1
Gary-Hammond .....	56.3	57.2	57.2	15.6	15.6	15.7	54.5	56.8	57.5
Indianapolis .....	106.2	106.7	106.9	39.2	40.4	40.8	161.7	164.7	166.9
Lafayette-West Lafayette .....	12.2	12.4	12.4	1.9	1.9	1.9	13.0	13.1	13.2
Muncie .....	11.0	11.2	11.2	2.4	2.4	2.4	12.9	13.1	13.3
South Bend-Mishawaka .....	24.1	23.4	23.3	5.2	5.4	5.4	29.8	30.5	30.9
Terre Haute .....	10.2	10.1	10.1	2.9	3.1	3.2	14.8	14.9	15.0
<b>Iowa</b> .....	226.7	232.9	233.8	54.0	55.2	55.4	295.7	303.4	306.6
Cedar Rapids .....	23.1	23.7	23.7	5.4	5.5	5.6	21.3	21.6	21.7
Des Moines .....	25.6	26.2	26.3	12.5	12.5	12.5	55.1	56.9	57.7
Dubuque .....	12.1	12.4	12.4	1.7	1.8	1.8	9.7	9.6	10.0
Sioux City .....	9.7	10.5	10.5	3.1	3.4	3.3	13.5	13.7	13.8
Waterloo-Cedar Falls .....	14.7	15.3	15.4	1.7	1.8	1.9	15.2	15.6	15.8
<b>Kansas</b> .....	181.3	184.1	185.0	64.7	65.1	65.8	258.1	258.7	260.7
Topeka .....	9.3	9.4	9.3	6.7	6.8	6.7	21.4	22.1	22.1
Wichita .....	61.2	63.7	63.9	10.9	11.4	11.6	54.4	54.0	54.5
<b>Kentucky</b> .....	273.3	280.8	281.5	72.7	74.9	75.1	327.3	331.3	331.3
Lexington-Fayette .....	31.5	34.3	34.6	8.2	8.2	8.2	42.1	43.2	43.1
Louisville .....	88.1	87.3	87.1	26.4	29.0	29.2	112.9	110.4	111.1
Owensboro .....	5.8	6.2	6.3	2.1	2.1	2.1	6.7	6.7	6.7
<b>Louisiana</b> .....	170.0	171.1	171.6	108.1	108.3	108.4	358.8	360.8	362.8
Alexandria .....	3.2	3.4	3.4	2.1	2.1	2.1	11.0	10.4	10.6
Baton Rouge .....	19.1	19.4	19.5	10.5	10.4	10.4	52.0	53.2	53.7
Houma-Thibodaux .....	4.7	4.4	4.5	6.2	6.2	6.3	13.7	13.6	13.7
Lafayette .....	7.1	6.9	6.8	5.7	6.2	6.2	23.0	23.4	23.4
Monroe .....	7.5	7.6	7.1	2.9	2.8	2.8	14.1	13.4	13.3
New Orleans .....	43.9	43.2	43.6	43.9	44.3	44.2	134.2	134.6	134.4
Shreveport .....	18.0	17.5	17.3	8.0	8.1	8.0	31.7	31.3	31.4
<b>Maine</b> .....	106.2	106.2	105.6	20.6	21.3	21.6	126.0	124.0	127.2
Lewiston-Auburn .....	10.8	10.0	10.1	1.5	1.4	1.4	9.9	10.2	10.4
Portland .....	17.2	17.5	17.4	5.5	5.1	5.3	37.6	39.0	39.5

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	Finance, insurance, and real estate			Services			Government		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Georgia</b> .....	160.6	163.6	163.7	565.8	591.1	590.0	495.3	514.3	515.9
Athens .....	1.9	2.0	2.0	10.1	10.4	10.3	19.6	20.0	20.1
Atlanta .....	102.4	104.6	105.1	333.2	348.5	347.1	204.7	210.0	210.5
Augusta .....	5.9	5.5	5.5	32.9	33.0	33.3	34.1	33.9	33.9
Columbus .....	6.6	6.6	6.5	17.4	17.6	17.5	20.9	20.8	20.8
Macon-Warner Robins .....	7.5	7.9	8.0	22.7	23.7	23.6	33.0	34.3	34.4
Savannah .....	4.5	4.5	4.5	24.9	24.9	24.9	16.2	16.6	16.5
<b>Hawaii</b> .....	34.5	35.6	35.6	131.0	136.6	136.6	100.9	102.7	103.5
Honolulu .....	29.1	30.0	29.9	99.2	101.9	102.0	84.6	86.1	86.8
<b>Idaho</b> .....	19.3	19.1	19.3	71.5	76.0	75.8	77.7	76.0	78.5
Boise City .....	7.7	7.6	7.6	20.5	21.5	22.0	17.9	18.3	16.4
<b>Illinois</b> .....	369.3	369.1	370.5	1,220.9	1,242.7	1,248.0	736.9	741.2	735.9
Aurora-Elgin .....	6.5	8.8	6.8	31.5	33.0	33.3	16.0	15.9	16.0
Bloomington-Normal .....	10.0	10.0	10.0	13.1	13.4	13.4	12.4	13.5	13.3
Champaign-Urbana-Rantoul .....	3.4	3.5	3.5	16.3	16.8	16.8	35.8	35.5	35.4
Chicago .....	269.1	270.7	271.2	810.3	832.1	836.3	366.0	372.0	372.9
Davenport-Rock Island-Moline .....	8.2	8.1	8.2	32.9	33.2	33.0	27.1	27.6	27.2
Decatur .....	2.2	2.1	2.1	11.4	11.7	11.6	5.6	5.6	5.7
Joliet .....	3.7	3.7	3.7	22.0	22.1	22.2	16.9	17.3	17.4
Kankakee .....	1.5	1.5	1.5	9.0	9.2	9.2	6.7	6.6	6.7
Lake County .....	7.0	7.0	7.1	45.5	44.7	45.0	30.4	32.2	32.2
Peoria .....	7.4	7.5	7.5	36.2	36.6	36.6	16.4	16.3	16.4
Rockford .....	5.1	5.4	5.4	29.3	29.4	29.7	12.5	12.0	11.9
Springfield .....	8.0	8.1	8.1	25.1	25.6	25.6	32.4	32.8	33.1
<b>Indiana</b> .....	119.3	122.5	124.0	479.0	494.6	502.2	360.9	373.4	373.7
Anderson .....	1.6	1.7	1.7	10.1	10.5	10.3	6.0	6.4	6.5
Bloomington .....	1.9	2.1	2.2	8.6	9.5	9.6	17.4	18.3	17.7
Elkhart-Goshen .....	2.6	2.7	2.8	13.9	14.5	14.7	5.9	6.0	6.0
Evansville .....	5.2	5.3	5.3	30.4	31.7	31.8	12.4	13.1	13.1
Fort Wayne .....	12.4	12.7	13.0	39.2	40.6	41.0	18.4	18.7	18.6
Gary-Hammond .....	8.3	8.4	8.5	50.8	53.0	53.4	31.4	32.3	32.4
Indianapolis .....	48.2	48.9	49.3	145.4	149.6	153.6	93.0	97.2	97.6
Lafayette-West Lafayette .....	3.1	3.3	3.3	11.1	11.8	11.9	18.1	21.1	17.9
Muncie .....	1.6	1.7	1.7	11.1	11.1	11.3	11.9	12.2	11.6
South Bend-Mishawaka .....	6.1	6.2	6.3	33.5	35.0	35.3	11.8	11.6	11.9
Terre Haute .....	2.0	2.0	2.0	11.6	11.9	12.0	10.2	11.0	10.0
<b>Iowa</b> .....	85.8	87.3	87.8	263.2	273.3	272.9	218.7	220.0	221.1
Cedar Rapids .....	4.7	4.9	4.9	20.8	22.2	22.4	10.4	9.9	10.2
Des Moines .....	28.5	30.5	30.6	54.4	55.9	56.5	30.6	30.7	30.8
Dubuque .....	1.4	1.4	1.5	12.4	12.9	12.6	3.6	3.4	3.4
Sioux City .....	2.5	2.6	2.6	14.3	14.5	14.6	6.5	6.6	6.8
Waterloo-Cedar Falls .....	2.9	2.9	2.9	14.6	14.9	14.6	12.8	13.2	13.1
<b>Kansas</b> .....	56.3	57.8	58.4	212.0	220.5	221.8	209.3	221.1	217.1
Topeka .....	6.4	6.6	6.6	20.8	20.9	20.7	21.8	23.4	22.6
Wichita .....	11.1	10.8	10.8	56.6	59.0	59.4	28.9	30.4	30.6
<b>Kentucky</b> .....	59.2	56.3	56.4	294.3	300.0	303.2	247.9	249.2	250.6
Lexington-Fayette .....	9.2	9.3	9.3	43.8	42.9	43.2	45.8	47.4	47.5
Louisville .....	27.2	26.4	26.4	112.9	117.8	118.9	81.7	63.4	63.3
Owensboro .....	1.4	1.3	1.4	7.9	7.9	8.0	5.3	5.5	5.5
<b>Louisiana</b> .....	82.8	80.7	80.3	328.3	328.8	332.3	315.8	317.4	317.2
Alexandria .....	2.6	2.5	2.5	11.3	11.5	11.5	12.7	13.2	13.2
Baton Rouge .....	13.6	13.6	13.6	45.9	46.2	45.7	54.6	54.8	54.3
Houma-Thibodaux .....	2.2	2.2	2.1	9.1	9.4	9.4	10.6	10.6	10.7
Lafayette .....	3.6	3.5	3.5	18.3	18.5	18.6	12.5	12.6	12.7
Monroe .....	4.4	4.3	4.2	11.7	12.1	12.3	11.7	11.2	11.4
New Orleans .....	33.8	33.3	33.2	138.2	139.0	139.7	86.4	87.0	87.2
Shreveport .....	6.8	6.2	6.2	31.7	30.2	31.0	25.4	25.3	25.5
<b>Maine</b> .....	25.3	25.4	25.4	112.4	113.7	115.2	91.0	95.2	95.1
Lewiston-Auburn .....	2.2	2.3	2.3	10.5	10.5	10.8	4.0	4.1	4.0
Portland .....	12.2	11.9	12.0	30.5	31.9	32.7	15.4	17.0	17.0

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Maryland</b> .....	2,092.9	2,113.1	2,128.0	1.7	1.7	1.7	160.5	159.3	159.9
Baltimore MSA .....	1,113.7	1,123.8	1,131.0	.3	.3	.3	75.7	75.3	76.1
Baltimore City .....	465.7	472.0	473.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.3	19.3	19.4
Suburban Maryland-D.C. ....	746.8	763.1	766.3	.6	.5	.5	67.5	67.9	68.4
<b>Massachusetts</b> .....	3,128.6	3,140.2	3,160.8	1.6	1.2	1.3	144.4	138.6	142.8
Boston .....	1,756.5	1,766.6	1,776.6	.9	.9	1.0	72.6	71.9	75.4
Brockton .....	73.6	75.5	75.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	4.3	4.5
Fall River .....	56.3	58.4	57.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.5	3.7
Fitchburg-Leominster .....	42.2	42.1	42.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.7	2.9
Lawrence-Haverhill .....	167.2	167.0	167.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9	7.6	8.1
Lowell .....	110.4	111.0	111.9	.2	.2	.2	5.9	5.9	6.3
New Bedford .....	88.3	69.2	69.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.8	4.0
Pittsfield .....	42.3	42.6	43.5	.1	.1	.1	2.7	2.6	2.9
Springfield .....	242.6	244.4	245.1	.1	.1	.1	10.3	10.8	11.2
Worcester .....	208.1	215.6	216.4	.1	.1	.1	10.6	10.6	10.9
<b>Michigan</b> .....	3,806.6	3,852.7	3,883.1	10.6	10.8	10.9	134.6	127.1	138.4
Ann Arbor .....	169.8	178.3	176.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	5.4	5.6
Battle Creek .....	58.0	59.1	59.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.8	1.9
Benton Harbor .....	65.6	67.2	67.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.6
Detroit .....	1,889.5	1,927.2	1,945.8	.9	.8	.8	62.7	60.8	68.5
Flint .....	163.8	167.3	168.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	5.0	5.4
Grand Rapids .....	329.3	337.0	340.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.2	17.2	17.6
Jackson .....	52.4	54.3	54.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.6	1.6
Kalamazoo .....	106.5	110.8	109.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.5	3.6
Lansing-East Lansing .....	212.2	213.4	217.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	5.8	6.2
Muskegon .....	57.9	57.0	57.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.4	2.6
Saginaw-Bay City-Midland .....	154.6	155.8	157.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	6.5	7.0
<b>Minnesota</b> .....	2,028.1	2,058.7	2,089.1	7.1	6.9	7.4	80.5	72.3	81.0
Duluth .....	92.5	91.9	93.4	4.7	4.8	4.9	3.6	2.9	3.4
Minneapolis-St. Paul .....	1,319.3	1,343.8	1,359.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	53.2	49.6	54.2
Rochester .....	59.4	61.7	62.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	1.9	2.0
St. Cloud .....	73.4	74.5	75.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.6	4.0
<b>Mississippi</b> .....	897.0	912.3	915.1	6.4	5.8	5.9	35.8	34.5	34.9
Jackson .....	181.2	184.8	185.6	.9	.9	.9	8.5	8.4	8.4
<b>Missouri</b> .....	2,249.6	2,272.3	2,280.6	5.3	5.2	5.3	96.3	89.2	90.9
Kansas City .....	756.4	767.5	768.4	.6	.6	.6	33.9	32.0	32.4
St. Louis .....	1,142.5	1,153.4	1,156.0	3.3	3.1	3.2	55.6	50.2	50.1
Springfield .....	113.1	115.1	115.0	.1	.1	.1	4.8	4.4	4.6
<b>Montana</b> .....	279.3	279.0	283.5	6.0	6.3	6.3	8.9	8.3	8.9
<b>Nebraska</b> .....	693.2	710.8	715.4	1.7	1.6	1.6	25.3	25.9	27.3
Lincoln .....	118.1	121.6	121.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.1	4.2
Omaha .....	309.0	318.7	320.8	.2	.2	.2	12.2	11.8	12.4
<b>Nevada</b> .....	534.3	563.4	570.6	10.5	12.6	12.9	35.1	41.0	42.3
Las Vegas .....	304.7	325.2	328.5	.2	.2	.2	21.7	26.7	27.2
Reno .....	136.9	140.8	142.5	1.2	1.4	1.4	7.3	8.0	8.2
<b>New Hampshire</b> .....	523.8	527.1	533.5	.7	.7	.7	37.3	32.3	34.3
Manchester .....	85.3	86.3	86.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.9	6.0	6.2
Nashua .....	95.7	94.4	95.2	.1	.1	.1	4.9	4.4	4.5
Portsmouth-Dover-Rochester .....	111.4	111.6	113.7	.2	.1	.1	6.3	5.4	5.7
<b>New Jersey</b> .....	3,649.4	3,669.1	3,683.8	2.3	2.4	2.5	174.2	174.6	178.3
Atlantic City .....	168.7	168.6	174.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.7	11.0	11.6
Bergen-Passaic .....	674.4	681.6	683.8	.1	.2	.2	33.1	33.3	34.2
Camden .....	432.3	441.4	443.2	.1	.1	.1	24.2	24.0	24.7
Jersey City .....	244.2	247.6	247.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.5	7.8
Middlesex-Somerset-Hunterdon .....	527.1	541.1	542.0	.7	.6	.7	24.5	24.4	25.2
Monmouth-Ocean .....	329.3	331.8	337.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.7	23.0	23.6
Newark .....	956.1	962.7	963.7	.7	.7	.7	39.6	39.3	40.5
Trenton .....	198.3	199.4	199.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.6	5.7
Vineland-Millville-Bridgeton .....	57.3	58.4	59.1	.4	.4	.4	2.4	2.2	2.4

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Maryland</b> .....	207.2	205.3	205.5	95.4	95.1	94.5	531.9	535.3	540.2
Baltimore MSA .....	132.6	129.9	129.7	54.8	55.2	55.2	272.7	273.9	278.8
Baltimore City .....	44.6	45.4	45.5	27.8	27.7	27.7	95.6	95.2	96.3
Suburban Maryland-D.C. ....	35.6	36.4	36.7	27.0	27.6	27.7	199.2	202.0	203.1
<b>Massachusetts</b> .....	586.7	576.5	575.9	134.5	134.3	136.1	730.9	725.0	732.6
Boston .....	271.9	267.4	267.5	77.3	76.3	77.0	389.8	385.9	387.1
Brockton .....	11.0	11.1	11.1	5.2	5.0	5.0	22.3	22.6	22.8
Fall River .....	15.9	15.2	15.1	2.0	1.9	2.0	14.3	14.4	14.5
Fitchburg-Leominster .....	12.0	12.3	12.3	1.7	1.6	1.5	10.3	10.3	10.4
Lawrence-Haverhill .....	50.6	47.7	47.3	7.0	7.2	7.3	36.9	37.9	36.4
Lowell .....	36.8	36.2	36.1	4.9	5.0	5.4	23.5	24.1	24.1
New Bedford .....	19.2	18.0	18.1	3.1	3.0	3.1	16.4	16.7	16.8
Pittsfield .....	11.1	10.9	10.9	1.1	1.2	1.2	9.7	10.1	10.3
Springfield .....	51.2	50.4	50.3	9.8	10.4	10.5	57.1	57.8	58.4
Worcester .....	44.7	45.7	45.8	9.5	9.7	9.8	49.9	52.1	52.2
<b>Michigan</b> .....	948.9	953.0	952.3	155.8	153.1	154.2	884.7	899.4	914.5
Ann Arbor .....	38.8	38.7	38.8	4.4	4.0	3.9	30.9	32.8	33.4
Battle Creek .....	15.5	15.3	15.4	1.8	1.8	1.8	11.8	12.2	12.4
Benton Harbor .....	22.1	22.6	22.4	2.3	2.3	2.4	13.9	14.5	14.8
Detroit .....	454.7	468.2	468.2	88.9	86.3	86.7	445.2	456.4	463.7
Flint .....	49.2	51.2	51.3	4.1	4.1	4.1	43.4	44.4	45.1
Grand Rapids .....	98.2	99.4	99.9	11.5	11.9	12.1	85.2	87.7	89.4
Jackson .....	13.3	14.0	14.0	4.1	4.2	4.2	11.7	12.3	12.4
Kalamazoo .....	30.5	30.4	30.6	3.2	3.3	3.3	24.2	25.7	26.0
Lansing-East Lansing .....	33.4	32.6	32.5	5.5	5.3	5.4	44.5	46.6	47.5
Muskegon .....	17.3	16.4	16.4	2.4	2.3	2.3	13.4	13.4	13.6
Saginaw-Bay City-Midland .....	43.1	43.3	43.4	6.9	6.9	7.0	36.4	35.9	36.7
<b>Minnesota</b> .....	389.4	396.4	397.2	101.9	104.0	105.3	508.4	515.3	523.2
Duluth .....	7.5	8.0	8.1	5.9	5.7	5.8	22.7	22.2	22.6
Minneapolis-St. Paul .....	262.6	287.3	267.4	70.0	72.2	72.9	327.1	334.1	337.3
Rochester .....	10.7	11.3	11.3	1.7	1.7	1.7	12.1	12.5	12.7
St. Cloud .....	12.9	13.4	13.5	3.6	3.7	3.7	21.8	22.2	22.6
<b>Mississippi</b> .....	238.2	242.4	242.6	44.0	44.3	44.5	190.6	194.5	196.2
Jackson .....	21.0	21.1	21.3	13.2	13.3	13.4	42.7	43.4	43.9
<b>Missouri</b> .....	427.7	433.8	434.3	147.2	148.0	148.7	552.2	554.4	558.7
Kansas City .....	111.5	110.3	110.2	61.3	62.5	62.5	196.4	197.6	198.6
St. Louis .....	221.1	227.0	226.9	74.0	74.5	75.0	277.0	278.9	280.4
Springfield .....	21.6	21.2	21.2	6.8	7.0	7.1	31.9	32.2	32.4
<b>Montana</b> .....	20.6	20.6	21.1	19.3	19.3	19.6	72.7	72.4	73.5
<b>Nebraska</b> .....	93.8	97.7	97.7	44.7	47.1	47.3	177.8	183.2	183.9
Lincoln .....	14.2	15.3	15.1	6.2	6.6	6.6	26.6	27.3	27.2
Omaha .....	34.3	35.0	35.4	23.9	25.9	25.9	76.2	79.7	80.2
<b>Nevada</b> .....	24.7	26.1	26.3	28.8	30.1	30.2	108.0	113.4	115.0
Las Vegas .....	9.3	10.2	10.3	16.3	17.1	17.0	63.8	66.7	67.4
Reno .....	8.6	8.9	9.0	9.3	9.6	9.7	30.6	32.7	33.1
<b>New Hampshire</b> .....	117.9	117.9	117.4	17.9	17.6	17.9	133.0	135.3	136.6
Manchester .....	12.1	11.6	11.5	5.3	5.5	5.5	23.6	23.7	23.5
Nashua .....	38.2	35.9	35.9	2.6	2.6	2.7	22.6	21.4	21.5
Portsmouth-Dover-Rochester .....	20.6	20.5	20.5	3.0	3.1	3.2	28.5	28.9	30.0
<b>New Jersey</b> .....	668.8	659.1	661.2	242.8	243.1	242.9	868.1	866.6	873.3
Atlantic City .....	8.8	8.4	8.5	6.6	6.7	6.6	37.4	35.9	39.5
Bergen-Passaic .....	158.7	156.1	156.3	28.3	28.2	28.2	190.9	192.3	192.4
Camden .....	72.2	72.3	72.5	19.3	20.3	20.2	115.5	118.0	117.8
Jersey City .....	45.4	44.7	45.5	32.8	33.8	33.4	61.4	62.0	61.7
Middlesex-Somerset-Hunterdon .....	115.0	116.5	116.2	43.3	44.6	44.8	125.1	127.7	127.3
Monmouth-Ocean .....	29.5	29.7	29.5	17.8	18.8	18.7	87.8	85.9	87.9
Newark .....	175.5	172.6	171.8	80.2	79.0	79.0	195.3	195.4	196.9
Trenton .....	31.2	30.9	30.8	6.6	6.6	6.7	31.2	32.2	32.3
Vineland-Milville-Bridgeton .....	14.8	15.1	15.3	2.4	2.2	2.3	11.7	12.4	12.5

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	Finance, insurance, and real estate			Services			Government		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Maryland</b> .....	129.1	131.0	131.4	563.0	571.3	575.9	404.1	414.1	416.9
Baltimore MSA .....	76.4	77.3	77.4	294.0	300.9	302.7	207.2	211.0	213.0
Baltimore City .....	45.2	45.3	45.4	142.0	146.4	146.7	91.2	92.7	92.7
Suburban Maryland-D.C. ....	43.1	44.6	44.6	216.4	221.3	221.7	157.4	162.8	163.6
<b>Massachusetts</b> .....	224.8	232.0	233.4	894.9	923.6	929.4	411.0	409.0	409.3
Boston .....	153.9	158.7	159.8	582.2	598.0	600.1	207.9	207.7	208.9
Brockton .....	3.3	3.4	3.4	15.6	16.7	16.7	12.0	12.4	12.4
Fall River .....	3.1	3.4	3.4	10.8	11.0	11.2	7.0	7.0	7.1
Fitchburg-Leominster .....	1.7	1.7	1.7	8.9	8.6	9.0	5.0	4.9	4.9
Lawrence-Haverhill .....	6.7	6.9	7.1	35.9	37.3	37.7	22.2	22.4	21.8
Lowell .....	4.0	4.1	4.1	21.3	21.8	22.0	13.8	13.7	13.7
New Bedford .....	2.6	2.5	2.6	13.7	14.4	14.6	9.8	10.8	10.6
Pittsfield .....	2.0	1.9	2.0	10.7	10.9	11.2	4.9	4.9	4.9
Springfield .....	15.8	15.6	15.8	59.2	61.2	60.7	39.1	38.3	38.1
Worcester .....	14.5	15.3	15.4	53.5	56.8	56.8	25.3	25.5	25.4
<b>Michigan</b> .....	185.8	186.6	188.2	852.3	874.9	879.4	633.9	647.9	645.3
Ann Arbor .....	4.6	5.0	5.0	34.4	37.9	38.9	50.2	54.4	50.6
Battle Creek .....	3.4	3.5	3.5	11.8	12.5	12.0	11.6	12.1	12.1
Benton Harbor .....	2.5	2.5	2.5	14.3	14.8	15.0	8.7	8.9	8.9
Detroit .....	109.9	109.5	110.2	480.0	491.1	494.2	247.3	254.1	255.5
Flint .....	6.0	5.9	5.9	31.9	33.0	33.1	23.9	23.6	23.9
Grand Rapids .....	15.1	15.5	15.6	70.1	72.5	72.2	32.7	32.6	33.4
Jackson .....	1.9	1.9	1.9	9.7	10.1	10.1	10.0	10.1	10.3
Kalamazoo .....	4.8	5.1	5.1	24.1	24.5	24.7	16.2	18.3	16.1
Lansing-East Lansing .....	12.4	12.9	13.1	40.3	41.6	41.6	69.5	68.2	70.4
Muskegon .....	1.4	1.3	1.4	11.8	12.0	12.2	9.2	9.1	9.3
Saginaw-Bay City-Midland .....	6.2	6.2	6.3	33.0	35.3	35.6	21.5	21.4	21.4
<b>Minnesota</b> .....	119.2	120.3	121.3	490.4	505.5	512.1	331.2	338.0	341.6
Duluth .....	3.1	3.2	3.1	22.5	22.4	22.8	22.4	22.7	22.8
Minneapolis-St. Paul .....	92.8	94.3	95.1	331.8	341.9	346.0	181.2	183.7	186.1
Rochester .....	1.5	1.5	1.5	24.9	26.2	26.4	6.4	6.5	6.8
St. Cloud .....	2.2	2.2	2.3	15.9	15.7	15.9	13.3	13.6	13.6
<b>Mississippi</b> .....	38.8	39.0	39.1	145.6	150.2	150.7	197.6	201.6	201.2
Jackson .....	14.6	14.7	14.7	40.1	41.9	42.1	40.3	41.2	40.8
<b>Missouri</b> .....	135.9	135.6	135.8	528.1	536.9	539.0	358.9	369.2	367.9
Kansas City .....	58.1	58.0	58.1	179.3	185.8	186.8	115.3	120.7	119.2
St. Louis .....	76.0	74.9	75.2	292.2	300.2	301.5	143.3	144.6	143.7
Springfield .....	5.1	5.3	5.3	28.3	29.8	29.3	14.5	15.1	15.0
<b>Montana</b> .....	13.3	13.4	13.5	66.7	67.4	68.6	71.8	71.3	72.0
<b>Nebraska</b> .....	47.9	48.8	49.1	156.6	165.1	166.1	143.6	141.4	142.4
Lincoln .....	8.3	8.4	8.4	26.3	28.0	28.4	32.1	31.9	32.0
Omaha .....	28.7	29.4	29.6	84.8	89.5	89.7	46.7	47.2	47.4
<b>Nevada</b> .....	24.4	25.9	26.2	234.7	242.7	245.6	68.1	71.6	72.1
Las Vegas .....	15.0	16.4	16.6	143.9	151.3	153.2	34.5	36.6	36.6
Reno .....	6.9	7.0	7.1	55.7	55.7	56.3	17.3	17.5	17.7
<b>New Hampshire</b> .....	32.3	32.5	33.0	115.5	118.6	121.3	69.2	72.2	72.1
Manchester .....	8.2	8.4	8.4	21.5	22.1	22.2	8.7	9.0	9.1
Nashua .....	3.7	3.6	3.7	18.3	19.1	19.4	7.3	7.3	7.4
Portsmouth-Dover-Rochester .....	6.8	7.0	7.1	20.7	20.6	21.1	25.3	26.0	26.0
<b>New Jersey</b> .....	234.0	239.7	240.6	906.1	920.9	924.4	555.1	562.7	560.6
Atlantic City .....	7.6	7.6	7.5	71.9	73.8	75.7	25.6	25.1	25.3
Bergen-Passaic .....	39.1	40.5	40.9	154.8	160.5	160.9	69.4	70.5	70.7
Camden .....	24.6	25.6	25.9	104.4	107.2	108.1	72.0	73.9	73.9
Jersey City .....	13.2	13.5	13.6	42.9	43.7	43.4	41.3	42.6	41.6
Middlesex-Somerset-Hunterdon .....	36.8	38.6	38.7	109.4	114.2	114.6	72.3	74.5	74.5
Monmouth-Ocean .....	18.3	18.9	18.9	92.0	92.2	95.4	62.1	63.3	63.4
Newark .....	78.2	79.9	79.9	249.9	254.5	254.5	136.7	141.3	140.4
Trenton .....	9.7	10.0	10.0	58.2	58.0	58.6	55.9	56.1	55.6
Vineland-Millville-Bridgeton .....	3.4	3.5	3.5	10.4	10.7	10.8	11.8	11.9	11.9

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		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>New Mexico</b> .....	539.5	550.7	553.3	15.3	15.3	15.2	30.7	29.2	29.9
Albuquerque .....	235.3	239.6	240.3	.2	.1	.1	14.9	14.6	14.9
Las Cruces .....	41.0	42.1	42.3	.1	.1	.1	2.2	2.3	2.3
Santa Fe .....	54.6	55.2	55.8	.1	.1	.1	2.6	2.4	2.5
<b>New York</b> .....	8,178.0	8,233.1	8,279.5	6.1	6.0	6.2	340.1	332.8	348.3
Albany-Schenectady-Troy .....	413.4	420.3	423.9	.5	.5	.6	20.7	19.7	21.4
Binghamton .....	123.4	123.3	123.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.7	5.5	5.8
Buffalo .....	446.4	445.7	452.4	.3	.2	.2	17.3	15.7	17.1
Elmira .....	39.7	41.3	41.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.8
Nassau-Suffolk .....	1,145.4	1,149.2	1,155.9	.2	.2	.2	61.3	60.1	61.4
New York PMSA .....	4,128.9	4,138.8	4,144.3	1.1	1.0	1.0	152.9	152.3	154.6
New York City .....	3,597.7	3,609.7	3,612.0	.8	.5	.5	119.9	120.5	122.1
Niagara Falls .....	82.6	82.2	84.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.1	3.5
Orange County .....	105.2	106.3	107.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.6	5.6	5.8
Poughkeepsie .....	120.5	121.8	121.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.0	7.0	7.1
Rochester .....	477.4	486.7	490.8	.8	.7	.7	18.7	18.4	19.8
Rockland County .....	100.3	100.8	101.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.9	4.7	4.9
Syracuse .....	303.8	308.4	308.9	.2	.2	.2	15.0	14.5	15.2
Utica-Rome .....	124.8	126.9	127.8	.2	.2	.2	4.2	3.5	4.1
Westchester County .....	412.4	410.0	412.3	.2	.2	.2	26.5	25.6	26.0
<b>North Carolina</b> .....	2,965.8	3,012.6	3,019.6	4.8	5.0	5.0	165.7	157.8	160.9
Asheville .....	80.7	81.8	83.2	.1	.1	.1	4.4	4.4	4.6
Charlotte-Gastonia-Rock Hill .....	593.7	604.4	606.7	.4	.4	.4	36.7	36.2	37.0
Greensboro-Winston-Salem-High Point .....	483.0	483.8	483.7	.3	.3	.3	25.0	23.3	23.8
Raleigh-Durham .....	391.6	402.4	400.0	.3	.3	.3	22.3	20.9	21.3
<b>North Dakota</b> .....	259.3	257.3	280.8	4.3	3.7	3.9	10.8	8.2	10.1
Bismarck .....	37.6	38.6	38.8	.2	.2	.2	1.7	1.2	1.5
Fargo-Moorhead .....	73.2	74.7	75.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	3.0	3.5
Grand Forks .....	30.5	30.8	31.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.1	1.3
<b>Ohio</b> .....	4,692.3	4,761.0	4,816.2	19.2	19.0	19.2	182.8	184.7	196.7
Akron .....	273.8	279.0	282.1	.6	.6	.6	9.7	9.6	10.4
Canton .....	159.7	162.7	168.8	.9	.9	.9	6.1	6.2	6.9
Cincinnati .....	700.1	722.3	730.5	.4	.5	.5	31.1	33.0	34.5
Cleveland .....	902.7	917.2	926.8	.9	1.0	1.0	27.6	26.5	28.3
Columbus .....	677.6	695.8	703.1	.9	.9	.9	28.2	29.4	31.2
Dayton-Springfield .....	436.3	447.4	450.0	.4	.4	.4	17.6	18.5	19.8
Toledo .....	285.0	292.4	295.2	.3	.3	.3	10.4	11.3	12.1
Youngstown-Warren .....	195.6	197.0	200.2	.7	.7	.7	7.7	7.6	8.5
<b>Oklahoma</b> .....	1,136.1	1,139.9	1,147.7	44.5	44.1	43.8	35.2	34.1	34.2
Enid .....	21.8	21.2	20.9	1.2	1.1	1.0	.8	.7	.7
Lawton .....	34.2	34.0	34.4	.3	.3	.3	1.2	1.1	1.1
Oklahoma City .....	410.6	406.7	407.3	12.0	10.4	10.1	12.7	10.8	10.9
Tulsa .....	296.5	299.3	300.5	14.0	14.5	14.5	9.9	8.6	8.5
<b>Oregon</b> .....	1,146.6	1,179.9	1,192.5	1.3	1.4	1.5	39.2	41.7	43.5
Eugene-Springfield .....	110.0	113.1	114.0	.2	.2	.2	3.3	3.7	3.9
Portland .....	577.3	593.8	600.1	.4	.4	.5	20.6	22.2	23.1
Salem .....	99.7	101.4	102.5	.1	.1	.1	3.5	3.7	3.8
<b>Pennsylvania</b> .....	5,048.6	5,095.3	5,109.8	29.2	27.8	28.0	231.1	231.4	237.3
Allentown-Bethlehem .....	279.4	282.1	284.9	.6	.6	.6	13.9	14.0	14.2
Altoona .....	51.5	51.6	52.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.3	2.1	2.3
Beaver County .....	49.7	48.8	49.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.1	1.4	1.4
Erie .....	113.9	115.8	116.8	.2	.2	.2	3.4	3.1	3.5
Harrisburg-Lebanon-Carlisle .....	300.6	303.2	306.2	.3	.3	.3	13.3	12.9	13.3
Johnstown .....	79.5	79.8	80.7	3.1	3.1	3.1	2.8	2.6	2.8
Lancaster .....	185.2	188.7	189.9	.4	.4	.4	11.3	11.7	11.9
Philadelphia PMSA .....	2,173.1	2,187.5	2,186.2	1.1	1.0	1.0	105.4	105.1	107.4
Philadelphia City .....	778.1	784.8	780.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	17.4	17.6	17.5
Pittsburgh .....	872.4	882.4	886.1	4.6	4.5	4.4	40.0	37.1	38.6

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>New Mexico</b> .....	39.2	40.4	40.7	29.2	28.7	28.6	129.3	132.2	134.1
Albuquerque .....	20.3	20.6	20.5	12.7	12.7	12.7	59.9	60.9	61.7
Las Cruces .....	3.7	3.6	3.6	1.5	1.4	1.4	8.8	9.1	9.2
Santa Fe .....	1.6	1.8	1.6	1.2	1.0	1.1	10.6	10.9	11.1
<b>New York</b> .....	1,207.7	1,190.7	1,192.0	409.9	409.5	412.1	1,710.9	1,715.1	1,730.8
Albany-Schenectady-Troy .....	47.1	47.3	47.6	16.3	16.5	16.7	87.9	91.4	92.1
Binghamton .....	38.4	37.0	36.5	4.3	4.3	4.3	26.0	26.7	26.9
Buffalo .....	77.0	77.2	77.3	21.7	21.1	21.3	111.0	110.2	113.7
Elmira .....	8.5	9.1	9.2	1.4	1.4	1.4	10.5	10.6	10.8
Nassau-Suffolk .....	170.6	164.8	164.2	49.1	49.2	49.4	304.9	306.6	309.4
New York PMSA .....	449.4	436.2	438.9	242.6	240.3	240.9	755.1	755.8	758.8
New York City .....	387.2	357.2	357.7	217.2	214.5	215.0	631.0	631.8	634.1
Niagara Falls .....	24.0	23.6	23.7	3.9	3.8	4.0	19.1	19.1	19.4
Orange County .....	15.5	15.1	15.3	5.9	6.1	6.2	27.9	28.7	29.1
Poughkeepsie .....	30.3	30.0	30.0	3.4	3.8	3.8	22.2	22.3	22.4
Rochester .....	134.5	137.9	137.9	14.4	14.7	14.8	101.8	102.3	103.5
Rockland County .....	15.4	15.4	15.4	4.5	4.4	4.4	23.4	23.7	24.0
Syracuse .....	53.2	53.7	54.1	18.5	18.5	18.6	71.7	73.2	73.7
Utica-Rome .....	24.6	25.3	25.0	4.3	4.2	4.3	27.0	27.1	27.2
Westchester County .....	65.1	61.7	62.0	20.2	20.7	20.8	96.2	95.6	96.3
<b>North Carolina</b> .....	863.7	867.0	866.1	146.5	148.5	149.1	876.5	886.7	891.9
Asheville .....	18.7	18.8	19.1	3.8	3.8	3.9	19.8	19.7	20.0
Charlotte-Gastonia-Rock Hill .....	155.7	155.2	155.2	48.5	48.9	47.1	144.9	148.9	150.1
Greensboro-Winston-Salem-High Point .....	154.5	151.8	150.4	27.3	28.8	28.7	109.8	110.1	110.8
Raleigh-Durham .....	58.4	61.7	61.5	17.8	17.2	17.2	84.2	84.5	84.3
<b>North Dakota</b> .....	16.1	16.0	16.1	18.7	17.1	17.1	69.0	68.6	69.3
Bismarck .....	2.1	2.1	2.2	2.7	2.7	2.7	9.9	10.3	10.3
Fargo-Moorhead .....	4.9	4.9	5.1	4.5	4.7	4.8	21.4	21.8	22.1
Grand Forks .....	1.8	1.7	1.7	1.8	1.6	1.6	6.5	6.8	6.8
<b>Ohio</b> .....	1,100.5	1,107.1	1,107.9	211.5	212.8	214.5	1,126.7	1,149.5	1,165.5
Akron .....	65.8	66.1	66.0	12.8	13.0	13.1	67.1	69.8	70.7
Canton .....	44.8	45.5	45.8	5.7	5.9	6.0	39.5	40.7	41.3
Cincinnati .....	143.7	145.8	148.4	37.6	40.0	40.4	178.0	185.8	187.6
Cleveland .....	200.8	204.9	204.9	41.2	41.2	41.4	219.5	222.8	225.5
Columbus .....	101.8	102.9	102.9	29.4	30.5	30.6	172.1	177.8	179.8
Dayton-Springfield .....	104.6	104.8	104.7	16.7	17.2	17.4	99.1	100.8	102.2
Toledo .....	62.1	61.3	61.4	13.1	13.0	13.1	70.2	72.4	73.4
Youngstown-Warren .....	50.7	50.1	50.1	7.5	7.8	7.8	49.7	51.0	51.9
<b>Oklahoma</b> .....	162.2	163.2	163.9	82.0	82.0	82.6	273.9	275.2	280.2
Enid .....	1.6	1.5	1.5	2.2	2.0	2.0	6.4	6.1	6.1
Lawton .....	3.4	3.7	3.7	1.3	1.3	1.3	8.5	8.3	8.5
Oklahoma City .....	48.6	49.3	49.4	19.3	19.7	20.0	101.4	100.8	101.6
Tulsa .....	49.4	49.3	49.3	23.3	24.0	24.2	71.2	70.2	71.0
<b>Oregon</b> .....	211.4	209.6	210.9	59.8	62.8	62.7	285.7	299.0	303.4
Eugene-Springfield .....	20.9	20.6	20.6	4.2	4.4	4.4	27.2	27.9	28.2
Portland .....	98.3	98.9	99.4	35.3	36.3	36.4	150.0	155.6	157.8
Salem .....	13.5	13.5	13.7	2.9	3.0	3.0	22.5	22.9	23.1
<b>Pennsylvania</b> .....	1,054.4	1,054.0	1,053.7	254.1	253.8	254.0	1,153.1	1,151.3	1,158.4
Allentown-Bethlehem .....	77.5	77.5	77.0	14.4	14.0	14.0	81.0	81.2	82.2
Altoona .....	11.2	10.8	10.9	4.5	4.6	4.6	13.2	13.5	13.6
Beaver County .....	9.6	9.3	9.3	5.0	4.8	4.9	11.4	11.4	11.4
Erie .....	35.0	35.5	35.7	3.7	3.5	3.5	25.1	28.1	26.5
Harrisburg-Lebanon-Carlisle .....	51.3	51.2	51.4	18.8	18.6	18.8	67.7	67.9	68.4
Johnstown .....	13.5	13.7	13.8	5.2	5.3	5.3	16.9	17.3	17.6
Lancaster .....	60.0	59.4	59.3	7.4	7.5	7.6	44.0	45.2	45.6
Philadelphia PMSA .....	368.5	364.1	363.6	101.0	101.8	99.7	502.0	508.4	507.1
Philadelphia City .....	93.8	92.1	91.5	44.1	42.8	40.8	151.6	156.0	156.3
Pittsburgh .....	124.7	126.2	126.6	48.6	47.7	48.1	220.5	223.5	226.5

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	Finance, insurance, and real estate			Services			Government		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>New Mexico</b> .....	27.0	27.5	27.5	127.3	131.2	132.0	141.5	148.2	145.3
Albuquerque .....	14.9	15.2	15.3	65.9	87.1	87.1	46.5	48.4	48.0
Las Cruces .....	1.7	1.7	1.8	6.3	6.7	6.7	18.7	17.2	17.2
Santa Fe .....	2.0	1.9	1.9	14.4	14.6	15.0	22.1	22.7	22.5
<b>New York</b> .....	793.4	794.9	795.1	2,257.9	2,317.9	2,326.6	1,451.9	1,466.3	1,468.4
Albany-Schenectady-Troy .....	23.9	24.8	25.1	103.5	105.9	106.3	113.5	114.2	114.1
Binghamton .....	4.3	4.4	4.4	23.1	23.7	23.8	21.6	21.6	21.8
Buffalo .....	28.0	28.8	28.9	115.6	117.5	118.4	75.4	75.0	75.3
Elmira .....	1.4	1.4	1.4	9.8	10.1	10.2	8.6	7.0	7.1
Nassau-Suffolk .....	77.6	79.3	79.1	295.5	301.0	304.6	186.1	188.1	187.5
New York PMSA .....	575.7	568.5	568.2	1,288.7	1,295.8	1,295.2	683.5	689.0	688.6
New York City .....	541.3	533.3	532.8	1,120.2	1,145.2	1,143.8	600.3	606.7	606.0
Niagara Falls .....	2.0	2.0	2.1	17.4	17.5	18.2	12.8	12.8	13.3
Orange County .....	4.6	4.8	4.7	22.4	22.4	22.7	23.2	23.7	23.6
Poughkeepsie .....	4.8	5.2	5.2	28.0	28.8	28.5	24.8	24.7	24.6
Rochester .....	22.5	22.8	22.9	117.1	121.5	122.0	67.5	68.4	69.1
Rockland County .....	5.2	5.3	5.4	25.2	25.9	26.0	21.7	21.2	21.3
Syracuse .....	20.1	20.2	20.3	72.7	75.4	74.1	52.3	52.8	52.5
Utica-Rome .....	7.1	7.4	7.5	27.0	28.5	28.6	30.4	30.7	30.9
Westchester County .....	28.5	29.2	29.3	118.3	119.7	120.3	57.4	57.2	57.4
<b>North Carolina</b> .....	129.3	131.3	131.8	520.2	543.9	548.3	459.1	472.4	468.7
Asheville .....	2.7	2.6	2.6	19.3	20.2	20.5	12.1	12.2	12.4
Charlotte-Gastonia-Rock Hill .....	37.4	37.4	37.5	106.6	112.5	113.1	63.5	66.9	66.3
Greensboro-Winston-Salem-High Point .....	24.0	24.6	24.8	89.5	90.8	91.2	52.6	56.3	55.7
Raleigh-Durham .....	23.2	23.3	23.2	97.8	102.1	102.4	87.8	92.4	89.8
<b>North Dakota</b> .....	12.4	12.1	12.1	63.7	65.1	65.1	66.3	66.5	67.1
Bismarck .....	1.6	1.5	1.5	10.7	11.7	11.6	8.7	8.9	8.8
Fargo-Moorhead .....	4.4	4.4	4.5	20.2	21.2	21.1	14.5	14.7	14.7
Grand Forks .....	1.1	1.1	1.1	8.8	6.9	6.9	9.4	9.6	9.7
<b>Ohio</b> .....	249.0	253.1	254.6	1,092.8	1,125.5	1,139.2	709.9	709.3	718.7
Akron .....	10.7	10.7	10.8	62.1	63.4	64.3	45.0	45.8	48.2
Canton .....	6.4	6.3	6.3	37.1	38.0	38.4	19.5	19.2	21.1
Cincinnati .....	41.9	43.0	43.3	177.9	183.0	186.0	89.4	91.5	92.0
Cleveland .....	56.3	58.0	58.4	239.6	248.2	249.7	117.0	114.8	117.5
Columbus .....	57.9	59.0	59.3	182.2	168.3	170.8	125.1	127.0	127.8
Dayton-Springfield .....	18.0	18.2	18.2	105.3	111.3	110.7	74.5	78.2	76.5
Toledo .....	12.3	12.6	12.7	72.7	76.3	77.1	44.0	45.1	45.2
Youngstown-Warren .....	8.3	8.3	8.3	45.6	47.2	48.0	25.3	24.4	24.9
<b>Oklahoma</b> .....	59.0	57.9	58.2	247.9	249.5	250.3	251.4	253.9	254.5
Enid .....	1.0	1.0	1.0	5.1	5.3	5.2	3.5	3.5	3.4
Lawton .....	1.5	1.5	1.5	6.1	6.1	6.1	11.9	11.7	11.9
Oklahoma City .....	24.2	23.7	23.9	95.6	93.8	92.6	96.8	98.2	98.8
Tulsa .....	17.3	17.5	17.5	74.3	78.2	78.4	37.1	37.0	37.1
<b>Oregon</b> .....	73.3	74.8	75.3	257.7	272.3	274.5	218.2	218.3	220.7
Eugene-Springfield .....	5.1	5.4	5.4	25.1	26.6	26.8	24.0	24.3	24.5
Portland .....	48.4	49.3	49.9	143.2	148.8	149.9	81.1	82.3	83.1
Salem .....	5.7	5.8	5.9	20.6	21.2	21.4	30.9	31.2	31.5
<b>Pennsylvania</b> .....	292.4	295.5	297.4	1,329.3	1,372.3	1,375.1	705.0	709.2	705.9
Allentown-Bethlehem .....	12.7	12.7	12.7	68.8	71.5	73.1	30.5	30.6	31.1
Altoona .....	1.9	2.0	2.1	11.1	11.1	11.2	7.3	7.5	7.3
Beaver County .....	1.6	1.6	1.6	11.9	12.3	12.6	8.1	8.0	8.1
Erie .....	5.3	5.5	5.4	27.2	27.7	27.7	14.0	14.2	14.3
Harrisburg-Lebanon-Carlisle .....	18.2	20.0	20.1	64.3	65.5	67.0	66.7	66.8	66.9
Johnstown .....	4.7	4.5	4.5	20.4	20.3	20.4	12.9	13.0	13.2
Lancaster .....	7.1	7.4	7.4	39.0	41.0	41.4	16.0	16.1	16.3
Philadelphia PMSA .....	161.9	162.6	162.3	629.4	641.5	641.9	303.8	303.2	303.2
Philadelphia City .....	71.4	70.9	70.5	258.0	264.5	262.8	143.8	140.9	141.2
Pittsburgh .....	52.1	53.4	54.1	275.0	281.5	278.9	106.9	106.5	108.9

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	150.2	153.5	154.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.3	7.6
Scranton—Wilkes-Barre .....	299.3	302.2	303.4	0.7	0.6	0.6	14.1	14.1	14.8
Williamsport .....	51.1	51.8	52.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.2	2.3
York .....	176.3	179.4	180.3	.5	.5	.5	9.5	9.6	9.9
<b>Rhode Island</b> .....	457.6	458.6	461.4	.2	.2	.2	20.6	21.5	21.9
Pawtucket—Woonsocket—Attleboro .....	132.1	132.2	133.1	.2	.2	.2	6.1	6.5	6.6
Providence .....	321.7	325.9	327.4	.1	.1	.1	15.5	16.2	16.4
<b>South Carolina</b> .....	1,457.7	1,499.9	1,511.9	1.8	1.9	1.9	92.3	92.9	94.4
Charleston .....	193.8	196.1	198.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.4	13.1	13.5
Columbia .....	232.3	234.4	236.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.1	14.2	14.4
Greenville—Spartanburg .....	320.4	326.0	327.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.8	22.5	23.2
<b>South Dakota</b> .....	267.6	263.8	268.6	2.7	2.6	2.6	9.8	8.1	9.6
Rapid City .....	35.3	34.8	36.0	.3	.2	.2	2.0	1.6	1.9
Sioux Falls .....	68.2	68.7	69.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	2.6	2.8
<b>Tennessee</b> .....	2,074.2	2,078.6	2,086.2	6.9	6.7	6.7	96.0	90.3	92.6
Chattanooga .....	196.4	199.5	198.8	.7	.7	.7	8.5	8.3	8.3
Johnson City—Kingsport—Bristol .....	163.4	167.0	167.1	.4	.5	.5	7.1	7.1	7.2
Knoxville .....	260.8	258.6	260.6	1.7	1.7	1.7	12.4	11.7	11.7
Memphis .....	432.8	441.4	441.9	.1	.1	.1	18.3	18.5	18.8
Nashville .....	485.0	484.1	483.2	.8	.7	.7	27.7	26.5	27.5
<b>Texas</b> .....	6,649.5	6,754.7	6,771.7	185.2	176.7	175.8	330.7	310.8	313.3
Abilene .....	46.8	49.4	49.3	2.1	1.9	1.9	1.9	1.9	2.0
Amarillo .....	78.5	78.9	76.6	1.3	1.3	1.4	3.8	3.7	3.6
Austin .....	355.6	355.0	354.9	.7	.7	.7	14.3	13.0	13.1
Beaumont—Port Arthur .....	133.3	134.0	134.9	1.8	1.9	1.9	8.4	8.8	8.9
Brazoria .....	58.7	60.9	61.8	2.2	1.9	1.9	6.4	7.6	7.9
Brownsville—Harlingen .....	68.1	70.5	70.1	.1	.1	.1	2.0	2.2	2.2
Bryan—College Station .....	49.3	51.8	51.5	.6	.6	.6	1.8	2.0	1.9
Corpus Christi .....	125.8	126.0	126.4	4.0	4.4	4.3	8.3	8.4	8.9
Dallas .....	1,345.6	1,345.6	1,350.1	18.7	17.4	17.4	57.0	50.0	50.7
El Paso .....	194.6	195.7	196.6	.1	.1	.1	9.0	8.7	8.6
Ft. Worth—Arlington .....	527.4	535.9	537.5	3.7	4.1	4.0	22.9	22.6	22.5
Galveston—Texas City .....	72.6	72.2	72.5	.6	.5	.5	4.4	4.9	4.9
Houston .....	1,427.2	1,465.6	1,469.7	65.3	66.3	66.5	86.7	88.1	88.9
Killeen—Temple .....	70.5	72.4	72.7	.1	.1	.1	3.4	3.7	3.7
Laredo .....	37.7	39.4	39.5	1.9	1.9	1.9	1.2	1.2	1.2
Longview—Marshall .....	66.6	65.8	66.0	3.8	3.5	3.5	3.5	2.9	2.9
Lubbock .....	93.4	94.7	94.9	.4	.4	.4	3.2	2.9	2.9
McAllen—Edinburg—Mission .....	93.5	98.9	98.2	.9	.9	.9	4.0	4.2	4.2
Midland .....	44.6	44.2	44.1	10.2	9.6	9.6	1.3	1.4	1.4
Odessa .....	43.2	42.5	42.4	6.0	5.6	5.6	2.0	1.8	1.7
San Angelo .....	36.5	36.6	36.8	.5	.5	.5	1.6	1.3	1.4
San Antonio .....	500.9	510.8	513.9	2.4	2.0	2.0	25.2	22.6	22.6
Sherman—Denison .....	36.2	37.2	37.2	.1	.1	.1	1.7	1.7	1.7
Texarkana .....	44.7	45.4	45.7	.1	.1	.1	1.7	1.6	1.6
Tyler .....	80.9	61.0	61.0	2.0	1.9	1.9	2.1	2.0	2.0
Victoria .....	27.8	27.6	27.6	1.7	1.3	1.3	1.6	1.5	1.4
Waco .....	76.8	80.3	80.4	.1	.1	.1	3.5	3.5	3.5
Wichita Falls .....	50.9	50.4	50.6	2.1	1.8	1.8	2.1	2.1	2.0
<b>Utah</b> .....	657.7	676.0	683.3	8.6	7.6	7.7	25.2	23.6	25.4
Provo—Orem .....	77.8	65.7	84.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.7	3.0
Salt Lake City—Ogden .....	455.1	465.1	469.5	2.7	2.5	2.6	17.7	16.8	17.8
<b>Vermont</b> .....	250.9	253.4	254.1	.7	.5	.6	17.3	18.2	19.3
Barre—Montpelier .....	33.3	34.8	34.8	.2	.2	.2	2.0	1.8	1.8
Burlington .....	77.9	77.5	77.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.3	4.5

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		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	47.6	48.4	48.7	6.7	6.8	6.8	33.1	33.9	34.3
Scranton—Wilkes—Barre .....	71.9	72.1	71.9	16.3	16.3	16.5	67.8	67.9	68.4
Williamsport .....	16.7	16.0	16.2	1.8	2.0	2.0	11.3	11.6	11.6
York .....	60.8	61.9	62.0	7.9	7.9	7.9	42.4	42.6	42.7
<b>Rhode Island</b>									
Pawtucket—Woonsocket—Attleboro .....	114.3	113.3	113.3	16.2	15.9	16.3	103.4	103.3	104.1
Providence .....	51.0	49.3	49.5	3.5	3.8	3.8	33.2	32.6	33.1
Providence .....	71.6	70.8	70.6	12.6	12.4	12.7	70.1	70.4	71.0
<b>South Carolina</b>									
Charleston .....	383.5	382.6	383.6	62.0	64.6	65.1	328.7	342.6	347.6
Columbia .....	21.0	21.5	21.6	10.8	11.9	12.2	46.6	45.0	45.8
Columbia .....	29.2	30.1	30.3	10.3	10.4	10.5	51.1	50.3	50.9
Greenville—Spartanburg .....	102.5	102.3	102.4	12.0	12.6	12.6	73.8	75.6	76.0
<b>South Dakota</b>									
Rapid City .....	30.9	29.9	30.3	13.6	13.7	13.6	69.5	69.1	70.3
Rapid City .....	3.1	3.3	3.2	2.0	1.9	2.0	10.3	10.3	10.7
Sioux Falls .....	8.4	8.0	8.1	5.2	5.3	5.3	18.5	18.7	19.0
<b>Tennessee</b>									
Chattanooga .....	508.2	510.1	510.2	106.4	109.9	109.6	489.4	489.3	491.0
Johnson City—Kingsport—Bristol .....	47.2	47.9	47.6	9.1	9.3	9.1	45.6	45.6	45.5
Knoxville .....	52.4	54.5	54.5	6.2	8.3	6.3	38.6	36.4	36.7
Knoxville .....	53.0	52.1	52.3	10.3	10.2	10.2	65.3	65.6	66.3
Memphis .....	55.3	54.8	54.5	40.4	41.5	41.6	117.0	119.0	119.7
Nashville .....	89.3	90.5	90.9	24.4	24.2	24.2	116.9	116.8	115.9
<b>Texas</b>									
Abilene .....	957.1	964.0	967.6	388.2	397.5	398.3	1,651.1	1,655.2	1,660.1
Amarillo .....	4.8	4.9	5.0	2.4	2.3	2.3	13.4	13.6	13.5
Amarillo .....	10.0	9.1	9.0	5.6	5.5	5.5	22.3	22.5	22.3
Austin .....	40.5	40.9	41.1	10.6	10.4	10.4	77.1	75.7	75.8
Beaumont—Port Arthur .....	25.8	25.4	25.6	9.4	9.7	9.6	32.5	32.4	32.9
Brazoria .....	15.4	15.8	18.0	2.7	2.6	2.7	10.9	11.1	11.2
Brownsville—Harlingen .....	9.9	10.1	10.1	3.1	3.0	3.0	17.8	18.4	18.4
Bryan—College Station .....	3.3	3.3	3.5	1.6	1.5	1.5	10.8	10.8	10.7
Corpus Christi .....	11.4	11.6	11.5	6.5	6.4	6.4	31.3	31.2	31.2
Dallas .....	223.4	221.5	221.5	90.6	93.7	94.3	344.3	348.3	347.1
El Paso .....	40.8	39.6	40.0	10.7	10.7	10.7	46.0	47.3	47.8
Ft. Worth—Arlington .....	119.5	120.9	121.1	30.1	31.2	31.7	136.9	137.7	138.4
Galveston—Texas City .....	8.1	8.5	8.5	4.6	4.7	4.7	14.4	14.3	14.4
Houston .....	153.8	157.3	157.4	99.8	100.1	100.4	353.9	362.7	365.0
Killeen—Temple .....	7.9	8.5	8.6	2.7	2.7	2.7	16.4	16.4	18.4
Laredo .....	1.7	1.6	1.9	4.8	5.2	5.2	11.0	11.7	11.8
Longview—Marshall .....	16.1	15.5	15.6	3.0	3.1	3.1	16.9	17.1	17.2
Lubbock .....	7.1	7.5	7.7	4.7	4.9	4.8	28.1	27.8	27.9
McAllen—Edinburg—Mission .....	12.5	14.0	13.9	2.9	3.1	3.2	29.1	30.9	30.1
Midland .....	2.8	2.5	2.4	2.3	2.3	2.3	9.8	9.8	9.9
Odessa .....	4.1	4.0	4.0	2.1	2.1	2.1	12.5	12.6	12.6
San Angelo .....	5.5	5.5	5.5	3.2	2.9	2.9	9.0	9.2	9.3
San Antonio .....	48.0	47.6	48.2	18.0	18.9	19.1	125.8	128.2	129.1
Sherman—Denison .....	11.5	11.0	11.1	2.0	1.9	1.9	7.9	7.9	7.8
Texarkana .....	7.1	7.4	7.4	1.8	1.9	1.9	10.5	10.6	10.7
Tyler .....	10.5	10.7	10.7	2.6	2.5	2.5	16.1	16.0	16.1
Victoria .....	3.1	3.0	3.1	1.4	1.4	1.4	7.5	7.6	7.8
Waco .....	14.6	15.0	15.3	3.3	3.4	3.4	18.6	18.8	18.9
Wichita Falls .....	6.2	6.0	6.2	2.6	2.5	2.5	11.9	12.1	12.1
<b>Utah</b>									
Provo—Orem .....	98.2	100.7	102.0	38.9	39.3	39.7	153.6	160.2	162.2
Salt Lake City—Ogden .....	13.3	14.3	14.4	2.9	2.7	2.6	16.2	17.5	18.0
Salt Lake City—Ogden .....	63.6	65.9	66.0	29.7	30.5	30.6	111.1	115.1	116.4
<b>Vermont</b>									
Barre—Montpelier .....	49.7	49.1	48.9	10.3	10.4	10.5	58.8	59.9	59.9
Burlington .....	4.7	5.0	5.0	.9	.9	.9	7.2	7.5	7.6
Burlington .....	16.9	16.2	16.1	3.2	3.4	3.4	18.7	16.5	16.6

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	Finance, insurance, and real estate			Services			Government		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	8.1	8.5	8.8	30.2	31.1	31.2	17.3	17.5	17.4
Scranton-Wilkes-Barre .....	13.1	13.7	13.7	73.4	74.6	75.1	42.0	42.9	42.4
Williamsport .....	2.4	2.4	2.5	10.0	10.5	10.4	6.8	7.1	7.1
York .....	4.9	5.0	5.0	31.8	33.2	33.4	18.5	18.7	18.9
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	28.4	26.5	28.6	117.1	117.4	118.5	59.4	60.5	60.5
Providence .....	3.8	4.0	3.9	24.0	25.5	25.7	10.3	10.3	10.3
	22.0	23.0	23.1	86.1	88.0	88.5	43.7	45.0	45.0
<b>South Carolina</b>									
Charleston .....	65.1	67.4	67.8	259.2	272.7	275.9	265.1	275.2	275.8
Columbia .....	8.8	8.8	8.9	40.1	42.4	42.7	53.0	53.3	53.6
Greenville-Spartanburg .....	17.9	18.2	18.3	45.2	45.6	46.1	64.2	65.2	65.5
	11.9	11.9	11.9	56.4	57.6	58.0	40.7	43.2	43.1
<b>South Dakota</b>									
Rapid City .....	14.4	14.9	15.0	65.5	65.1	65.7	61.2	60.6	61.4
Sioux Falls .....	1.6	1.5	1.5	8.9	8.6	8.9	7.2	7.4	7.5
	6.4	6.7	6.7	19.5	19.7	19.9	7.5	7.7	7.7
<b>Tennessee</b>									
Chattanooga .....	103.7	105.4	106.1	432.1	438.7	442.3	329.7	328.4	327.7
Johnson City-Kingsport-Bristol .....	12.4	12.8	12.8	38.0	39.6	39.7	34.8	35.3	35.1
Knoxville .....	5.3	5.5	5.5	30.5	32.4	32.5	24.9	24.3	23.9
Memphis .....	9.9	10.1	10.1	57.0	58.1	59.1	51.3	49.1	49.2
Nashville .....	24.7	25.5	25.8	106.0	108.7	109.0	70.8	73.3	72.7
	34.5	34.4	34.4	121.6	120.8	119.5	67.8	70.2	70.1
<b>Texas</b>									
Abilene .....	439.4	439.4	440.3	1,514.0	1,562.7	1,587.7	1,183.8	1,228.4	1,228.6
Amarillo .....	2.4	2.5	2.5	13.1	13.3	13.0	8.7	9.0	9.1
Austin .....	4.4	4.1	4.1	16.7	17.0	17.1	14.4	13.7	13.6
Beaumont-Port Arthur .....	24.5	23.9	23.9	84.5	86.2	86.5	103.4	104.2	103.4
Brazoria .....	5.3	5.1	5.1	29.7	30.1	30.3	20.4	20.6	20.6
Brownsville-Harlingen .....	2.0	1.9	1.9	8.1	8.5	8.6	11.0	11.5	11.8
Bryan-College Station .....	3.7	3.6	3.6	14.8	16.2	15.8	16.8	17.0	17.0
Corpus Christi .....	1.6	1.7	1.7	8.9	9.6	9.3	20.7	22.3	22.3
Dallas .....	7.0	6.9	6.9	29.3	29.2	29.1	28.0	27.9	28.1
El Paso .....	130.2	126.0	126.6	329.6	337.2	338.8	151.6	153.5	153.7
Ft. Worth-Arlington .....	8.8	8.5	8.4	38.8	39.3	39.4	40.6	41.4	41.6
Galveston-Texas City .....	26.8	26.9	27.0	118.4	122.6	122.9	89.1	89.9	89.9
Houston .....	4.4	4.2	4.2	14.0	14.1	14.3	21.9	21.0	21.0
Killeen-Temple .....	100.7	99.7	99.9	379.1	394.0	395.6	187.9	197.4	196.0
Laredo .....	2.8	3.0	3.0	15.8	18.5	16.6	21.4	21.5	21.8
Longview-Marshall .....	1.7	1.4	1.4	6.2	6.4	6.3	9.2	9.8	9.8
Lubbock .....	2.7	2.7	2.7	12.0	12.4	12.4	8.6	8.6	8.6
McAllen-Edinburg-Mission .....	5.4	5.8	5.6	22.8	23.6	23.7	21.7	22.0	21.9
Midland .....	3.7	3.7	3.7	15.4	16.3	16.3	25.0	25.8	25.9
Odessa .....	2.3	2.2	2.2	9.6	9.8	9.7	6.5	6.6	6.6
San Angelo .....	1.7	1.7	1.7	7.0	7.2	7.2	7.8	7.5	7.5
San Antonio .....	1.8	1.8	1.8	8.0	8.1	8.1	6.9	7.3	7.3
Sherman-Denison .....	39.1	39.8	39.7	125.1	129.5	130.5	116.3	122.0	122.7
Texarkana .....	1.7	1.7	1.7	8.8	8.5	8.5	4.5	4.4	4.4
Tyler .....	1.8	1.9	1.9	9.4	9.6	9.6	12.3	12.3	12.5
Victoria .....	3.4	3.4	3.3	14.7	14.9	14.9	9.5	9.6	9.6
Waco .....	1.6	1.8	1.6	6.0	6.2	6.1	4.9	5.0	5.1
Wichita Falls .....	5.0	4.8	4.8	21.0	21.7	21.5	12.7	13.0	12.9
	2.3	2.3	2.3	11.9	11.8	11.9	9.8	9.8	9.8
<b>Utah</b>									
Provo-Orem .....	33.3	33.2	33.3	152.8	164.4	162.4	147.1	149.0	150.6
Salt Lake City-Ogden .....	2.3	2.2	2.3	26.2	32.3	29.5	14.2	14.0	14.4
	27.2	26.8	26.9	106.7	110.6	111.5	98.2	96.9	97.7
<b>Vermont</b>									
Barre-Montpelier .....	12.4	13.0	13.1	59.5	59.9	59.4	42.2	42.4	42.4
Burlington .....	3.0	3.1	3.1	7.1	7.9	7.9	8.2	8.4	8.3
	3.6	3.6	3.6	18.9	18.8	18.6	12.3	12.6	12.4

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	Total			Mining			Construction		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Virginia</b> .....	2,773.5	2,862.3	2,885.0	15.9	14.0	14.2	195.1	203.9	209.1
Bristol .....	32.3	33.2	33.2	.1	.1	.1	.9	.9	.9
Charlottesville .....	66.7	67.9	68.4	.1	.1	.1	3.9	3.8	3.8
Danville .....	41.3	42.5	42.7	.1	.1	.1	2.2	2.4	2.6
Lynchburg .....	71.9	73.1	73.7	.1	.1	.1	3.7	3.4	3.5
Norfolk-Virginia Beach-Newport News .....	567.6	586.1	573.8	.1	.2	.2	38.4	37.9	39.4
Northern Virginia .....	740.2	776.3	784.2	.5	.5	.6	60.1	66.0	67.0
Richmond-Petersburg .....	450.3	464.7	466.2	.9	1.1	1.1	30.3	31.8	32.4
Roanoke .....	122.4	123.6	124.4	.1	.1	.1	7.8	8.0	8.2
<b>Washington</b> .....	1,934.1	2,011.3	2,033.3	3.3	3.4	3.5	94.7	99.4	103.8
Seattle .....	977.4	1,028.5	1,039.0	.6	.6	.6	50.2	51.0	52.6
<b>West Virginia</b> .....	621.3	610.6	618.0	34.0	33.6	33.7	26.1	25.4	28.1
Charleston .....	108.5	108.0	108.7	2.0	2.0	1.9	4.3	4.0	4.3
Huntington-Ashland .....	105.4	105.5	106.3	1.4	1.4	1.5	3.6	3.2	3.4
Parkersburg-Marietta .....	60.3	60.5	60.9	.6	.6	.6	3.0	2.5	2.8
Wheeling .....	60.9	59.0	60.1	2.4	2.6	2.6	2.0	1.8	2.0
<b>Wisconsin</b> .....	2,147.9	2,178.5	2,206.9	2.4	2.5	2.8	72.1	70.2	76.9
Appleton-Oshkosh-Neenah .....	150.0	153.0	154.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.9	7.0	7.4
Eau Claire .....	57.1	56.1	58.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.6	1.6
Green Bay .....	95.9	98.2	99.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.2	3.4
Janesville-Beloit .....	56.9	57.4	57.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.4
Kenosha .....	42.4	39.0	43.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.8
La Crosse .....	54.7	57.0	57.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.1	2.3
Madison .....	204.9	206.8	210.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	5.6	6.2
Milwaukee .....	714.7	730.2	735.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.2	22.4	23.2
Racine .....	72.6	74.2	75.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.9	2.0
Wausau .....	46.0	49.5	50.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.0	2.1
<b>Wyoming</b> .....	185.6	185.8	189.8	18.5	17.8	17.9	10.5	9.4	10.2
<b>Puerto Rico</b> .....	607.0	621.8	624.8	.8	.8	.8	40.4	42.2	42.8
Caguas .....	52.1	52.1	52.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	57.7	59.1	59.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	52.5	53.7	53.4	.1	.1	.1	3.8	4.0	3.8
San Juan .....	497.8	507.4	508.3	.5	.4	.4	29.6	29.9	30.9
<b>Virgin Islands</b> .....	41.4	41.7	41.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.1	2.1

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Virginia</b> .....	425.7	425.2	424.9	143.9	146.0	146.5	828.4	648.3	655.4
Bristol .....	11.1	11.0	10.9	1.1	1.1	1.1	8.1	8.7	8.7
Charlottesville .....	8.7	8.8	8.6	2.3	2.3	2.3	13.1	13.7	13.9
Danville .....	16.4	16.6	16.7	1.0	.9	.9	9.0	9.6	9.7
Lynchburg .....	22.8	22.6	22.7	2.7	2.5	2.4	16.1	16.9	17.1
Norfolk-Virginia Beach-Newport News .....	68.5	67.1	67.3	26.3	26.0	26.2	140.3	139.4	141.6
Northern Virginia .....	35.5	34.1	34.0	51.5	56.6	57.2	163.4	166.4	167.7
Richmond-Petersburg .....	62.3	62.1	61.7	23.8	23.5	23.5	106.5	111.0	112.3
Roanoke .....	19.7	19.5	19.6	8.5	8.3	8.3	33.3	33.7	34.0
<b>Washington</b> .....	337.4	352.3	357.3	100.6	104.1	104.7	470.3	490.3	496.8
Seattle .....	195.0	211.0	213.4	60.6	64.0	64.4	235.1	245.5	249.1
<b>West Virginia</b> .....	86.7	88.5	86.9	36.8	37.1	37.4	142.6	143.6	145.4
Charleston .....	10.7	11.2	11.2	8.5	8.9	9.1	28.3	28.3	28.7
Huntington-Ashland .....	19.4	20.1	20.3	7.9	7.8	7.9	27.0	27.1	27.3
Parkersburg-Marietta .....	13.6	14.0	14.0	2.1	2.2	2.2	14.2	14.4	14.4
Wheeling .....	7.2	7.3	7.4	3.3	3.4	3.4	16.6	16.1	16.3
<b>Wisconsin</b> .....	542.9	549.8	553.5	97.9	99.5	100.5	505.0	507.7	517.7
Appleton-Oshkosh-Neenah .....	51.8	52.7	52.5	5.4	5.7	5.8	31.9	32.2	32.8
Eau Claire .....	11.3	11.6	11.8	3.0	3.1	3.3	15.7	15.4	15.5
Green Bay .....	24.2	25.4	25.4	7.4	7.4	7.6	24.5	24.5	24.7
Janesville-Beloit .....	18.2	17.6	17.3	2.2	2.2	2.1	14.0	14.1	14.4
Kenosha .....	14.2	9.7	13.3	1.6	1.4	1.5	9.4	9.9	10.1
La Crosse .....	11.2	10.8	10.7	2.3	2.3	2.3	15.3	16.3	16.7
Madison .....	23.8	24.9	24.9	7.1	7.2	7.3	45.7	46.8	47.2
Milwaukee .....	172.2	176.3	176.5	35.1	35.4	35.7	162.2	165.3	167.4
Racine .....	25.6	26.3	26.3	2.3	2.2	2.3	16.3	16.2	16.7
Wausau .....	13.4	13.7	14.1	2.8	2.8	2.9	11.9	12.3	12.7
<b>Wyoming</b> .....	8.7	8.9	9.1	13.3	13.7	13.7	40.9	41.4	42.1
<b>Puerto Rico</b> .....	155.0	160.2	159.5	18.2	17.2	17.0	146.0	145.5	150.0
Caguas .....	16.4	16.5	16.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.9	10.8	11.3
Mayaguez .....	20.8	21.4	21.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9	7.5	7.9
Ponce .....	9.8	10.2	10.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	8.9	9.2
San Juan .....	64.8	67.4	67.0	14.6	14.1	13.9	100.8	100.4	102.5
<b>Virgin Islands</b> .....	2.3	2.4	2.4	2.6	2.8	2.6	9.6	9.5	9.4

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Virginia</b> .....	149.7	153.9	154.5	667.2	706.3	714.0	547.6	564.7	566.4
Bristol .....	1.2	1.3	1.3	4.8	4.8	4.8	5.2	5.3	5.4
Charlottesville .....	3.3	3.3	3.3	12.9	13.2	13.3	22.4	22.9	23.1
Danville .....	1.3	1.3	1.3	6.1	6.2	6.1	5.2	5.4	5.3
Lynchburg .....	3.9	4.2	4.3	13.3	14.0	14.2	9.3	9.4	9.4
Norfolk-Virginia Beach-Newport News .....	26.9	26.6	26.7	136.6	138.3	141.4	130.5	130.6	131.0
Northern Virginia .....	48.3	50.7	51.1	238.9	256.3	258.7	142.0	145.7	147.9
Richmond-Petersburg .....	38.4	40.2	40.7	95.1	98.2	98.1	91.0	96.8	96.4
Roanoke .....	6.3	8.6	8.8	28.9	30.1	30.2	15.8	15.3	15.4
<b>Washington</b> .....	109.4	113.0	113.9	446.2	466.8	469.5	372.2	382.0	383.8
Seattle .....	69.8	71.8	72.2	229.9	244.0	245.1	136.2	140.6	141.6
<b>West Virginia</b> .....	24.2	24.1	24.2	130.7	133.4	135.2	140.2	126.9	127.1
Charleston .....	6.2	6.3	6.2	25.4	26.5	26.4	23.1	20.8	20.9
Huntington-Ashland .....	3.7	3.8	3.8	22.2	23.0	23.2	20.2	19.1	18.9
Parkersburg-Marietta .....	2.3	2.4	2.4	13.6	14.3	14.4	10.7	10.1	10.1
Wheeling .....	2.7	2.8	2.7	15.7	15.8	18.1	11.0	9.2	9.6
<b>Wisconsin</b> .....	114.9	117.7	118.5	479.4	489.7	494.0	333.3	341.4	343.0
Appleton-Oshkosh-Neenah .....	7.2	7.3	7.4	29.3	30.1	30.1	17.3	17.7	17.7
Eau Claire .....	1.8	1.8	1.9	12.6	13.2	13.3	11.1	11.4	11.5
Green Bay .....	3.2	3.4	3.5	22.1	22.9	22.9	11.3	11.4	11.4
Janesville-Beloit .....	1.6	1.7	1.8	12.4	13.0	12.8	7.1	7.4	7.5
Kenosha .....	1.1	1.2	1.2	8.5	8.8	8.8	6.3	6.5	6.5
La Crosse .....	1.5	1.6	1.8	14.9	15.9	16.0	7.7	8.0	8.3
Madison .....	18.1	18.5	18.5	45.8	46.9	47.1	57.4	58.7	59.1
Milwaukee .....	50.0	51.9	51.9	188.8	195.1	196.1	83.9	83.5	84.5
Racine .....	2.3	2.3	2.3	16.2	16.9	17.0	8.1	8.4	8.5
Wausau .....	3.5	3.6	3.7	8.4	8.7	8.8	6.2	6.4	6.4
<b>Wyoming</b> .....	7.2	7.3	7.2	32.5	32.1	33.2	54.0	55.2	56.4
<b>Puerto Rico</b> .....	36.2	35.9	36.0	120.4	124.1	123.8	290.0	295.8	295.0
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.9	16.1	16.1
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.1	19.2	19.2
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.9	10.0	10.2	17.0	17.2	16.6
San Juan .....	28.8	28.6	28.6	86.4	90.3	( <sup>1</sup> )	172.4	176.3	175.5
<b>Virgin Islands</b> .....	1.9	2.0	2.0	9.6	9.8	9.7	13.0	13.3	13.3

<sup>1</sup> Not available.  
<sup>2</sup> Combined with construction.  
<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 1988 benchmarks.

**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
Monthly data, not seasonally adjusted									
<b>1988:</b>									
June .....	34.9	\$9.23	\$322.13	42.5	\$12.61	\$535.93	38.7	\$12.89	\$498.84
July .....	35.1	9.24	324.32	42.4	12.72	539.33	38.6	12.96	500.26
August .....	35.0	9.24	323.40	42.0	12.69	532.98	38.6	12.99	501.41
September .....	34.8	9.40	327.12	42.2	12.82	541.00	38.4	13.16	505.34
October .....	34.9	9.45	329.81	42.6	12.79	544.85	39.1	13.17	514.95
November .....	34.7	9.46	328.26	41.9	12.89	540.09	37.8	13.08	494.42
December .....	34.9	9.46	330.15	42.8	13.03	557.68	37.3	13.19	491.99
<b>1989:</b>									
January .....	34.5	9.54	329.13	42.2	13.20	557.04	36.5	13.26	483.99
February .....	34.3	9.55	327.57	41.7	13.22	551.27	36.2	13.21	478.20
March .....	34.4	9.56	328.86	42.0	13.15	552.30	37.4	13.26	495.92
April .....	34.8	9.62	334.78	42.8	13.19	564.53	37.9	13.30	504.07
May <sup>p</sup> .....	34.5	9.59	330.86	42.1	13.14	553.19	37.7	13.29	501.03
June <sup>p</sup> .....	34.7	9.58	332.43	42.3	13.10	554.13	37.9	13.27	502.93

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
<b>Monthly data, not seasonally adjusted</b>										
<b>1988:</b>										
June .....	41.2	\$10.16	\$9.70	\$418.59	39.5	\$12.27	\$484.67	38.1	\$9.88	\$376.43
July .....	40.7	10.17	9.73	413.92	39.8	12.32	490.34	38.3	9.95	381.09
August .....	40.9	10.13	9.67	414.32	39.7	12.35	490.30	38.0	9.91	376.58
September .....	41.3	10.25	9.75	423.33	39.5	12.40	489.80	38.1	10.04	382.52
October .....	41.3	10.25	9.76	423.33	39.5	12.42	490.59	38.2	10.10	385.82
November .....	41.5	10.31	9.82	427.87	39.3	12.46	489.68	38.0	10.07	382.66
December .....	41.7	10.37	9.88	432.43	39.5	12.42	490.59	38.2	10.14	387.35
<b>1989:</b>										
January .....	41.0	10.37	9.91	425.17	39.3	12.47	490.07	37.9	10.23	387.72
February .....	40.8	10.38	9.92	423.50	39.1	12.50	488.75	37.8	10.23	386.69
March .....	41.0	10.41	9.94	426.81	39.2	12.46	488.43	37.9	10.21	386.96
April .....	41.0	10.41	9.95	426.81	39.8	12.51	497.90	38.2	10.36	395.75
May <sup>a</sup> .....	40.9	10.42	9.98	426.18	39.4	12.50	492.50	37.9	10.27	389.23
June <sup>b</sup> .....	41.0	10.44	9.98	428.04	39.8	12.48	496.70	38.1	10.28	391.67

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
<b>Annual averages</b>									
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
<b>Monthly data, not seasonally adjusted</b>									
<b>1988:</b>									
June .....	29.4	\$6.27	\$184.34	35.8	\$8.97	\$321.13	32.7	\$8.79	\$287.43
July .....	30.0	6.28	188.40	36.1	9.03	325.98	33.0	8.80	290.40
August .....	29.8	6.26	186.55	35.7	9.03	322.37	32.8	8.81	288.97
September .....	29.1	6.38	185.66	35.8	9.14	327.21	32.5	9.00	292.50
October .....	29.1	6.39	185.95	36.0	9.29	334.44	32.7	9.09	297.24
November .....	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.11	296.08
December .....	29.6	6.43	190.33	35.8	9.32	333.66	32.6	9.16	298.62
<b>1989:</b>									
January .....	28.4	6.48	184.03	36.1	9.46	341.51	32.6	9.25	301.55
February .....	28.3	6.47	183.10	35.8	9.47	339.03	32.4	9.28	300.67
March .....	28.5	6.48	184.68	35.8	9.43	337.59	32.4	9.29	301.00
April .....	28.9	6.52	188.43	36.3	9.59	348.12	32.8	9.34	306.35
May <sup>p</sup> .....	28.8	6.49	186.91	35.6	9.47	337.13	32.4	9.31	301.64
June <sup>p</sup> .....	29.2	6.49	189.51	35.8	9.44	337.95	32.6	9.25	301.55

<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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Total private</b> .....		34.6	34.9	34.8	34.5	34.7	-	-	-	-	-
<b>Mining</b> .....		42.2	42.5	42.8	42.1	42.3	-	-	-	-	-
Metal mining .....	10	42.1	42.3	42.6	42.2	-	-	-	-	-	-
Iron ores .....	101	40.2	41.5	43.8	42.9	-	-	-	-	-	-
Copper ores .....	102	43.7	43.1	44.2	44.3	-	-	-	-	-	-
Coal mining .....	11,12	41.5	42.0	43.2	42.7	-	-	-	-	-	-
Bituminous coal and lignite mining .....	12	41.5	42.1	43.3	42.7	-	-	-	-	-	-
Oil and gas extraction .....	13	41.2	41.4	41.7	40.6	-	-	-	-	-	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	40.2	41.4	42.7	41.0	-	-	-	-	-	-
Oil and gas field services .....	138	41.7	41.3	41.0	40.4	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	46.5	46.9	45.9	45.8	-	-	-	-	-	-
Crushed and broken stone .....	142	47.7	48.4	47.5	47.3	-	-	-	-	-	-
<b>Construction</b> .....		38.3	38.7	37.9	37.7	37.9	-	-	-	-	-
General building contractors .....	15	37.6	38.0	37.5	37.1	-	-	-	-	-	-
Residential building construction .....	152	36.7	37.1	36.5	36.2	-	-	-	-	-	-
Operative builders .....	153	39.1	38.5	38.3	38.0	-	-	-	-	-	-
Nonresidential building construction .....	154	38.5	39.0	38.5	38.2	-	-	-	-	-	-
Heavy construction contractors .....	16	42.6	43.3	41.4	41.2	-	-	-	-	-	-
Highway and street construction .....	161	44.0	45.3	41.2	41.7	-	-	-	-	-	-
Heavy construction, except highway .....	162	41.8	42.2	41.5	40.9	-	-	-	-	-	-
Special trade contractors .....	17	37.3	37.8	37.1	37.0	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	38.5	39.0	38.5	38.7	-	-	-	-	-	-
Painting, paper hanging, and decorating .....	172	36.1	36.8	36.0	35.6	-	-	-	-	-	-
Electrical work .....	173	38.7	38.8	38.6	38.8	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	35.4	35.6	35.2	34.8	-	-	-	-	-	-
Carpentering and flooring .....	175	35.8	35.6	34.7	34.7	-	-	-	-	-	-
Roofing and sheet metal work .....	176	34.2	35.6	34.2	32.7	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.0	41.2	41.0	40.9	41.0	3.7	3.9	3.8	3.6	3.8
<b>Durable goods</b> .....		41.7	42.0	41.7	41.5	41.6	4.0	4.1	3.9	3.8	3.9
Lumber and wood products .....	24	40.5	40.9	40.5	40.1	40.5	3.7	3.9	3.6	3.5	-
Logging camps and logging contractors .....	241	40.6	41.1	41.8	40.6	-	4.6	4.2	5.2	5.2	-
Sawmills and planing mills .....	242	41.5	41.7	41.6	41.7	-	4.4	4.4	4.2	4.2	-
Sawmills and planing mills, general .....	2421	41.9	42.1	42.0	42.0	-	4.7	4.6	4.5	4.4	-
Hardwood dimension and flooring .....	2426	39.7	40.1	40.0	40.3	-	3.2	3.5	3.2	3.1	-
Millwork, plywood, and structural members .....	243	40.0	40.6	40.2	39.6	-	3.3	3.7	3.3	3.0	-
Millwork .....	2431	40.5	40.9	39.4	38.8	-	2.8	3.3	2.3	2.1	-
Wood kitchen cabinets .....	2434	39.0	39.8	39.5	39.0	-	2.8	3.4	3.2	2.9	-
Hardwood veneer and plywood .....	2435	41.0	41.0	40.5	40.3	-	3.9	3.8	3.6	3.5	-
Softwood veneer and plywood .....	2436	40.8	41.6	44.1	42.4	-	4.7	5.1	6.0	4.9	-
Wood containers .....	244	39.4	39.4	38.8	38.8	-	3.6	3.6	3.5	3.5	-
Wood buildings and mobile homes .....	245	39.9	40.6	37.7	38.0	-	3.0	3.2	2.0	1.9	-
Mobile homes .....	2451	39.4	40.1	37.6	38.2	-	2.9	2.9	1.9	1.8	-
Miscellaneous wood products .....	249	40.3	40.5	39.9	39.6	-	3.1	3.3	3.0	2.7	-
Furniture and fixtures .....	25	39.1	39.4	39.3	39.0	39.4	2.4	2.6	2.4	2.3	-
Household furniture .....	251	38.6	39.0	38.9	38.7	-	2.2	2.3	2.2	2.1	-
Wood household furniture .....	2511	39.3	39.3	39.8	39.5	-	2.6	2.4	2.5	2.5	-
Upholstered household furniture .....	2512	36.8	37.9	37.5	37.1	-	1.3	1.8	1.6	1.4	-
Metal household furniture .....	2514	40.4	40.3	40.7	40.3	-	3.1	2.7	3.3	2.4	-
Mattresses and bedsprings .....	2515	39.5	40.6	38.5	38.7	-	3.1	3.5	2.1	2.4	-
Office furniture .....	252	40.0	39.9	39.7	39.0	-	2.3	2.4	2.4	2.0	-
Public building and related furniture .....	253	40.4	41.4	39.6	39.2	-	3.9	4.7	3.7	3.5	-
Partitions and fixtures .....	254	40.3	39.7	40.7	40.7	-	2.9	2.9	3.2	3.0	-
Miscellaneous furniture and fixtures .....	259	37.9	39.4	38.6	38.2	-	2.1	2.8	2.0	2.0	-
Stone, clay, and glass products .....	32	42.8	42.8	42.6	42.4	42.3	5.3	5.4	5.1	5.1	-
Flat glass .....	321	46.5	45.4	44.8	44.6	-	8.2	7.5	6.6	6.0	-
Glass and glassware, pressed or blown .....	322	41.7	41.0	42.3	41.8	-	4.4	4.4	4.6	4.5	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>
<b>Total private</b> .....		\$9.26	\$9.23	\$9.62	\$9.59	\$9.58	\$320.40	\$322.13	\$334.78	\$330.86	\$332.43
<b>Mining</b> .....		12.60	12.61	13.19	13.14	13.10	531.72	535.93	564.53	553.19	554.13
Metal mining .....	10	13.05	13.25	13.68	13.62	-	549.41	560.48	582.77	574.76	-
Iron ores .....	101	13.41	14.55	14.18	13.80	-	539.08	603.83	621.08	592.02	-
Copper ores .....	102	11.56	11.68	11.56	11.51	-	505.17	503.41	510.95	509.89	-
Coal mining .....	11,12	15.78	15.86	16.17	16.23	-	654.87	666.12	698.54	693.02	-
Bituminous coal and lignite mining .....	12	15.83	15.91	16.23	16.29	-	656.95	669.81	702.76	695.58	-
Oil and gas extraction .....	13	11.73	11.68	12.45	12.36	-	483.28	483.55	519.17	501.82	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	14.42	14.35	15.11	15.07	-	579.68	594.09	645.20	617.87	-
Oil and gas field services .....	138	10.19	10.09	10.78	10.73	-	424.92	416.72	441.98	433.49	-
Nonmetallic minerals, except fuels .....	14	10.87	10.91	11.15	11.14	-	505.46	511.68	511.79	510.21	-
Crushed and broken stone .....	142	10.33	10.40	10.64	10.69	-	492.74	503.36	505.40	505.64	-
<b>Construction</b> .....		12.91	12.89	13.30	13.29	13.27	494.45	498.84	504.07	501.03	502.93
General building contractors .....	15	12.13	12.03	12.54	12.53	-	456.09	457.14	470.25	464.86	-
Residential building construction .....	152	11.48	11.34	11.95	11.93	-	421.32	420.71	436.18	431.87	-
Operative builders .....	153	11.06	11.05	11.85	11.85	-	432.45	425.43	453.86	450.30	-
Nonresidential building construction .....	154	12.91	12.86	13.22	13.22	-	497.04	501.54	508.97	505.00	-
Heavy construction contractors .....	16	12.34	12.39	12.87	12.94	-	525.68	536.49	532.82	533.13	-
Highway and street construction .....	161	12.09	12.32	12.36	12.52	-	531.96	558.10	509.23	522.08	-
Heavy construction, except highway .....	162	12.47	12.43	13.08	13.14	-	521.25	524.55	542.82	537.43	-
Special trade contractors .....	17	13.43	13.43	13.73	13.71	-	500.94	507.65	509.38	507.27	-
Plumbing, heating, and air conditioning .....	171	13.75	13.72	14.21	14.22	-	529.38	535.08	547.09	550.31	-
Painting, paper hanging, and decorating .....	172	12.76	12.64	12.84	12.91	-	460.64	465.15	462.24	459.60	-
Electrical work .....	173	14.73	14.76	14.70	14.69	-	570.05	572.69	567.42	569.97	-
Masonry, stonework, and plastering .....	174	13.73	13.69	13.90	13.93	-	486.04	487.36	489.28	484.76	-
Carpentering and flooring .....	175	12.82	12.82	13.14	13.16	-	458.96	456.39	455.96	456.65	-
Roofing and sheet metal work .....	176	11.88	11.83	12.06	11.97	-	406.30	421.15	412.45	391.42	-
<b>Manufacturing</b> .....		10.14	10.16	10.41	10.42	10.44	415.74	418.59	426.81	426.18	428.04
<b>Durable goods</b> .....		10.68	10.70	10.93	10.94	10.97	445.36	449.40	455.78	454.01	456.35
Lumber and wood products .....	24	8.54	8.60	8.76	8.78	8.87	345.87	351.74	354.78	352.08	359.24
Logging camps and logging contractors .....	241	10.59	10.78	10.99	11.13	-	429.95	443.06	459.38	451.88	-
Sawmills and planing mills .....	242	8.71	8.73	8.98	8.93	-	361.47	364.04	373.57	372.38	-
Sawmills and planing mills, general .....	2421	9.04	9.07	9.32	9.25	-	378.78	381.85	391.44	388.50	-
Hardwood dimension and flooring .....	2426	7.00	7.03	7.30	7.33	-	277.90	281.90	292.00	295.40	-
Millwork, plywood, and structural members .....	243	8.58	8.61	8.73	8.71	-	343.20	349.57	350.95	344.92	-
Millwork .....	2431	8.84	8.79	8.88	8.91	-	358.02	359.51	349.87	345.71	-
Wood kitchen cabinets .....	2434	7.95	8.04	8.16	8.14	-	310.05	319.99	322.32	317.46	-
Hardwood veneer and plywood .....	2435	7.02	6.99	7.28	7.28	-	287.82	286.59	294.84	293.38	-
Softwood veneer and plywood .....	2436	10.12	10.20	10.24	10.13	-	412.90	424.32	451.58	429.51	-
Wood containers .....	244	6.39	6.34	6.51	6.51	-	251.77	249.80	252.59	252.59	-
Wood buildings and mobile homes .....	245	8.08	8.08	8.23	8.27	-	322.39	328.05	310.27	314.26	-
Mobile homes .....	2451	8.22	8.22	8.32	8.31	-	323.87	329.62	312.83	317.44	-
Miscellaneous wood products .....	249	7.37	7.41	7.59	7.62	-	297.01	300.11	302.84	301.75	-
Furniture and fixtures .....	25	7.89	7.93	8.12	8.15	8.21	308.50	312.44	319.12	317.85	323.47
Household furniture .....	251	7.25	7.30	7.48	7.52	-	279.85	284.70	290.97	291.02	-
Wood household furniture .....	2511	6.81	6.81	7.02	7.07	-	267.63	267.63	279.40	279.27	-
Upholstered household furniture .....	2512	7.90	7.91	8.23	8.23	-	290.72	299.79	308.63	305.33	-
Metal household furniture .....	2514	7.12	7.37	7.35	7.58	-	287.65	297.01	299.15	305.47	-
Mattresses and bedspreads .....	2515	7.74	7.76	7.81	7.88	-	305.73	315.06	300.69	304.96	-
Office furniture .....	252	8.91	8.98	9.10	9.17	-	356.40	358.30	361.27	357.63	-
Public building and related furniture .....	253	8.34	8.48	8.82	8.77	-	336.94	351.07	349.27	343.78	-
Partitions and fixtures .....	254	9.43	9.34	9.65	9.58	-	380.03	370.80	392.76	389.91	-
Miscellaneous furniture and fixtures .....	259	8.20	8.27	8.41	8.44	-	310.78	325.84	324.63	322.41	-
Stone, clay, and glass products .....	32	10.44	10.47	10.71	10.70	10.73	446.83	448.12	456.25	453.68	453.88
Flat glass .....	321	14.92	15.02	15.17	15.10	-	693.78	681.91	679.62	673.46	-
Glass and glassware, pressed or blown .....	322	11.66	11.69	12.03	12.05	-	486.22	479.29	508.87	503.69	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>
<b>Durable goods—Continued</b>											
<b>Stone, clay, and glass products—Continued</b>											
Glass containers .....	3221	42.1	40.8	42.6	42.2	-	5.5	5.3	5.5	5.3	-
Pressed and blown glass, nec .....	3229	41.2	41.2	41.9	41.4	-	3.2	3.3	3.7	3.7	-
Products of purchased glass .....	323	41.8	41.9	41.5	41.6	-	3.5	3.5	3.1	3.2	-
Cement, hydraulic .....	324	42.8	42.5	42.5	41.8	-	3.5	3.3	3.8	3.0	-
Structural clay products .....	325	42.0	42.1	41.9	41.4	-	4.2	4.4	3.9	3.7	-
Pottery and related products .....	326	39.8	40.1	40.9	40.4	-	3.1	2.9	3.3	3.1	-
Concrete, gypsum, and plaster products .....	327	44.3	44.7	43.6	43.5	-	7.1	7.4	6.7	6.8	-
Concrete block and brick .....	3271	45.7	46.6	44.4	43.9	-	7.6	8.1	6.6	6.8	-
Concrete products, nec .....	3272	43.5	43.4	43.5	43.4	-	6.2	6.3	6.2	6.2	-
Ready-mixed concrete .....	3273	44.2	44.7	42.7	42.9	-	7.5	8.0	6.8	7.2	-
Misc. nonmetallic mineral products .....	329	42.5	42.6	42.4	42.2	-	4.8	4.7	4.7	4.5	-
Abrasive products .....	3291	43.5	43.8	43.3	42.7	-	3.6	3.8	3.9	4.0	-
Asbestos products .....	3292	43.1	42.5	43.0	42.7	-	4.7	3.9	6.3	5.3	-
<b>Primary metal industries</b>											
Blast furnaces and basic steel products .....	33	43.6	43.7	43.2	43.1	43.1	5.4	5.6	5.3	5.2	-
Blast furnaces and steel mills .....	331	43.9	44.5	43.6	43.6	43.6	5.7	5.9	5.6	5.6	-
Steel pipe and tubes .....	3312	44.2	44.7	44.0	43.9	-	5.8	6.0	5.8	5.8	-
Iron and steel foundries .....	3317	43.0	43.9	41.6	41.8	-	5.8	5.9	4.3	4.2	-
Gray iron foundries .....	332	43.8	43.5	42.9	42.8	-	5.8	5.7	5.2	5.0	-
Malleable iron foundries .....	3321	44.2	43.9	43.1	42.9	-	6.3	6.1	5.5	5.2	-
Steel foundries, nec .....	3322	42.1	42.0	43.1	41.7	-	4.3	4.2	4.2	3.5	-
Primary nonferrous metals .....	3325	43.8	43.1	42.4	42.4	-	5.6	5.7	4.6	4.8	-
Primary aluminum .....	333	43.3	43.4	43.4	42.9	-	4.6	4.6	5.1	4.7	-
Nonferrous rolling and drawing .....	3334	43.8	43.8	43.5	43.2	-	4.7	4.8	5.3	4.9	-
Copper rolling and drawing .....	335	43.5	43.8	43.7	43.5	-	5.9	6.2	5.9	5.8	-
Aluminum sheet, plate, and foil .....	3351	42.8	43.7	43.0	43.4	-	5.3	6.7	4.8	4.9	-
Nonferrous wire drawing and insulating .....	3353	45.0	45.3	44.8	45.1	-	7.7	7.7	7.4	7.7	-
Nonferrous foundries .....	3357	43.6	43.4	42.8	42.8	-	5.6	5.7	5.3	5.2	-
Aluminum foundries .....	336	42.1	42.0	42.0	41.5	-	3.9	4.1	4.1	3.7	-
Aluminum foundries .....	3361	42.8	42.8	42.4	42.0	-	4.2	4.5	4.1	3.7	-
<b>Fabricated metal products</b>											
Metal cans and shipping containers .....	34	41.8	42.2	41.7	41.5	41.6	4.0	4.2	3.8	3.7	-
Metal cans .....	341	43.9	44.8	43.8	44.2	-	5.3	5.8	5.6	5.7	-
Cutlery, hand tools, and hardware .....	3411	44.0	45.1	44.1	44.2	-	5.3	6.0	5.5	5.4	-
Hand and edge tools, and hand saws and blades .....	342	41.5	41.9	41.0	41.1	-	3.4	3.6	3.0	2.8	-
Hardware, nec .....	3423,5	40.9	41.4	41.0	41.0	-	2.8	3.1	2.8	2.7	-
Plumbing and heating, except electric .....	3429	41.4	41.8	40.7	40.7	-	3.7	3.7	2.9	2.7	-
Plumbing fittings and brass goods .....	343	40.3	40.9	40.8	40.5	-	3.2	3.5	3.3	2.9	-
Heating equipment, except electric .....	3432	40.6	40.7	41.8	41.2	-	3.1	3.1	3.9	3.4	-
Fabricated structural metal products .....	3433	39.4	40.5	39.5	39.5	-	2.7	3.3	2.7	2.4	-
Fabricated structural metal .....	344	40.9	41.3	41.0	41.2	-	3.4	3.8	3.6	3.5	-
Metal doors, sash, and trim .....	3441	41.8	42.3	41.6	41.4	-	4.3	5.0	4.2	4.0	-
Fabricated plate work (boiler shops) .....	3442	40.4	40.6	40.1	40.5	-	2.9	3.3	2.8	2.7	-
Sheet metal work .....	3443	42.2	42.9	42.2	42.3	-	3.9	4.4	4.1	3.8	-
Architectural metal work .....	3444	39.5	39.9	40.3	40.3	-	2.9	3.0	3.0	3.0	-
Screw machine products, bolts, etc .....	3446	40.5	40.3	40.7	40.9	-	3.4	3.5	4.3	4.4	-
Screw machine products .....	345	43.2	43.4	42.8	42.3	-	5.3	5.4	5.0	4.6	-
Bolts, nuts, rivets, and washers .....	3451	42.3	42.3	41.6	40.9	-	4.6	4.5	4.1	3.6	-
Metal forgings and stampings .....	3452	44.2	44.7	44.2	43.9	-	6.1	6.5	6.1	5.8	-
Iron and steel forgings .....	346	43.5	43.7	42.9	42.5	-	5.4	5.6	4.7	4.5	-
Automotive stampings .....	3462	43.4	43.4	43.7	42.7	-	4.7	5.1	5.1	4.6	-
Metal stampings, nec .....	3465	45.6	45.9	44.2	43.5	-	6.8	7.0	5.5	5.1	-
Metal services, nec .....	3469	40.6	40.8	40.6	40.5	-	3.9	3.8	3.4	3.3	-
Plating and polishing .....	347	40.9	41.3	41.4	41.1	-	3.5	3.7	3.7	3.8	-
Metal coating and allied services .....	3471	40.8	41.3	41.4	41.1	-	3.5	3.6	3.7	3.7	-
Ordnance and accessories, nec .....	3479	41.0	41.2	41.3	41.2	-	3.6	3.8	3.7	3.9	-
Ammunition, except for small arms, nec .....	348	41.4	41.7	41.9	41.4	-	3.3	3.3	2.8	2.8	-
Misc. fabricated metal products .....	3483	40.7	40.4	41.7	40.7	-	2.6	2.5	2.4	2.3	-
Valves and pipe fittings .....	349	41.5	42.1	41.2	40.8	-	3.6	3.7	3.3	3.2	-
Misc. fabricated wire products .....	3494	42.1	43.0	42.1	41.7	-	3.8	4.1	3.5	3.3	-
Misc. fabricated wire products .....	3496	40.6	41.5	39.5	39.1	-	3.3	3.6	3.1	3.3	-
<b>Machinery, except electrical</b>											
Engines and turbines .....	35	42.4	42.7	42.5	42.3	42.5	4.2	4.4	4.3	4.2	-
Turbines and turbine generator sets .....	351	44.2	44.2	43.3	43.1	-	4.9	4.7	3.7	4.1	-
Internal combustion engines, nec .....	3511	42.7	44.0	42.9	42.4	-	4.7	5.2	5.1	4.8	-
Farm and garden machinery .....	3519	44.6	44.2	43.4	43.3	-	5.0	4.6	3.2	3.9	-
Farm machinery and equipment .....	352	42.7	42.3	42.1	41.7	-	3.8	3.8	4.4	3.9	-
Farm machinery and equipment .....	3523	43.7	43.4	42.8	42.1	-	4.6	4.8	5.0	4.5	-

See footnotes at end of table.



ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	\$12.08	\$12.18	\$12.64	\$12.54	-	\$508.57	\$496.94	\$538.46	\$529.19	-
Pressed and blown glass, nec .....	3229	11.16	11.12	11.35	11.48	-	459.79	458.14	475.57	475.27	-
Products of purchased glass .....	323	9.11	9.13	9.36	9.31	-	380.80	382.55	388.44	387.30	-
Cement, hydraulic .....	324	13.13	13.03	13.66	13.54	-	561.96	553.78	580.55	565.97	-
Structural clay products .....	325	8.87	8.89	9.14	9.14	-	372.54	374.27	382.97	378.40	-
Pottery and related products .....	326	9.31	9.28	9.50	9.54	-	370.54	372.13	388.55	385.42	-
Concrete, gypsum, and plaster products .....	327	10.18	10.25	10.50	10.50	-	450.97	458.18	457.80	456.75	-
Concrete block and brick .....	3271	9.25	9.32	9.66	9.68	-	422.73	434.31	428.90	424.95	-
Concrete products, nec .....	3272	9.05	9.19	9.42	9.49	-	393.68	398.85	409.77	411.87	-
Ready-mixed concrete .....	3273	11.02	11.05	11.39	11.30	-	487.08	493.94	486.35	484.77	-
Misc. nonmetallic mineral products .....	329	10.53	10.57	10.67	10.64	-	447.53	450.28	452.41	449.01	-
Abrasive products .....	3291	10.03	9.96	10.22	10.25	-	436.31	436.25	442.53	437.68	-
Asbestos products .....	3292	10.65	10.48	11.18	11.24	-	459.02	445.40	480.74	479.95	-
Primary metal industries .....	33	12.12	12.14	12.26	12.25	\$12.27	528.43	530.52	529.63	527.98	\$528.84
Blast furnaces and basic steel products .....	331	13.95	13.95	14.06	14.05	13.98	612.41	620.78	613.02	612.58	609.53
Blast furnaces and steel mills .....	3312	14.70	14.70	14.81	14.80	-	649.74	657.09	651.64	649.72	-
Steel pipe and tubes .....	3317	10.92	11.01	10.83	10.82	-	469.56	483.34	450.53	452.28	-
Iron and steel foundries .....	332	10.96	10.98	11.14	11.10	-	480.05	477.63	477.91	475.08	-
Gray iron foundries .....	3321	11.46	11.52	11.66	11.64	-	506.53	505.73	502.55	499.36	-
Malleable iron foundries .....	3322	11.83	11.75	12.15	12.14	-	498.04	493.50	523.67	506.24	-
Steel foundries, nec .....	3325	10.23	10.22	10.27	10.32	-	448.07	440.48	435.45	437.57	-
Primary nonferrous metals .....	333	13.18	13.21	13.65	13.57	-	570.69	573.31	592.41	582.15	-
Primary aluminum .....	3334	13.53	13.57	13.96	13.86	-	592.61	594.37	607.26	598.75	-
Nonferrous rolling and drawing .....	335	11.60	11.66	11.79	11.78	-	504.60	510.71	515.22	512.43	-
Copper rolling and drawing .....	3351	10.77	10.96	11.08	11.06	-	460.96	478.95	476.44	480.00	-
Aluminum sheet, plate, and foil .....	3353	13.95	14.02	14.00	14.24	-	627.75	635.11	627.20	642.22	-
Nonferrous wire drawing and insulating .....	3357	11.74	11.82	11.94	11.84	-	511.86	512.99	511.03	506.75	-
Nonferrous foundries .....	336	9.57	9.58	9.72	9.71	-	402.90	402.36	408.24	402.97	-
Aluminum foundries .....	3361	9.74	9.78	9.92	9.93	-	416.87	418.58	420.61	417.06	-
Fabricated metal products .....	34	10.25	10.29	10.48	10.50	10.49	428.45	434.24	437.02	435.75	436.38
Metal cans and shipping containers .....	341	13.41	13.51	13.74	13.73	-	588.70	605.25	601.81	600.87	-
Metal cans .....	3411	14.27	14.32	14.67	14.66	-	627.88	645.83	646.95	647.97	-
Cutlery, hand tools, and hardware .....	342	10.15	10.20	10.40	10.43	-	421.23	427.38	426.40	428.67	-
Hand and edge tools, and hand saws and blades .....	3423,5	9.30	9.28	9.58	9.55	-	380.37	384.19	392.78	391.55	-
Hardware, nec .....	3429	10.55	10.63	10.78	10.86	-	436.77	444.33	438.75	442.00	-
Plumbing and heating, except electric .....	343	9.31	9.37	9.43	9.42	-	375.19	383.23	384.74	381.51	-
Plumbing fittings and brass goods .....	3432	8.87	8.93	9.12	9.06	-	360.12	363.45	381.22	373.27	-
Heating equipment, except electric .....	3433	9.04	9.12	9.29	9.30	-	356.18	369.36	366.96	367.35	-
Fabricated structural metal products .....	344	9.54	9.58	9.84	9.84	-	390.19	395.65	403.44	405.41	-
Fabricated structural metal .....	3441	10.19	10.27	10.42	10.42	-	425.94	434.42	433.47	431.39	-
Metal doors, sash, and trim .....	3442	8.03	8.04	8.32	8.22	-	324.41	326.42	333.63	332.91	-
Fabricated plate work (boiler shops) .....	3443	10.25	10.29	10.44	10.45	-	432.55	441.44	440.57	442.04	-
Sheet metal work .....	3444	9.85	9.89	10.12	10.19	-	389.08	394.61	407.84	410.66	-
Architectural metal work .....	3446	8.89	8.93	9.27	9.33	-	360.05	359.88	377.29	381.60	-
Screw machine products, bolts, etc .....	345	10.04	10.00	10.25	10.25	-	433.73	434.00	438.70	433.58	-
Screw machine products .....	3451	9.31	9.27	9.57	9.63	-	393.81	392.12	398.11	393.87	-
Bolts, nuts, rivets, and washers .....	3452	10.83	10.80	10.98	10.90	-	478.69	482.76	485.32	478.51	-
Metal forgings and stampings .....	346	12.41	12.46	12.58	12.59	-	539.84	544.50	539.68	535.08	-
Iron and steel forgings .....	3462	12.88	12.94	13.23	13.27	-	558.99	561.60	578.15	566.63	-
Automotive stampings .....	3465	14.17	14.20	14.25	14.26	-	646.15	651.78	629.85	620.31	-
Metal stampings, nec .....	3469	9.42	9.46	9.68	9.68	-	382.45	385.97	393.01	392.04	-
Metal services, nec .....	347	8.19	8.20	8.45	8.53	-	334.97	338.66	349.83	350.58	-
Plating and polishing .....	3471	8.19	8.16	8.38	8.50	-	334.15	337.01	346.93	349.35	-
Metal coating and allied services .....	3479	8.18	8.28	8.59	8.58	-	335.38	341.14	354.77	353.50	-
Ordnance and accessories, nec .....	348	11.27	11.29	11.55	11.60	-	466.58	470.79	483.95	480.24	-
Ammunition, except for small arms, nec .....	3483	10.88	10.96	11.37	11.38	-	442.82	442.78	474.13	463.17	-
Misc. fabricated metal products .....	349	9.40	9.43	9.65	9.71	-	390.10	397.00	397.58	396.17	-
Valves and pipe fittings .....	3494	10.26	10.31	10.46	10.52	-	431.95	443.33	440.37	438.68	-
Misc. fabricated wire products .....	3496	8.38	8.38	8.68	8.64	-	340.23	347.77	342.86	337.82	-
Machinery, except electrical .....	35	10.94	10.97	11.26	11.28	11.34	463.86	468.42	478.55	477.14	481.95
Engines and turbines .....	351	13.63	13.69	13.97	13.96	-	602.45	605.10	604.90	601.68	-
Turbines and turbine generator sets .....	3511	13.87	13.75	14.18	14.13	-	592.25	605.00	608.32	599.11	-
Internal combustion engines, nec .....	3519	13.56	13.67	13.90	13.90	-	604.78	604.21	603.26	601.87	-
Farm and garden machinery .....	352	9.95	10.04	10.32	10.50	-	424.87	424.69	434.47	437.85	-
Farm machinery and equipment .....	3523	10.69	10.69	11.18	11.41	-	467.15	463.95	478.50	480.36	-

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	43.2	43.4	42.5	42.3		4.2	4.3	4.1	4.0	
Construction machinery .....	3531	43.8	44.5	43.0	42.6		3.8	4.0	4.4	4.2	
Mining machinery .....	3532	41.6	41.1	42.0	42.0		3.9	3.7	3.9	3.9	
Oil field machinery .....	3533	45.3	44.3	41.7	41.3		6.6	6.3	4.2	3.7	
Conveyors and conveying equipment .....	3535	42.5	43.0	43.6	43.3		4.4	4.5	5.5	5.2	
Industrial trucks and tractors .....	3537	41.0	41.3	40.9	40.8		2.7	3.4	2.9	3.1	
Metalworking machinery .....	354	42.9	43.3	43.6	43.3		5.0	5.0	5.5	5.3	
Machine tools, metal cutting types .....	3541	42.4	42.8	44.2	44.3		4.1	4.3	5.3	5.3	
Machine tools, metal forming types .....	3542	43.8	44.1	44.1	43.5		5.2	5.3	5.6	5.3	
Special dies, tools, jigs, and fixtures .....	3544	43.4	43.9	44.1	43.7		5.6	5.8	6.1	5.9	
Machine tool accessories .....	3545	41.8	42.3	42.4	42.2		4.5	4.4	4.9	4.8	
Power driven hand tools .....	3546	43.0	42.4	43.1	41.9		3.8	3.3	3.9	3.5	
Special industry machinery .....	355	42.2	42.4	42.3	42.1		4.5	4.8	4.6	4.4	
Food products machinery .....	3551	42.2	42.1	42.3	41.8		4.1	4.1	4.3	4.1	
Textile machinery .....	3552	42.3	42.6	42.8	42.6		3.6	3.8	3.9	3.6	
Printing trades machinery .....	3555	40.3	40.1	39.1	38.7		4.8	5.1	4.1	3.9	
General industrial machinery .....	356	42.9	42.9	42.7	42.3		4.5	4.8	4.4	4.2	
Pumps and pumping equipment .....	3561	43.7	43.8	42.4	42.5		4.4	4.7	4.2	4.0	
Ball and roller bearings .....	3562	44.4	44.1	43.7	43.6		6.1	6.2	5.7	5.8	
Air and gas compressors .....	3563	42.8	42.0	43.5	43.6		4.8	4.8	4.3	4.3	
Blowers and fans .....	3564	41.2	42.0	41.1	40.7		2.8	3.2	2.9	2.4	
Speed changers, drives, and gears .....	3566	43.7	43.4	42.7	41.8		5.3	5.6	5.1	4.2	
Power transmission equipment, nec .....	3568	41.5	41.8	42.7	41.5		4.6	5.1	4.7	4.1	
Office and computing machines .....	357	41.1	41.5	41.8	41.5		2.8	3.2	2.8	2.6	
Electronic computing equipment .....	3573	41.3	41.6	41.9	41.6		2.7	3.2	2.7	2.6	
Refrigeration and service machinery .....	358	41.9	42.4	41.6	42.2		3.7	4.1	3.2	3.8	
Refrigeration and heating equipment .....	3585	42.6	43.0	42.2	42.9		4.1	4.3	3.7	4.3	
Misc. machinery, except electrical .....	359	41.8	42.1	42.1	41.8		4.4	4.4	4.5	4.4	
Carburetors, pistons, rings, and valves .....	3592	42.8	43.2	43.2	42.1		5.1	5.1	4.7	4.1	
Machinery, except electrical, nec .....	3599	41.6	41.9	41.9	41.7		4.3	4.3	4.5	4.4	
Electrical and electronic equipment .....	36	40.7	41.1	40.7	40.4	40.7	3.0	3.3	2.9	2.8	
Electric distributing equipment .....	361	41.7	42.3	41.4	41.4	-	3.2	3.5	2.8	2.7	
Transformers .....	3612	41.3	42.5	41.8	41.7		3.1	3.4	3.0	2.8	
Switchgear and switchboard apparatus .....	3613	42.1	42.2	41.1	41.2		3.3	3.6	2.6	2.7	
Electrical industrial apparatus .....	362	41.6	42.6	41.8	41.5		3.7	4.4	3.7	3.3	
Motors and generators .....	3621	41.5	42.5	41.9	41.8		4.2	5.1	4.0	3.8	
Industrial controls .....	3622	40.9	41.9	40.3	40.1		2.3	2.8	2.5	2.1	
Household appliances .....	363	39.3	39.7	39.6	39.7		2.5	2.9	2.8	2.7	
Household refrigerators and freezers .....	3632	40.5	39.8	39.8	39.4		3.7	4.5	3.5	3.4	
Household laundry equipment .....	3633	40.1	39.9	40.9	41.1		1.9	2.0	2.3	2.6	
Electric housewares and fans .....	3634	39.3	39.4	40.2	40.5		2.7	2.9	2.8	2.9	
Electric lighting and wiring equipment .....	364	40.0	40.4	40.0	39.8		2.8	3.2	2.6	2.5	
Electric lamps .....	3641	40.3	41.0	41.4	40.5		2.9	3.6	3.2	2.5	
Current-carrying wiring devices .....	3643	39.5	39.7	39.9	39.7		2.6	2.9	2.6	2.4	
Noncurrent-carrying wiring devices .....	3644	40.3	40.9	40.2	40.0		2.3	2.7	3.0	2.4	
Residential lighting fixtures .....	3645	38.4	38.7	37.2	37.8		1.8	1.7	1.4	1.6	
Radio and TV receiving equipment .....	365	41.3	41.3	39.9	39.3		3.3	3.2	3.3	2.8	
Radio and TV receiving sets .....	3651	41.1	40.8	39.8	38.6		2.7	2.7	2.9	2.2	
Communication equipment .....	366	40.8	41.0	41.1	40.6		2.5	2.5	2.3	2.2	
Telephone and telegraph apparatus .....	3661	42.5	42.7	41.8	41.1		3.2	3.0	2.7	2.2	
Radio and TV communication equipment .....	3662	40.2	40.4	40.8	40.4		2.2	2.4	2.2	2.2	
Electronic components and accessories .....	367	40.4	40.5	40.3	39.8		3.2	3.3	3.0	2.9	
Electronic tubes .....	3671-3	41.3	41.6	40.4	41.1		3.8	3.3	3.5	3.4	
Semiconductors and related devices .....	3674	40.2	40.1	40.0	39.4		3.4	3.4	3.6	3.4	
Electronic components, nec .....	3679	40.5	40.8	40.8	40.2		3.0	3.3	3.0	2.9	
Misc. electrical equipment and supplies .....	369	41.9	42.6	41.9	41.7		3.8	4.1	3.4	3.2	
Storage batteries .....	3691	41.2	41.8	41.6	42.3		2.7	3.3	2.5	3.1	
Engine electrical equipment .....	3694	42.6	43.6	42.3	41.8		4.9	5.2	4.4	4.0	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	\$11.06	\$11.08	\$11.33	\$11.31		\$477.79	\$480.87	\$481.53	\$478.41	
Construction machinery .....	3531	12.29	12.33	12.67	12.64		538.30	548.69	544.81	538.46	
Mining machinery .....	3532	11.38	11.40	11.21	11.25		473.41	468.54	470.82	472.50	
Oil field machinery .....	3533	10.91	10.81	11.08	11.03		494.22	478.88	462.04	455.54	
Conveyors and conveying equipment .....	3535	9.82	9.96	10.33	10.32		417.35	428.28	450.39	446.86	
Industrial trucks and tractors .....	3537	9.83	9.91	9.98	10.02		403.03	409.28	408.18	408.82	
Metalworking machinery .....	354	11.31	11.31	11.72	11.70		485.20	489.72	510.99	506.61	
Machine tools, metal cutting types .....	3541	11.20	11.30	11.60	11.64		474.88	483.64	512.72	515.65	
Machine tools, metal forming types .....	3542	11.81	11.74	12.12	12.09		517.28	517.73	534.49	525.92	
Special dies, tools, jigs, and fixtures .....	3544	12.11	12.08	12.52	12.49		525.57	530.31	552.13	545.81	
Machine tool accessories .....	3545	10.15	10.10	10.62	10.58		424.27	427.23	450.29	446.48	
Power driven hand tools .....	3546	8.81	8.92	9.33	9.35		378.83	378.21	402.12	391.77	
Special industry machinery .....	355	11.06	11.13	11.47	11.48		466.73	471.91	485.18	483.31	
Food products machinery .....	3551	11.07	11.08	11.51	11.53		467.15	466.47	486.87	481.95	
Textile machinery .....	3552	9.10	9.09	9.56	9.63		384.93	387.23	409.17	410.24	
Printing trades machinery .....	3555	12.12	12.23	12.48	12.38		488.44	490.42	487.97	479.11	
General industrial machinery .....	356	10.61	10.63	10.82	10.87		455.17	456.03	462.01	459.80	
Pumps and pumping equipment .....	3561	11.25	11.33	11.37	11.40		491.63	496.25	482.09	484.50	
Ball and roller bearings .....	3562	11.15	11.17	11.27	11.33		495.06	492.60	492.50	493.99	
Air and gas compressors .....	3563	10.48	10.55	10.51	10.55		448.54	443.10	457.19	459.98	
Blowers and fans .....	3564	9.39	9.38	9.61	9.62		386.87	393.96	394.97	391.53	
Speed changers, drives, and gears .....	3566	10.52	10.59	11.15	11.15		459.72	459.61	476.11	466.07	
Power transmission equipment, nec .....	3568	10.58	10.54	10.32	10.41		439.07	440.57	440.66	432.02	
Office and computing machines .....	357	10.65	10.72	11.01	11.06		437.72	444.88	460.22	458.99	
Electronic computing equipment .....	3573	10.67	10.69	10.98	11.05		440.67	444.70	460.06	459.68	
Refrigeration and service machinery .....	358	10.63	10.64	10.69	10.70		445.40	451.14	444.70	451.54	
Refrigeration and heating equipment .....	3585	10.86	10.86	10.91	10.93		462.64	466.98	460.40	468.90	
Misc. machinery, except electrical .....	359	10.58	10.58	10.97	10.98		442.24	445.42	461.84	458.96	
Carburetors, pistons, rings, and valves .....	3592	12.76	12.85	13.15	13.16		546.13	555.12	568.08	554.04	
Machinery, except electrical, nec .....	3599	10.27	10.25	10.67	10.69		427.23	429.48	447.07	445.77	
Electrical and electronic equipment .....	36	10.12	10.15	10.31	10.33	\$10.35	411.88	417.17	419.62	417.33	\$421.25
Electric distributing equipment .....	361	9.35	9.36	9.41	9.41	-	389.90	395.93	389.57	389.57	-
Transformers .....	3612	9.20	9.17	9.21	9.18		379.96	389.73	384.98	382.81	
Switchgear and switchboard apparatus .....	3613	9.50	9.54	9.62	9.64		399.95	402.59	395.38	397.17	
Electrical industrial apparatus .....	362	10.06	10.07	10.09	10.07		418.50	428.98	421.76	417.91	
Motors and generators .....	3621	10.06	10.08	10.10	10.03		417.49	428.40	423.19	419.25	
Industrial controls .....	3622	9.90	9.88	9.86	9.89		404.91	413.97	397.36	396.59	
Household appliances .....	363	10.15	10.10	10.22	10.19		398.90	400.97	404.71	404.54	
Household refrigerators and freezers .....	3632	11.63	11.75	11.89	11.91		471.02	467.65	473.22	469.25	
Household laundry equipment .....	3633	11.81	11.71	12.12	12.11		473.58	467.23	495.71	497.72	
Electric housewares and fans .....	3634	7.47	7.47	7.49	7.55		293.57	294.32	301.10	305.78	
Electric lighting and wiring equipment .....	364	9.51	9.57	9.73	9.77	-	380.40	386.63	389.20	388.85	
Electric lamps .....	3641	10.65	10.63	10.96	10.96		429.20	435.83	453.74	443.88	
Current-carrying wiring devices .....	3643	9.13	9.27	9.53	9.56		360.64	368.02	380.25	379.53	
Noncurrent-carrying wiring devices .....	3644	9.24	9.24	9.33	9.27		372.37	377.92	375.07	370.80	
Residential lighting fixtures .....	3645	7.05	7.08	7.16	7.35		270.72	274.00	266.35	277.83	
Radio and TV receiving equipment .....	365	9.50	9.34	9.60	9.60		392.35	385.74	383.04	377.28	
Radio and TV receiving sets .....	3651	9.88	9.78	9.99	10.10		406.07	399.02	397.60	389.86	
Communication equipment .....	366	12.06	12.12	12.29	12.37		492.05	496.92	505.12	502.22	
Telephone and telegraph apparatus .....	3661	11.54	11.71	11.65	11.64		490.45	500.02	486.97	478.40	
Radio and TV communication equipment .....	3662	12.27	12.29	12.54	12.66		493.25	496.52	511.63	511.46	
Electronic components and accessories .....	367	9.14	9.21	9.48	9.53		369.26	373.01	382.04	379.29	
Electronic tubes .....	3671-3	11.30	11.37	11.99	12.04		466.69	472.99	484.40	494.84	
Semiconductors and related devices .....	3674	11.05	11.19	11.54	11.61		444.21	448.72	461.60	457.43	
Electronic components, nec .....	3679	8.20	8.24	8.44	8.48		332.10	336.19	344.35	340.90	
Misc. electrical equipment and supplies .....	369	10.73	10.75	11.01	10.98		449.59	457.95	461.32	457.87	
Storage batteries .....	3691	11.02	11.05	11.56	11.63		454.02	461.89	480.90	491.95	
Engine electrical equipment .....	3694	11.47	11.49	11.86	11.76		488.62	500.96	501.68	491.57	

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	43.0	43.0	43.0	42.7	42.6	4.8	4.9	4.9	4.4	-
Motor vehicles and equipment .....	371	44.2	44.2	43.7	43.3	43.2	5.7	5.8	5.3	4.7	-
Motor vehicles and car bodies .....	3711	44.3	44.0	43.9	43.3	-	5.6	5.9	5.4	4.6	-
Truck and bus bodies .....	3713	43.2	43.0	43.6	43.1	-	4.9	4.1	3.9	3.8	-
Motor vehicle parts and accessories .....	3714	44.6	44.7	44.0	43.7	-	6.1	6.2	5.6	5.2	-
Truck trailers .....	3715	40.3	41.5	40.3	40.3	-	2.7	3.8	2.7	2.3	-
Aircraft and parts .....	372	42.0	42.2	43.0	42.7	-	4.3	4.4	5.3	4.9	-
Aircraft .....	3721	41.6	41.8	42.8	42.7	-	3.9	3.8	5.2	4.8	-
Aircraft engines and engine parts .....	3724	41.7	42.0	43.1	41.9	-	4.1	4.5	5.5	4.6	-
Aircraft equipment, nec .....	3728	43.0	43.1	43.1	43.2	-	5.1	5.2	5.3	5.2	-
Ship and boat building and repairing .....	373	40.6	40.6	40.9	40.9	-	3.2	2.9	3.3	3.0	-
Ship building and repairing .....	3731	41.0	40.8	41.4	41.5	-	3.2	3.1	3.3	2.9	-
Boat building and repairing .....	3732	40.0	40.2	40.3	40.0	-	3.1	2.7	3.3	3.1	-
Railroad equipment .....	374	42.2	42.7	42.7	42.0	-	3.7	4.0	3.7	3.4	-
Guided missiles, space vehicles, and parts .....	376	42.8	42.6	42.4	42.7	-	4.1	4.1	4.0	4.0	-
Guided missiles and space vehicles .....	3761	42.7	42.4	42.3	43.1	-	4.2	4.2	3.9	4.1	-
Miscellaneous transportation equipment .....	379	39.6	39.8	40.1	39.4	-	2.7	2.6	3.1	2.3	-
Travel trailers and campers .....	3792	38.8	38.8	39.0	38.3	-	1.7	2.0	2.3	1.7	-
Instruments and related products .....	38	41.2	41.4	41.3	40.9	41.1	2.9	3.0	2.7	2.7	-
Engineering and scientific instruments .....	381	41.5	41.6	42.1	41.6	-	2.9	2.8	2.6	2.7	-
Measuring and controlling devices .....	382	41.3	41.6	40.9	40.7	-	2.6	2.8	2.5	2.6	-
Environmental controls .....	3822	39.4	39.7	39.8	39.8	-	2.1	2.1	2.1	2.0	-
Process control instruments .....	3823	43.8	44.2	42.4	43.0	-	3.7	3.9	3.4	3.8	-
Instruments to measure electricity .....	3825	40.5	40.6	40.6	40.0	-	2.2	2.5	1.9	2.2	-
Optical instruments and lenses .....	383	42.6	43.6	42.6	42.6	-	3.0	3.7	2.6	2.5	-
Medical instruments and supplies .....	384	41.0	40.9	40.7	40.3	-	2.9	2.9	2.7	2.6	-
Surgical and medical instruments .....	3841	41.1	41.1	40.7	40.1	-	2.9	2.9	2.7	2.5	-
Surgical appliances and supplies .....	3842	40.7	40.4	40.5	40.4	-	2.9	2.7	2.6	2.6	-
Ophthalmic goods .....	385	40.3	39.8	40.2	40.4	-	2.9	2.8	2.7	2.8	-
Photographic equipment and supplies .....	386	41.9	42.6	43.9	42.6	-	3.9	4.0	3.7	3.3	-
Watches, clocks, and watchcases .....	387	38.8	40.4	39.1	39.1	-	1.2	2.1	1.2	1.3	-
Miscellaneous manufacturing .....	39	39.1	39.4	39.6	39.3	39.1	2.3	2.5	2.3	2.3	-
Jewelry, silverware, and plated ware .....	391	37.6	37.2	38.2	38.2	-	1.7	1.8	1.7	1.8	-
Jewelry, precious metal .....	3911	36.5	35.9	38.0	37.9	-	1.3	1.4	1.6	1.8	-
Musical instruments .....	393	40.6	39.9	39.5	39.3	-	2.7	2.3	2.1	1.9	-
Toys and sporting goods .....	394	39.1	39.5	39.9	39.7	-	2.3	2.2	2.4	2.4	-
Dolls, games, toys, and children's vehicles .....	3942,4	37.4	37.7	38.4	38.0	-	1.3	1.2	1.3	1.2	-
Sporting and athletic goods, nec .....	3949	40.3	40.8	40.9	40.9	-	3.1	3.0	3.1	3.2	-
Pens, pencils, office, and art supplies .....	395	40.1	40.4	40.3	40.0	-	2.6	3.1	2.5	2.4	-
Costume jewelry and notions .....	396	38.1	38.6	38.8	36.9	-	1.8	2.4	2.2	2.1	-
Costume jewelry .....	3961	37.3	37.3	37.7	34.4	-	1.5	2.1	2.3	2.0	-
Miscellaneous manufactures .....	399	39.5	40.0	39.9	40.1	-	2.6	2.8	2.6	2.6	-
Signs and advertising displays .....	3993	39.6	39.9	39.4	40.0	-	2.7	2.7	2.8	2.8	-
<b>Nondurable goods</b> .....		39.9	40.1	40.1	40.1	40.2	3.4	3.6	3.5	3.5	3.7
Food and kindred products .....	20	40.0	40.3	40.0	40.5	40.7	3.8	4.2	3.8	4.1	-
Meat products .....	201	39.8	40.5	39.6	40.8	-	4.0	4.4	3.7	4.2	-
Meat packing plants .....	2011	41.4	41.4	40.8	41.6	-	4.9	5.2	4.5	4.9	-
Sausages and other prepared meats .....	2013	40.9	41.7	40.4	41.8	-	4.7	5.0	4.1	5.0	-
Poultry dressing plants .....	2016	38.1	39.4	38.3	39.9	-	3.0	3.5	2.9	3.5	-
Dairy products .....	202	41.1	41.4	41.2	41.0	-	4.1	4.5	4.2	4.3	-
Cheese, natural and processed .....	2022	39.6	39.9	40.1	39.3	-	3.5	3.6	3.7	3.5	-
Fluid milk .....	2026	41.9	42.0	41.7	41.7	-	4.4	4.7	4.5	4.5	-
Preserved fruits and vegetables .....	203	39.1	38.6	39.3	39.1	-	3.1	3.7	3.3	3.1	-
Canned specialties .....	2032	39.4	40.1	41.1	42.0	-	4.3	4.3	3.8	4.6	-
Canned fruits and vegetables .....	2033	40.5	38.7	38.7	40.0	-	3.7	4.2	3.3	3.3	-
Frozen fruits and vegetables .....	2037	37.0	37.4	39.1	37.0	-	2.3	3.5	3.0	2.1	-
Grain mill products .....	204	43.9	44.2	43.7	43.7	-	5.5	5.8	5.6	5.5	-
Flour and other grain mill products .....	2041	45.7	46.3	43.9	45.4	-	5.8	6.6	5.4	5.7	-
Prepared feeds, nec .....	2048	42.6	43.2	42.6	42.3	-	5.3	5.8	5.7	5.6	-
Bakery products .....	205	40.5	40.2	39.0	39.7	-	4.1	4.1	3.5	4.0	-
Bread, cake, and related products .....	2051	39.5	39.2	38.6	39.0	-	4.4	4.3	3.8	4.3	-
Cookies and crackers .....	2052	42.9	42.7	40.2	41.6	-	3.5	3.8	2.8	3.2	-

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$13.26	\$13.30	\$13.60	\$13.57	\$13.67	\$570.18	\$571.90	\$584.80	\$579.44	\$582.34
Motor vehicles and equipment .....	371	14.03	14.09	14.20	14.15	14.25	620.13	622.78	620.54	612.70	615.60
Motor vehicles and car bodies .....	3711	16.12	16.23	16.42	16.25	-	714.12	714.12	720.84	703.63	-
Truck and bus bodies .....	3713	11.87	11.77	11.60	11.66	-	512.78	506.11	505.76	502.55	-
Motor vehicle parts and accessories .....	3714	13.11	13.18	13.19	13.19	-	584.71	589.15	580.36	576.40	-
Truck trailers .....	3715	9.25	9.24	9.46	9.40	-	372.78	383.46	381.24	378.82	-
Aircraft and parts .....	372	13.48	13.47	14.09	14.05	-	566.16	568.43	605.87	599.94	-
Aircraft .....	3721	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$13.64	\$13.74	\$14.17	\$14.20	-	\$568.79	\$577.08	\$610.73	\$594.98	-
Aircraft equipment, nec .....	3728	12.50	12.56	12.95	12.92	-	537.50	541.34	558.15	558.14	-
Ship and boat building and repairing .....	373	10.27	10.23	10.41	10.40	-	416.96	415.34	425.77	425.36	-
Ship building and repairing .....	3731	11.53	11.51	11.64	11.60	-	472.73	469.61	481.90	481.40	-
Boat building and repairing .....	3732	8.30	8.28	8.64	8.65	-	332.00	332.86	348.19	346.00	-
Railroad equipment .....	374	11.88	11.94	12.76	12.58	-	501.34	509.84	544.85	528.36	-
Guided missiles, space vehicles, and parts .....	376	12.98	13.06	13.59	13.61	-	555.54	556.36	576.22	581.15	-
Guided missiles and space vehicles .....	3761	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	-	-	-	-	-	-
Miscellaneous transportation equipment .....	379	\$10.12	\$10.04	\$10.27	\$10.32	-	\$400.75	\$399.59	\$411.83	\$406.61	-
Travel trailers and campers .....	3792	8.64	8.65	9.07	9.15	-	335.23	335.62	353.73	350.45	-
Instruments and related products .....	38	9.90	9.90	10.17	10.17	10.20	407.88	409.86	420.02	415.95	419.22
Engineering and scientific instruments .....	381	11.04	11.11	11.38	11.36	-	458.16	462.18	479.10	472.58	-
Measuring and controlling devices .....	382	9.66	9.68	9.96	9.92	-	398.96	402.69	407.36	403.74	-
Environmental controls .....	3822	9.14	9.29	9.38	9.28	-	360.12	368.81	373.32	369.34	-
Process control instruments .....	3823	9.38	9.35	9.57	9.50	-	410.84	413.27	405.77	408.50	-
Instruments to measure electricity .....	3825	9.83	9.79	10.04	10.14	-	398.12	397.47	407.62	405.60	-
Optical instruments and lenses .....	383	10.56	10.75	11.18	11.16	-	449.86	468.70	476.27	475.42	-
Medical instruments and supplies .....	384	8.88	8.84	9.18	9.25	-	364.08	361.56	373.63	372.78	-
Surgical and medical instruments .....	3841	9.14	9.10	9.31	9.38	-	375.65	374.01	378.92	376.14	-
Surgical appliances and supplies .....	3842	8.55	8.53	9.00	9.10	-	347.99	344.61	364.50	367.64	-
Ophthalmic goods .....	385	7.49	7.48	7.65	7.66	-	301.85	297.70	307.53	309.46	-
Photographic equipment and supplies .....	386	13.70	13.48	13.41	13.44	-	574.03	574.25	588.70	572.54	-
Watches, clocks, and watchcases .....	387	7.30	7.27	7.46	7.46	-	283.24	293.71	291.69	291.69	-
Miscellaneous manufacturing .....	39	7.97	7.96	8.21	8.26	8.27	311.63	313.62	325.12	324.62	323.36
Jewelry, silverware, and plated ware .....	391	8.62	8.61	8.85	8.82	-	324.11	320.29	338.07	336.92	-
Jewelry, precious metal .....	3911	8.76	8.75	8.89	8.82	-	319.74	314.13	337.82	334.28	-
Musical instruments .....	393	7.92	7.94	8.17	8.20	-	321.55	316.81	322.72	322.26	-
Toys and sporting goods .....	394	7.29	7.22	7.47	7.54	-	285.04	285.19	298.05	299.34	-
Dolls, games, toys, and children's vehicles .....	3942,4	7.03	6.97	7.39	7.42	-	262.92	262.77	283.78	281.96	-
Sporting and athletic goods, nec .....	3949	7.46	7.39	7.52	7.61	-	300.64	301.51	307.57	311.25	-
Pens, pencils, office, and art supplies .....	395	7.81	7.80	8.03	8.10	-	313.18	315.12	323.61	324.00	-
Costume jewelry and notions .....	396	6.64	6.69	6.99	7.05	-	252.98	258.23	271.21	260.15	-
Costume jewelry .....	3961	6.13	6.22	6.55	6.62	-	228.65	232.01	246.94	227.73	-
Miscellaneous manufactures .....	399	8.72	8.73	8.98	9.00	-	344.44	349.20	358.30	360.90	-
Signs and advertising displays .....	3993	9.08	9.04	9.21	9.33	-	359.57	360.70	362.87	373.20	-
<b>Nondurable goods</b> .....		9.38	9.40	9.65	9.68	9.70	374.26	376.94	386.97	388.17	389.94
Food and kindred products .....	20	9.14	9.11	9.32	9.34	9.38	365.60	367.13	372.80	378.27	381.77
Meat products .....	201	7.62	7.62	7.69	7.74	-	303.28	308.61	304.52	315.79	-
Meat packing plants .....	2011	8.53	8.54	8.48	8.66	-	353.14	353.56	345.98	360.26	-
Sausages and other prepared meats .....	2013	9.07	9.10	9.14	9.15	-	370.96	379.47	369.26	382.47	-
Poultry dressing plants .....	2016	6.34	6.34	6.55	6.51	-	241.55	249.80	250.87	259.75	-
Dairy products .....	202	9.78	9.76	10.05	10.10	-	401.96	404.06	414.06	414.10	-
Cheese, natural and processed .....	2022	9.26	9.21	9.30	9.40	-	366.70	367.48	372.93	369.42	-
Fluid milk .....	2026	10.13	10.15	10.52	10.56	-	424.45	426.30	438.68	440.35	-
Preserved fruits and vegetables .....	203	8.54	8.39	8.75	8.77	-	333.91	323.85	343.88	342.91	-
Canned specialties .....	2032	10.59	10.59	10.71	10.58	-	417.25	424.66	440.18	444.36	-
Canned fruits and vegetables .....	2033	8.60	8.44	8.84	8.81	-	348.30	326.63	342.11	352.40	-
Frozen fruits and vegetables .....	2037	7.82	7.54	7.98	7.93	-	289.34	282.00	312.02	293.41	-
Grain mill products .....	204	11.18	11.20	11.25	11.31	-	490.80	495.04	491.63	494.25	-
Flour and other grain mill products .....	2041	10.75	10.83	10.91	10.85	-	491.28	501.43	478.95	492.59	-
Prepared feeds, nec .....	2048	8.67	8.59	8.79	8.75	-	369.34	371.09	374.45	370.13	-
Bakery products .....	205	10.17	10.27	10.41	10.45	-	411.89	412.85	405.99	414.87	-
Bread, cake, and related products .....	2051	10.16	10.25	10.39	10.42	-	401.32	401.80	401.05	406.38	-
Cookies and crackers .....	2052	10.19	10.30	10.46	10.53	-	437.15	439.81	420.49	438.05	-

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Food and kindred products—Continued</b>											
Sugar and confectionery products .....	206	39.3	39.9	39.4	40.2	-	2.3	3.0	2.8	3.1	-
Cane and beet sugar .....	2061-3	40.4	40.4	42.2	42.8	-	3.2	4.5	3.8	3.8	-
Confectionery products .....	2065	38.1	39.0	37.8	39.0	-	1.9	2.3	2.2	2.8	-
Fats and oils .....	207	42.3	42.8	43.4	43.1	-	4.9	5.0	5.1	5.1	-
Beverages .....	208	40.9	41.4	41.4	41.8	-	4.3	4.6	3.9	4.2	-
Malt beverages .....	2082	43.2	43.0	43.6	43.6	-	6.5	6.5	5.8	6.2	-
Bottled and canned soft drinks .....	2086	40.7	41.3	40.5	41.3	-	3.9	4.5	3.5	4.1	-
Misc. food and kindred products .....	209	37.4	38.0	38.4	38.6	-	3.3	3.8	3.6	4.1	-
Tobacco manufactures .....	21	39.4	39.8	38.1	39.5	38.7	2.5	2.8	1.8	2.3	-
Cigarettes .....	211	39.5	40.0	38.4	39.9	-	2.8	3.1	1.9	2.6	-
Textile mill products .....	22	40.7	41.0	41.2	41.2	41.6	3.6	3.8	4.1	4.1	-
Weaving mills, cotton .....	221	40.0	40.2	41.6	41.8	-	3.9	4.0	4.6	4.5	-
Weaving mills, synthetics .....	222	41.3	41.9	41.3	41.6	-	3.9	4.5	4.2	4.2	-
Weaving and finishing mills, wool .....	223	41.3	41.2	41.3	40.9	-	2.7	3.4	3.3	3.2	-
Narrow fabric mills .....	224	40.9	41.5	42.3	41.7	-	3.0	3.4	4.1	3.6	-
Knitting mills .....	225	39.5	40.1	40.2	40.2	-	2.8	3.0	3.7	3.6	-
Women's hosiery, except socks .....	2251	38.2	37.7	38.6	38.2	-	2.2	2.0	2.5	2.3	-
Hosiery, nec .....	2252	38.7	39.3	39.5	39.0	-	2.2	2.4	3.2	3.0	-
Knit outerwear mills .....	2253	39.2	40.3	39.9	40.4	-	2.6	2.9	3.7	4.0	-
Knit underwear mills .....	2254	38.6	40.0	40.0	40.4	-	1.6	2.4	2.3	2.4	-
Circular knit fabric mills .....	2257	41.1	40.7	42.0	41.6	-	4.4	4.1	5.0	4.5	-
Textile finishing, except wool .....	226	41.7	41.7	43.3	42.8	-	4.3	4.3	5.3	5.1	-
Finishing plants, cotton .....	2261	41.7	41.8	43.3	42.8	-	4.2	4.1	5.1	4.8	-
Finishing plants, synthetics .....	2262	42.2	42.0	43.2	42.9	-	4.7	4.9	5.4	5.2	-
Floor covering mills .....	227	42.2	42.9	41.6	41.7	-	3.4	4.6	4.1	4.4	-
Yarn and thread mills .....	228	40.5	40.3	41.0	40.9	-	4.2	3.9	4.0	4.1	-
Yarn mills, except wool .....	2281	40.7	40.6	41.4	41.2	-	4.3	4.1	4.3	4.4	-
Throwing and winding mills .....	2282	39.0	38.6	39.3	39.6	-	3.5	2.9	2.5	2.6	-
Miscellaneous textile goods .....	229	43.1	43.0	41.7	41.8	-	4.5	4.7	3.9	3.9	-
Apparel and other textile products .....	23	36.8	37.3	37.1	37.0	37.3	1.6	1.8	1.9	1.8	-
Men's and boys' suits and coats .....	231	36.7	37.3	36.2	36.2	-	1.2	1.5	1.1	1.0	-
Men's and boys' furnishings .....	232	36.6	37.4	37.1	36.9	-	1.4	1.6	1.6	1.5	-
Men's and boys' shirts and nightwear .....	2321	37.0	37.8	37.2	37.1	-	1.2	1.5	1.4	1.3	-
Men's and boys' separate trousers .....	2327	36.6	37.0	36.4	36.1	-	1.5	1.8	1.5	1.3	-
Men's and boys' work clothing .....	2328	35.3	36.6	36.8	36.6	-	1.3	1.6	1.7	1.8	-
Women's and misses' outerwear .....	233	35.8	35.6	35.7	35.7	-	1.5	1.6	1.6	1.6	-
Women's and misses' blouses and waists .....	2331	35.7	36.7	36.0	35.9	-	1.1	1.5	1.3	1.0	-
Women's and misses' dresses .....	2335	35.7	35.1	35.1	35.0	-	1.5	1.3	1.5	1.7	-
Women's and misses' suits and coats .....	2337	36.3	37.0	36.0	36.7	-	1.8	1.9	2.2	2.2	-
Women's and misses' outerwear, nec .....	2339	35.7	35.3	35.9	35.7	-	1.6	1.6	1.6	1.6	-
Women's and children's undergarments .....	234	37.1	37.9	37.6	37.6	-	1.3	1.5	1.5	1.6	-
Women's and children's underwear .....	2341	37.2	38.3	37.8	37.9	-	1.1	1.5	1.5	1.5	-
Brassieres and allied garments .....	2342	36.6	35.8	36.4	36.0	-	2.5	1.7	1.7	1.9	-
Children's outerwear .....	236	36.8	37.9	36.3	36.7	-	1.4	1.9	1.7	1.7	-
Children's dresses and blouses .....	2361	35.4	36.4	35.0	35.8	-	1.1	1.4	1.7	1.6	-
Misc. apparel and accessories .....	238	38.3	38.4	37.9	38.2	-	2.2	1.9	2.0	2.3	-
Misc. fabricated textile products .....	239	38.6	39.2	39.5	39.1	-	2.5	2.9	3.1	2.9	-
Curtains and draperies .....	2391	36.1	36.3	39.3	38.4	-	1.2	1.5	2.5	2.4	-
House furnishings, nec .....	2392	37.6	38.2	38.7	38.7	-	1.6	2.1	2.5	2.5	-
Automotive and apparel trimmings .....	2396	41.5	42.8	42.0	40.9	-	4.9	6.4	5.5	4.6	-
Paper and allied products .....	26	43.1	43.1	43.1	43.1	43.1	4.9	4.9	4.9	4.9	-
Paper and pulp mills .....	261,2,6	45.5	45.0	45.4	45.5	-	6.4	6.3	6.5	6.7	-
Paper mills, except building paper .....	262	45.6	45.2	45.6	45.7	-	6.5	6.4	6.6	6.8	-
Paperboard mills .....	263	45.1	44.5	44.2	44.4	-	8.4	7.6	6.4	6.7	-
Misc. converted paper products .....	264	41.4	41.5	41.5	41.5	-	3.6	3.7	3.6	3.6	-
Paper coating and glazing .....	2641	43.1	43.0	43.7	42.9	-	3.8	4.0	4.1	3.9	-
Envelopes .....	2642	41.0	40.6	40.6	41.2	-	2.7	2.5	2.8	2.8	-
Bags, except textile bags .....	2643	41.1	41.2	40.5	41.0	-	4.1	4.0	3.6	3.9	-
Paperboard containers and boxes .....	265	42.2	42.6	42.4	42.3	-	4.2	4.4	4.4	4.3	-
Folding paperboard boxes .....	2651	41.4	42.0	42.0	41.9	-	3.9	4.2	4.3	4.1	-
Corrugated and solid fiber boxes .....	2653	42.6	43.1	43.0	42.8	-	4.4	4.7	4.8	4.6	-
Sanitary food containers .....	2654	43.6	43.8	41.8	42.4	-	4.9	4.8	4.4	4.8	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	\$9.56	\$9.53	\$9.96	\$9.96		\$375.71	\$380.25	\$392.42	\$400.39	
Cane and beet sugar .....	2061-3	10.96	11.27	11.66	11.54		442.78	455.31	492.05	493.91	
Confectionery products .....	2065	8.43	8.35	8.77	8.87		321.18	325.65	331.51	345.93	
Fats and oils .....	207	9.38	9.45	9.64	9.73		396.77	404.46	418.38	419.36	
Beverages .....	208	12.15	12.16	12.81	12.74		496.94	503.42	530.33	532.53	
Malt beverages .....	2082	16.76	17.06	17.89	17.76		724.03	733.58	780.00	774.34	
Bottled and canned soft drinks .....	2086	9.60	9.66	10.26	10.25		390.72	398.96	415.53	423.33	
Misc. food and kindred products .....	209	8.57	8.51	8.68	8.72		320.52	323.38	333.31	336.59	
Tobacco manufactures .....	21	15.38	15.92	15.87	16.13	\$16.63	605.97	633.62	604.65	637.14	\$643.58
Cigarettes .....	211	17.52	17.97	18.13	18.27	-	692.04	718.80	696.19	728.97	-
Textile mill products .....	22	7.31	7.33	7.60	7.62	7.64	297.52	300.53	313.12	313.94	317.82
Weaving mills, cotton .....	221	7.63	7.64	7.96	7.94	-	305.20	307.13	331.14	331.89	-
Weaving mills, synthetics .....	222	7.92	7.98	8.22	8.25		327.10	334.36	339.49	343.20	
Weaving and finishing mills, wool .....	223	7.95	8.04	8.41	8.44		328.34	331.25	347.33	345.20	
Narrow fabric mills .....	224	6.72	6.79	7.12	7.11		274.85	281.79	301.18	296.49	
Knitting mills .....	225	6.61	6.60	6.85	6.86		261.10	264.66	275.37	275.77	
Women's hosiery, except socks .....	2251	6.50	6.46	6.78	6.74		248.30	243.54	261.71	257.47	
Hosiery, nec .....	2252	6.35	6.35	6.66	6.69		245.75	249.56	263.07	260.91	
Knit outerwear mills .....	2253	6.33	6.33	6.39	6.44		248.14	255.10	254.96	260.18	
Knit underwear mills .....	2254	6.39	6.39	6.82	6.78		246.65	255.60	272.80	273.91	
Circular knit fabric mills .....	2257	7.44	7.43	7.75	7.71		305.78	302.40	325.50	320.74	
Textile finishing, except wool .....	226	7.72	7.77	8.06	8.11		321.92	324.01	349.00	347.11	
Finishing plants, cotton .....	2261	7.73	7.78	8.04	8.07		322.34	325.20	348.13	345.40	
Finishing plants, synthetics .....	2262	7.99	8.07	8.39	8.48		337.18	338.94	362.45	363.79	
Floor covering mills .....	227	7.64	7.66	7.84	7.91		322.41	328.61	326.14	329.85	
Yarn and thread mills .....	228	7.02	6.99	7.33	7.36		284.31	281.70	300.53	301.02	
Yarn mills, except wool .....	2281	6.99	6.98	7.33	7.37		284.49	283.39	303.46	303.64	
Throwing and winding mills .....	2282	7.26	7.13	7.34	7.37		283.14	275.22	288.46	291.85	
Miscellaneous textile goods .....	229	8.28	8.35	8.59	8.60		356.87	359.05	358.20	359.48	
Apparel and other textile products .....	23	6.07	6.10	6.32	6.32	6.35	223.38	227.53	234.47	233.84	236.86
Men's and boys' suits and coats .....	231	6.76	6.78	7.05	7.05	-	248.09	252.89	255.21	255.21	-
Men's and boys' furnishings .....	232	5.56	5.56	5.77	5.79		203.50	207.94	214.07	213.65	
Men's and boys' shirts and nightwear .....	2321	5.44	5.39	5.67	5.71		201.28	203.74	210.92	211.84	
Men's and boys' separate trousers .....	2327	5.38	5.42	5.59	5.60		196.91	200.54	203.48	202.16	
Men's and boys' work clothing .....	2328	5.58	5.59	5.69	5.74		196.97	204.59	209.39	210.08	
Women's and misses' outerwear .....	233	5.83	5.86	6.05	6.04		208.71	208.62	215.99	215.63	
Women's and misses' blouses and waists .....	2331	5.11	5.11	5.26	5.27		182.43	187.54	189.36	189.19	
Women's and misses' dresses .....	2335	6.15	6.21	6.48	6.55		219.56	217.97	227.45	229.25	
Women's and misses' suits and coats .....	2337	6.49	6.54	6.30	6.33		235.59	241.98	226.80	232.31	
Women's and misses' outerwear, nec .....	2339	5.74	5.75	6.01	5.95		204.92	202.98	215.76	212.42	
Women's and children's undergarments .....	234	5.67	5.68	5.90	5.95		210.36	215.27	221.84	223.72	
Women's and children's underwear .....	2341	5.49	5.53	5.75	5.78		204.23	211.80	217.35	219.06	
Brassieres and allied garments .....	2342	6.62	6.48	6.71	6.82		242.29	231.98	244.24	245.52	
Children's outerwear .....	236	5.37	5.41	5.64	5.59		197.62	205.04	204.73	205.15	
Children's dresses and blouses .....	2361	5.35	5.41	5.67	5.63		189.39	196.92	198.45	201.55	
Misc. apparel and accessories .....	238	5.90	5.93	6.11	6.13		225.97	227.71	231.57	234.17	
Misc. fabricated textile products .....	239	7.40	7.50	7.62	7.61		285.64	294.00	300.99	297.55	
Curtains and draperies .....	2391	5.97	5.98	6.29	6.30		215.52	217.07	247.20	241.92	
House furnishings, nec .....	2392	6.16	6.23	6.35	6.40		231.62	237.99	245.75	247.68	
Automotive and apparel trimmings .....	2396	11.34	11.67	11.81	11.73		470.61	499.48	496.02	479.76	
Paper and allied products .....	26	11.66	11.66	11.83	11.89	11.93	502.55	502.55	509.87	512.46	514.18
Paper and pulp mills .....	261,2,6	14.27	14.36	14.58	14.63	-	649.29	646.20	661.93	665.67	-
Paper mills, except building paper .....	262	14.31	14.41	14.61	14.63		652.54	651.33	666.22	668.59	
Paperboard mills .....	263	14.62	14.37	14.51	14.66		659.36	639.47	641.34	650.90	
Misc. converted paper products .....	264	10.11	10.07	10.30	10.32		418.55	417.91	427.45	428.28	
Paper coating and glazing .....	2641	11.30	11.24	11.48	11.51		487.03	483.32	501.68	493.78	
Envelopes .....	2642	9.63	9.53	9.72	9.64		394.83	386.92	394.63	397.17	
Bags, except textile bags .....	2643	9.36	9.38	9.43	9.52		384.70	386.46	381.92	390.32	
Paperboard containers and boxes .....	265	9.92	9.98	10.09	10.17		418.62	425.15	427.82	430.19	
Folding paperboard boxes .....	2651	10.30	10.34	10.50	10.58		426.42	434.28	441.00	443.30	
Corrugated and solid fiber boxes .....	2653	10.04	10.15	10.26	10.34		427.70	437.47	441.18	442.55	
Sanitary food containers .....	2654	9.72	9.70	9.93	10.02		423.79	424.86	415.07	424.85	

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	37.5	37.6	37.8	37.4	37.5	2.8	2.7	2.9	2.7	
Newspapers .....	271	33.2	33.6	33.0	33.0	-	1.3	1.4	1.2	1.3	
Periodicals .....	272	38.0	37.7	37.8	37.6		3.2	3.0	3.0	2.6	
Books .....	273	39.5	38.6	39.6	39.4		3.7	2.9	3.7	3.3	
Book publishing .....	2731	38.7	38.1	39.4	38.9		3.1	2.2	3.3	2.9	
Book printing .....	2732	40.8	39.3	39.9	40.1		4.7	3.8	4.4	4.0	
Miscellaneous publishing .....	274	35.7	35.6	36.3	36.0	-	1.9	1.7	1.8	1.9	
Commercial printing .....	275	38.6	38.6	39.2	38.6	-	3.2	2.9	3.4	3.1	
Commercial printing, letterpress .....	2751	38.7	38.7	39.1	38.6	-	2.9	2.7	3.1	2.8	
Commercial printing, lithographic .....	2752	38.5	38.5	39.1	38.4		3.2	2.9	3.5	3.0	
Manifold business forms .....	276	41.3	42.1	40.8	41.0		3.8	4.5	3.2	3.4	
Blankbooks and bookbinding .....	278	38.7	38.8	38.4	38.3		2.8	2.7	3.1	2.8	
Printing trade services .....	279	38.3	38.9	38.9	38.1		3.7	4.3	3.9	3.5	
Chemicals and allied products .....	28	42.1	42.4	42.5	42.2	42.3	4.0	4.2	4.2	4.1	
Industrial inorganic chemicals .....	281	42.6	43.1	43.0	42.8	-	4.0	4.3	4.2	4.3	
Industrial inorganic chemicals, nec .....	2819	42.6	43.3	42.7	42.5	-	3.9	4.3	4.0	4.0	
Plastics materials and synthetics .....	282	43.1	43.5	43.1	42.9	-	4.7	4.9	4.9	4.9	
Plastics materials and resins .....	2821	43.5	43.9	43.9	43.3		4.9	5.1	5.3	5.1	
Organic fibers, noncellulosic .....	2824	42.8	43.0	42.9	42.9	-	4.4	4.6	4.6	4.6	
Drugs .....	283	40.9	41.3	41.8	41.1		2.9	3.0	3.5	3.5	
Pharmaceutical preparations .....	2834	40.7	41.1	41.2	40.6		2.9	3.0	3.5	3.4	
Soap, cleaners, and toilet goods .....	284	39.9	40.4	39.9	39.6		3.1	3.6	2.7	2.9	
Soap and other detergents .....	2841	43.7	44.2	42.3	41.7	-	4.6	5.0	4.5	4.4	
Polishing, sanitation, and finishing preparations .....	2842,3	41.1	41.5	40.8	40.4		3.0	3.6	2.9	2.4	
Toilet preparations .....	2844	37.2	37.8	38.1	38.1	-	2.3	2.9	1.5	1.3	
Paints and allied products .....	285	42.2	42.3	41.4	42.0		4.0	4.2	3.4	3.7	
Industrial organic chemicals .....	286	43.7	43.7	45.3	44.5		5.1	5.1	6.0	5.5	
Cyclic crudes and intermediates .....	2865	41.7	42.4	44.1	44.4		4.4	5.3	5.5	5.3	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	44.2	44.1	45.6	44.5		5.3	5.1	6.1	5.6	
Agricultural chemicals .....	287	43.3	43.7	44.5	43.2		5.2	5.6	5.9	4.9	
Miscellaneous chemical products .....	289	42.1	42.1	42.1	42.1		3.7	3.7	3.6	3.6	
Petroleum and coal products .....	29	44.1	45.1	44.3	43.7	43.3	5.4	5.9	5.8	5.7	
Petroleum refining .....	291	43.8	45.0	44.7	44.0	-	4.8	5.3	5.9	5.7	
Paving and roofing materials .....	295	46.6	47.0	44.0	43.9		8.6	9.0	6.2	6.7	
Rubber and misc. plastics products .....	30	41.7	41.8	41.5	41.5	41.6	4.2	4.3	4.0	3.8	
Tires and inner tubes .....	301	45.2	44.7	44.7	45.8	-	6.1	6.3	6.0	5.9	
Rubber and plastics footwear .....	302	39.7	39.3	40.1	40.4		1.6	1.4	1.7	1.8	
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	44.0	44.4	42.4	42.7		4.2	4.3	4.1	4.2	-
Fabricated rubber products, nec .....	306	41.6	42.0	41.1	40.4		3.7	4.0	3.3	3.0	
Miscellaneous plastics products .....	307	41.2	41.3	41.1	41.1		4.1	4.1	3.9	3.7	
Leather and leather products .....	31	37.6	37.9	37.8	37.6	38.7	1.9	2.1	1.8	1.8	
Leather tanning and finishing .....	311	41.2	41.3	41.6	42.0	-	4.1	4.0	4.3	4.6	
Footwear, except rubber .....	314	37.3	37.8	37.4	37.2		1.6	1.9	1.4	1.3	
Men's footwear, except athletic .....	3143	37.4	37.4	37.3	38.0		.9	1.1	1.1	1.2	
Women's footwear, except athletic .....	3144	37.1	38.2	37.5	35.9		2.1	2.8	2.0	1.5	-
Luggage .....	316	39.7	39.7	39.9	39.5		2.8	3.5	2.3	2.5	
Handbags and personal leather goods .....	317	35.6	36.2	35.6	35.8	-	2.0	1.5	1.4	1.6	-
<b>Transportation and public utilities .....</b>		<b>39.1</b>	<b>39.5</b>	<b>39.8</b>	<b>39.4</b>	<b>39.8</b>	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	45.0	45.1	47.0	46.0	-	-	-	-	-	-
Local and interurban passenger transit .....	41	34.4	34.7	34.2	34.3						
Local and suburban transportation .....	411	38.5	38.8	38.3	38.2						
Intercity highway transportation .....	413	39.4	41.0	40.2	39.9	-					
Trucking and warehousing .....	42	38.0	38.6	38.2	38.3						
Trucking and trucking terminals .....	421,3	37.9	38.6	38.2	38.3	-					
Public warehousing .....	422	38.3	38.7	39.1	39.0	-					
Pipe lines, except natural gas .....	46	40.9	41.9	42.4	41.4	-					

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$10.43	\$10.43	\$10.73	\$10.76	\$10.72	\$391.13	\$392.17	\$405.59	\$402.42	\$402.00
Newspapers .....	271	10.45	10.46	10.71	10.73	-	346.94	351.46	353.43	354.09	-
Periodicals .....	272	10.85	10.90	11.44	11.37	-	412.30	410.93	432.43	427.51	-
Books .....	273	9.31	9.32	9.39	9.37	-	367.75	359.75	371.84	369.18	-
Book publishing .....	2731	8.95	8.96	8.94	8.97	-	346.37	341.38	352.24	348.93	-
Book printing .....	2732	9.85	9.87	10.09	9.99	-	401.88	387.89	402.59	400.60	-
Miscellaneous publishing .....	274	9.73	9.82	10.05	10.22	-	347.36	349.59	364.82	367.92	-
Commercial printing .....	275	10.69	10.65	10.98	11.02	-	412.63	411.09	430.42	425.37	-
Commercial printing, letterpress .....	2751	10.30	10.30	10.68	10.74	-	398.61	398.61	417.59	414.56	-
Commercial printing, lithographic .....	2752	10.82	10.73	11.10	11.12	-	416.57	413.11	434.01	427.01	-
Manifold business forms .....	276	10.92	11.14	11.20	11.22	-	451.00	468.99	456.96	460.02	-
Blankbooks and bookbinding .....	278	8.31	8.29	8.60	8.69	-	321.60	321.65	330.24	332.83	-
Printing trade services .....	279	12.83	12.83	13.50	13.44	-	491.39	499.09	525.15	512.06	-
Chemicals and allied products .....	28	12.58	12.60	12.92	12.99	13.06	529.62	534.24	549.10	548.18	552.44
Industrial inorganic chemicals .....	281	13.74	13.82	14.17	14.18	-	585.32	595.64	609.31	606.90	-
Industrial inorganic chemicals, nec .....	2819	13.77	13.87	14.22	14.26	-	586.60	600.57	607.19	606.05	-
Plastics materials and synthetics .....	282	13.02	13.04	13.27	13.31	-	561.16	567.24	571.94	571.00	-
Plastics materials and resins .....	2821	13.81	13.75	14.24	14.24	-	600.74	603.63	625.14	616.59	-
Organic fibers, noncellulosic .....	2824	12.45	12.48	12.49	12.63	-	532.86	536.64	535.82	541.83	-
Drugs .....	283	12.01	11.97	12.32	12.49	-	491.21	494.36	514.98	513.34	-
Pharmaceutical preparations .....	2834	11.71	11.74	12.22	12.46	-	476.60	482.51	503.46	505.88	-
Soap, cleaners, and toilet goods .....	284	11.02	10.98	11.14	11.13	-	439.70	443.59	444.49	440.75	-
Soap and other detergents .....	2841	14.39	14.34	14.83	14.96	-	628.84	633.83	627.31	623.83	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.29	10.35	10.32	10.21	-	422.92	429.53	421.06	412.48	-
Toilet preparations .....	2844	9.29	9.23	9.34	9.36	-	345.59	348.89	355.85	356.62	-
Paints and allied products .....	285	11.21	11.17	11.58	11.61	-	473.06	472.49	479.41	487.62	-
Industrial organic chemicals .....	286	14.99	15.02	15.43	15.58	-	655.06	656.37	698.98	693.31	-
Cyclic crudes and intermediates .....	2865	14.80	14.93	15.19	15.38	-	617.16	633.03	669.88	682.87	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	15.04	15.05	15.49	15.63	-	664.77	663.71	706.34	695.54	-
Agricultural chemicals .....	287	11.94	12.22	12.35	12.43	-	517.00	534.01	549.58	536.98	-
Miscellaneous chemical products .....	289	11.40	11.50	11.78	11.86	-	479.94	484.15	495.94	499.31	-
Petroleum and coal products .....	29	14.86	14.96	15.50	15.36	15.19	655.33	674.70	686.65	671.23	657.73
Petroleum refining .....	291	16.14	16.26	16.76	16.63	-	706.93	731.70	749.17	731.72	-
Paving and roofing materials .....	295	11.53	11.53	11.81	12.12	-	537.30	541.91	519.64	532.07	-
Rubber and misc. plastics products .....	30	9.07	9.10	9.35	9.40	9.41	378.22	380.38	388.03	390.10	391.46
Tires and inner tubes .....	301	14.20	14.24	15.01	14.97	-	641.84	636.53	670.95	685.63	-
Rubber and plastics footwear .....	302	6.29	6.38	6.42	6.60	-	249.71	250.73	257.44	266.64	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	9.25	9.23	9.35	9.42	-	407.00	409.81	396.44	402.23	-
Fabricated rubber products, nec .....	306	8.76	8.77	8.83	8.81	-	364.42	368.34	362.91	355.92	-
Miscellaneous plastics products .....	307	8.47	8.50	8.68	8.72	-	348.96	351.05	356.75	358.39	-
Leather and leather products .....	31	6.26	6.26	6.55	6.57	6.53	235.38	237.25	247.59	247.03	252.71
Leather tanning and finishing .....	311	8.49	8.44	8.71	8.68	-	349.79	348.57	362.34	364.56	-
Footwear, except rubber .....	314	5.94	5.95	6.26	6.26	-	221.56	224.91	234.12	232.87	-
Men's footwear, except athletic .....	3143	6.25	6.28	6.69	6.68	-	233.75	234.87	249.54	253.84	-
Women's footwear, except athletic .....	3144	5.67	5.69	5.91	5.92	-	210.36	217.36	221.63	212.53	-
Luggage .....	316	6.27	6.34	6.60	6.65	-	248.92	251.70	263.34	262.68	-
Handbags and personal leather goods .....	317	6.11	6.00	5.83	5.93	-	217.52	217.20	207.55	212.29	-
<b>Transportation and public utilities .....</b>		<b>12.28</b>	<b>12.27</b>	<b>12.51</b>	<b>12.50</b>	<b>12.48</b>	<b>480.15</b>	<b>484.67</b>	<b>497.90</b>	<b>492.50</b>	<b>496.70</b>
Railroad transportation:											
Class I railroads <sup>2</sup> .....	4011	15.11	15.06	15.33	15.35	-	679.95	679.21	720.51	706.10	-
Local and interurban passenger transit .....	41	8.35	8.42	8.70	8.70	-	287.24	292.17	297.54	298.41	-
Local and suburban transportation .....	411	8.99	9.03	9.57	9.52	-	346.12	350.36	366.53	363.66	-
Intercity highway transportation .....	413	11.18	11.21	11.53	11.39	-	440.49	459.61	463.51	454.46	-
Trucking and warehousing .....	42	11.00	10.94	11.30	11.32	-	418.00	422.28	431.66	433.56	-
Trucking and trucking terminals .....	421,3	11.15	11.10	11.47	11.47	-	422.59	428.46	438.15	439.30	-
Public warehousing .....	422	8.86	8.82	9.19	9.31	-	339.34	341.33	359.33	363.09	-
Pipe lines, except natural gas .....	46	15.90	15.58	16.33	16.07	-	650.31	652.80	692.39	665.30	-

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>o</sup>	June 1989 <sup>o</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>o</sup>	June 1989 <sup>o</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	39.6	39.9	39.2	39.0						
Telephone communication .....	481	41.1	41.4	40.6	40.6						
Radio and television broadcasting .....	483	35.4	35.7	35.5	34.8						
Electric, gas, and sanitary services .....	49	41.2	41.5	41.9	41.8						
Electric services .....	491	41.3	41.4	42.1	42.1						
Gas production and distribution .....	492	40.4	41.1	41.9	41.3						
Combination utility services .....	493	41.2	42.0	42.2	41.9						
Sanitary services .....	495	42.8	42.3	41.6	42.0						
<b>Wholesale trade .....</b>		<b>38.0</b>	<b>38.1</b>	<b>38.2</b>	<b>37.9</b>	<b>38.1</b>					
Durable goods .....	50	38.4	38.6	38.7	38.4						
Motor vehicles and automotive equipment .....	501	38.0	38.1	37.6	37.2						
Furniture and home furnishings .....	502	37.2	37.3	37.7	37.2						
Lumber and construction materials .....	503	39.5	40.0	39.7	39.5						
Sporting goods, toys, and hobby goods .....	504	35.4	35.7	35.6	34.9						
Metals and minerals, except petroleum .....	505	40.3	40.5	40.6	40.4						
Electrical goods .....	506	38.0	38.0	38.4	38.0						
Hardware, plumbing, and heating equipment .....	507	38.1	38.7	38.7	38.5						
Machinery, equipment, and supplies .....	508	38.7	38.9	39.2	38.8						
Miscellaneous durable goods .....	509	37.7	38.0	38.5	38.3						
Nondurable goods .....	51	37.4	37.5	37.4	37.3						
Paper and paper products .....	511	36.7	37.0	37.3	36.7						
Drugs, proprietaries, and sundries .....	512	36.5	36.8	36.8	37.2						
Apparel, piece goods, and notions .....	513	36.4	36.7	36.0	35.7						
Groceries and related products .....	514	37.7	37.9	37.7	37.6						
Chemicals and allied products .....	516	39.7	40.0	39.9	39.7						
Petroleum and petroleum products .....	517	38.4	38.5	38.6	38.2						
Beer, wine, and distilled beverages .....	518	35.8	36.3	36.2	36.0						
Miscellaneous nondurable goods .....	519	37.4	36.9	37.0	37.1						
<b>Retail trade .....</b>		<b>28.9</b>	<b>29.4</b>	<b>28.9</b>	<b>28.8</b>	<b>29.2</b>					
Building materials and garden supplies .....	52	36.6	37.0	36.2	36.3						
Lumber and other building materials .....	521	38.2	38.9	38.0	38.1						
Hardware stores .....	525	32.8	33.3	32.1	32.0						
General merchandise stores .....	53	27.4	28.0	27.1	27.3						
Department stores .....	531	27.1	27.7	26.8	27.1						
Variety stores .....	533	29.0	29.3	27.8	27.9						
Misc. general merchandise stores .....	539	28.8	30.1	28.7	28.3						
Food stores .....	54	29.9	30.7	29.7	29.8						
Grocery stores .....	541	30.0	30.9	29.8	29.9						
Retail bakeries .....	546	28.3	28.9	29.2	29.4						
Automotive dealers and service stations .....	55	36.4	36.8	36.3	35.8						
New and used car dealers .....	551,2	37.2	37.5	37.2	36.7						
Auto and home supply stores .....	553	38.4	38.9	38.5	38.0						
Gasoline service stations .....	554	34.1	34.7	33.8	33.3						
Apparel and accessory stores .....	56	26.4	27.1	26.7	26.6						
Men's and boys' clothing and furnishings .....	561	28.4	29.3	28.5	28.2						
Women's ready-to-wear stores .....	562	24.7	25.3	24.8	24.7						
Family clothing stores .....	565	26.3	27.2	26.8	26.4						
Shoe stores .....	566	27.9	28.7	28.7	28.6						
Furniture and home furnishings stores .....	57	32.6	32.8	32.9	32.6						
Furniture and home furnishings stores .....	571	33.2	33.4	33.5	33.3						
Household appliance stores .....	572	33.1	33.6	33.5	33.1						
Radio, television, and music stores .....	573	31.3	31.6	31.6	31.2						
Eating and drinking places <sup>4</sup> .....	58	25.7	26.0	25.6	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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>a</sup>	June 1989 <sup>a</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.62	\$12.68	\$13.01	\$13.05		\$499.75	\$505.93	\$509.99	\$508.95	
Telephone communication .....	481	13.29	13.30	13.70	13.69		546.22	550.62	556.22	555.81	
Radio and television broadcasting .....	483	11.28	11.55	12.04	12.18		399.31	412.34	427.42	423.86	
Electric, gas, and sanitary services .....	49	14.21	14.08	14.70	14.68		585.45	584.32	615.93	613.62	
Electric services .....	491	14.40	14.22	14.93	14.97		594.72	588.71	628.55	630.24	
Gas production and distribution .....	492	13.32	13.16	13.58	13.51		538.13	540.88	569.00	557.96	
Combination utility services .....	493	16.65	16.54	17.24	17.29		685.98	694.68	727.53	724.45	
Sanitary services .....	495	10.86	10.94	11.30	11.16		464.81	462.76	470.08	468.72	
<b>Wholesale trade .....</b>		<b>9.90</b>	<b>9.88</b>	<b>10.36</b>	<b>10.27</b>	<b>\$10.28</b>	<b>376.20</b>	<b>376.43</b>	<b>395.75</b>	<b>389.23</b>	<b>\$391.67</b>
Durable goods .....	50	10.11	10.09	10.61	10.52		388.22	389.47	410.61	403.97	
Motor vehicles and automotive equipment .....	501	9.18	9.15	9.68	9.55		348.84	348.62	363.97	355.26	
Furniture and home furnishings .....	502	9.47	9.46	9.64	9.65		352.28	352.86	363.43	358.98	
Lumber and construction materials .....	503	9.53	9.56	10.02	9.98		376.44	382.40	397.79	394.21	
Sporting goods, toys, and hobby goods .....	504	9.83	9.80	9.63	9.69		347.98	349.86	342.83	338.18	
Metals and minerals, except petroleum .....	505	10.59	10.55	10.90	10.87		426.78	427.28	442.54	439.15	
Electrical goods .....	506	10.56	10.48	11.06	10.95		401.28	398.24	424.70	416.10	
Hardware, plumbing, and heating equipment .....	507	9.54	9.48	9.99	9.87		363.47	366.88	386.61	380.00	
Machinery, equipment, and supplies .....	508	10.76	10.76	11.37	11.28		416.41	418.56	445.70	437.66	
Miscellaneous durable goods .....	509	7.92	7.96	8.41	8.28		298.58	302.48	323.79	317.12	
Nondurable goods .....	51	9.59	9.57	9.98	9.90		358.67	358.88	373.25	369.27	
Paper and paper products .....	511	10.33	10.22	10.93	10.81		379.11	378.14	407.69	396.73	
Drugs, proprietaries, and sundries .....	512	11.14	11.06	11.53	11.19		406.61	407.01	424.30	416.27	
Apparel, piece goods, and notions .....	513	9.50	9.46	9.96	9.91		345.80	347.18	358.56	353.79	
Groceries and related products .....	514	9.73	9.71	10.11	10.06		366.82	368.01	381.15	378.26	
Chemicals and allied products .....	516	12.18	12.22	12.60	12.37		483.55	488.80	502.74	491.09	
Petroleum and petroleum products .....	517	9.72	9.70	9.96	9.85		373.25	373.45	384.46	376.27	
Beer, wine, and distilled beverages .....	518	11.16	11.11	11.54	11.50		399.53	403.29	417.75	414.00	
Miscellaneous nondurable goods .....	519	7.79	7.78	8.16	8.14		291.35	287.08	301.92	301.99	
<b>Retail trade .....</b>		<b>6.28</b>	<b>6.27</b>	<b>6.52</b>	<b>6.49</b>	<b>6.49</b>	<b>181.49</b>	<b>184.34</b>	<b>188.43</b>	<b>186.91</b>	<b>189.51</b>
Building materials and garden supplies .....	52	7.31	7.33	7.64	7.61		267.55	271.21	276.57	276.24	
Lumber and other building materials .....	521	7.72	7.67	8.05	8.01		294.90	298.36	305.90	305.18	
Hardware stores .....	525	6.20	6.19	6.35	6.36		203.36	206.13	203.84	203.52	
General merchandise stores .....	53	6.49	6.50	6.74	6.72		177.83	182.00	182.65	183.46	
Department stores .....	531	6.79	6.81	7.01	7.00		184.01	188.64	187.87	189.70	
Variety stores .....	533	4.96	4.93	5.30	5.22		143.84	144.45	147.34	145.64	
Misc. general merchandise stores .....	539	5.31	5.26	5.66	5.64		152.93	158.33	162.44	159.61	
Food stores .....	54	7.00	6.94	7.17	7.13		209.30	213.06	212.95	212.47	-
Grocery stores .....	541	7.11	7.04	7.28	7.24		213.30	217.54	216.94	216.48	
Retail bakeries .....	546	5.99	5.99	5.97	6.04		169.52	173.11	174.32	177.58	
Automotive dealers and service stations .....	55	8.32	8.29	8.60	8.51		302.85	305.07	312.18	304.66	
New and used car dealers .....	551,2	10.22	10.22	10.49	10.33		380.18	383.25	390.23	379.11	
Auto and home supply stores .....	553	7.02	6.98	7.46	7.47		269.57	271.52	287.21	283.86	
Gasoline service stations .....	554	5.75	5.72	5.94	5.94		196.08	198.48	200.77	197.80	
Apparel and accessory stores .....	56	5.78	5.78	5.96	5.96		152.59	156.64	159.13	158.54	
Men's and boys' clothing and furnishings .....	561	7.13	7.06	7.35	7.46		202.49	206.86	209.48	210.37	
Women's ready-to-wear stores .....	562	5.45	5.44	5.62	5.60		134.62	137.63	139.38	138.32	
Family clothing stores .....	565	5.59	5.66	5.92	5.85		147.02	153.95	158.66	154.44	
Shoe stores .....	566	5.93	5.94	6.02	6.03		165.45	170.48	172.77	172.46	
Furniture and home furnishings stores .....	57	7.78	7.81	8.10	8.19		253.63	256.17	266.49	266.99	
Furniture and home furnishings stores .....	571	7.89	7.93	8.15	8.18		261.95	264.86	273.03	272.39	
Household appliance stores .....	572	7.70	7.81	8.21	8.24		254.87	262.42	275.04	272.74	
Radio, television, and music stores .....	573	7.60	7.59	7.97	8.19		237.88	239.84	251.85	255.53	
Eating and drinking places <sup>1</sup> .....	58	4.53	4.53	4.69	4.71		116.42	117.78	120.06	119.63	

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	29.7	30.0	29.6	29.9						
Drug stores and proprietary stores .....	591	27.3	27.7	27.0	27.0		-	-	-		
Miscellaneous shopping goods stores .....	594	28.2	29.0	28.2	28.2			-			
Nonstore retailers .....	596	31.8	32.0	32.5	32.7						-
Fuel and ice dealers .....	598	37.7	38.1	38.1	37.6						
Retail stores, nec .....	599	32.4	31.9	31.6	33.5						
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		35.8	35.8	36.3	35.6	35.8					
Banking .....	60	35.4	35.6	36.2	35.4						-
Commercial and stock savings banks .....	602	35.3	35.5	36.2	35.4						
Credit agencies other than banks .....	61	36.1	36.3	37.1	36.3						
Savings and loan associations .....	612	35.7	35.9	36.3	35.9						
Personal credit institutions .....	614	36.1	36.5	36.6	36.2						-
Insurance carriers .....	63	37.1	37.1	37.4	37.1						
Life insurance .....	631	36.6	36.6	37.2	37.0						
Medical service and health insurance .....	632	37.5	37.6	38.1	37.8						
Fire, marine, and casualty insurance .....	633	37.2	37.1	37.2	36.9						
<b>Services</b> .....		32.4	32.7	32.8	32.4	32.6					-
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	31.5	31.6	31.5	30.9						-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.5	34.4	34.2	34.6						-
Beauty shops <sup>4</sup> .....	723	30.2	30.1	30.3	30.0						-
Business services .....	73	33.7	34.0	33.9	33.5						-
Advertising .....	731	36.4	37.0	37.2	36.8						-
Services to buildings .....	734	29.2	29.4	30.0	29.7						-
Computer and data processing services .....	737	37.9	37.8	38.1	37.2						-
Auto repair, services, and garages .....	75	36.2	36.5	36.6	36.2						-
Automotive repair shops .....	753	37.5	38.1	38.0	37.7						-
Miscellaneous repair services .....	76	38.1	38.4	37.9	38.1						-
Motion pictures .....	78	27.9	28.7	28.6	28.1						-
Motion picture production and services .....	781	36.8	36.9	35.4	35.0						-
Amusement and recreation services .....	79	27.9	28.8	27.7	27.4						-
Health services .....	80	32.2	32.4	32.5	32.2						-
Offices of physicians .....	801	31.1	31.2	31.7	31.2						-
Offices of dentists .....	802	28.0	28.4	28.9	28.6						-
Nursing and personal care facilities .....	805	31.5	31.7	31.9	31.5						-
Hospitals .....	806	33.8	34.1	33.8	33.8						-
Legal services .....	81	34.3	34.7	35.2	34.6						-
Miscellaneous services .....	89	37.6	38.0	39.5	37.6						-
Engineering and architectural services .....	891	38.9	39.4	39.4	38.8						-
Accounting, auditing, and bookkeeping .....	893	36.2	36.5	40.6	36.2						-

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				
		May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.55	\$6.55	\$6.79	\$6.76		\$194.54	\$196.50	\$200.98	\$202.12	
Drug stores and proprietary stores .....	591	6.24	6.25	6.43	6.41		170.35	173.13	173.61	173.07	
Miscellaneous shopping goods stores .....	594	6.16	6.11	6.39	6.36		173.71	177.19	180.20	179.35	
Nonstore retailers .....	596	7.43	7.51	7.70	7.76		236.27	240.32	250.25	253.75	
Fuel and ice dealers .....	598	9.08	9.01	9.36	9.31		342.32	343.28	356.62	350.06	
Retail stores, nec .....	599	6.57	6.66	6.92	6.81		212.87	212.45	218.67	228.14	
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		9.08	8.97	9.59	9.47	\$9.44	325.06	321.13	348.12	337.13	\$337.95
Banking .....	60	7.89	7.81	8.30	8.21		279.31	278.04	300.46	290.63	
Commercial and stock savings banks .....	602	7.58	7.51	7.92	7.84		267.57	266.61	286.70	277.54	
Credit agencies other than banks .....	61	8.22	8.18	8.63	8.55		296.74	296.93	320.17	310.37	
Savings and loan associations .....	612	7.72	7.66	8.11	8.02		275.60	274.99	294.39	287.92	
Personal credit institutions .....	614	7.75	7.71	8.21	8.11		279.78	281.42	300.49	293.58	
Insurance carriers .....	63	10.15	10.13	10.62	10.58		376.57	375.82	397.19	392.52	
Life insurance .....	631	9.61	9.58	9.98	9.96		351.73	350.63	371.26	368.52	
Medical service and health insurance .....	632	9.88	9.78	10.34	10.23		370.50	367.73	393.95	386.69	
Fire, marine, and casualty insurance .....	633	10.65	10.67	11.31	11.30		396.18	395.86	420.73	416.97	
<b>Services</b> .....		8.85	8.79	9.34	9.31	9.25	286.74	287.43	306.35	301.64	301.55
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	6.43	6.38	6.61	6.64		202.55	201.61	208.22	205.18	
Personal services:											
Laundry, cleaning, and garment services .....	721	6.31	6.33	6.53	6.56		217.70	217.75	223.33	226.98	
Beauty shops <sup>4</sup> .....	723	6.81	6.92	6.77	6.87		205.66	208.29	205.13	206.10	
Business services .....	73	9.06	9.03	9.60	9.54		305.32	307.02	325.44	319.59	
Advertising .....	731	12.41	12.15	13.30	12.96		451.72	449.55	494.76	476.93	
Services to buildings .....	734	6.87	6.95	7.09	7.14		200.60	204.33	212.70	212.06	
Computer and data processing services .....	737	13.03	13.00	14.03	13.99		493.84	491.40	534.54	520.43	
Auto repair, services, and garages .....	75	8.04	8.07	8.34	8.37		291.05	294.56	305.24	302.99	
Automotive repair shops .....	753	8.79	8.81	9.22	9.22		329.63	335.66	350.36	347.59	
Miscellaneous repair services .....	76	9.58	9.51	9.86	9.89		365.00	365.18	373.69	376.81	
Motion pictures .....	78	11.24	10.90	12.32	12.51		313.60	312.83	352.35	351.53	
Motion picture production and services .....	781	15.43	15.21	15.72	15.99		567.82	561.25	556.49	559.65	
Amusement and recreation services .....	79	7.45	6.88	8.08	7.81		207.86	198.14	223.82	213.99	
Health services .....	80	9.14	9.15	9.68	9.70		294.31	296.46	314.60	312.34	
Offices of physicians .....	801	8.78	8.72	9.24	9.22		273.06	272.06	292.91	287.66	
Offices of dentists .....	802	8.90	8.85	9.38	9.38		249.20	251.34	271.08	268.27	
Nursing and personal care facilities .....	805	6.26	6.30	6.67	6.72		197.19	199.71	212.77	211.68	
Hospitals .....	806	10.40	10.43	11.03	11.04		351.52	355.66	372.81	373.15	
Legal services .....	81	12.73	12.68	13.44	13.21		436.64	440.00	473.09	457.07	
Miscellaneous services .....	89	12.58	12.43	13.09	13.10		473.01	472.34	517.06	492.56	
Engineering and architectural services .....	891	13.37	13.17	14.09	13.95		520.09	518.90	555.15	541.26	
Accounting, auditing, and bookkeeping .....	893	10.94	10.82	11.21	11.28		396.03	394.93	455.13	408.34	

<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)			
	Apr. 1988	May 1988	Apr. 1989	May 1989 <sup>p</sup>	Apr. 1988	May 1988	Apr. 1989	May 1989 <sup>p</sup>
Average hourly earnings, excluding lump-sum payments .....	\$13.96	\$14.04	\$14.74	\$14.66	\$13.39	\$13.40	\$14.09	\$14.09
Average hourly earnings, including lump-sum payments .....	14.43	14.50	15.17	15.10	13.65	13.67	14.51	14.52

<sup>p</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

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

Industry	May 1988	June 1988	Apr. 1989	May 1989 <sup>p</sup>	June 1989 <sup>p</sup>
<b>Manufacturing</b> .....	\$9.70	\$9.70	\$9.95	\$9.98	\$9.98
<b>Durable goods</b> .....	10.19	10.19	10.44	10.47	10.48
Lumber and wood products .....	8.17	8.21	8.39	8.41	(2)
Furniture and fixtures .....	7.65	7.67	7.88	7.92	(2)
Stone, clay, and glass products .....	9.83	9.86	10.10	10.09	(2)
Primary metal industries .....	11.41	11.42	11.54	11.55	(2)
Fabricated metal products .....	9.78	9.79	10.02	10.05	(2)
Machinery, except electrical .....	10.42	10.43	10.72	10.75	(2)
Electrical and electronic equipment .....	9.76	9.76	9.95	9.99	(2)
Transportation equipment .....	12.56	12.59	12.87	12.90	(2)
Instruments and related products .....	9.57	9.56	9.85	9.85	(2)
Miscellaneous manufacturing .....	7.74	7.71	7.98	8.02	(2)
<b>Nondurable goods</b> .....	9.00	9.00	9.25	9.28	\$9.28
Food and kindred products .....	8.73	8.66	8.90	8.90	(2)
Tobacco manufactures .....	14.91	15.37	15.51	15.67	(2)
Textile mill products .....	7.00	7.00	7.24	7.26	(2)
Apparel and other textile products .....	5.94	5.95	6.17	6.17	(2)
Paper and allied products .....	11.03	11.03	11.20	11.25	(2)
Printing and publishing .....	10.05	10.07	10.33	10.39	(2)
Chemicals and allied products .....	12.01	12.01	12.31	12.39	(2)
Petroleum and coal products .....	14.00	14.04	14.55	14.43	(2)
Rubber and misc. plastics products .....	8.64	8.66	8.92	8.98	(2)
Leather and leather products .....	6.10	6.09	6.40	6.42	(2)

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

<sup>2</sup> Not available.

<sup>3</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<sup>1</sup> on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.**

INDUSTRY	Average hourly earnings					Average weekly earnings				
	May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>	May 1988	June 1988	Apr. 1989	May 1989 <sup>2</sup>	June 1989 <sup>2</sup>
<b>Total private:</b>										
Current dollars .....	\$9.26	\$9.23	\$9.62	\$9.59	\$9.58	\$320.40	\$322.13	\$334.78	\$330.86	\$332.43
Constant (1977) dollars .....	4.85	4.82	4.81	4.77	( <sup>3</sup> )	167.92	168.13	167.39	164.53	( <sup>3</sup> )
<b>Mining:</b>										
Current dollars .....	12.60	12.61	13.19	13.14	\$13.10	531.72	535.93	564.53	553.19	\$554.13
Constant (1977) dollars .....	6.60	6.58	6.60	6.53	( <sup>3</sup> )	278.68	279.71	282.27	275.08	( <sup>3</sup> )
<b>Construction:</b>										
Current dollars .....	12.91	12.89	13.30	13.29	\$13.27	494.45	498.84	504.07	501.03	\$502.93
Constant (1977) dollars .....	6.77	6.73	6.65	6.61	( <sup>3</sup> )	259.15	260.35	252.04	249.14	( <sup>3</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.14	10.16	10.41	10.42	\$10.44	415.74	418.59	426.81	426.18	\$428.04
Constant (1977) dollars .....	5.31	5.30	5.21	5.18	( <sup>3</sup> )	217.89	218.47	213.41	211.92	( <sup>3</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.28	12.27	12.51	12.50	\$12.48	480.15	484.67	497.90	492.50	\$496.70
Constant (1977) dollars .....	6.44	6.40	6.26	6.22	( <sup>3</sup> )	251.65	252.96	248.95	244.90	( <sup>3</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	9.90	9.88	10.36	10.27	\$10.28	376.20	376.43	395.75	389.23	\$391.67
Constant (1977) dollars .....	5.19	5.16	5.18	5.11	( <sup>3</sup> )	197.17	196.47	197.88	193.55	( <sup>3</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.28	6.27	6.52	6.49	\$6.49	181.49	184.34	188.43	186.91	\$189.51
Constant (1977) dollars .....	3.29	3.27	3.26	3.23	( <sup>3</sup> )	95.12	96.21	94.22	92.94	( <sup>3</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.08	8.97	9.59	9.47	\$9.44	325.06	321.13	348.12	337.13	\$337.95
Constant (1977) dollars .....	4.76	4.68	4.80	4.71	( <sup>3</sup> )	170.37	167.60	174.06	167.64	( <sup>3</sup> )
<b>Services:</b>										
Current dollars .....	8.85	8.79	9.34	9.31	\$9.25	286.74	287.43	306.35	301.64	\$301.55
Constant (1977) dollars .....	4.64	4.59	4.67	4.63	( <sup>3</sup> )	150.28	150.02	153.18	150.00	( <sup>3</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>3</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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>Total private</b> .....	34.7	34.8	34.6	34.7	34.8	34.7	34.7	34.8	34.6	34.7	34.9	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> .....	41.1	41.1	41.0	41.1	41.2	41.2	41.0	41.1	41.1	41.0	41.3	41.0	40.9
<i>Overtime hours</i> .....	3.9	3.9	3.9	3.9	4.0	3.9	3.9	3.9	3.9	4.0	3.9	3.8	3.8
<b>Durable goods</b> .....	41.8	41.8	41.7	41.9	41.9	41.9	41.7	41.8	41.8	41.7	41.9	41.5	41.5
<i>Overtime hours</i> .....	4.1	4.1	4.1	4.1	4.2	4.2	4.1	4.1	4.1	4.1	4.1	3.9	3.9
Lumber and wood products .....	40.2	40.4	40.1	40.1	40.7	40.3	40.3	40.3	39.6	40.0	40.5	39.7	39.9
Furniture and fixtures .....	39.4	39.6	39.2	39.6	39.4	39.5	39.4	39.8	39.7	39.8	39.9	39.4	39.4
Stone, clay, and glass products .....	42.4	42.2	42.2	42.3	42.5	42.6	42.4	42.5	42.2	42.2	42.5	41.9	41.9
Primary metal industries .....	43.6	43.5	43.5	43.9	43.7	43.7	43.5	43.6	43.4	43.5	43.3	43.2	43.1
Blast furnaces and basic steel products ..	44.2	44.0	44.1	44.5	44.2	44.0	43.8	44.0	43.8	44.1	43.5	43.6	43.4
Fabricated metal products .....	42.0	41.9	41.8	42.0	41.9	42.1	41.8	41.9	41.9	41.8	41.9	41.7	41.4
Machinery, except electrical .....	42.6	42.8	42.5	42.7	42.7	42.5	42.5	42.5	42.6	42.5	42.7	42.5	42.4
Electrical and electronic equipment .....	41.0	41.0	40.9	40.9	41.0	41.0	40.8	40.9	40.9	40.6	41.0	40.7	40.6
Transportation equipment .....	42.9	42.7	42.7	43.0	43.1	43.1	42.8	42.8	43.1	43.1	42.8	42.5	42.5
Motor vehicles and equipment .....	43.9	42.9	43.6	44.1	43.9	44.1	43.7	43.6	43.9	43.9	43.3	42.8	42.9
Instruments and related products .....	41.4	41.7	41.5	41.6	41.8	41.6	41.1	41.5	41.5	41.1	41.5	41.2	41.1
Miscellaneous manufacturing .....	39.4	39.3	39.3	39.2	39.1	39.3	39.0	39.4	39.5	39.5	39.8	39.5	39.1
<b>Nondurable goods</b> .....	40.1	40.2	40.1	40.2	40.2	40.2	40.0	40.1	40.2	40.1	40.4	40.2	40.2
<i>Overtime hours</i> .....	3.6	3.7	3.6	3.7	3.7	3.6	3.6	3.6	3.7	3.8	3.8	3.7	3.7
Food and kindred products .....	40.3	40.4	40.3	40.3	40.4	40.6	40.2	40.1	40.3	40.4	40.7	40.6	40.7
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 .....	40.8	41.0	41.0	41.0	41.0	41.0	40.5	40.9	40.8	41.1	41.7	41.4	41.4
Apparel and other textile products .....	37.0	37.0	36.9	37.1	36.9	37.0	36.8	37.0	37.1	36.9	37.6	37.1	37.0
Paper and allied products .....	43.2	43.2	43.2	43.2	43.2	43.1	43.2	43.1	43.2	43.3	43.4	43.3	43.2
Printing and publishing .....	38.0	38.0	38.0	38.1	38.0	37.9	37.8	38.0	38.0	37.9	37.9	37.7	37.9
Chemicals and allied products .....	42.4	42.3	42.2	42.3	42.5	42.3	42.3	42.3	42.3	42.3	42.6	42.2	42.3
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 .....	41.7	41.7	41.6	41.7	41.6	41.7	41.4	41.7	41.7	41.6	41.6	41.5	41.5
Leather and leather products .....	37.1	37.2	37.5	37.5	37.8	37.3	37.7	38.0	38.6	38.0	38.3	37.4	37.9
<b>Transportation and public utilities</b> .....	39.4	39.4	39.3	39.4	39.4	39.3	39.4	39.6	39.4	39.4	40.1	39.6	39.6
<b>Wholesale trade</b> .....	38.0	38.1	37.9	38.1	38.1	38.0	38.1	38.1	38.1	38.1	38.3	37.9	38.0
<b>Retail trade</b> .....	29.1	29.3	29.0	29.1	29.2	29.0	29.1	29.1	28.9	28.9	29.1	28.9	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	32.7	32.5	32.6	32.7	32.5	32.7	32.7	32.5	32.6	32.8	32.5	32.4

<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> 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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>Total private</b> .....	124.8	125.6	125.1	125.6	126.3	126.3	126.8	127.4	127.2	127.6	128.7	127.6	127.8
<b>Goods-producing</b> .....	101.8	102.0	101.5	101.8	102.4	102.8	102.3	103.0	102.9	102.9	103.5	102.4	102.2
<b>Mining</b> .....	83.0	83.5	81.6	81.1	81.2	80.0	80.2	79.9	80.1	81.1	83.4	81.8	80.1
<b>Construction</b> .....	138.7	137.9	137.8	138.1	139.4	141.1	139.4	141.2	140.5	140.3	141.0	138.1	138.5
<b>Manufacturing</b> .....	95.5	95.9	95.5	95.7	96.2	96.5	96.2	96.7	96.7	96.7	97.2	96.5	96.2
<b>Durable goods</b> .....	93.7	94.2	93.7	94.1	94.6	94.9	94.6	95.2	95.0	94.9	95.2	94.4	93.9
Lumber and wood products .....	104.0	104.5	103.6	103.7	106.3	105.9	106.2	107.0	104.5	105.3	105.9	103.5	103.4
Furniture and fixtures .....	111.8	112.9	111.0	112.6	112.3	112.9	112.6	113.8	113.7	114.3	114.6	113.1	112.3
Stone, clay, and glass products .....	90.0	90.0	89.8	89.6	90.6	91.0	91.0	91.4	90.9	90.5	91.0	89.5	89.7
Primary metal industries .....	67.9	68.5	68.0	68.9	68.9	69.0	68.8	69.1	68.7	68.9	68.6	68.2	68.2
Blast furnaces and basic steel products .....	54.6	54.5	54.0	54.2	54.1	54.0	53.1	53.8	53.4	53.6	52.4	52.3	51.8
Fabricated metal products .....	91.3	91.6	91.1	91.5	91.8	92.5	92.1	93.0	92.8	92.5	92.2	91.7	90.7
Machinery, except electrical .....	90.0	91.4	90.7	91.2	91.9	92.1	92.5	93.0	93.7	93.4	93.9	93.9	93.8
Electrical and electronic equipment .....	100.6	100.8	100.6	100.6	101.0	101.4	100.2	100.2	99.9	98.8	99.7	98.5	98.1
Transportation equipment .....	100.2	100.2	99.9	100.0	100.8	100.8	100.3	101.0	101.0	101.5	101.2	100.3	99.2
Motor vehicles and equipment .....	90.9	89.1	91.5	92.3	92.7	93.6	89.9	91.8	91.1	91.7	91.1	90.3	88.7
Instruments and related products .....	111.8	113.1	113.1	113.7	114.8	114.8	114.5	115.3	115.6	115.0	116.4	116.1	115.8
Miscellaneous manufacturing .....	85.3	85.7	85.4	84.8	84.0	84.8	84.7	85.9	86.4	86.1	87.1	86.4	85.5
<b>Nondurable goods</b> .....	98.2	98.4	98.0	98.2	98.6	98.8	98.4	98.9	99.3	99.5	100.1	99.6	99.5
Food and kindred products .....	100.8	100.7	100.5	100.4	101.7	102.6	101.5	101.5	102.2	102.9	103.8	103.6	103.7
Tobacco manufactures .....	75.7	77.0	77.5	74.3	75.1	76.5	76.7	73.4	74.1	69.6	73.0	69.6	66.5
Textile mill products .....	80.7	81.3	80.2	80.6	80.6	80.5	79.5	80.6	80.4	81.0	82.1	81.5	81.5
Apparel and other textile products .....	84.6	84.5	83.8	84.2	83.8	84.4	84.2	84.9	85.5	85.4	86.8	85.3	84.9
Paper and allied products .....	102.1	102.3	102.1	101.7	101.9	101.9	102.1	101.7	101.9	102.3	102.4	102.3	102.1
Printing and publishing .....	136.1	136.2	136.7	137.2	137.3	137.3	137.4	138.3	138.4	138.5	138.2	137.8	139.0
Chemicals and allied products .....	98.5	98.4	98.5	98.7	99.5	99.0	99.4	99.9	100.0	100.4	100.9	100.8	100.7
Petroleum and coal products .....	83.7	84.5	84.1	84.1	84.1	83.5	82.7	81.2	83.3	82.2	82.9	83.1	81.8
Rubber and misc. plastics products .....	117.6	118.6	117.9	117.8	118.5	119.3	118.6	119.5	120.0	119.9	119.9	119.6	118.9
Leather and leather products .....	54.8	54.9	54.9	55.4	55.3	54.6	55.2	56.1	57.0	56.1	56.0	54.7	55.5
<b>Service-producing</b> .....	137.6	138.7	138.1	138.8	139.6	139.2	140.3	140.9	140.6	141.2	142.6	141.5	141.9
<b>Transportation and public utilities</b> .....	113.4	113.7	113.7	114.1	114.6	114.7	115.5	116.4	116.2	116.2	118.6	117.6	117.9
<b>Wholesale trade</b> .....	122.7	123.3	122.8	123.8	124.2	124.2	124.9	125.3	125.9	126.4	127.2	126.1	126.7
<b>Retail trade</b> .....	125.4	126.5	125.5	125.9	126.5	126.0	126.7	127.2	126.7	126.9	127.7	127.1	127.1
<b>Finance, insurance, and real estate</b> .....	140.2	141.5	140.1	140.9	141.6	140.6	141.2	142.1	140.8	141.8	143.8	141.9	142.5
<b>Services</b> .....	160.9	162.4	162.1	163.2	164.3	164.0	165.8	166.4	166.1	167.3	168.9	167.6	168.1

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

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 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	1988							1989					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>2</sup>	June <sup>2</sup>
Average hourly earnings													
<b>Total private</b> (in current dollars) .....	\$9.27	\$9.31	\$9.32	\$9.37	\$9.43	\$9.42	\$9.45	\$9.49	\$9.52	\$9.54	\$9.61	\$9.61	\$9.62
<b>Mining</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Construction</b> .....	\$12.97	\$13.05	\$13.03	\$13.07	\$13.08	\$13.10	\$13.15	\$13.18	\$13.22	\$13.26	\$13.33	\$13.33	\$13.35
<b>Manufacturing</b> .....	10.18	10.18	10.21	10.25	10.29	10.30	10.31	10.33	10.37	10.40	10.40	10.42	10.45
<b>Excluding overtime<sup>3</sup></b> .....	9.71	9.72	9.75	9.78	9.80	9.83	9.85	9.87	9.89	9.92	9.92	9.97	9.99
<b>Transportation and public utilities</b> .....	12.32	12.35	12.37	12.37	12.41	12.39	12.36	12.45	12.48	12.50	12.52	12.55	12.54
<b>Wholesale trade</b> .....	9.90	9.98	9.95	10.03	10.14	10.06	10.11	10.19	10.18	10.21	10.36	10.27	10.30
<b>Retail trade</b> .....	6.30	6.32	6.33	6.36	6.38	6.40	6.43	6.44	6.45	6.47	6.51	6.49	6.52
<b>Finance, insurance, and real estate</b> .....	9.01	9.11	9.09	9.18	9.35	9.26	9.35	9.40	9.35	9.36	9.54	9.44	9.49
<b>Services</b> .....	8.87	8.93	8.95	9.00	9.07	9.05	9.10	9.15	9.19	9.24	9.32	9.34	9.33
<b>Total private</b> (in constant dollars) <sup>4</sup> .....	4.84	4.84	4.82	4.83	4.84	4.82	4.82	4.81	4.81	4.80	4.80	4.77	( <sup>5</sup> )
Average weekly earnings													
<b>Total private:</b>													
In current dollars .....	321.67	323.99	322.47	325.14	328.16	326.87	327.92	330.25	329.39	331.04	335.39	332.51	332.85
In constant (1977) dollars <sup>4</sup> .....	167.89	168.39	166.82	167.68	168.55	167.28	167.39	167.55	166.44	166.44	167.53	165.18	( <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>6</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		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Alabama</b> .....	41.3	41.3	41.2	\$8.97	\$9.13	\$9.11	\$370.46	\$377.07	\$375.33
Birmingham .....	41.0	41.4	40.5	9.10	9.23	9.27	373.10	382.12	375.44
Mobile .....	40.8	41.5	41.4	10.58	10.54	10.62	431.66	437.41	439.67
<b>Alaska</b> .....	36.6	48.4	45.8	13.60	12.55	12.86	497.76	607.42	588.99
<b>Arizona</b> .....	41.4	40.9	40.7	9.77	9.86	9.89	404.48	403.27	402.52
<b>Arkansas</b> .....	41.1	40.6	40.9	8.10	8.20	8.18	332.91	332.92	333.74
Fayetteville-Springdale .....	40.4	41.6	42.8	7.14	7.34	7.32	288.46	305.34	313.30
Fort Smith .....	41.0	41.2	40.3	8.75	8.66	8.64	358.75	356.79	348.19
Little Rock-North Little Rock .....	40.7	41.1	41.0	8.48	8.59	8.68	345.14	353.05	355.88
Pine Bluff .....	43.5	44.2	43.6	10.89	10.75	10.63	465.02	475.15	463.47
<b>California</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>Colorado</b> .....	40.8	39.7	40.1	10.21	10.53	10.66	416.57	418.04	427.47
Denver .....	40.9	39.8	40.4	10.54	10.98	11.10	431.09	437.00	448.44
<b>Connecticut</b> .....	41.5	42.0	41.8	10.80	11.15	11.16	448.20	468.30	466.49
Bridgeport-Milford .....	42.2	42.3	42.4	11.17	11.50	11.50	471.37	486.45	487.60
Hartford .....	42.6	42.2	42.2	11.20	11.83	11.89	477.12	499.23	501.76
New Britain .....	42.3	42.9	42.0	11.07	11.47	11.50	468.26	492.06	483.00
New Haven-Meriden .....	40.5	41.0	40.4	10.23	10.56	10.62	414.32	432.96	429.05
Stamford .....	40.6	42.5	42.7	12.00	12.37	12.25	487.20	525.73	523.08
Waterbury .....	43.5	43.1	42.9	9.50	10.02	10.08	413.25	431.86	432.43
<b>Delaware</b> .....	39.5	40.1	40.1	10.63	10.77	10.79	419.89	431.68	432.66
Wilmington .....	39.9	40.3	41.0	13.21	12.95	12.85	527.08	521.89	526.85
<b>District of Columbia:</b>									
Washington MSA .....	36.8	40.1	39.4	11.21	11.81	11.78	434.95	473.58	464.13
<b>Florida</b> .....	40.9	40.6	40.6	8.32	8.63	8.64	340.29	350.38	350.78
Fort Lauderdale-Hollywood-Pompano Beach .....	41.4	41.1	41.0	8.23	8.62	8.58	340.72	354.28	351.78
Jacksonville .....	40.5	39.8	40.4	9.17	9.41	9.29	371.39	374.52	375.32
Miami-Hialeah .....	39.6	39.4	39.0	7.11	7.37	7.41	281.56	290.38	288.99
Orlando .....	41.0	41.3	40.7	8.66	9.50	9.63	355.06	392.35	391.94
Pensacola .....	42.7	42.6	42.8	10.87	10.85	11.02	455.61	462.21	471.66
Tampa-St. Petersburg-Clearwater .....	40.7	40.6	40.5	7.95	8.58	8.59	323.57	348.35	347.90
West Palm Beach-Boca Raton-Delray Beach .....	40.7	41.1	40.6	9.18	9.44	9.39	372.81	387.98	381.23
<b>Georgia</b> .....	41.1	40.7	40.5	8.89	8.72	8.74	357.16	354.90	353.97
Atlanta .....	41.5	40.7	40.8	10.28	10.05	10.15	426.62	409.04	414.12
Savannah .....	48.8	47.9	47.5	11.33	11.68	11.64	550.64	559.47	552.90
<b>Hawaii</b> .....	39.2	39.7	39.1	9.81	10.23	10.27	384.55	406.13	401.56
Honolulu .....	39.3	40.8	39.7	9.85	10.44	10.44	387.11	425.95	414.47
<b>Idaho</b> .....	37.7	38.9	38.3	9.70	9.94	9.97	365.69	386.67	381.85
<b>Illinois</b> .....	41.7	41.6	41.5	11.03	11.19	11.19	459.95	465.50	464.39
Aurora-Elgin .....	41.8	41.9	41.3	10.45	10.39	10.45	436.81	435.34	431.59
Bloomington-Normal .....	39.7	44.5	40.3	11.43	12.66	11.58	453.77	563.37	466.67
Champaign-Urbana-Rantoul .....	39.4	38.4	38.4	9.06	9.53	9.50	357.75	365.95	364.80
Chicago .....	42.3	41.7	41.5	10.75	10.79	10.83	454.73	449.94	449.45
Davenport-Rock Island-Moline .....	40.0	39.8	40.9	12.57	12.48	12.81	502.80	496.70	515.75
Decatur .....	41.3	43.2	42.6	14.11	14.66	14.58	582.74	633.31	621.11
Joliet .....	41.3	41.4	42.1	12.06	12.34	12.42	498.08	510.88	522.88
Kankakee .....	40.5	42.3	41.6	10.60	11.14	11.04	429.30	471.22	459.26
Lake County .....	40.6	40.9	40.5	11.39	11.71	11.65	462.43	478.94	471.63
Peoria .....	45.9	43.3	43.8	13.45	13.80	13.79	617.36	597.54	604.00
Rockford .....	42.9	42.2	42.2	11.79	11.91	11.92	505.79	502.60	503.02
Springfield .....	41.5	40.1	39.8	11.70	11.44	11.44	485.55	458.74	455.31
<b>Indiana</b> .....	41.9	41.1	41.0	11.43	11.58	11.56	478.92	475.94	473.96

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		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Iowa</b> .....	41.6	41.0	40.8	\$10.57	\$10.77	\$10.88	\$439.71	\$441.57	\$441.73
Cedar Rapids .....	40.0	39.2	39.6	11.96	12.09	12.44	478.40	473.93	492.62
Des Moines .....	41.9	41.5	40.2	12.03	11.77	11.80	504.06	488.46	474.36
Dubuque .....	41.6	40.5	39.5	11.77	12.00	11.78	489.63	486.00	465.31
Sioux City .....	36.6	33.7	34.8	8.34	8.43	8.31	305.24	284.09	287.53
<b>Kansas</b> .....	40.6	40.3	40.7	10.10	10.45	10.51	410.06	421.14	427.76
Topeka .....	44.1	43.6	44.0	11.30	11.27	11.19	498.33	491.37	492.36
Wichita .....	40.2	41.7	42.5	10.56	11.33	11.32	424.51	472.46	461.10
<b>Kentucky</b> .....	40.4	40.4	40.3	10.11	10.27	10.25	406.44	414.91	413.08
Lexington-Fayette .....	39.4	39.5	39.5	10.26	10.75	10.73	404.24	424.63	423.64
Louisville .....	41.8	41.0	41.2	11.72	11.80	11.66	489.90	483.80	480.39
<b>Louisiana</b> .....	41.8	41.6	42.3	10.86	11.04	10.94	453.95	459.28	462.76
Baton Rouge .....	42.2	43.1	42.2	12.81	12.82	13.04	540.58	552.54	550.29
New Orleans .....	40.4	40.8	40.5	10.31	10.75	10.59	416.52	438.60	428.90
Shreveport .....	40.6	39.8	42.6	11.47	10.99	10.74	465.68	437.40	457.52
<b>Maine</b> .....	41.3	40.2	40.2	9.24	9.69	9.76	381.61	389.54	392.35
Lewiston-Auburn .....	41.5	39.2	39.1	7.97	8.11	8.17	330.76	317.91	319.45
Portland .....	41.1	39.6	40.0	9.59	10.22	10.28	394.15	404.71	411.20
<b>Maryland</b> .....	41.2	41.4	41.1	10.47	10.88	10.83	431.36	450.43	445.11
Baltimore MSA .....	41.2	41.5	41.4	11.22	11.39	11.34	462.26	472.69	469.46
<b>Massachusetts</b> .....	40.7	40.9	40.8	10.12	10.80	10.65	411.88	433.54	434.52
Boston .....	41.5	40.5	40.5	10.93	11.32	11.33	453.80	458.46	458.87
Springfield .....	42.6	42.4	42.3	9.73	9.91	9.94	414.50	420.18	420.46
Worcester .....	40.4	41.5	41.3	10.33	10.76	10.84	417.33	446.54	447.69
<b>Michigan</b> .....	43.7	43.7	43.3	13.54	13.66	13.63	591.70	596.94	590.18
Ann Arbor .....	46.4	45.2	45.3	14.72	14.35	14.32	683.01	648.62	648.70
Battle Creek .....	41.8	42.2	42.4	13.84	14.18	14.25	578.51	598.40	604.20
Detroit .....	44.9	44.4	43.9	14.50	14.60	14.50	651.05	648.24	836.55
Flint .....	43.4	46.4	45.8	16.69	17.25	17.51	724.35	800.40	798.46
Grand Rapids .....	41.2	41.0	41.2	11.32	11.89	11.63	466.38	479.29	479.16
Jackson .....	42.9	42.5	41.9	9.98	10.79	10.87	428.14	458.57	455.45
Kalamazoo .....	42.6	42.6	42.4	12.32	13.04	12.93	524.83	555.50	548.23
Lansing-East Lansing .....	44.4	42.7	42.0	15.02	14.88	14.80	666.89	835.38	621.60
Muskegon .....	41.0	40.9	40.9	11.97	12.35	12.39	490.77	505.11	506.75
Saginaw-Bay City-Midland .....	44.3	44.2	44.1	15.21	15.42	15.27	673.80	681.56	873.41
<b>Minnesota</b> .....	40.2	40.4	40.0	10.58	10.80	10.81	425.32	436.32	432.40
Duluth .....	39.3	37.8	39.3	11.15	11.31	11.31	436.20	427.52	444.48
Minneapolis-St. Paul .....	40.5	40.6	40.3	11.19	11.42	11.42	453.20	463.65	460.23
St. Cloud .....	39.3	37.2	37.8	9.74	9.92	9.87	382.76	369.02	373.09
<b>Mississippi</b> .....	40.0	39.7	39.8	7.83	8.00	8.02	313.20	317.80	317.59
Jackson .....	40.4	40.4	40.3	8.88	8.92	8.98	358.75	360.37	361.89
<b>Missouri</b> .....	40.8	40.8	40.8	10.13	10.43	10.44	413.30	425.54	425.95
Kansas City .....	40.8	40.3	40.2	11.43	11.54	11.56	466.34	465.06	464.71
St. Louis .....	41.2	41.3	41.5	11.78	12.21	12.18	484.51	504.27	505.47
Springfield .....	39.4	40.2	39.4	8.42	8.66	8.72	331.75	348.13	343.57
<b>Montana</b> .....	39.1	41.4	39.4	10.65	10.90	10.83	416.42	451.26	426.70
<b>Nebraska</b> .....	40.7	40.2	40.3	9.45	9.52	9.55	384.62	382.70	384.87
Lincoln .....	40.5	38.8	39.4	9.92	9.99	9.96	401.76	387.61	392.42
Omaha .....	41.6	41.1	41.9	10.15	10.26	10.28	422.24	421.69	430.73
<b>Nevada</b> .....	39.6	41.1	41.6	10.00	10.22	10.27	396.00	420.04	427.23
Las Vegas .....	39.8	42.6	43.2	12.35	12.73	12.41	491.53	542.30	538.11
<b>New Hampshire</b> .....	40.6	40.9	40.8	9.61	10.15	10.14	390.17	415.14	411.68
Manchester .....	40.2	40.1	39.9	9.96	10.35	10.37	400.39	415.04	413.76
Nashua .....	41.1	42.3	41.7	11.57	12.12	11.99	475.53	512.68	499.98
Portsmouth-Dover-Rochester .....	41.2	41.0	41.7	9.30	9.74	9.80	363.16	399.34	406.66

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		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>New Jersey</b> .....	40.9	40.9	40.9	\$10.81	\$11.24	\$11.28	\$442.13	\$459.72	\$461.35
<b>New Mexico</b> .....	40.6	40.1	40.2	8.83	8.74	8.89	358.50	350.47	349.34
Albuquerque .....	40.9	40.2	40.4	9.22	9.29	9.30	377.10	373.46	375.72
<b>New York</b> .....	39.8	40.2	39.9	10.36	10.64	10.64	412.33	427.73	424.54
Albany-Schenectady-Troy .....	40.7	40.5	41.4	10.82	11.08	10.66	440.37	448.74	441.32
Binghamton .....	40.0	40.4	40.0	9.51	9.87	9.89	380.40	398.75	395.60
Buffalo .....	42.9	42.5	42.3	12.31	12.73	12.71	528.10	541.03	537.63
Elmira .....	41.7	42.4	42.1	9.90	10.11	9.94	412.83	428.66	418.47
Nassau-Suffolk .....	39.4	40.0	39.7	10.99	11.64	11.60	433.01	465.80	460.52
New York PMSA .....	37.1	37.9	37.5	9.75	9.66	9.93	361.73	373.69	372.38
New York City .....	36.9	37.6	37.1	9.48	9.70	9.79	349.81	364.72	363.21
Niagara Falls .....	42.4	41.6	41.7	13.33	13.90	13.95	565.19	578.24	581.72
Orange County .....	39.1	37.2	37.8	8.09	8.90	8.81	316.32	331.08	333.02
Poughkeepsie .....	40.9	39.8	39.6	9.91	10.61	10.67	405.32	422.28	422.53
Rochester .....	42.5	42.7	42.8	12.37	12.52	12.43	525.73	534.60	529.52
Rockland County .....	35.3	36.8	36.5	11.30	10.51	10.32	398.89	407.79	397.32
Syracuse .....	42.2	41.8	41.3	11.78	12.11	12.11	497.12	506.20	500.14
Utica-Rome .....	41.1	40.5	40.5	9.69	9.81	9.79	398.26	397.31	396.50
Westchester County .....	39.8	40.2	40.4	11.45	11.09	11.06	455.71	445.82	446.82
<b>North Carolina</b> .....	40.2	40.5	40.6	8.08	8.38	8.39	324.82	339.39	340.63
Asheville .....	41.2	42.1	41.7	8.13	8.32	8.38	334.96	350.27	349.45
Charlotte-Gastonia-Rock Hill .....	40.3	41.0	40.8	6.38	6.75	6.75	336.91	358.75	357.00
Greensboro-Winston-Salem-High Point .....	39.7	39.3	39.5	8.99	9.13	9.17	356.90	358.61	362.22
Raleigh-Durham .....	41.3	41.1	41.2	9.11	9.24	9.34	376.24	379.78	384.81
<b>North Dakota</b> .....	39.1	36.9	40.0	8.43	8.68	8.90	329.61	337.85	356.00
Fargo-Moorhead .....	38.1	39.8	38.0	8.40	8.63	8.64	320.04	343.47	328.32
<b>Ohio</b> .....	43.0	42.7	42.6	12.01	12.21	12.24	516.43	521.37	523.67
Akron .....	43.3	42.3	42.6	11.66	11.47	11.46	504.88	485.18	488.20
Canton .....	43.2	42.2	42.0	11.39	11.76	11.76	492.05	496.27	494.76
Cincinnati .....	42.1	42.8	42.6	11.06	11.48	11.40	465.63	491.34	485.64
Cleveland .....	43.4	43.3	43.1	11.83	11.99	11.98	513.42	519.17	518.34
Columbus .....	41.4	41.5	41.5	11.60	11.92	11.97	480.24	494.68	496.78
Dayton-Springfield .....	43.7	43.1	42.8	12.61	12.86	12.82	551.06	555.13	548.70
Toledo .....	42.4	42.9	44.3	13.04	13.09	13.38	552.90	561.56	592.73
Youngstown-Warren .....	43.7	42.8	43.2	13.58	13.78	13.83	593.45	586.18	597.46
<b>Oklahoma</b> .....	41.1	41.5	41.4	10.29	10.78	10.52	422.92	447.37	435.53
Oklahoma City .....	41.0	43.8	42.0	11.59	11.88	11.36	475.19	520.34	477.12
Tulsa .....	41.2	41.3	41.7	10.78	10.90	10.89	444.14	450.17	454.11
<b>Oregon</b> .....	38.6	40.4	39.6	10.73	10.63	10.83	414.18	437.53	428.87
Eugene-Springfield .....	39.5	41.5	40.5	10.62	10.72	10.68	419.49	444.86	432.54
Portland .....	39.0	40.4	39.9	10.91	10.91	10.90	425.49	440.76	434.91
Salem .....	36.9	38.7	36.1	9.37	9.73	9.75	345.75	376.55	371.48
<b>Pennsylvania</b> .....	40.8	40.6	40.5	10.19	10.50	10.52	415.75	426.30	426.06
Allentown-Bethlehem .....	40.3	39.9	39.1	10.39	10.63	10.54	418.72	424.14	412.11
Altoona .....	40.0	39.8	40.0	8.66	9.17	9.24	346.40	364.97	369.60
Beaver County .....	42.6	43.5	43.2	10.68	10.69	10.97	454.97	465.02	473.90
Erie .....	42.7	42.0	42.5	10.39	10.66	10.73	443.65	447.72	456.03
Harrisburg-Lebanon-Carlisle .....	39.1	40.0	39.3	9.40	9.76	9.87	367.54	390.40	387.89
Johnstown .....	39.5	39.2	39.7	8.40	8.36	8.34	331.80	327.71	331.10
Lancaster .....	39.9	40.3	40.1	9.97	10.56	10.56	397.80	426.37	423.46
Philadelphia PMSA .....	40.2	40.3	40.3	11.19	11.64	11.64	449.84	469.09	469.09
Pittsburgh .....	41.9	41.9	41.6	11.20	11.31	11.27	469.28	473.89	468.83

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	May 1988	Apr. 1989	May 1989 <sup>1</sup>	May 1988	Apr. 1989	May 1989 <sup>1</sup>	May 1988	Apr. 1989	May 1989 <sup>1</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	40.7	40.2	40.8	\$10.64	\$11.15	\$11.02	\$433.05	\$448.23	\$449.62
Scranton—Wilkes-Barre .....	38.5	38.4	38.6	8.85	9.12	9.15	340.73	350.21	353.19
Williamsport .....	40.7	39.4	40.1	8.86	9.44	9.40	360.60	371.94	376.94
York .....	42.8	41.3	41.4	9.74	10.14	10.12	414.92	418.78	418.97
<b>Rhode Island</b> .....	39.5	39.2	39.1	8.45	9.02	9.03	333.78	353.58	353.07
Pawtucket—Woonsocket—Attleboro .....	40.2	40.1	40.1	8.08	8.66	8.68	324.82	347.27	348.07
Providence .....	39.2	38.9	38.8	8.50	8.67	8.69	333.20	337.26	337.17
<b>South Carolina</b> .....	41.2	41.2	41.1	8.27	8.57	8.59	340.72	353.08	353.05
Charleston .....	40.9	41.4	41.1	9.13	9.32	9.34	373.42	385.85	383.87
Columbia .....	41.1	41.2	41.2	8.31	8.71	8.74	341.54	358.85	360.09
Greenville—Spartanburg .....	41.1	40.9	40.8	8.23	8.49	8.53	338.25	347.24	348.02
<b>South Dakota</b> .....	41.9	42.9	41.7	7.98	8.25	8.21	334.38	353.93	342.36
Sioux Falls .....	45.1	43.7	43.2	8.16	8.67	8.63	368.02	378.88	372.82
<b>Tennessee</b> .....	41.4	40.8	40.9	8.89	9.18	9.27	368.05	374.54	379.14
Chattanooga .....	40.8	41.3	41.6	8.21	8.21	8.26	334.97	339.07	343.82
Johnson City—Kingsport—Bristol .....	43.0	41.4	41.3	9.43	9.64	9.95	405.49	399.10	410.94
Knoxville .....	41.0	39.4	39.1	9.04	9.01	9.00	370.64	354.99	351.90
Memphis .....	42.3	42.4	42.3	9.02	9.37	9.38	381.55	397.29	395.93
Nashville .....	41.5	41.6	41.6	10.28	10.63	10.76	426.62	442.21	447.82
<b>Texas</b> .....	41.4	42.0	41.7	9.92	10.17	10.14	410.69	427.14	422.84
Dallas .....	41.6	42.1	41.9	9.74	9.98	10.05	405.18	420.16	421.10
Ft. Worth—Arlington .....	41.5	41.6	40.7	10.58	10.98	10.88	439.07	456.77	442.82
Houston .....	43.8	43.0	43.3	11.22	11.73	11.75	491.44	504.39	508.78
San Antonio .....	41.3	40.1	41.6	7.52	7.54	7.55	310.58	302.35	314.08
<b>Utah</b> .....	39.8	39.3	39.2	9.87	10.00	10.09	392.83	393.00	395.53
Salt Lake City—Ogden .....	40.1	40.1	40.1	9.91	10.03	10.03	397.39	402.20	402.20
<b>Vermont</b> .....	40.8	41.0	40.6	9.21	9.91	9.98	375.77	406.31	405.19
Burlington .....	41.8	41.0	39.1	9.58	10.26	10.31	399.61	420.66	403.12
<b>Virginia</b> .....	40.8	41.1	41.1	9.35	9.52	9.52	381.48	391.27	391.27
Bristol .....	43.2	40.2	40.9	7.88	8.10	7.99	340.42	325.62	328.79
Charlottesville .....	40.9	41.9	41.9	7.77	7.95	7.98	317.79	333.11	333.52
Danville .....	42.1	41.5	41.5	8.60	8.61	8.85	362.06	357.32	358.98
Lynchburg .....	39.7	41.9	40.5	8.68	9.18	9.18	344.60	383.80	371.79
Northern Virginia .....	40.1	40.2	39.7	10.38	11.07	10.95	416.24	445.01	434.72
Richmond—Petersburg .....	41.4	41.0	40.1	12.08	12.32	12.07	500.11	505.12	484.01
Roanoke .....	40.2	40.1	40.4	9.29	9.65	9.53	373.48	386.97	385.01
<b>Washington</b> .....	40.5	40.6	41.0	11.66	12.22	12.07	472.23	496.13	494.87
<b>West Virginia</b> .....	40.9	41.0	41.4	10.72	11.04	11.08	438.45	452.64	458.71
Charleston .....	43.5	44.5	43.3	13.42	13.95	14.12	583.77	620.78	611.40
Huntington—Ashland .....	41.0	41.7	41.2	12.36	12.43	12.53	508.76	518.33	518.24
Parkersburg—Marietta .....	43.1	41.8	42.4	12.59	12.88	12.93	542.63	538.38	548.23
Wheeling .....	41.3	40.4	40.8	11.71	12.25	12.23	483.62	494.90	498.98
<b>Wisconsin</b> .....	41.4	41.4	41.2	10.89	10.72	10.77	442.57	443.81	443.72
Appleton—Oshkosh .....	42.9	44.0	43.8	11.24	11.68	11.78	482.20	513.04	512.74
Eau Claire .....	40.2	41.6	41.3	10.80	10.50	10.47	434.16	436.80	432.41
Green Bay .....	41.2	40.4	40.1	11.54	11.52	11.73	475.45	465.41	470.37
Janesville—Beloit .....	42.3	42.4	42.9	13.05	13.27	13.46	552.02	582.65	577.43
Kenosha .....	41.9	40.3	39.0	13.04	12.40	12.42	546.38	499.72	484.38
La Crosse .....	39.0	39.3	40.3	9.19	9.69	10.03	358.41	380.82	404.21
Madison .....	40.4	41.2	40.6	10.13	10.15	10.20	409.25	418.18	414.12
Milwaukee .....	40.8	40.9	40.6	11.81	11.51	11.56	473.89	470.76	469.34
Racine .....	40.7	39.5	38.7	10.84	10.89	11.01	441.19	430.16	426.09
Wausau .....	42.8	42.4	42.1	10.09	10.23	10.12	431.85	433.75	426.05
<b>Wyoming</b> .....	37.2	38.9	38.3	9.95	10.27	10.26	370.14	399.50	392.96
<b>Puerto Rico</b> .....	39.0	39.9	39.1	5.50	5.66	5.61	214.50	225.83	219.35
<b>Virgin Islands</b> .....	40.4	41.6	41.5	9.59	10.40	10.42	387.44	432.64	432.43

<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 1988 benchmarks.

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Apr. 1989 <sup>r</sup>	May 1989 <sup>r</sup>	June 1989 <sup>p</sup>	June 1988 to June 1989 <sup>p</sup>	Apr. 1989 to May 1989 <sup>r</sup>	May 1989 to June 1989 <sup>p</sup>
Total .....	202,104	200,858	200,960	2.3	-0.6	0.1
Private sector .....	166,618	165,191	165,569	2.4	-0.9	.2
Mining .....	1,605	1,574	1,561	-2.9	-1.9	-0.9
Construction .....	10,413	10,197	10,267	.5	-2.1	.7
Manufacturing .....	42,075	41,873	41,812	.9	-0.5	-0.1
Durable goods .....	25,090	24,944	24,879	.5	-0.6	-0.3
Nondurable goods .....	16,985	16,928	16,934	1.4	-0.3	.0
Transportation and public utilities .....	11,808	11,743	11,819	4.0	-0.5	.7
Wholesale trade .....	12,373	12,244	12,303	3.4	-1.0	.5
Retail trade .....	29,467	29,318	29,309	1.6	-0.5	.0
Finance, insurance, and real estate .....	12,791	12,612	12,679	1.8	-1.4	.5
Services .....	46,086	45,632	45,819	4.6	-1.0	.4
Government .....	35,487	35,667	35,391	1.7	.5	-0.8

<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										
	1987	1988	1986		1987				1988				1989
			III	IV	I	II	III	IV	I	II	III	IV	I
<b>Business sector</b>													
Output per hour of all persons .....	111.0	112.2	110.0	109.8	109.9	110.6	111.7	111.8	112.8	111.8	112.3	112.0	112.5
Output .....	133.3	139.4	128.5	129.3	130.5	132.2	134.3	136.2	138.0	138.8	139.8	140.9	142.7
Hours .....	120.1	124.3	116.8	117.8	118.8	119.5	120.3	121.8	122.3	124.1	124.5	125.8	126.8
Compensation per hour .....	190.4	199.4	184.0	186.2	187.3	189.0	191.1	194.0	195.8	198.1	201.1	203.2	205.9
Real compensation per hour .....	101.5	102.1	101.6	102.1	101.4	101.1	101.3	101.9	101.9	102.0	102.4	102.3	102.3
Unit labor costs .....	171.5	177.8	167.3	169.6	170.5	170.8	171.1	173.5	173.5	177.1	179.0	181.4	183.0
Unit nonlabor payments .....	168.7	172.0	166.6	163.7	165.6	168.7	171.5	168.9	170.0	170.4	172.7	174.6	176.1
Implicit price deflator .....	170.5	175.7	167.0	167.5	168.7	170.1	171.2	171.9	172.3	174.7	176.8	179.0	180.5
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	109.0	110.6	108.0	107.8	107.8	108.6	109.6	109.9	110.8	110.1	110.7	110.9	110.6
Output .....	133.0	139.9	128.1	128.8	130.1	131.9	134.1	136.0	137.9	139.2	140.5	142.1	142.9
Hours .....	122.1	126.6	118.6	119.5	120.7	121.5	122.3	123.8	124.4	126.4	126.9	128.1	129.2
Compensation per hour .....	189.4	198.0	183.1	185.4	186.4	187.9	190.0	192.9	194.6	196.6	199.4	201.9	204.6
Real compensation per hour .....	101.0	101.4	101.2	101.7	100.9	100.5	100.7	101.4	101.3	101.3	101.5	101.7	101.7
Unit labor costs .....	173.8	179.1	169.5	172.1	172.9	173.0	173.3	175.6	175.7	178.6	180.2	182.0	185.0
Unit nonlabor payments .....	170.2	173.9	168.1	164.9	167.2	169.8	173.0	170.9	171.6	171.8	173.9	177.9	176.6
Implicit price deflator .....	172.5	177.3	169.0	169.5	170.9	171.9	173.2	174.0	174.2	176.2	178.0	180.6	182.0
<b>Manufacturing</b>													
Output per hour of all persons .....	132.0	136.2	128.0	128.8	130.0	131.7	132.8	133.2	134.3	135.5	137.2	137.8	138.5
Output .....	130.1	138.1	124.8	125.9	127.2	128.7	131.1	133.5	135.0	136.9	139.3	141.1	142.0
Hours .....	98.6	101.4	97.4	97.7	97.8	97.7	98.8	100.2	100.6	101.1	101.5	102.4	102.6
Compensation per hour .....	186.9	193.5	183.6	185.3	185.9	186.3	187.2	188.2	190.7	192.1	194.4	196.8	198.8
Real compensation per hour .....	99.7	99.1	101.4	101.7	100.7	99.7	99.3	98.9	99.3	99.0	99.0	99.1	98.8
Unit labor costs .....	141.7	142.1	143.4	143.8	143.1	141.4	141.0	141.3	142.1	141.8	141.6	142.9	143.6
<b>Durable goods</b>													
Output per hour of all persons .....	138.5	143.2	133.9	135.1	136.6	138.1	139.1	140.0	141.3	142.7	144.2	144.6	145.2
Output .....	136.0	145.0	130.7	131.8	133.3	134.2	136.5	139.9	141.3	144.0	146.4	148.3	149.0
Hours .....	98.2	101.3	97.6	97.6	97.6	97.2	98.2	99.9	100.0	100.9	101.5	102.6	102.6
Compensation per hour .....	185.2	191.7	182.2	184.2	184.9	184.4	185.3	186.2	189.5	190.1	192.3	194.8	196.9
Real compensation per hour .....	98.8	98.2	100.7	101.1	100.1	98.7	98.3	97.8	98.7	97.9	97.9	98.1	97.9
Unit labor costs .....	133.7	133.9	136.0	136.4	135.3	133.5	133.2	133.0	134.1	133.3	133.4	134.7	135.7
<b>Nondurable goods</b>													
Output per hour of all persons .....	122.3	125.8	119.2	119.6	120.1	122.4	123.5	123.2	123.9	124.8	126.9	127.5	128.5
Output .....	121.4	127.8	115.9	117.0	118.0	120.5	123.1	124.0	125.6	126.4	128.8	130.3	131.7
Hours .....	99.3	101.6	97.2	97.9	98.2	98.4	99.7	100.7	101.4	101.3	101.5	102.2	102.5
Compensation per hour .....	190.1	196.8	186.0	187.2	188.0	189.7	190.8	191.9	193.2	195.7	197.9	200.2	202.0
Real compensation per hour .....	101.4	100.8	102.7	102.7	101.8	101.5	101.2	100.8	100.6	100.8	100.8	100.8	100.4
Unit labor costs .....	155.4	156.5	156.0	156.5	156.4	155.0	154.5	155.8	156.0	156.8	156.0	157.0	157.2
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	111.3	112.8	109.6	110.3	110.1	110.9	112.2	112.2	113.3	112.9	112.7	112.7	112.4
Output .....	134.6	141.7	128.9	130.4	131.3	133.3	136.1	137.7	140.1	141.2	142.0	143.6	144.1
Hours .....	120.9	125.6	117.6	118.1	119.3	120.2	121.3	122.8	123.6	125.0	126.1	127.4	128.2
Compensation per hour .....	185.5	193.1	180.2	182.2	182.9	184.3	186.1	188.5	189.9	191.9	194.5	196.6	199.1
Real compensation per hour .....	98.9	98.9	99.5	100.0	99.0	98.6	98.7	99.0	98.9	98.8	99.0	99.0	99.0
Total unit costs .....	170.6	175.0	168.4	168.8	169.9	170.3	170.2	172.0	171.5	173.8	176.4	178.3	181.1
Unit labor costs .....	166.6	171.1	164.3	165.1	166.2	166.1	165.9	168.1	167.5	170.0	172.6	174.4	177.2
Unit nonlabor costs .....	182.5	186.5	180.3	179.6	180.8	182.6	183.0	183.6	183.4	185.1	187.8	189.6	192.7
Unit profits .....	130.8	132.2	133.6	129.7	128.5	129.8	136.4	128.3	132.5	132.6	129.6	133.9	123.4
Implicit price deflator .....	165.8	169.9	164.2	164.1	164.9	165.4	166.1	166.7	166.9	168.8	170.8	172.9	174.2

NOTE: Beginning in August, the hours measures used in the productivity and costs series will be based on hours at work. Until this time, data based on hours paid have been used. The difference between

hours paid and hours at work is hours of paid vacation, holidays, and sick leave. The new series will be carried back to 1947.

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 1987	I 1988	II 1988	III 1988	IV 1988	I 1989	IV 1987	I 1988	II 1988	III 1988	IV 1988	I 1989
<b>Business sector</b>												
Output per hour of all persons .....	0.6	3.5	-3.4	1.7	-1.0	1.7	1.9	2.7	1.1	0.6	0.2	-0.3
Output .....	5.7	5.5	2.4	2.8	3.3	5.1	5.3	5.8	5.0	4.1	3.5	3.4
Hours .....	5.1	1.9	6.0	1.1	4.3	3.4	3.4	3.0	3.9	3.5	3.3	3.7
Compensation per hour .....	6.2	3.7	4.8	6.2	4.3	5.4	4.2	4.5	4.8	5.2	4.7	5.2
Real compensation per hour .....	2.4	.0	.3	1.4	-.2	.0	-.2	.5	.9	1.0	.4	.4
Unit labor costs .....	5.6	.2	8.5	4.4	5.4	3.6	2.3	1.8	3.7	4.6	4.6	5.5
Unit nonlabor payments .....	-5.8	2.5	1.0	5.3	4.7	3.4	3.2	2.7	1.0	.7	3.4	3.6
Implicit price deflator .....	1.4	1.0	5.8	4.7	5.1	3.6	2.6	2.1	2.7	3.2	4.1	4.8
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	.9	3.4	-2.4	2.0	1.0	-1.1	1.9	2.8	1.4	1.0	1.0	-.2
Output .....	5.9	5.6	4.0	3.5	4.8	2.2	5.6	6.0	5.6	4.7	4.5	3.6
Hours .....	4.9	2.1	6.6	1.5	3.7	3.4	3.6	3.1	4.1	3.8	3.5	3.8
Compensation per hour .....	6.4	3.5	4.2	5.7	5.2	5.4	4.1	4.4	4.6	5.0	4.7	5.1
Real compensation per hour .....	2.6	-.1	-.3	.9	.7	.0	-.3	.4	.7	.8	.3	.3
Unit labor costs .....	5.4	.1	6.8	3.7	4.1	6.6	2.1	1.6	3.2	4.0	3.6	5.3
Unit nonlabor payments .....	-4.8	1.6	.7	4.8	9.6	-3.0	3.6	2.6	1.2	.5	4.1	2.9
Implicit price deflator .....	1.8	.6	4.7	4.1	6.0	3.2	2.6	1.9	2.5	2.8	3.8	4.5
<b>Manufacturing</b>												
Output per hour of all persons .....	1.3	3.2	3.7	5.2	1.6	2.1	3.4	3.3	2.8	3.3	3.4	3.1
Output .....	7.5	4.6	5.8	7.1	5.1	2.8	6.0	6.2	6.4	6.2	5.6	5.2
Hours .....	6.1	1.3	2.0	1.8	3.5	.7	2.6	2.8	3.4	2.8	2.2	2.0
Compensation per hour .....	2.1	5.4	3.0	4.8	5.1	4.1	1.6	2.6	3.2	3.8	4.6	4.2
Real compensation per hour .....	-1.5	1.8	-1.5	.0	.6	-1.3	-2.7	-1.3	-.7	-.3	.2	-.5
Unit labor costs .....	.8	2.2	-.7	-.5	3.5	2.0	-1.8	-.7	.3	.5	1.1	1.0
<b>Durable goods</b>												
Output per hour of all persons .....	2.6	3.8	3.8	4.3	1.2	1.6	3.7	3.4	3.3	3.6	3.3	2.7
Output .....	10.2	4.3	7.7	6.8	5.3	1.8	6.1	6.0	7.3	7.2	6.0	5.4
Hours .....	7.3	.4	3.8	2.4	4.1	.3	2.3	2.5	3.8	3.4	2.7	2.6
Compensation per hour .....	1.9	7.1	1.4	4.7	5.3	4.4	1.1	2.5	3.1	3.8	4.6	4.0
Real compensation per hour .....	-1.7	3.4	-3.0	.0	.8	-.9	-3.2	-1.4	-.8	-.3	.3	-.8
Unit labor costs .....	-.7	3.2	-2.3	.5	4.0	2.8	-2.5	-.9	-.2	.1	1.3	1.2
<b>Nondurable goods</b>												
Output per hour of all persons .....	-1.1	2.3	3.2	6.8	2.0	3.1	3.0	3.1	2.0	2.7	3.5	3.7
Output .....	3.1	5.1	2.7	7.7	4.8	4.4	6.0	6.4	4.9	4.6	5.0	4.9
Hours .....	4.2	2.7	-.5	.9	2.7	1.3	2.9	3.2	2.9	1.8	1.4	1.1
Compensation per hour .....	2.2	2.9	5.2	4.6	4.7	3.6	2.5	2.8	3.2	3.7	4.3	4.5
Real compensation per hour .....	-1.4	-.7	.6	-.1	.2	-1.7	-1.8	-1.1	-.7	-.4	.0	-.2
Unit labor costs .....	3.4	.6	2.0	-2.0	2.6	.5	-.5	-.3	1.1	1.0	.8	.8
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-.1	4.3	-1.6	-.8	.2	-1.3	1.6	3.0	1.8	.4	.5	-.9
Output .....	4.7	7.2	3.0	2.5	4.5	1.4	5.6	6.7	5.9	4.3	4.3	2.8
Hours .....	4.8	2.8	4.7	3.3	4.2	2.7	3.9	3.6	4.1	3.9	3.7	3.7
Compensation per hour .....	5.2	3.0	4.2	5.5	4.6	5.2	3.4	3.8	4.1	4.5	4.3	4.9
Real compensation per hour .....	1.5	-.6	-.3	.8	.1	-.2	-.9	-.2	.2	.3	.0	.1
Total unit costs .....	4.2	-1.0	5.3	6.3	4.2	6.6	1.9	1.0	2.1	3.7	3.7	5.6
Unit labor costs .....	5.3	-1.2	5.9	6.4	4.3	6.5	1.8	.8	2.3	4.0	3.8	5.8
Unit nonlabor costs .....	1.3	-.3	3.7	6.1	3.8	6.8	2.2	1.5	1.4	2.7	3.3	5.1
Unit profits .....	-21.5	13.8	.3	-8.9	14.1	-27.8	-1.1	3.1	2.2	-5.0	4.3	-6.9
Implicit price deflator .....	1.5	.3	4.8	4.8	5.0	3.0	1.6	1.2	2.1	2.8	3.7	4.4

NOTE: Beginning in August, the hours measures used in the productivity and costs series will be based on hours at work. Until this time, data based on hours paid have been used. The difference between

hours paid and hours at work is hours of paid vacation, holidays, and sick leave. The new series will be carried back to 1947.

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Alabama</b> .....	1,872.8	1,892.1	1,906.9	121.7	126.1	119.2	6.5	6.7	6.3
Birmingham .....	434.7	440.8	444.3	23.7	24.8	23.1	5.4	5.6	5.2
Huntsville .....	131.5	134.8	137.1	6.1	6.0	5.7	4.6	4.5	4.2
Mobile .....	207.6	209.1	209.6	17.1	18.0	16.5	8.2	8.6	7.9
Montgomery .....	136.5	136.9	138.2	8.3	7.9	8.3	6.1	5.8	6.0
Tuscaloosa .....	69.1	71.7	72.3	3.5	3.6	3.9	5.0	5.0	5.3
<b>Alaska</b> .....	241.9	236.0	240.2	24.1	20.1	18.6	10.0	8.5	7.7
<b>Arizona</b> .....	1,659.4	1,705.1	1,742.0	109.0	91.9	80.7	6.6	5.4	4.6
Phoenix .....	1,033.0	1,056.1	1,079.6	54.2	46.7	40.4	5.2	4.4	3.7
Tucson .....	313.6	323.6	330.2	16.9	15.0	12.9	5.4	4.6	3.9
<b>Arkansas</b> .....	1,121.7	1,159.1	1,176.1	92.8	101.3	94.3	8.3	8.7	8.0
Fayetteville-Springdale .....	60.9	63.2	63.9	2.6	2.8	2.7	4.3	4.4	4.2
Fort Smith .....	93.0	93.9	94.6	5.9	8.3	7.9	6.3	8.9	8.4
Little Rock-North Little Rock .....	263.0	274.0	278.2	18.5	20.8	20.2	7.0	7.6	7.3
Pine Bluff .....	37.1	38.7	39.1	3.2	3.6	3.4	8.7	9.4	8.6
<b>California</b> <sup>1</sup> .....	13,980.7	14,051.5	14,259.3	810.0	723.6	735.5	5.8	5.1	5.2
Anaheim-Santa Ana .....	1,344.9	1,358.3	1,373.7	44.8	40.7	42.1	3.3	3.0	3.1
Bakersfield .....	230.9	227.4	231.2	25.3	24.3	22.3	11.0	10.7	9.6
Fresno .....	310.2	305.6	309.9	37.6	32.8	30.1	12.1	10.7	9.7
Los Angeles-Long Beach .....	4,078.4	4,098.9	4,141.9	212.4	177.7	191.3	5.2	4.3	4.6
Modesto .....	182.1	151.9	164.0	23.7	20.7	21.7	14.6	13.6	13.2
Oakland .....	1,060.5	1,081.5	1,097.3	55.7	47.3	49.7	5.2	4.4	4.5
Oxnard-Ventura .....	351.6	358.2	362.8	18.5	16.0	17.2	5.3	4.5	4.7
Riverside-San Bernardino .....	944.1	950.4	966.0	59.7	53.7	57.2	6.3	5.7	5.9
Sacramento .....	698.4	717.5	728.9	42.1	37.0	37.6	6.0	5.2	5.2
San Diego .....	1,113.8	1,147.1	1,159.7	52.9	44.8	47.5	4.7	3.9	4.1
San Francisco .....	876.4	875.6	889.4	34.9	29.8	31.1	4.0	3.4	3.5
San Jose .....	836.0	833.5	842.2	37.2	33.1	33.9	4.5	4.0	4.0
Santa Barbara-Santa Maria-Lompoc .....	179.6	178.0	181.1	8.4	7.4	7.7	4.7	4.2	4.2
Santa Rosa-Petaluma .....	192.7	191.6	194.1	10.1	9.1	8.9	5.2	4.7	4.6
Stockton .....	203.7	193.5	203.0	21.2	19.7	19.7	10.4	10.2	9.7
Vallejo-Fairfield-Napa .....	191.0	193.4	197.3	11.5	10.5	10.5	6.0	5.4	5.3
<b>Colorado</b> .....	1,667.9	1,633.1	1,640.0	105.2	110.7	99.5	6.2	6.8	6.1
Boulder-Longmont .....	130.5	125.8	127.0	5.7	6.7	5.9	4.4	5.3	4.7
Denver .....	878.5	836.2	845.7	50.0	50.9	47.8	5.7	6.1	5.6
<b>Connecticut</b> .....	1,772.8	1,779.9	1,782.3	42.8	51.3	51.7	2.4	2.9	2.9
Bridgeport-Milford .....	234.8	234.6	234.8	7.0	8.7	8.8	3.0	3.7	3.7
Hartford .....	430.9	432.1	431.7	9.4	11.0	11.3	2.2	2.5	2.6
New Britain .....	72.8	73.6	73.7	1.8	2.5	2.4	2.4	3.3	3.2
New Haven-Meriden .....	278.5	281.1	282.9	6.4	7.5	7.9	2.3	2.7	2.8
Stamford .....	117.3	116.5	118.2	2.0	2.5	2.4	1.7	2.1	2.0
Waterbury .....	100.4	102.8	102.3	3.0	3.8	3.8	3.0	3.7	3.7
<b>Delaware</b> .....	348.0	355.6	357.1	9.7	10.4	10.6	2.8	2.9	3.0
Wilmington .....	300.3	305.4	304.7	10.0	9.3	9.5	3.3	3.1	3.1
<b>District of Columbia</b> .....	333.5	327.4	325.1	16.1	20.1	17.8	4.8	6.1	5.5
Washington .....	2,191.4	2,230.0	2,239.5	63.9	60.4	61.1	2.9	2.7	2.7
<b>Florida</b> <sup>1</sup> .....	6,114.6	6,196.7	6,247.2	288.7	316.4	386.5	4.7	5.1	6.2
Daytona Beach .....	153.2	155.6	155.3	6.6	8.6	9.4	4.3	5.5	6.1
Fort Lauderdale-Hollywood-Pompano Beach .....	634.9	639.4	641.6	25.9	31.2	37.6	4.1	4.9	5.9
Fort Myers-Cape Coral .....	139.7	147.3	146.8	4.8	5.6	6.1	3.4	3.8	4.2
Jacksonville .....	459.2	458.5	462.9	23.5	24.8	29.5	5.1	5.4	6.4
Melbourne-Titusville-Palm Bay .....	184.0	186.4	189.4	8.9	9.1	11.1	4.8	4.9	5.8
Miami-Hialeah .....	940.7	950.3	959.2	48.3	57.7	68.4	5.1	6.1	7.1
Orlando .....	560.6	585.3	591.5	26.4	27.1	35.4	4.5	4.6	6.0
Pensacola .....	149.8	146.1	148.4	8.8	9.0	10.9	5.8	6.1	7.3
Sarasota .....	122.8	124.3	124.8	3.5	4.4	5.1	2.9	3.6	4.1
Tallahassee .....	130.0	130.5	131.3	5.2	4.9	6.3	4.0	3.7	4.8
Tampa-St. Petersburg-Clearwater .....	999.9	1,002.6	1,014.5	43.3	47.0	57.2	4.3	4.7	5.6
West Palm Beach-Boca Raton-DeLray Beach .....	402.4	429.8	427.5	17.9	21.6	27.4	4.4	5.0	6.4

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>Georgia</b> .....	3,186.4	3,228.9	3,222.1	193.9	176.1	167.4	6.1	5.5	5.2
Athens .....	75.1	76.5	76.5	3.2	3.2	3.2	4.3	4.2	4.2
Atlanta .....	1,507.1	1,520.5	1,522.0	80.5	79.1	74.4	5.3	5.2	4.9
Augusta .....	183.7	182.7	182.2	12.4	10.0	9.5	6.7	5.4	5.2
Columbus .....	102.9	101.8	101.7	7.0	5.5	5.2	6.8	5.4	5.1
Macon-Warner Robins .....	132.1	133.4	133.7	8.1	6.2	6.8	6.1	4.7	5.1
Savannah .....	115.1	113.2	113.1	8.3	6.1	5.5	7.2	5.4	4.9
<b>Hawaii</b> .....	515.5	514.0	521.0	17.5	17.1	16.6	3.4	3.3	3.2
Honolulu .....	383.5	379.0	384.3	11.7	11.0	11.0	3.1	2.9	2.9
<b>Idaho</b> .....	477.5	485.8	488.3	26.1	26.1	24.2	5.9	5.4	5.0
Boise City .....	104.4	111.5	111.0	4.1	3.7	3.8	3.9	3.3	3.4
<b>Illinois</b> <sup>1</sup> .....	5,699.7	5,880.5	5,877.8	392.4	336.9	348.0	6.9	5.7	5.9
Aurora-Elgin .....	176.0	185.5	187.2	8.8	8.7	9.2	5.0	4.7	4.9
Bloomington-Normal .....	68.0	72.8	71.5	3.6	3.4	3.4	5.4	4.6	4.7
Champaign-Urbana-Rantoul .....	68.9	92.3	91.7	3.5	3.5	3.5	4.0	3.8	3.8
Chicago .....	3,137.8	3,230.6	3,239.5	205.8	171.8	182.6	6.6	5.3	5.6
Davenport-Rock Island-Moline .....	179.4	181.7	179.8	13.0	10.6	10.8	7.3	5.9	6.0
Decatur .....	57.9	59.5	59.1	5.2	4.2	4.2	9.0	7.0	7.1
Joliet .....	192.2	197.0	197.6	14.8	12.3	13.1	7.7	6.3	6.8
Kankakee .....	43.9	45.1	45.3	4.3	3.6	3.5	9.8	8.0	7.7
Lake County .....	273.4	287.2	289.1	11.6	10.5	10.7	4.2	3.6	3.7
Peoria .....	153.6	159.4	159.4	10.5	8.9	9.2	6.8	5.6	5.7
Rockford .....	146.5	149.1	147.6	10.7	8.7	8.5	7.3	5.9	5.7
Springfield .....	107.2	110.4	110.2	5.3	5.0	5.1	4.9	4.5	4.6
<b>Indiana</b> .....	2,837.6	2,877.3	2,935.7	137.1	114.9	117.0	4.8	4.0	4.0
Anderson .....	59.7	80.5	81.7	3.3	2.4	2.9	5.5	4.0	4.6
Bloomington .....	61.3	85.5	86.6	2.1	1.6	2.1	3.5	2.4	3.2
Elkhart-Goshen .....	97.6	99.9	102.4	3.3	3.3	4.1	3.4	3.3	4.0
Evansville .....	143.8	146.6	148.2	8.9	6.9	6.5	6.2	4.7	4.4
Fort Wayne .....	199.1	204.1	207.0	8.8	7.1	6.9	4.4	3.5	3.3
Gary-Hammond .....	266.6	283.4	267.4	15.6	12.3	12.0	5.8	4.7	4.5
Indianapolis .....	675.4	691.3	707.3	28.3	22.9	23.9	4.2	3.3	3.4
Lafayette-West Lafayette .....	68.3	68.7	70.2	2.2	1.7	2.1	3.2	2.4	3.0
Muncie .....	61.5	62.2	62.5	3.2	2.6	2.6	5.2	4.2	4.1
South Bend-Mishawaka .....	131.5	134.8	137.1	5.7	5.0	5.0	4.4	3.7	3.7
Terre Haute .....	59.8	61.0	60.9	3.6	2.7	2.6	6.0	4.5	4.2
<b>Iowa</b> .....	1,502.5	1,530.8	1,530.0	85.5	58.0	54.8	4.4	3.8	3.6
Cedar Rapids .....	95.3	97.4	97.1	3.5	3.1	3.2	3.7	3.2	3.3
Des Moines .....	229.4	236.9	236.0	8.2	7.9	7.9	3.6	3.3	3.4
Dubuque .....	44.2	45.0	44.6	2.3	2.3	2.2	5.3	5.1	4.9
Sioux City .....	60.2	60.7	60.2	3.3	2.3	2.1	5.4	3.8	3.5
Waterloo-Cedar Falls .....	70.6	72.9	72.2	4.3	3.5	3.3	6.1	4.8	4.5
<b>Kansas</b> .....	1,272.3	1,292.5	1,283.7	59.0	50.9	52.1	4.6	3.9	4.1
Topeka .....	91.5	94.1	92.6	4.0	3.7	4.0	4.3	3.9	4.4
Wichita .....	251.8	259.7	258.4	12.7	10.4	10.6	5.0	4.0	4.1
<b>Kentucky</b> .....	1,735.8	1,721.8	1,737.8	146.0	117.1	114.7	8.4	6.8	6.6
Lexington-Fayette .....	197.6	201.3	202.9	9.5	8.4	7.6	4.8	4.1	3.7
Louisville .....	510.3	509.7	514.5	33.0	27.1	27.8	6.5	5.3	5.4
Owensboro .....	44.4	43.7	44.5	4.0	2.8	3.1	9.1	6.4	7.1
<b>Louisiana</b> .....	1,933.7	1,907.8	1,895.5	210.0	183.0	178.0	10.9	9.6	9.4
Alexandria .....	60.3	59.9	59.8	6.0	5.7	5.6	9.9	9.5	9.3
Baton Rouge .....	272.7	269.3	266.8	24.2	20.9	21.1	8.9	7.8	7.9
Houma-Thibodaux .....	71.8	70.5	69.7	8.3	7.1	6.4	11.7	10.0	9.1
Lafayette .....	99.3	99.7	99.3	9.6	8.3	8.2	9.6	8.3	8.3
Monroe .....	69.5	67.6	66.9	7.1	6.2	5.9	10.2	9.2	8.8
New Orleans .....	600.5	596.0	592.2	58.1	50.4	50.2	9.7	8.4	8.5
Shreveport .....	184.6	158.9	157.9	17.3	15.8	15.0	10.5	9.9	9.5
<b>Maine</b> .....	591.0	599.1	601.5	21.6	25.9	23.0	3.6	4.3	3.8
Lewiston-Auburn .....	41.8	41.7	41.4	1.6	2.1	2.0	3.8	5.0	4.8
Portland .....	128.2	129.5	128.9	2.5	2.9	2.5	2.0	2.2	1.9

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		
	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>	May 1988	Apr. 1989	May 1989 <sup>P</sup>
<b>Maryland</b> .....	2,451.7	2,497.3	2,509.9	114.7	94.2	94.9	4.7	3.8	3.8
Baltimore .....	1,177.7	1,193.8	1,200.4	60.2	49.5	50.0	5.1	4.1	4.2
<b>Massachusetts<sup>1</sup></b> .....	3,103.1	3,178.4	3,189.5	83.7	117.8	107.9	2.7	3.7	3.4
Boston .....	1,539.0	1,568.2	1,562.7	36.1	49.0	45.9	2.3	3.1	2.9
Brockton .....	96.7	100.7	100.2	3.2	4.3	4.0	3.3	4.3	4.0
Fall River .....	75.6	77.2	78.5	3.3	4.5	3.7	4.3	5.8	4.8
Fitchburg-Leominster .....	47.9	48.0	47.9	1.4	2.4	2.3	3.0	5.0	4.8
Lawrence-Haverhill .....	186.8	190.0	189.0	6.4	8.8	8.6	3.4	4.6	4.8
Lowell .....	151.1	155.6	155.2	4.3	6.2	6.1	2.8	4.0	3.9
New Bedford .....	84.1	87.8	87.5	3.4	4.8	4.3	4.0	5.5	4.9
Pittsfield .....	39.6	40.5	40.6	1.8	2.1	1.6	4.0	5.1	4.1
Springfield .....	248.3	253.7	252.0	6.8	9.4	8.7	2.7	3.7	3.5
Worcester .....	219.6	230.8	229.2	5.8	8.0	7.3	2.5	3.4	3.2
<b>Michigan<sup>1</sup></b> .....	4,525.2	4,537.0	4,578.2	298.2	277.8	293.1	6.5	8.1	6.4
Ann Arbor .....	180.8	185.2	183.9	5.5	4.9	5.5	3.4	3.0	3.3
Battle Creek .....	63.6	64.0	63.9	4.0	3.8	4.2	6.2	6.0	6.8
Benton Harbor .....	78.6	79.1	80.0	4.8	4.8	5.4	5.9	6.1	6.8
Detroit .....	2,173.3	2,172.4	2,200.9	146.1	128.3	142.8	6.7	5.9	6.5
Flint .....	192.3	184.4	185.5	26.0	16.1	16.7	13.5	8.7	9.0
Grand Rapids .....	356.2	361.3	362.6	15.5	16.3	16.7	4.3	4.5	4.6
Jackson .....	63.8	65.4	65.8	3.8	3.9	4.1	6.0	5.9	6.3
Kalamazoo .....	114.9	118.3	116.6	4.6	5.1	5.3	4.0	4.3	4.5
Lansing-East Lansing .....	242.5	241.9	244.0	11.4	11.3	11.5	4.7	4.7	4.7
Muskegon .....	87.8	86.3	87.3	5.2	5.2	5.8	7.6	7.8	8.6
Saginaw-Bay City-Midland .....	181.2	180.4	181.3	11.7	11.1	11.5	6.4	6.1	6.4
<b>Minnesota</b> .....	2,315.1	2,300.2	2,312.5	85.8	108.9	100.2	3.7	4.7	4.3
Duluth .....	106.8	106.3	106.9	8.5	6.9	6.4	6.0	6.5	6.0
Minneapolis-St.Paul .....	1,372.0	1,371.1	1,380.2	44.0	52.6	53.1	3.2	3.8	3.8
Rochester .....	59.7	60.2	60.8	1.6	1.8	1.8	2.6	3.1	2.9
St. Cloud .....	95.8	95.8	94.5	3.8	5.8	4.7	3.8	6.0	5.0
<b>Mississippi</b> .....	1,123.3	1,145.2	1,157.0	73.3	90.6	93.9	6.5	7.9	8.1
Jackson .....	198.0	199.9	201.9	9.1	10.7	11.2	4.7	5.3	5.8
<b>Missouri</b> .....	2,599.1	2,601.0	2,606.4	149.6	133.8	130.6	5.8	5.1	5.0
Kansas City .....	839.9	851.9	845.2	45.0	40.5	39.8	5.4	4.8	4.7
St. Louis LMA .....	1,250.1	1,257.3	1,256.2	77.1	64.9	65.8	6.2	5.2	5.2
Springfield .....	123.0	126.1	124.7	5.4	5.3	5.3	4.4	4.2	4.3
<b>Montana</b> .....	400.9	398.6	402.5	28.9	24.1	22.1	7.2	8.1	5.5
<b>Nebraska</b> .....	813.1	816.9	813.2	26.9	23.2	20.6	3.3	2.8	2.5
Lincoln .....	126.7	127.5	127.0	4.2	2.9	2.9	3.3	2.3	2.3
Omaha .....	323.7	328.4	326.1	11.7	10.5	9.7	3.6	3.2	3.0
<b>Nevada</b> .....	584.9	607.7	610.9	31.2	31.7	30.3	5.3	5.2	5.0
Las Vegas .....	340.9	358.6	359.8	19.4	19.1	18.3	5.7	5.3	5.1
Reno .....	140.4	142.2	143.0	6.6	6.8	6.5	4.7	4.8	4.6
<b>New Hampshire</b> .....	601.0	607.2	617.3	13.8	18.6	17.7	2.3	2.7	2.9
Manchester .....	85.3	85.8	86.4	1.6	2.0	2.3	1.9	2.3	2.7
Nashua .....	100.2	99.1	100.1	2.7	2.8	3.1	2.7	2.8	3.1
Portsmouth-Dover-Rochester .....	133.6	132.5	134.4	2.2	2.6	2.7	1.7	2.0	2.0
<b>New Jersey<sup>1</sup></b> .....	3,965.5	3,960.2	3,972.1	148.8	142.5	120.0	3.8	3.6	3.0
Atlantic City .....	175.8	174.8	179.0	9.0	8.6	8.7	5.1	4.9	3.8
Bergen-Passaic .....	717.5	717.4	719.5	22.8	23.2	19.9	3.2	3.2	2.8
Jersey City .....	269.4	268.3	285.9	18.3	16.2	13.5	6.8	6.0	5.1
Middlesex-Somerset-Hunterdon .....	559.4	567.1	568.6	14.9	13.8	12.0	2.7	2.4	2.1
Monmouth-Ocean .....	476.0	473.9	481.9	15.0	15.1	12.8	3.1	3.2	2.7
Newark .....	951.7	948.2	948.8	37.2	36.3	30.1	3.9	3.8	3.2
Trenton .....	172.4	171.8	171.9	4.5	4.8	4.0	2.6	2.8	2.3
Vineland-Milville-Bridgeton .....	57.8	58.0	58.2	4.0	3.9	3.1	7.0	6.7	5.4
<b>New Mexico</b> .....	684.7	683.7	691.3	56.7	48.0	44.6	8.3	7.0	6.5
Albuquerque .....	263.0	262.1	263.8	16.0	14.1	12.9	6.1	5.4	4.9
Las Cruces .....	55.8	54.9	56.7	4.2	3.8	3.7	7.6	7.0	6.5
Santa Fe .....	66.1	64.8	66.3	3.7	2.7	2.7	5.6	4.2	4.0

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>	May 1988	Apr. 1989	May 1989 <sup>a</sup>
<b>New York<sup>1</sup></b> .....	8,284.2	8,646.5	8,587.0	341.0	480.1	447.6	4.1	5.6	5.2
Albany-Schenectady-Troy .....	410.3	431.8	428.6	14.8	20.6	17.7	3.8	4.8	4.1
Binghamton .....	124.1	129.3	127.9	4.5	7.1	6.5	3.6	5.5	5.1
Buffalo .....	437.6	455.6	455.0	21.4	30.4	27.6	4.9	6.7	6.1
Elmira .....	40.7	43.7	43.6	1.8	2.1	2.0	3.9	4.9	4.5
Nassau-Suffolk .....	1,393.3	1,445.8	1,440.4	42.8	61.5	61.3	3.1	4.3	4.3
New York .....	3,601.5	3,943.2	3,906.1	187.2	222.8	218.2	4.4	5.7	5.5
New York City .....	3,141.0	3,261.9	3,226.3	149.3	195.4	190.0	4.8	6.0	5.9
Orange County .....	129.6	136.9	136.6	4.1	7.3	6.8	3.2	5.4	5.0
Poughkeepsie .....	125.7	131.3	129.7	3.4	4.9	4.8	2.7	3.7	3.5
Rochester .....	487.4	513.5	511.0	17.9	23.8	21.6	3.7	4.8	4.2
Syracuse .....	306.8	322.7	318.5	13.3	18.1	16.1	4.3	5.6	5.1
Utica-Rome .....	132.0	140.6	138.4	6.0	9.3	7.4	4.5	6.6	5.4
<b>North Carolina<sup>1</sup></b> .....	3,307.6	3,424.0	3,441.4	109.9	136.0	117.7	3.3	4.0	3.4
Asheville .....	67.7	90.4	91.7	2.9	3.0	2.3	3.2	3.3	2.5
Charlotte-Gastonia-Rock Hill .....	625.9	656.0	657.2	18.7	22.9	20.4	3.0	3.5	3.1
Greensboro-Winston-Salem-High Point .....	520.2	534.0	535.6	14.6	19.3	16.0	2.8	3.6	3.4
Raleigh-Durham .....	392.7	414.3	412.7	9.9	11.1	11.4	2.5	2.7	2.8
<b>North Dakota</b> .....	328.6	321.1	328.7	15.1	14.3	12.2	4.6	4.5	3.7
Bismarck .....	44.6	45.1	46.0	2.1	1.8	1.6	4.6	4.1	3.6
Fargo-Moorhead .....	84.2	84.6	86.1	2.3	2.7	2.2	2.7	3.1	2.6
Grand Forks .....	35.2	34.7	35.6	1.6	1.4	1.3	4.5	4.1	3.7
<b>Ohio<sup>1</sup></b> .....	5,289.0	5,357.2	5,419.1	303.1	272.7	276.5	5.6	5.1	5.1
Akron .....	322.4	328.6	331.9	18.8	16.7	16.6	5.8	5.1	5.0
Canton .....	188.7	191.7	194.6	12.5	11.0	11.3	6.8	5.7	5.8
Cincinnati .....	757.6	776.6	788.3	40.4	31.7	34.2	5.3	4.1	4.3
Cleveland .....	922.0	934.6	941.8	50.7	41.4	41.8	5.5	4.4	4.4
Columbus .....	702.5	722.6	731.0	33.0	31.6	32.2	4.7	4.4	4.4
Dayton-Springfield .....	461.6	475.2	478.8	22.0	21.5	22.2	4.8	4.5	4.6
Toledo .....	306.4	315.3	318.7	16.9	16.9	17.2	5.5	5.4	5.4
Youngstown-Warren .....	220.2	222.1	225.3	15.0	13.8	13.6	6.8	6.2	6.0
<b>Oklahoma</b> .....	1,524.2	1,501.6	1,513.5	107.2	86.8	90.0	7.0	5.8	5.9
Enid .....	28.7	27.5	27.6	1.8	1.2	1.3	6.2	4.5	4.7
Lawton .....	49.2	48.1	48.8	3.1	2.4	2.5	6.2	5.0	5.0
Oklahoma City .....	494.9	485.9	488.7	28.6	24.1	24.2	5.6	5.0	5.0
Tulsa .....	337.4	335.6	339.0	26.9	19.7	21.5	8.0	5.9	6.3
<b>Oregon</b> .....	1,398.7	1,456.2	1,452.1	84.8	81.8	75.8	6.0	5.6	5.2
Eugene-Springfield .....	140.6	147.2	146.7	7.8	7.5	7.0	5.6	5.1	4.8
Portland .....	636.4	666.7	664.0	32.0	28.5	26.8	5.0	4.3	4.0
Salem .....	129.7	135.8	135.1	8.2	8.1	7.3	6.3	6.0	5.4
<b>Pennsylvania<sup>1</sup></b> .....	5,661.2	5,640.1	5,654.3	280.8	234.4	255.9	5.0	4.0	4.4
Allentown-Bethlehem .....	319.8	331.4	334.2	13.1	12.4	13.9	4.1	3.7	4.1
Altoona .....	58.2	60.0	59.7	4.0	3.4	3.4	6.8	5.6	5.7
Beaver County .....	59.5	59.2	59.4	5.5	4.1	4.1	9.2	8.9	6.9
Erie .....	127.7	132.4	132.5	7.7	6.4	6.4	8.1	4.9	4.8
Harrisburg-Lebanon-Carlisle .....	314.1	324.7	328.6	12.2	9.9	12.5	3.9	3.1	3.8
Johnstown .....	92.7	95.1	96.2	6.5	5.6	6.1	7.0	5.9	6.4
Lancaster .....	215.3	223.9	225.9	7.5	5.7	6.8	3.5	2.5	3.0
Philadelphia .....	2,380.5	2,432.9	2,425.6	99.7	82.2	85.8	4.2	3.4	3.5
Pittsburgh .....	943.5	974.8	973.6	51.6	41.8	42.9	5.5	4.3	4.4
Reading .....	170.2	177.4	179.1	8.3	8.6	8.0	4.9	3.7	4.5
Scranton-Wilkes-Barre .....	349.2	360.5	361.9	19.6	16.7	18.6	5.6	4.6	5.2
Williamsport .....	57.5	60.6	60.9	2.8	3.4	3.5	4.9	5.6	5.7
York .....	214.3	222.8	224.3	9.2	7.5	8.9	4.3	3.4	4.0
<b>Rhode Island</b> .....	522.8	536.4	534.3	16.5	22.1	22.3	3.2	4.1	4.2
Pawtucket-Woonsocket-Attleboro .....	185.5	189.3	168.5	6.0	8.2	8.1	3.6	4.9	4.8
Providence .....	340.9	351.4	349.1	10.5	14.0	14.3	3.1	4.0	4.1
<b>South Carolina</b> .....	1,690.1	1,718.4	1,724.9	81.3	88.8	63.8	4.8	4.0	3.7
Charleston .....	231.9	235.3	239.7	9.7	7.8	8.0	4.2	3.3	3.3
Columbia .....	237.7	243.1	244.1	8.3	7.7	6.8	3.5	3.2	2.8
Greenville-Spartanburg .....	336.3	347.0	347.8	12.0	10.8	9.9	3.6	3.1	2.8
<b>South Dakota</b> .....	361.3	358.2	366.8	13.5	12.6	13.7	3.7	3.5	3.7
Rapid City .....	39.5	38.9	40.2	1.5	1.4	1.6	3.7	3.7	3.9
Sioux Falls .....	74.0	73.7	74.6	2.9	2.2	2.3	3.9	3.0	3.1

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1988	Apr. 1989	May 1989 <sup>p</sup>	May 1988	Apr. 1989	May 1989 <sup>p</sup>	May 1988	Apr. 1989	May 1989 <sup>p</sup>
<b>Tennessee</b> .....	2,351.0	2,357.6	2,345.3	125.7	126.6	128.0	5.3	5.4	5.5
Chattanooga .....	213.7	216.2	218.0	11.7	13.2	11.9	5.5	6.1	5.4
Johnson City-Kingsport-Bristol .....	215.4	215.0	215.2	11.4	9.7	11.1	5.3	4.5	5.2
Knoxville .....	285.8	282.5	281.5	14.0	16.2	15.6	4.9	5.7	5.6
Memphis LMA .....	440.7	449.1	448.5	21.6	22.2	23.8	4.9	4.9	5.3
Nashville .....	525.3	518.3	513.8	21.7	21.3	21.6	4.1	4.1	4.2
<b>Texas<sup>1</sup></b> .....	8,300.0	8,242.0	8,233.2	602.1	575.9	489.4	7.3	7.0	5.9
Abilene .....	53.2	53.5	53.1	3.6	3.7	3.1	6.7	6.8	5.9
Amarillo .....	99.7	96.9	98.7	5.8	5.7	4.7	5.8	5.8	4.9
Austin .....	430.6	420.6	420.0	26.5	23.7	21.1	6.1	5.6	5.0
Beaumont-Port Arthur .....	163.3	161.6	161.3	16.9	15.6	13.6	10.4	9.8	8.4
Brazoria .....	82.0	83.4	83.9	6.8	5.9	5.3	8.2	7.1	6.3
Brownsville-Harlingen .....	97.5	99.3	98.5	12.7	11.8	10.3	13.0	11.9	10.5
Bryan-College Station .....	58.2	60.3	60.5	2.6	2.7	2.5	4.4	4.5	4.1
Corpus Christi .....	161.9	158.2	157.5	16.1	14.1	12.1	9.9	8.9	7.7
Dallas .....	1,459.2	1,430.8	1,432.5	84.4	80.0	68.5	5.8	5.8	4.8
El Paso .....	240.6	239.2	238.3	24.6	24.7	21.5	10.2	10.3	9.0
Fort Worth-Arlington .....	688.5	683.0	682.8	43.6	39.4	33.7	8.3	5.8	4.9
Galveston-Texas City .....	109.9	105.6	106.1	9.8	7.9	7.3	8.9	7.4	6.9
Houston .....	1,610.7	1,622.9	1,623.3	113.5	100.0	85.9	7.0	6.2	5.3
Killeen-Temple .....	94.0	95.6	95.4	7.2	7.6	8.3	7.6	8.0	6.6
Laredo .....	46.7	49.0	47.6	5.9	6.7	4.9	12.7	13.8	10.2
Longview-Marshall .....	79.3	78.8	78.0	6.8	7.4	6.1	8.5	9.4	7.8
Lubbock .....	113.9	112.8	113.2	6.2	5.6	4.8	5.4	5.0	4.3
McAllen-Edinburg-Mission .....	151.5	158.7	154.1	22.6	26.5	20.3	14.9	18.7	13.2
Midland .....	49.4	48.4	48.5	3.0	2.9	2.8	8.0	8.1	5.7
Odessa .....	53.6	51.7	51.3	4.0	4.4	3.9	7.5	8.5	7.6
San Angelo .....	45.3	44.7	44.9	2.7	2.5	2.3	6.0	5.7	5.2
San Antonio .....	609.3	605.0	607.1	48.7	44.6	39.5	8.0	7.4	8.5
Sherman-Denison .....	49.5	47.4	47.1	3.1	3.1	2.4	8.2	8.5	5.1
Texarkana .....	57.5	57.5	57.8	5.0	4.7	4.1	8.7	8.2	7.0
Tyler .....	75.0	74.6	74.3	5.6	5.2	4.7	7.5	7.0	6.4
Victoria .....	36.3	35.6	35.6	2.6	2.3	2.0	7.1	6.6	5.5
Waco .....	92.5	92.1	91.9	6.6	5.2	4.6	7.1	5.7	5.0
Wichita Falls .....	57.7	56.4	56.6	3.6	3.3	3.2	6.2	5.9	5.7
<b>Utah</b> .....	744.8	768.1	767.5	37.2	39.0	39.4	5.0	5.1	5.1
Provo-Orem .....	98.9	108.0	105.1	4.2	4.7	4.4	4.2	4.4	4.2
Salt Lake City-Ogden .....	488.7	501.1	501.7	22.8	24.2	24.6	4.7	4.8	4.9
<b>Vermont</b> .....	294.6	301.5	303.7	7.6	12.8	10.8	2.6	4.2	3.6
Burlington .....	75.8	75.8	75.9	1.4	2.0	2.1	1.8	2.6	2.8
<b>Virginia</b> .....	3,107.3	3,084.7	3,105.2	110.3	101.0	106.3	3.5	3.3	3.4
Charlottesville .....	67.8	67.5	68.3	1.5	1.5	2.0	2.2	2.3	2.9
Danville .....	52.7	52.3	53.0	3.4	3.0	3.1	8.4	5.6	5.8
Lynchburg .....	71.3	70.0	70.8	3.3	2.4	2.7	4.6	3.4	3.9
Norfolk-Virginia Beach-Newport News .....	815.0	603.4	608.1	25.1	23.9	24.8	4.1	4.0	4.1
Richmond-Petersburg .....	444.8	451.9	450.7	14.4	14.6	14.8	3.2	3.2	3.3
Roanoke .....	122.8	120.5	121.0	4.6	3.8	3.8	3.7	3.2	3.2
<b>Washington</b> .....	2,279.2	2,392.8	2,440.1	135.8	142.6	132.2	6.0	6.0	5.4
Seattle .....	1,010.9	1,076.8	1,099.4	49.1	48.9	49.1	4.9	4.5	4.5
<b>West Virginia</b> .....	754.9	756.1	766.1	77.4	61.4	62.0	10.2	8.1	8.1
Charleston .....	116.5	118.4	120.2	10.2	8.1	8.3	8.8	6.8	6.9
Huntington-Ashland .....	126.5	127.3	129.0	10.9	8.5	8.7	8.6	6.7	6.8
Parkersburg-Marietta .....	70.8	72.1	73.0	5.0	4.4	4.6	7.1	6.1	6.4
Wheeling .....	73.1	71.9	72.8	6.1	4.8	4.5	8.3	6.7	8.2
<b>Wisconsin</b> .....	2,572.5	2,607.0	2,619.8	103.8	111.1	114.7	4.0	4.3	4.4
Appleton-Oshkosh-Neenah .....	170.7	174.5	174.4	6.4	7.4	7.3	3.8	4.2	4.2
Eau Claire .....	73.4	74.6	74.8	2.9	3.3	2.9	3.9	4.4	4.0
Green Bay .....	106.5	109.4	109.7	4.4	4.2	4.7	4.1	3.8	4.2
Janesville-Beloit .....	73.7	74.5	74.7	3.3	3.6	4.6	4.5	4.8	6.1
Kenosha .....	56.0	54.3	55.0	2.3	4.6	4.9	4.1	8.6	8.9
La Crosse .....	57.1	59.7	60.2	1.8	2.2	2.2	3.1	3.7	3.6
Madison .....	222.8	226.2	226.6	5.6	5.3	5.6	2.5	2.3	2.5
Milwaukee .....	758.3	774.1	778.5	28.3	26.8	30.6	3.7	3.5	3.9
Racine .....	89.1	91.8	92.6	3.7	4.3	4.6	4.2	4.7	5.0
Wausau .....	61.7	83.2	64.2	2.6	2.9	2.9	4.2	4.6	4.5
<b>Wyoming</b> .....	232.5	222.8	224.5	13.1	13.2	13.6	5.6	5.9	6.0

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Data refer to place of residence. Estimates for 1988 have been

benchmarked to 1988 Current Population Survey annual averages. Except in the 11 States designated by footnote 1, estimates for 1989 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 over about 55,800 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 received 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 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 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: A Databook*, BLS Bulletin 2096.

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 55,800 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 55,800 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 ori-

gin 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 noninstitutional 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-

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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.

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 present . . . . .	729	53,200	2,600	11,500

<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.

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

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 =

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

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 143 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 1987 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 1987 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	Bench- marks (thou- sands)	Sample coverage <sup>1</sup>		
		Number of establish- ments	Employees (thou- sands)	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>3</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 data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

### CONCEPTS

*Hours* of wage and salary workers in nonagricultural establishments refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers.

*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 measure changes in the volume of goods and services produced per paid hour of labor input.

*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 to eliminate the effect of changes in 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, depreciation, interest, and indirect taxes per unit of output. They are com-

puted by subtracting compensation of all persons from the current-dollar gross national product 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 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 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.

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 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 and 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

Sub-State monthly labor force and unemployment estimates in over 2,600 labor market areas (LMA's) are prepared in several stages.

*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 (benchmarking) 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 now calculated only for the first 6 months after benchmarking. A second set of projected seasonal adjustment factors, for use during the subsequent period, will be computed based upon data through September and introduced with the publication of data for October. Revisions of historical data for the most recent 5 years will continue to be made once a year, coincident with benchmark revisions, and published in a *Supplement to Employment and Earnings*.

The BLS is also working on an extension to 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 (as well as for the occasional effects of Labor Day in the September survey reference period). If this research proves successful, this extension will be introduced for the computation of the seasonal adjustment factors to be published in November 1989.

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.

Revised seasonally adjusted establishment-based series based on the experience through March 1989, new seasonal adjustment factors for April-September, and a description of the current seasonal adjustment procedure appear in the June 1989 issue of *Employment and Earnings*.

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Bureau of Labor Statistics**

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