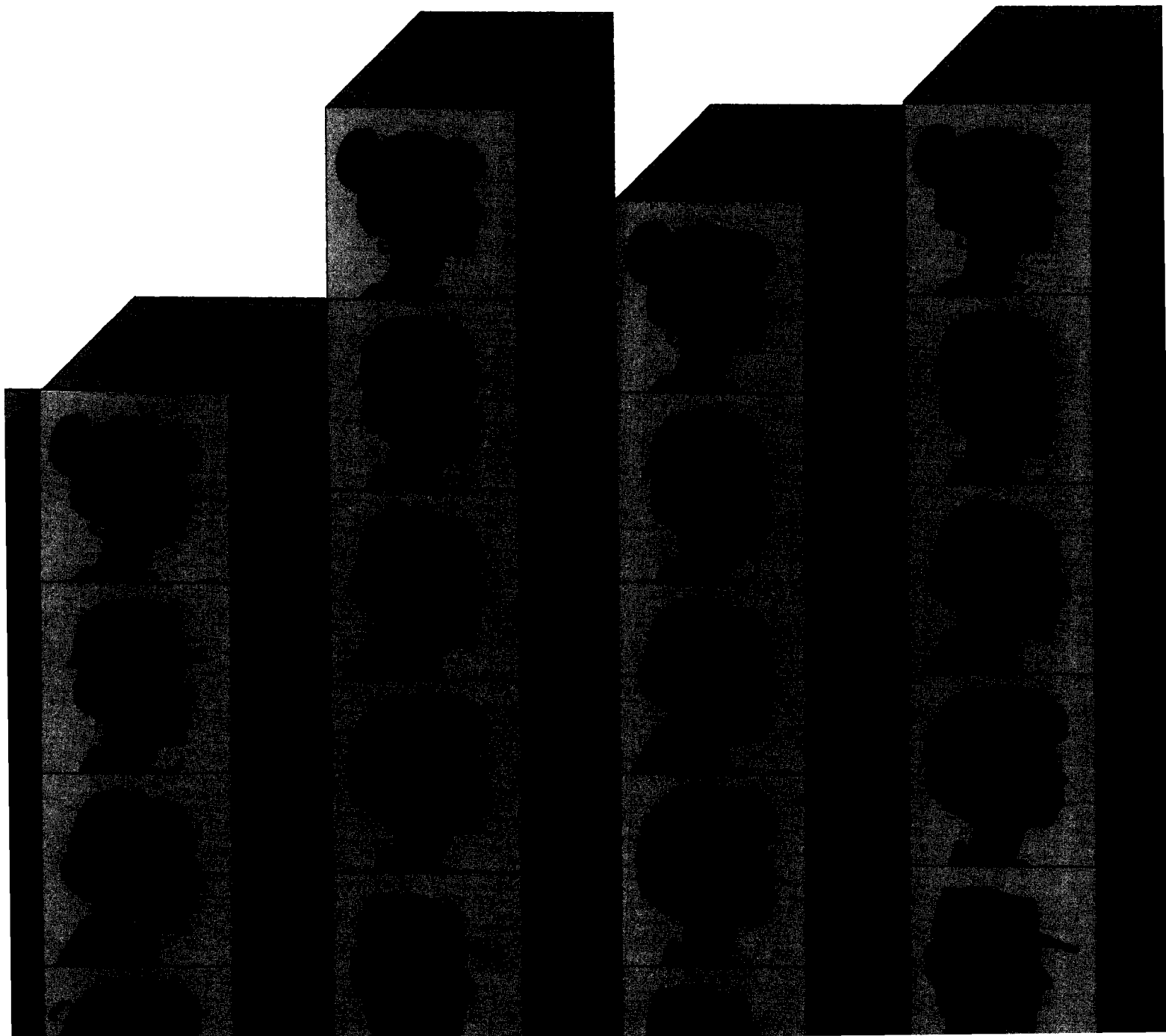


EMPLOYMENT AND EARNINGS

July 1987

U.S. Department of Labor  
Bureau of Labor Statistics





## U.S. DEPARTMENT OF LABOR

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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.

### 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 June 1986.

# Employment and Earnings

Vol. 34 No. 7 July 1987

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Editors: Gloria Peterson Green, Rosalie K. Epstein

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# Employment and Unemployment Developments, June 1987

Employment was little changed in June and unemployment declined. The overall jobless rate was 6.0 percent and the civilian rate was 6.1 percent, each two-tenths of a point below May levels.

Nonagricultural payroll employment—as measured by the survey of business establishments—and total civilian employment—as measured by the survey of households—were about unchanged in June, after seasonal adjustment. Both surveys showed increases of roughly 2-1/2 million over the past year.

## Unemployment

The number of unemployed declined by 285,000 to 7.3 million, and the civilian unemployment rate fell two-tenths of a percentage point to 6.1 percent. The June jobless rate represented an improvement of six-tenths of a point in the first half of 1987 and was at its lowest point since December 1979.

Fewer young people than normal had entered the labor force as of the June survey week, which was unusually early this year. As a consequence, after seasonal adjustment, declines occurred for both youth employment and unemployment. Teenagers accounted for more than two-thirds of the decline in the number of jobseekers. Their jobless rate fell almost 2 percentage points to 15.9 percent, and that for black teenagers was down nearly 6 percentage points to 33.3 percent. There was also a decline in unemployment among adult women, with their rate edging down two-tenths of a point to 5.2 percent. The rate for adult men was unchanged at 5.5 percent.

Unemployment rates for whites (5.2 percent) and Hispanics (8.5 percent) were little changed, but the rate for blacks (12.7 percent) was down about a percentage point. (See tables A-33 and A-34.)

## Civilian employment and the labor force

Civilian employment, following an unusually large rise in the previous month, changed little in June, after seasonal adjustment. Much of the lackluster June employment performance was attributable to agriculture, which picked up less than half of its normal May-to-June employment rise, thus falling by 155,000 on a seasonally adjusted basis. Despite June's weakness, the employment total of 112.3 mil-

lion was 2.6 million higher than a year earlier. (See table A-32.)

After rising in May, the rate of labor force participation returned to the April level of 65.4 percent. Participation rates for adult men and women were each down two-tenths of a percentage point to 78.0 and 56.1 percent, respectively. The rate for teens fell more than 2 points to 53.0 percent. While the labor force declined in June, it has grown by 1.5 million over the past 12 months to a level of 121.2 million.

## Discouraged workers

In the second quarter of 1987, there were about 1.0 million discouraged workers—persons who wanted to work but had not looked for jobs because they believed they could not find any. This was a slight improvement from the 1.1 million in the previous quarter. Two-thirds of these persons cited problems with the job market as their reason for not searching for work, while the rest cited personal factors (such as age or educational deficiencies). Blacks accounted for a disproportionately large share of the discouraged workers—29 percent. (See table A-53.)

## Industry payroll employment

Total nonagricultural payroll employment rose about in line with what is expected for this time of year and, after seasonal adjustment, was about unchanged at 101.8 million in June. This was the second month in a row that there was little job growth in business establishments. The job count was 2.5 million above its year-earlier level, however, with nearly all the growth in the service-producing sector. (See table B-4.)

In June, job growth slowed in the service-producing sector. A small gain occurred in the services industry, most of it in health services. In the goods-producing sector, construction employment remained near its May level after seasonal adjustment. Job gains in the industry this spring have barely kept up with seasonally-expected growth. Employment in mining and its oil and gas extraction component was unchanged from May but has shown small gains thus far in 1987, following large declines in 1986. Manufacturing employment was unchanged over the month, after also posting small gains earlier in the year.

## Weekly hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls edged down 0.1 hour to 34.8 hours, seasonally adjusted. The manufacturing workweek was unchanged at 41.0 hours, and factory overtime inched down by 0.1 hour to 3.7. Both figures have recently been very high by historical standards. (See table C-5.)

The index of aggregate weekly hours of production or non-supervisory workers on private nonagricultural payrolls was virtually unchanged at 120.1 (1977=100) in June, seasonally adjusted. This was nearly 3 percent higher than the June 1986 index. (See table C-6.)

## Hourly and weekly earnings

On a seasonally adjusted basis, average hourly earnings

and average weekly earnings were about unchanged in June. Prior to seasonal adjustment, hourly earnings remained at \$8.93, while weekly earnings were up \$1.79 to \$312.55. (See tables C-1 and C-7.)

## The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 173.1 (1977=100) in June, seasonally adjusted, an increase of 0.2 percent from May. For the 12 months ended in June, the increase was 2.3 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.4 percent during the 12-month period ended in May. (See table 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 7	October	November 6
August	September 4	November	December 4
September	October 2	December	January 8



# 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 1987. The factors which were used for these components during the first 6 months of 1987 were published in the January 1987 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 1987 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 1987, will not be revised until the beginning of 1988. More detailed information on the adjustment method, the procedures for aggregation, and the revision of historical data is included in the January 1987 issue in the article entitled "Revision of Seasonally Adjusted Labor Force Series."

\* Robert J. McIntire is an economist and Chief of the Data Services Group 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 1987 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 Services Group, Bureau of Labor Statistics, Washington, DC 20212.

**Table 1. Current seasonal adjustment factors for the 12 major civilian labor force components, July-December 1987**

Procedure and series	July	Aug.	Sept.	Oct.	Nov.	Dec.
Multiplicative Adjustment (Divide factor into original value)						
Agricultural employment:						
Men, 20 years and over . . .	1.091	1.072	1.033	1.021	0.979	0.928
Women, 20 years and over . . .	1.210	1.128	1.052	1.034	.952	.880
Men, 16 to 19 years . . . . .	1.683	1.487	.995	.800	.717	.606
Women, 16 to 19 years . . . . .	2.034	1.615	.987	.788	.677	.553
Nonagricultural employment:						
Men, 20 years and over . . . . .	1.008	1.010	1.006	1.007	1.003	1.000
Women, 20 years and over . . . . .	.987	.988	1.003	1.012	1.012	1.011
Unemployment:						
Men, 20 years and over . . . . .	.959	.918	.901	.909	.956	.998
Women, 20 years and over . . . . .	1.026	1.067	1.048	1.015	.963	.895
Additive Adjustment (Subtract factor from original value)						
Nonagricultural employment:						
Men, 16 to 19 years . . . . .	850	566	-152	-149	-163	-204
Women, 16 to 19 years . . . . .	695	515	-178	-111	-113	-66
Unemployment:						
Men, 16 to 19 years . . . . .	158	-47	-56	-56	-39	-45
Women, 16 to 19 years . . . . .	137	0	-1	-23	-39	-106

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1953 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				
Annual averages												
1953 <sup>1</sup> .....	109,287	65,246	59.7	63,410	2,231	61,179	6,260	54,919	1,834	2.8	44,041	
1954 .....	110,463	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,678	
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	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 <sup>1</sup> .....	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963 .....	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964 .....	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982 .....	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983 .....	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984 .....	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839	
1985 .....	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
Monthly data, seasonally adjusted <sup>2</sup>												
<b>1986:</b>												
June .....	182,183	119,685	65.7	111,293	1,680	109,613	3,164	106,449	8,392	7.0	62,498	
July .....	182,354	119,789	65.7	111,559	1,672	109,887	3,124	106,763	8,230	6.9	62,565	
August .....	182,525	119,821	65.6	111,764	1,697	110,067	3,057	107,010	8,057	6.7	62,704	
September .....	182,713	119,988	65.7	111,703	1,716	109,987	3,142	106,845	8,285	6.9	62,725	
October .....	182,935	120,163	65.7	111,941	1,749	110,192	3,162	107,030	8,222	6.8	62,772	
November .....	183,114	120,426	65.8	112,183	1,751	110,432	3,215	107,217	8,243	6.8	62,688	
December .....	183,297	120,336	65.7	112,387	1,750	110,637	3,161	107,476	7,949	6.6	62,961	
<b>1987:</b>												
January .....	183,575	120,782	65.8	112,759	1,748	111,011	3,145	107,866	8,023	6.6	62,793	
February .....	183,738	121,089	65.9	113,122	1,740	111,382	3,236	108,146	7,967	6.6	62,649	
March .....	183,915	120,958	65.8	113,104	1,736	111,368	3,284	108,084	7,854	6.5	62,957	
April .....	184,079	121,070	65.8	113,570	1,735	111,835	3,290	108,545	7,500	6.2	63,009	
May .....	184,259	121,719	66.1	114,173	1,726	112,447	3,335	109,112	7,546	6.2	62,540	
June .....	184,421	121,235	65.7	113,975	1,718	112,257	3,178	109,079	7,260	6.0	63,187	

<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, 1976 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>												
1976 .....	75,341	58,756	78.0	54,720	1,582	53,138	2,744	50,394	4,036	6.9	16,585	
1977 .....	76,756	59,959	78.1	56,291	1,563	54,728	2,671	52,057	3,667	6.1	16,797	
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	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1986:</b>												
June .....	87,288	66,937	76.7	62,318	1,525	60,793	2,541	58,252	4,619	6.9	20,351	
July .....	87,373	66,968	76.6	62,402	1,518	60,884	2,486	58,398	4,566	6.8	20,405	
August .....	87,460	66,911	76.5	62,483	1,541	60,942	2,397	58,545	4,428	6.6	20,549	
September .....	87,556	67,128	76.7	62,528	1,560	60,968	2,495	58,473	4,600	6.9	20,428	
October .....	87,682	67,130	76.6	62,565	1,590	60,975	2,513	58,462	4,565	6.8	20,552	
November .....	87,773	67,407	76.8	62,833	1,592	61,241	2,506	58,735	4,574	6.8	20,366	
December .....	87,868	67,425	76.7	62,986	1,593	61,393	2,489	58,904	4,439	6.6	20,443	
<b>1987:</b>												
January .....	88,020	67,672	76.9	63,187	1,591	61,596	2,474	59,123	4,484	6.6	20,348	
February .....	88,099	67,764	76.9	63,335	1,584	61,751	2,544	59,207	4,429	6.5	20,335	
March .....	88,188	67,644	78.7	63,282	1,575	61,707	2,639	59,068	4,362	6.4	20,542	
April .....	88,271	67,803	76.8	63,417	1,575	61,842	2,664	59,178	4,186	6.2	20,668	
May .....	88,361	67,816	76.7	63,562	1,566	61,996	2,653	59,343	4,254	6.3	20,545	
June .....	88,442	67,556	76.4	63,471	1,559	61,912	2,521	59,391	4,085	6.0	20,886	
<b>Annual averages</b>												
<b>WOMEN</b>												
1978 .....	82,476	39,089	47.4	35,701	86	35,615	588	35,027	3,369	8.6	43,406	
1977 .....	83,932	40,705	48.5	37,381	92	37,289	612	36,677	3,324	8.2	43,227	
1978 <sup>1</sup> .....	85,434	42,731	50.0	39,689	100	39,589	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	48,829	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	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1986:</b>												
June .....	94,895	52,748	55.6	48,975	155	48,820	623	48,197	3,773	7.2	42,147	
July .....	94,981	52,821	55.6	49,157	154	49,003	638	48,365	3,664	6.9	42,160	
August .....	95,065	52,910	55.7	49,281	156	49,125	660	48,465	3,629	6.9	42,155	
September .....	95,156	52,860	55.6	49,175	156	49,019	647	48,372	3,685	7.0	42,296	
October .....	95,253	53,033	55.7	49,376	159	49,217	649	48,568	3,657	6.9	42,220	
November .....	95,341	53,019	55.6	49,350	159	49,191	709	48,482	3,669	6.9	42,322	
December .....	95,429	52,911	55.4	49,401	157	49,244	672	48,572	3,510	6.6	42,518	
<b>1987:</b>												
January .....	95,556	53,110	55.6	49,572	157	49,415	671	48,744	3,538	6.7	42,446	
February .....	95,639	53,325	55.8	49,787	156	49,631	692	48,939	3,538	6.6	42,314	
March .....	95,729	53,314	55.7	49,822	161	49,661	645	49,016	3,492	6.6	42,415	
April .....	95,808	53,467	55.8	50,153	160	49,993	626	49,367	3,314	6.2	42,341	
May .....	95,898	53,903	56.2	50,611	160	50,451	681	49,769	3,292	6.1	41,995	
June .....	95,979	53,679	55.9	50,504	159	50,345	657	49,688	3,175	5.9	42,300	

<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, 1953 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>								
1953 <sup>1</sup> .....	107,056	63,015	58.9	61,179	1,834	2.9	2.8	3.3
1954 .....	108,321	63,643	58.8	60,109	3,532	5.5	5.3	6.0
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>1</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974 .....	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975 .....	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976 .....	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977 .....	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979 .....	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980 .....	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981 .....	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982 .....	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983 .....	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984 .....	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985 .....	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1986:</b>								
June .....	180,503	118,005	65.4	109,613	8,392	7.1	7.1	7.2
July .....	180,682	118,117	65.4	109,887	8,230	7.0	7.0	7.0
August .....	180,828	118,124	65.3	110,067	8,057	6.8	6.8	6.9
September .....	180,997	118,272	65.3	109,987	8,285	7.0	7.0	7.0
October .....	181,186	118,414	65.4	110,192	8,222	6.9	7.0	6.9
November .....	181,363	118,675	65.4	110,432	8,243	6.9	6.9	6.9
December .....	181,547	118,586	65.3	110,637	7,949	6.7	6.7	6.7
<b>1987:</b>								
January .....	181,827	119,034	65.5	111,011	8,023	6.7	6.8	6.7
February .....	181,998	119,349	65.6	111,382	7,967	6.7	6.7	6.7
March .....	182,179	119,222	65.4	111,368	7,854	6.6	6.6	6.6
April .....	182,344	119,335	65.4	111,835	7,500	6.3	6.3	6.2
May .....	182,533	119,993	65.7	112,447	7,546	6.3	6.4	6.1
June .....	182,703	119,517	65.4	112,257	7,260	6.1	6.2	5.9

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

**Explanatory Notes.**

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

HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

Age, sex, and race	June 1987										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>TOTAL</b>											
16 years and over .....	182,703	121,153	66.3	113,498	7,655	6.3	61,550	29,201	4,358	3,020	24,972
16 to 19 years .....	14,821	9,147	62.6	7,418	1,729	18.9	5,474	558	2,746	29	2,140
16 to 17 years .....	7,552	4,009	53.1	3,072	938	23.4	3,543	229	1,918	7	1,390
18 to 19 years .....	7,088	5,138	72.7	4,347	792	15.4	1,930	329	829	23	750
20 to 24 years .....	19,004	15,524	81.7	13,908	1,616	10.4	3,480	1,626	858	97	899
25 to 54 years .....	99,155	81,477	82.2	77,615	3,861	4.7	17,679	12,593	747	1,092	3,247
25 to 34 years .....	42,305	35,199	83.2	33,166	2,033	5.8	7,106	5,293	481	249	1,082
25 to 29 years .....	21,429	17,805	83.1	16,714	1,089	6.1	3,625	2,584	310	132	599
30 to 34 years .....	20,875	17,394	83.3	16,451	943	5.4	3,481	2,709	172	118	483
35 to 44 years .....	33,726	28,151	83.5	26,994	1,157	4.1	5,575	3,900	212	368	1,095
35 to 39 years .....	18,444	15,374	83.4	14,722	652	4.2	3,070	2,186	151	191	553
40 to 44 years .....	15,282	12,777	83.6	12,271	505	4.0	2,507	1,727	61	176	542
45 to 54 years .....	23,125	18,127	78.4	17,455	672	3.7	4,998	3,400	54	475	1,069
45 to 49 years .....	12,238	9,900	80.9	9,535	365	3.7	2,338	1,626	40	196	476
50 to 54 years .....	10,887	8,228	75.6	7,920	307	3.7	2,660	1,774	14	279	592
55 to 64 years .....	21,824	11,835	54.2	11,441	394	3.3	9,989	5,008	5	726	4,251
55 to 59 years .....	11,044	7,233	65.5	6,989	245	3.4	3,811	2,220	2	341	1,248
60 to 64 years .....	10,780	4,602	42.7	4,452	150	3.3	6,179	2,788	3	385	3,003
65 years and over .....	28,098	3,170	11.3	3,117	53	1.7	24,928	9,417	1	1,075	14,435
65 to 69 years .....	9,739	1,957	20.1	1,923	34	1.7	7,781	2,976		248	4,557
70 to 74 years .....	7,577	753	9.9	745	8	1.1	6,824	2,654		215	3,954
75 years and over .....	10,782	459	4.3	448	11	2.4	10,323	3,787	3	611	5,923
<b>Men</b>											
16 years and over .....	86,883	67,244	77.4	63,045	4,199	6.2	19,638	577	2,147	1,667	15,247
16 to 19 years .....	7,347	4,741	64.5	3,862	879	18.5	2,606	53	1,402	14	1,137
16 to 17 years .....	3,849	2,124	55.2	1,646	478	22.5	1,725	35	979	5	706
18 to 19 years .....	3,498	2,617	74.8	2,215	402	15.4	881	19	422	9	431
20 to 24 years .....	9,209	8,182	88.8	7,326	856	10.5	1,027	46	437	69	474
25 to 54 years .....	48,439	45,438	93.8	43,258	2,179	4.8	3,001	190	306	763	1,743
25 to 34 years .....	20,793	19,761	95.0	18,608	1,153	5.8	1,033	71	215	186	561
25 to 29 years .....	10,521	9,926	94.3	9,295	630	6.4	596	31	151	94	320
30 to 34 years .....	10,272	9,835	95.7	9,312	523	5.3	437	40	64	93	241
35 to 44 years .....	16,459	15,502	94.2	14,886	616	4.0	957	53	70	262	572
35 to 39 years .....	9,031	8,517	94.3	8,185	332	3.9	514	27	51	137	298
40 to 44 years .....	7,428	6,985	94.0	6,701	284	4.1	444	26	19	125	274
45 to 54 years .....	11,187	10,175	91.0	9,765	411	4.0	1,012	66	21	314	610
45 to 49 years .....	5,927	5,485	92.5	5,264	221	4.0	442	28	15	135	264
50 to 54 years .....	5,260	4,691	89.2	4,501	190	4.0	569	39	6	179	345
55 to 64 years .....	10,250	6,924	67.5	6,674	250	3.6	3,326	89	3	435	2,799
55 to 59 years .....	5,245	4,225	80.6	4,069	157	3.7	1,020	36	1	194	788
60 to 64 years .....	5,004	2,698	53.9	2,605	93	3.5	2,306	53	2	241	2,011
65 years and over .....	11,638	1,960	16.8	1,926	34	1.7	9,678	199		385	9,094
65 to 69 years .....	4,414	1,169	26.5	1,145	24	2.1	3,244	54		124	3,066
70 to 74 years .....	3,252	492	15.1	485	7	1.4	2,760	53		90	2,616
75 years and over .....	3,973	299	7.5	296	3	1.0	3,674	92		171	3,412
<b>Women</b>											
16 years and over .....	95,820	53,909	56.3	50,453	3,456	6.4	41,912	28,623	2,210	1,353	9,725
16 to 19 years .....	7,274	4,406	60.6	3,556	850	19.3	2,868	505	1,345	15	1,003
16 to 17 years .....	3,704	1,885	50.9	1,425	460	24.4	1,819	195	938	2	684
18 to 19 years .....	3,571	2,521	70.6	2,131	390	15.5	1,049	310	406	13	319
20 to 24 years .....	9,795	7,342	75.0	6,582	760	10.4	2,453	1,580	421	28	425
25 to 54 years .....	50,716	36,039	71.1	34,357	1,682	4.7	14,678	12,403	441	329	1,504
25 to 34 years .....	21,511	15,438	71.8	14,558	880	5.7	6,073	5,222	267	63	521
25 to 29 years .....	10,908	7,879	72.2	7,419	459	5.8	3,029	2,553	159	38	279
30 to 34 years .....	10,603	7,559	71.3	7,139	420	5.6	3,044	2,669	108	25	242
35 to 44 years .....	17,267	12,649	73.3	12,107	541	4.3	4,618	3,847	142	105	524
35 to 39 years .....	9,413	6,857	72.8	6,537	320	4.7	2,556	2,146	100	54	255
40 to 44 years .....	7,854	5,792	73.7	5,570	221	3.8	2,063	1,701	42	51	268
45 to 54 years .....	11,938	7,952	66.6	7,691	261	3.3	3,986	3,333	33	161	460
45 to 49 years .....	6,311	4,415	70.0	4,271	144	3.3	1,896	1,598	25	61	212
50 to 54 years .....	5,627	3,537	62.8	3,419	117	3.3	2,091	1,735	8	100	247
55 to 64 years .....	11,575	4,911	42.4	4,767	144	2.9	6,663	4,918	2	292	1,452
55 to 59 years .....	5,799	3,008	51.9	2,920	88	2.9	2,791	2,183	1	147	460
60 to 64 years .....	5,776	1,903	33.0	1,847	56	3.0	3,872	2,735		144	993
65 years and over .....	16,459	1,210	7.3	1,191	19	1.6	15,250	9,217	2	690	5,340
65 to 69 years .....	5,325	788	14.8	778	10	1.3	4,537	2,922		124	1,491
70 to 74 years .....	4,325	261	6.0	260	1	.4	4,064	2,601		125	1,338
75 years and over .....	6,809	160	2.3	152	8	5.0	6,649	3,695	3	440	2,511

**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 1987										
	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 .....	156,930	104,409	66.5	98,796	5,613	5.4	52,521	25,482	3,137	2,335	21,567
16 to 19 years .....	11,962	7,872	65.8	6,623	1,249	15.9	4,090	432	1,952	22	1,684
16 to 17 years .....	6,142	3,502	57.0	2,796	706	20.2	2,640	179	1,340	5	1,117
18 to 19 years .....	5,820	4,370	75.1	3,826	543	12.4	1,450	253	612	17	568
20 to 24 years .....	15,834	13,279	83.9	12,139	1,140	8.6	2,555	1,263	618	58	616
25 to 54 years .....	84,600	69,969	82.7	67,106	2,861	4.1	14,632	10,744	561	814	2,512
25 to 34 years .....	35,669	29,952	84.0	28,483	1,469	4.9	5,716	4,405	352	168	791
25 to 29 years .....	18,016	15,183	84.3	14,408	776	5.1	2,832	2,123	221	80	408
30 to 34 years .....	17,653	14,769	83.7	14,076	693	4.7	2,884	2,282	132	88	383
35 to 44 years .....	29,024	24,309	83.8	23,446	863	3.6	4,715	3,409	164	286	856
35 to 39 years .....	15,752	13,149	83.5	12,689	459	5.6	2,604	1,928	116	145	440
40 to 44 years .....	13,271	11,161	84.1	10,757	404	3.6	2,112	1,529	49	141	415
45 to 54 years .....	19,907	15,707	78.9	15,177	530	3.4	4,200	2,930	45	361	865
45 to 49 years .....	10,528	8,567	81.4	8,284	282	3.3	1,961	1,411	30	141	373
50 to 54 years .....	9,380	7,141	76.1	6,894	247	3.9	2,239	1,557	14	219	492
55 to 64 years .....	19,250	10,457	54.3	10,141	316	3.0	8,793	4,478	4	562	3,750
55 to 59 years .....	9,681	6,344	65.5	6,140	204	3.2	3,336	2,001	1	263	1,072
60 to 64 years .....	9,569	4,113	43.0	4,001	112	2.7	5,456	2,477	3	299	2,677
65 years and over .....	25,285	2,833	11.2	2,787	47	1.7	22,451	8,566	2	878	13,005
65 to 69 years .....	8,690	1,746	20.1	1,718	28	1.6	6,944	2,652		195	4,099
70 to 74 years .....	6,809	664	9.8	657	8	1.2	6,143	2,425		175	3,544
75 years and over .....	9,785	423	4.3	412	11	2.6	9,363	3,489	3	508	5,363
<b>Men</b>											
16 years and over .....	75,181	58,694	78.1	55,532	3,162	5.4	16,487	427	1,539	1,327	13,194
16 to 19 years .....	6,030	4,088	67.8	3,435	653	16.0	1,942	39	1,007	12	883
16 to 17 years .....	3,142	1,858	59.1	1,491	368	19.8	1,284	25	688	3	567
18 to 19 years .....	2,888	2,230	77.2	1,944	286	12.8	658	14	319	8	316
20 to 24 years .....	7,744	7,041	90.9	6,424	617	8.8	703	30	317	46	310
25 to 54 years .....	41,830	39,605	94.7	37,954	1,649	4.2	2,225	125	212	595	1,293
25 to 34 years .....	17,756	17,062	96.1	16,217	845	5.0	694	44	149	129	372
25 to 29 years .....	8,948	8,569	95.8	8,116	453	5.3	379	18	106	60	195
30 to 34 years .....	8,808	8,493	96.4	8,101	392	4.6	315	26	43	69	177
35 to 44 years .....	14,332	13,611	95.0	13,143	468	3.4	721	40	47	212	423
35 to 39 years .....	7,803	7,425	95.2	7,177	248	3.3	378	22	34	106	215
40 to 44 years .....	6,529	6,186	94.7	5,966	220	3.6	344	17	13	106	208
45 to 54 years .....	9,742	8,932	91.7	8,595	337	3.8	810	41	17	255	498
45 to 49 years .....	5,168	4,826	93.4	4,648	177	3.7	342	22	10	111	199
50 to 54 years .....	4,574	4,106	89.8	3,947	159	3.9	468	19	6	143	299
55 to 64 years .....	9,104	6,184	67.9	5,969	215	3.5	2,920	76	3	353	2,488
55 to 59 years .....	4,639	3,766	81.2	3,627	140	3.7	872	30	1	155	686
60 to 64 years .....	4,465	2,417	54.1	2,342	76	3.1	2,048	46	2	198	1,802
65 years and over .....	10,474	1,776	17.0	1,750	27	1.5	8,698	157		322	8,219
65 to 69 years .....	3,961	1,056	26.7	1,039	17	1.6	2,905	43		100	2,763
70 to 74 years .....	2,926	439	15.0	433	7	1.6	2,485	44		80	2,362
75 years and over .....	3,587	281	7.8	278	3	1.1	3,307	70		142	3,095
<b>Women</b>											
16 years and over .....	81,749	45,716	55.9	43,264	2,452	5.4	36,034	25,055	1,598	1,008	8,373
16 to 19 years .....	5,932	3,784	63.8	3,188	596	15.8	2,148	392	944	11	801
16 to 17 years .....	3,001	1,644	54.8	1,306	338	20.6	1,357	154	651	2	550
18 to 19 years .....	2,931	2,139	73.0	1,882	258	12.0	792	239	293	9	251
20 to 24 years .....	8,090	6,238	77.1	5,715	523	8.4	1,853	1,233	301	12	306
25 to 54 years .....	42,770	30,364	71.0	29,152	1,212	4.0	12,407	10,619	349	219	1,219
25 to 34 years .....	17,913	12,890	72.0	12,267	624	4.8	5,023	4,361	204	39	419
25 to 29 years .....	9,068	6,614	72.9	6,292	323	4.9	2,453	2,105	115	20	213
30 to 34 years .....	8,845	6,276	71.0	5,975	301	4.8	2,569	2,256	89	19	206
35 to 44 years .....	14,692	10,698	72.8	10,303	395	3.7	3,994	3,370	118	74	433
35 to 39 years .....	7,949	5,724	72.0	5,512	211	3.7	2,226	1,880	82	39	225
40 to 44 years .....	6,742	4,975	73.8	4,791	184	3.7	1,768	1,490	36	35	207
45 to 54 years .....	10,165	6,775	66.6	6,582	193	2.8	3,390	2,889	28	106	367
45 to 49 years .....	5,360	3,741	69.8	3,636	105	2.8	1,619	1,395	20	30	174
50 to 54 years .....	4,806	3,035	63.1	2,947	88	2.9	1,771	1,494	8	76	193
55 to 64 years .....	10,146	4,273	42.1	4,172	101	2.4	5,873	4,402	1	209	1,261
55 to 59 years .....	5,042	2,578	51.1	2,513	65	2.5	2,464	1,971		108	386
60 to 64 years .....	5,104	1,696	33.2	1,659	36	2.1	3,409	2,431	1	102	875
65 years and over .....	14,811	1,057	7.1	1,037	20	1.9	13,754	8,409	2	556	4,786
65 to 69 years .....	4,729	690	14.6	679	11	1.6	4,039	2,609		95	1,336
70 to 74 years .....	3,883	225	5.8	224	1	.4	3,658	2,381		95	1,182
75 years and over .....	6,198	142	2.3	134	8	5.6	6,056	3,419	3	366	2,268

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 1987										
	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 .....	20,341	13,133	64.6	11,346	1,787	13.6	7,208	2,910	874	617	2,806
16 to 19 years .....	2,165	1,064	49.1	633	431	40.5	1,101	107	620	7	366
16 to 17 years .....	1,125	403	35.8	208	194	48.2	723	46	459	2	216
18 to 19 years .....	1,040	662	63.6	425	237	35.8	378	61	161	6	150
20 to 24 years .....	2,582	1,843	71.4	1,405	438	23.8	738	307	157	36	239
25 to 54 years .....	11,149	8,855	79.4	7,994	861	9.7	2,293	1,354	96	236	607
25 to 34 years .....	5,136	4,103	79.9	3,610	493	12.0	1,033	655	63	73	241
25 to 29 years .....	2,656	2,057	77.4	1,785	271	13.2	598	346	46	49	158
30 to 34 years .....	2,481	2,046	82.5	1,824	222	10.9	435	309	18	25	83
35 to 44 years .....	3,556	2,913	81.9	2,662	251	8.6	643	345	25	71	202
35 to 39 years .....	2,044	1,711	83.7	1,541	169	9.9	334	188	16	36	94
40 to 44 years .....	1,511	1,203	79.6	1,120	82	6.8	308	157	9	34	108
45 to 54 years .....	2,457	1,839	74.9	1,723	117	6.3	617	354	8	92	164
45 to 49 years .....	1,302	1,013	77.8	947	67	6.6	289	153	8	42	86
50 to 54 years .....	1,154	826	71.6	776	49	5.9	329	200	4	49	78
55 to 64 years .....	2,096	1,103	52.6	1,049	54	4.9	993	420	1	152	420
55 to 59 years .....	1,099	715	65.0	683	32	4.4	384	172	1	72	139
60 to 64 years .....	998	388	38.9	366	22	5.7	609	249		80	280
65 years and over .....	2,349	267	11.4	264	3	1.2	2,082	722		186	1,174
65 to 69 years .....	857	166	19.4	162	4	2.4	691	267		48	376
70 years and over .....	1,492	102	6.8	102		-	1,391	455		137	799
<b>Men</b>											
16 years and over .....	9,124	6,599	72.3	5,716	883	13.4	2,525	120	414	296	1,694
16 to 19 years .....	1,066	537	50.3	341	195	36.4	530	11	311	3	205
16 to 17 years .....	567	208	36.6	118	90	43.3	359	10	235	2	113
18 to 19 years .....	499	329	65.8	223	105	32.0	171	1	76	2	92
20 to 24 years .....	1,176	938	79.8	720	218	23.2	238	14	64	24	137
25 to 54 years .....	4,993	4,387	87.9	3,946	440	10.0	606	47	39	142	377
25 to 34 years .....	2,319	2,070	89.3	1,808	262	12.7	249	17	24	50	157
25 to 29 years .....	1,200	1,038	86.5	889	149	14.4	161	11	18	32	101
30 to 34 years .....	1,120	1,032	92.2	919	113	10.9	88	6	7	19	56
35 to 44 years .....	1,583	1,394	88.1	1,271	123	8.8	189	6	11	43	129
35 to 39 years .....	910	802	88.1	731	70	8.8	109	3	8	25	73
40 to 44 years .....	672	592	88.0	539	53	8.9	80	3	3	18	56
45 to 54 years .....	1,091	923	84.6	868	55	6.0	168	24	4	49	91
45 to 49 years .....	578	492	85.1	460	33	6.6	86	6	4	21	55
50 to 54 years .....	512	430	83.9	408	22	5.2	82	18		28	36
55 to 64 years .....	943	600	63.6	574	26	4.3	343	10	71	261	
55 to 59 years .....	497	375	75.5	364	11	3.0	122	5	33	84	
60 to 64 years .....	447	226	50.5	211	15	6.5	221	7	38	177	
65 years and over .....	946	138	14.6	134	4	3.0	808	38	56	714	
65 to 69 years .....	373	83	22.4	79	4	5.1	289	11	20	258	
70 years and over .....	573	55	9.5	55		( <sup>1</sup> )	519	27	35	457	
<b>Women</b>											
16 years and over .....	11,217	6,534	58.2	5,630	904	13.8	4,683	2,789	461	321	1,112
16 to 19 years .....	1,099	528	48.0	292	236	44.7	571	96	309	4	161
16 to 17 years .....	558	195	34.9	90	104	53.5	363	36	224		103
18 to 19 years .....	541	333	61.6	202	131	39.5	208	60	85	4	58
20 to 24 years .....	1,406	905	64.4	685	220	24.3	501	293	93	12	102
25 to 54 years .....	6,156	4,468	72.6	4,048	421	9.4	1,687	1,307	57	94	230
25 to 34 years .....	2,817	2,033	72.2	1,802	231	11.4	784	638	39	23	84
25 to 29 years .....	1,456	1,019	70.0	896	122	12.0	437	335	28	17	57
30 to 34 years .....	1,361	1,014	74.5	905	109	10.7	347	303	11	6	27
35 to 44 years .....	1,973	1,519	77.0	1,391	128	8.4	454	339	14	28	73
35 to 39 years .....	1,134	909	80.1	810	99	10.9	225	185	8	11	21
40 to 44 years .....	839	611	72.8	581	29	4.8	228	154	6	16	52
45 to 54 years .....	1,366	917	67.1	855	62	6.7	449	330	4	43	73
45 to 49 years .....	724	521	72.0	487	34	6.6	203	147	4	21	31
50 to 54 years .....	642	396	61.6	368	27	6.9	247	182		21	42
55 to 64 years .....	1,153	503	43.6	475	28	5.6	650	410	1	81	159
55 to 59 years .....	602	340	56.4	319	20	6.0	262	167	1	38	55
60 to 64 years .....	551	163	29.6	155	7	4.6	388	242		42	103
65 years and over .....	1,403	129	9.2	130		-	1,274	684		130	460
65 to 69 years .....	484	83	17.0	83		-	402	256		28	118
70 years and over .....	919	47	5.1	47		( <sup>1</sup> )	872	428		102	342

<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 1987								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 .....	25,773	16,744	65.0	14,702	274	14,428	2,041	12.2	9,029
16 to 19 years .....	2,659	1,275	48.0	795	23	773	480	37.7	1,363
16 to 17 years .....	1,410	507	36.0	275	11	264	232	45.7	903
18 to 19 years .....	1,249	769	61.5	520	12	508	249	32.3	480
20 to 24 years .....	3,170	2,248	70.8	1,769	24	1,745	477	21.2	925
25 to 54 years .....	14,556	11,508	79.1	10,509	149	10,359	1,000	8.7	3,047
25 to 34 years .....	6,636	5,246	79.1	4,883	60	4,823	564	10.7	1,390
25 to 29 years .....	3,413	2,621	76.8	2,307	25	2,282	314	12.0	792
30 to 34 years .....	3,223	1,415	43.9	2,376	35	2,341	249	17.6	598
35 to 44 years .....	4,702	3,841	81.7	3,548	45	3,503	294	7.7	861
35 to 39 years .....	2,691	2,226	82.7	2,033	22	2,010	193	8.7	466
40 to 44 years .....	2,011	1,616	80.4	1,515	23	1,492	101	6.3	395
45 to 54 years .....	3,218	2,420	75.2	2,278	44	2,234	142	5.9	797
45 to 49 years .....	1,711	1,334	78.0	1,252	16	1,234	82	6.1	377
50 to 54 years .....	1,507	1,087	72.1	1,026	27	1,000	60	5.5	420
55 to 64 years .....	2,575	1,378	53.5	1,300	51	1,248	78	5.7	1,197
55 to 59 years .....	1,364	889	65.2	849	26	823	40	4.5	475
60 to 64 years .....	1,211	489	40.4	451	25	425	38	7.8	722
65 years and over .....	2,813	336	12.0	330	28	302	6	1.9	2,477
65 to 69 years .....	1,048	211	20.1	205	10	195	7	3.3	837
70 to 74 years .....	768	88	11.5	88	11	79	-	-	680
75 years and over .....	997	37	3.7	37	7	29	-	( <sup>1</sup> )	960
<b>Men</b>									
16 years and over .....	11,702	8,551	73.1	7,513	222	7,292	1,037	12.1	3,151
16 to 19 years .....	1,317	653	49.6	427	18	408	226	34.6	664
16 to 17 years .....	707	266	37.6	156	9	147	110	41.4	441
18 to 19 years .....	610	387	63.4	271	9	262	116	30.0	223
20 to 24 years .....	1,465	1,141	77.9	902	21	881	239	21.0	324
25 to 54 years .....	6,610	5,833	88.2	5,304	113	5,191	529	9.1	776
25 to 34 years .....	3,038	2,699	88.8	2,391	50	2,341	308	11.4	339
25 to 29 years .....	1,573	1,357	86.2	1,179	19	1,160	178	13.1	216
30 to 34 years .....	1,465	1,342	91.6	1,212	31	1,181	130	9.7	123
35 to 44 years .....	2,127	1,891	88.9	1,743	31	1,712	148	7.8	236
35 to 39 years .....	1,228	1,092	88.9	1,008	16	992	84	7.7	136
40 to 44 years .....	899	799	88.9	735	15	720	64	8.0	100
45 to 54 years .....	1,445	1,244	88.1	1,170	32	1,138	74	5.9	201
45 to 49 years .....	759	659	86.8	616	13	602	43	6.8	100
50 to 54 years .....	686	585	85.2	554	18	536	30	5.2	101
55 to 64 years .....	1,146	740	64.6	705	45	660	35	4.7	408
55 to 59 years .....	606	459	75.7	442	22	420	17	3.7	148
60 to 64 years .....	539	281	52.1	263	23	240	18	6.3	258
65 years and over .....	1,164	184	15.8	176	25	151	7	4.0	980
65 to 69 years .....	452	113	25.0	106	8	98	7	6.5	339
70 to 74 years .....	326	52	16.0	51	11	42	-	( <sup>1</sup> )	274
75 years and over .....	386	19	4.9	19	6	12	-	( <sup>1</sup> )	367
<b>Women</b>									
16 years and over .....	14,071	8,193	58.2	7,189	53	7,136	1,004	12.3	5,878
16 to 19 years .....	1,342	623	46.4	369	4	364	254	40.8	719
16 to 17 years .....	703	241	34.3	119	2	118	122	50.5	462
18 to 19 years .....	639	382	59.7	249	3	247	132	34.7	257
20 to 24 years .....	1,705	1,105	64.8	867	4	864	237	21.5	601
25 to 54 years .....	7,946	5,675	71.4	5,205	36	5,168	471	8.3	2,271
25 to 34 years .....	3,598	2,548	70.8	2,292	10	2,282	256	10.0	1,050
25 to 29 years .....	1,840	1,264	68.7	1,128	6	1,122	136	10.8	576
30 to 34 years .....	1,758	1,283	73.0	1,164	4	1,160	119	9.3	475
35 to 44 years .....	2,575	1,951	75.7	1,804	14	1,790	146	7.5	625
35 to 39 years .....	1,463	1,134	77.5	1,025	6	1,018	109	9.6	330
40 to 44 years .....	1,112	817	73.5	780	8	772	37	4.6	295
45 to 54 years .....	1,773	1,177	66.4	1,108	12	1,096	69	5.8	596
45 to 49 years .....	952	675	70.9	636	3	632	39	5.8	277
50 to 54 years .....	821	502	61.1	472	9	464	30	5.9	319
55 to 64 years .....	1,429	638	44.7	595	6	589	43	6.8	791
55 to 59 years .....	757	430	56.8	407	5	403	23	5.3	327
60 to 64 years .....	671	208	30.9	187	2	186	20	9.8	464
65 years and over .....	1,649	153	9.3	154	3	151	-	-	1,496
65 to 69 years .....	596	98	16.5	99	2	97	-	-	498
70 to 74 years .....	442	36	8.1	37	-	37	-	( <sup>1</sup> )	406
75 years and over .....	611	18	2.9	18	-	17	-	( <sup>1</sup> )	593

<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 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	180,503	182,703	78,484	79,536	87,547	88,546	14,472	14,621
Civilian labor force .....	119,644	121,153	61,779	62,503	48,510	49,502	9,356	9,147
Percent of population .....	66.3	66.3	78.7	78.6	55.4	55.9	64.6	62.6
Employed .....	110,869	113,498	58,105	59,184	45,408	46,896	7,356	7,418
Agriculture .....	3,651	3,661	2,533	2,533	679	711	439	418
Nonagricultural industries .....	107,218	109,837	55,572	56,651	44,730	46,186	6,917	7,000
Unemployed .....	8,775	7,655	3,674	3,320	3,101	2,606	2,000	1,729
Unemployment rate .....	7.3	6.3	5.9	5.3	6.4	5.3	21.4	18.9
Not in labor force .....	60,859	61,550	16,706	17,033	39,037	39,044	5,117	5,474
<b>White</b>								
Civilian noninstitutional population .....	155,376	156,930	68,388	69,151	75,112	75,817	11,877	11,962
Civilian labor force .....	103,253	104,409	54,043	54,605	41,195	41,932	8,015	7,872
Percent of population .....	66.5	66.5	79.0	79.0	54.8	55.3	67.5	65.8
Employed .....	96,823	98,796	51,297	52,097	38,935	40,076	6,591	6,623
Agriculture .....	3,408	3,387	2,337	2,329	642	662	429	395
Nonagricultural industries .....	93,415	95,409	48,960	49,767	38,293	39,414	6,162	6,228
Unemployed .....	6,430	5,613	2,746	2,508	2,260	1,856	1,424	1,249
Unemployment rate .....	6.2	5.4	5.1	4.6	5.5	4.4	17.8	15.9
Not in labor force .....	52,123	52,521	14,345	14,545	33,917	33,885	3,862	4,090
<b>Black</b>								
Civilian noninstitutional population .....	19,974	20,341	7,903	8,058	9,938	10,118	2,133	2,165
Civilian labor force .....	12,981	13,133	6,007	6,063	5,837	6,006	1,137	1,064
Percent of population .....	65.0	64.6	76.0	75.2	58.7	59.4	53.3	49.1
Employed .....	10,936	11,346	5,218	5,375	5,095	5,338	623	633
Agriculture .....	179	192	154	145	21	29	3	18
Nonagricultural industries .....	10,757	11,154	5,063	5,230	5,074	5,309	620	616
Unemployed .....	2,046	1,787	790	688	742	668	514	431
Unemployment rate .....	15.8	13.6	13.2	11.3	12.7	11.1	45.2	40.5
Not in labor force .....	6,993	7,208	1,895	1,995	4,102	4,112	996	1,101

**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 1987									
	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 .....	7,681	4,004	52.1	3,430	912	2,518	573	289	284	14.3
16 to 19 years .....	5,342	2,541	47.6	2,115	346	1,770	425	210	215	16.7
20 to 24 years .....	2,339	1,463	62.5	1,315	566	749	148	79	69	10.1
High school .....	4,461	1,984	44.5	1,620	171	1,448	364	185	179	18.4
College .....	3,220	2,020	62.7	1,811	741	1,070	209	104	105	10.4
Full-time students .....	2,376	1,302	54.8	1,142	340	802	161	80	81	12.3
Part-time students .....	844	717	85.0	669	401	268	48	24	24	6.8
Men, 16 to 24 years .....	3,910	2,023	51.7	1,711	434	1,277	312	166	146	15.4
16 to 19 years .....	2,763	1,325	47.9	1,095	169	926	230	117	113	17.3
20 to 24 years .....	1,147	698	60.8	616	265	351	82	49	33	11.8
High school .....	2,381	1,084	45.5	888	107	781	196	94	102	18.0
College .....	1,529	939	61.4	822	327	496	116	72	45	12.4
Full-time students .....	1,156	630	54.5	538	160	378	91	55	36	14.5
Part-time students .....	373	309	82.8	284	166	118	25	16	9	8.1
Women, 16 to 24 years .....	3,771	1,981	52.5	1,720	478	1,242	261	123	138	13.2
16 to 19 years .....	2,579	1,216	47.1	1,020	176	844	195	93	102	16.1
20 to 24 years .....	1,192	765	64.2	699	302	398	66	30	36	8.6
High school .....	2,080	900	43.3	731	64	667	168	91	77	18.7
College .....	1,691	1,081	63.9	988	414	574	93	32	61	8.6
Full-time students .....	1,220	673	55.1	603	179	424	69	25	45	10.3
Part-time students .....	470	408	86.8	385	235	150	24	8	16	5.8
<b>White</b>										
Total, 16 to 24 years .....	6,048	3,391	56.1	2,979	783	2,196	411	209	202	12.1
16 to 19 years .....	4,180	2,169	51.9	1,864	306	1,558	305	154	151	14.1
20 to 24 years .....	1,868	1,221	65.4	1,115	477	638	106	55	51	8.7
Men .....	3,079	1,694	55.0	1,477	375	1,102	218	118	99	12.8
Women .....	2,968	1,696	57.2	1,503	409	1,094	194	91	103	11.4
High school .....	3,424	1,687	49.3	1,430	152	1,278	257	130	127	15.2
College .....	2,624	1,703	64.9	1,549	631	918	154	79	75	9.1
Full-time students .....	1,910	1,089	57.0	967	286	681	122	61	61	11.2
Part-time students .....	714	614	86.0	582	346	236	32	18	14	5.2
<b>Black</b>										
Total, 16 to 24 years .....	1,233	469	38.0	327	92	235	141	69	72	30.2
16 to 19 years .....	918	303	33.0	196	32	164	106	46	60	35.2
20 to 24 years .....	315	166	52.7	131	60	72	35	23	12	21.0
Men .....	605	243	40.1	165	39	125	78	40	39	32.3
Women .....	628	226	36.0	163	53	110	63	29	34	27.9
High school .....	838	248	29.6	151	14	137	97	47	50	39.3
College .....	396	221	55.8	177	78	99	44	22	22	19.9
Full-time students .....	305	147	48.2	117	41	76	30	16	15	20.5
Part-time students .....	91	74	81.0	60	37	23	14	6	8	( <sup>2</sup> )
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	786	304	38.7	251	59	192	54	28	25	17.7
16 to 19 years .....	562	179	31.9	143	20	123	36	20	16	20.2
20 to 24 years .....	224	125	55.9	108	40	68	18	8	10	14.0
Men .....	424	163	38.5	128	39	88	36	21	14	21.8
Women .....	362	141	39.0	123	20	103	18	7	11	13.0
High school .....	514	158	30.7	123	14	108	35	20	16	22.4
College .....	272	147	53.9	128	45	83	19	9	10	12.6
Full-time students .....	202	86	42.7	75	21	55	10	2	9	12.2
Part-time students .....	70	61	( <sup>2</sup> )	53	24	28	8	7	1	( <sup>2</sup> )

See footnotes at end of table.

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	June 1987									
	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 .....	25,944	20,668	79.7	17,896	13,652	4,244	2,772	2,246	526	13.4
16 to 19 years .....	9,279	6,607	71.2	5,303	2,791	2,512	1,304	926	378	19.7
20 to 24 years .....	16,665	14,061	84.4	12,593	10,861	1,732	1,468	1,320	148	10.4
Less than 4 years of high school .....	8,372	5,341	63.8	4,078	2,290	1,789	1,262	916	346	23.6
4 years of high school .....	10,511	8,839	84.1	7,877	6,437	1,440	962	854	109	10.9
1 to 3 years of college .....	5,111	4,659	91.1	4,272	3,405	867	386	322	64	8.3
4 years of college or more .....	1,950	1,830	93.8	1,668	1,519	149	162	155	7	8.8
Men, 16 to 24 years .....	12,645	10,900	86.2	9,477	7,648	1,829	1,424	1,223	201	13.1
16 to 19 years .....	4,583	3,416	74.5	2,767	1,578	1,189	649	492	157	19.0
20 to 24 years .....	8,062	7,484	92.8	6,710	6,070	640	774	730	44	10.3
Less than 4 years of high school .....	4,397	3,248	73.9	2,540	1,615	925	707	563	144	21.8
4 years of high school .....	4,938	4,527	91.7	4,083	3,554	529	444	419	24	9.8
1 to 3 years of college .....	2,427	2,280	93.9	2,095	1,772	324	185	158	27	8.1
4 years of college or more .....	883	846	95.8	758	707	51	88	82	6	10.4
Women, 16 to 24 years .....	13,299	9,768	73.4	8,419	6,004	2,415	1,349	1,024	325	13.8
16 to 19 years .....	4,696	3,191	68.0	2,536	1,213	1,323	655	433	221	20.5
20 to 24 years .....	8,603	6,577	76.4	5,883	4,791	1,092	694	590	104	10.6
Less than 4 years of high school .....	3,975	2,093	52.7	1,538	675	863	555	353	202	26.5
4 years of high school .....	5,573	4,312	77.4	3,793	2,883	911	519	434	84	12.0
1 to 3 years of college .....	2,684	2,378	88.6	2,177	1,634	544	201	163	38	8.5
4 years of college or more .....	1,068	984	92.2	910	812	98	74	73	2	7.5
<b>White</b>										
Total, 16 to 24 years .....	21,748	17,760	81.7	15,783	12,089	3,694	1,977	1,599	378	11.1
16 to 19 years .....	7,782	5,703	73.3	4,759	2,537	2,222	944	676	268	16.6
20 to 24 years .....	13,966	12,057	86.3	11,024	9,552	1,472	1,033	923	110	8.6
Men .....	10,694	9,435	88.2	8,382	6,806	1,577	1,053	895	157	11.2
Women .....	11,054	8,325	75.3	7,400	5,283	2,117	925	704	221	11.1
Less than 4 years of high school .....	6,778	4,513	66.6	3,641	2,052	1,589	873	634	239	19.3
4 years of high school .....	8,766	7,512	85.7	6,847	5,634	1,213	665	586	79	8.9
1 to 3 years of college .....	4,433	4,060	91.6	3,761	3,002	759	299	242	56	7.4
4 years of college or more .....	1,771	1,675	94.6	1,534	1,401	133	141	136	4	8.4
<b>Black</b>										
Total, 16 to 24 years .....	3,514	2,439	69.4	1,711	1,252	460	728	599	128	29.8
16 to 19 years .....	1,247	762	61.1	437	199	238	324	230	95	42.6
20 to 24 years .....	2,266	1,677	74.0	1,274	1,053	222	403	369	34	24.0
Men .....	1,637	1,232	75.2	897	682	215	335	295	39	27.2
Women .....	1,877	1,207	64.3	814	570	245	393	304	89	32.5
Less than 4 years of high school .....	1,327	685	51.6	336	177	159	349	258	91	50.9
4 years of high school .....	1,507	1,156	76.7	874	676	198	282	253	29	24.4
1 to 3 years of college .....	554	488	88.0	408	317	91	80	74	6	16.3
4 years of college or more .....	125	110	87.7	92	81	11	17	14	3	15.8
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,439	1,762	72.3	1,505	1,244	261	257	222	35	14.6
16 to 19 years .....	768	484	63.1	370	250	120	114	90	25	23.6
20 to 24 years .....	1,670	1,277	76.5	1,135	994	141	143	132	11	11.2
Men .....	1,234	1,079	87.4	917	801	116	162	149	13	15.0
Women .....	1,204	683	56.7	588	443	145	95	73	22	14.0
Less than 4 years of high school .....	1,284	788	61.4	648	537	110	140	109	31	17.8
4 years of high school .....	799	670	83.9	592	482	111	78	75	2	11.6
1 to 3 years of college .....	294	245	83.2	207	167	40	38	36	2	15.4
4 years of college or more .....	62	59	( <sup>2</sup> )	58	59		1	1		( <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 1986	June 1987	Total		Employed		Unemployed			
			June 1986	June 1987	June 1986	June 1987	Number		Percent of labor force	
							June 1986	June 1987	June 1986	June 1987
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,742	7,840	7,210	7,235	6,872	6,901	338	334	4.7	4.6
30 to 44 years .....	6,391	6,235	6,116	5,956	5,818	5,663	298	293	4.9	4.9
30 to 34 years .....	1,155	935	1,088	881	1,009	794	79	87	7.3	9.9
35 to 39 years .....	3,086	2,626	2,961	2,523	2,818	2,399	143	124	4.8	4.9
40 to 44 years .....	2,150	2,674	2,067	2,552	1,991	2,470	76	82	3.7	3.2
45 years and over .....	1,351	1,605	1,094	1,279	1,054	1,238	40	41	3.7	3.2
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	18,356	19,414	17,383	18,343	16,444	17,554	939	789	5.4	4.3
30 to 34 years .....	8,545	8,843	8,158	8,476	7,698	8,067	460	409	5.6	4.8
35 to 39 years .....	5,666	6,184	5,365	5,785	5,088	5,584	277	201	5.2	3.5
40 to 44 years .....	4,145	4,387	3,860	4,082	3,658	3,903	202	179	5.2	4.4

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 1987							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	94,548	92,828	1,720	18,951	14,948	4,003	6,497	1,157
16 to 19 years .....	3,136	2,952	184	4,281	3,306	975	1,136	593
16 to 17 years .....	689	635	54	2,383	1,917	466	524	414
18 to 19 years .....	2,448	2,317	131	1,899	1,389	510	612	180
20 years and over .....	91,412	89,876	1,536	14,668	11,641	3,027	5,361	564
20 to 24 years .....	11,427	11,108	319	2,480	1,712	768	1,399	217
25 years and over .....	79,984	78,768	1,216	12,188	9,928	2,260	3,963	346
25 to 54 years .....	68,873	67,810	1,063	8,742	6,842	1,900	3,592	269
55 years and over .....	11,111	10,958	153	3,447	3,087	360	371	76
<b>Men, 16 years and over</b> .....	56,811	55,821	990	6,234	4,532	1,702	3,747	452
16 to 19 years .....	1,747	1,657	90	2,114	1,623	491	609	270
20 years and over .....	55,064	54,164	900	4,120	2,909	1,211	3,137	182
20 to 24 years .....	6,335	6,130	205	991	635	356	779	78
25 years and over .....	48,730	48,035	695	3,128	2,274	854	2,359	105
25 to 54 years .....	41,606	41,002	604	1,653	961	692	2,112	67
55 years and over .....	7,123	7,032	91	1,476	1,313	163	247	37
<b>Women, 16 years and over</b> .....	37,737	37,007	730	12,717	10,416	2,301	2,750	705
16 to 19 years .....	1,389	1,295	94	2,167	1,683	484	527	324
20 years and over .....	36,348	35,712	636	10,549	8,733	1,816	2,224	382
20 to 24 years .....	5,092	4,978	114	1,489	1,077	412	620	140
25 years and over .....	31,256	30,734	522	9,059	7,656	1,403	1,603	242
25 to 54 years .....	27,268	26,808	460	7,089	5,882	1,207	1,479	203
55 years and over .....	3,989	3,926	63	1,970	1,774	196	124	39
<b>White</b>								
<b>Men, 16 years and over</b> .....	50,161	49,312	849	5,371	4,024	1,347	2,813	348
16 to 19 years .....	1,592	1,512	80	1,842	1,438	404	458	195
20 years and over .....	48,568	47,799	769	3,528	2,586	942	2,356	153
20 to 24 years .....	5,588	5,428	160	836	548	288	556	61
25 years and over .....	42,981	42,372	609	2,693	2,038	655	1,800	92
25 to 54 years .....	36,589	36,058	531	1,366	840	526	1,589	60
55 years and over .....	6,392	6,314	78	1,326	1,198	128	210	32
<b>Women, 16 years and over</b> .....	31,868	31,271	597	11,395	9,533	1,862	1,915	537
16 to 19 years .....	1,250	1,167	83	1,938	1,515	423	372	224
20 years and over .....	30,618	30,104	514	9,458	8,019	1,439	1,543	313
20 to 24 years .....	4,442	4,348	94	1,274	948	326	422	100
25 years and over .....	26,176	25,756	420	8,184	7,071	1,113	1,121	213
25 to 54 years .....	22,724	22,352	372	6,428	5,470	958	1,033	179
55 years and over .....	3,452	3,404	48	1,757	1,601	156	88	33
<b>Black</b>								
<b>Men, 16 years and over</b> .....	5,050	4,937	113	667	374	293	795	89
16 to 19 years .....	122	115	7	219	147	72	129	66
20 years and over .....	4,928	4,822	106	447	226	221	665	23
20 to 24 years .....	599	565	34	121	59	62	206	12
25 years and over .....	4,329	4,257	72	326	167	159	459	11
25 to 54 years .....	3,735	3,674	61	210	83	127	435	5
55 years and over .....	594	583	11	116	84	32	24	6
<b>Women, 16 years and over</b> .....	4,605	4,501	104	1,024	653	371	759	145
16 to 19 years .....	110	101	9	183	132	51	146	89
20 years and over .....	4,496	4,400	96	842	521	321	613	55
20 to 24 years .....	512	499	13	173	96	77	187	34
25 years and over .....	3,983	3,901	82	669	425	244	427	22
25 to 54 years .....	3,566	3,494	72	481	275	206	402	19
55 years and over .....	417	407	10	187	150	37	25	3

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

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NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	June 1987									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	99,359	67.1	92,846	6,513	6.6	48,800	23,782	3,965	2,234	18,819
Husbands .....	39,821	78.7	38,369	1,451	3.6	10,789	213	145	890	9,542
With employed wife .....	24,839	91.9	24,025	814	3.3	2,184	87	82	358	1,658
With unemployed wife .....	954	91.7	839	115	12.0	87	-	3	15	68
With wife not in labor force .....	14,028	62.2	13,505	522	3.7	8,519	126	59	517	7,817
Wives .....	28,063	55.4	27,022	1,040	3.7	22,547	18,598	218	342	3,389
With employed husband .....	24,864	64.8	24,025	839	3.4	13,505	12,113	174	122	1,096
With unemployed husband .....	929	64.0	814	115	12.3	522	464	6	10	42
With husband not in labor force .....	2,270	21.0	2,184	87	3.8	8,519	6,021	37	209	2,252
Relatives in married-couple families .....	15,248	70.7	13,323	1,925	12.6	6,332	836	2,405	342	2,748
16 to 19 years .....	6,283	64.4	5,251	1,032	16.4	3,474	163	1,825	19	1,467
20 to 24 years .....	5,558	84.7	4,979	579	10.4	1,007	134	473	40	360
25 years and over .....	3,407	64.8	3,093	314	9.2	1,851	539	107	283	921
Women who maintain families .....	6,547	62.0	5,921	626	9.6	4,019	2,853	103	205	858
Relatives in families maintained by women .....	5,671	62.4	4,569	1,101	19.4	3,418	810	896	326	1,387
16 to 19 years .....	1,643	56.4	1,159	485	29.5	1,270	131	697	11	431
20 to 24 years .....	1,680	76.1	1,346	334	19.9	528	145	140	28	215
25 years and over .....	2,346	59.2	2,064	282	12.0	1,620	534	59	287	741
Men who maintain families .....	2,200	76.8	2,065	135	6.1	666	45	20	66	535
Relatives in families maintained by men .....	1,809	63.7	1,575	234	12.9	1,031	427	178	63	363
16 to 19 years .....	355	57.9	264	91	25.5	259	31	119	1	108
20 to 24 years .....	536	82.9	460	76	14.2	111	38	46	4	23
25 years and over .....	918	58.1	851	67	7.3	661	358	13	58	232

<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 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
Total, 16 years and over .....	4,718	4,199	7.1	6.2	4,057	3,456	7.7	6.4
Married, spouse present .....	1,741	1,572	4.2	3.8	1,434	1,130	5.1	3.9
Widowed, divorced, or separated .....	546	418	8.7	6.4	870	701	8.6	6.9
Single (never married) .....	2,431	2,209	12.9	11.7	1,753	1,624	12.1	11.1
White, 16 years and over .....	3,507	3,162	6.0	5.4	2,923	2,452	6.5	5.4
Married, spouse present .....	1,406	1,314	3.8	3.5	1,186	917	4.7	3.5
Widowed, divorced, or separated .....	393	303	7.5	5.6	643	485	7.9	6.0
Single (never married) .....	1,707	1,545	10.9	9.8	1,094	1,049	9.3	8.9
Black, 16 years and over .....	1,035	883	15.7	13.4	1,011	904	15.8	13.8
Married, spouse present .....	256	194	8.4	6.3	191	172	8.5	7.4
Widowed, divorced, or separated .....	143	101	15.4	10.4	207	185	11.8	10.1
Single (never married) .....	636	588	24.4	23.2	613	546	25.5	22.9
Total, 25 years and over .....	2,768	2,463	5.2	4.5	2,264	1,846	5.5	4.4
Married, spouse present .....	1,586	1,457	4.0	3.6	1,149	928	4.5	3.5
Widowed, divorced, or separated .....	504	382	8.3	6.1	776	608	8.1	6.2
Single (never married) .....	679	624	8.9	7.8	338	308	6.0	5.4
White, 25 years and over .....	2,108	1,892	4.5	4.0	1,687	1,333	4.8	3.7
Married, spouse present .....	1,277	1,212	3.6	3.4	944	767	4.1	3.2
Widowed, divorced, or separated .....	355	284	7.0	5.5	562	413	7.3	5.4
Single (never married) .....	475	396	7.6	6.1	181	152	4.2	3.5
Black, 25 years and over .....	555	470	11.1	9.2	503	448	10.3	8.8
Married, spouse present .....	235	184	8.1	6.2	157	128	7.6	5.9
Widowed, divorced, or separated .....	138	86	15.2	9.2	195	171	11.5	9.5
Single (never married) .....	182	202	15.4	16.8	150	150	13.4	13.0

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

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
Total, 16 years and over .....	8,775	7,655	7.3	6.3	7.1	6.2	7.7	6.4
Managerial and professional specialty .....	653	662	2.4	2.4	2.2	2.3	2.8	2.5
Executive, administrative, and managerial .....	342	338	2.6	2.5	2.1	2.4	3.5	2.7
Professional specialty .....	311	324	2.2	2.3	2.2	2.2	2.3	2.4
Technical, sales, and administrative support .....	1,823	1,661	5.0	4.5	4.1	4.0	5.5	4.8
Technicians and related support .....	110	94	3.2	2.7	3.1	3.3	3.3	2.0
Sales occupations .....	811	698	5.7	4.8	4.1	3.3	7.3	6.5
Administrative support, including clerical .....	902	869	4.9	4.5	4.7	5.6	4.9	4.3
Service occupations .....	1,339	1,298	8.4	7.9	8.6	8.0	8.3	7.8
Private household .....	72	53	6.4	5.5	( <sup>1</sup> )	( <sup>1</sup> )	6.5	5.5
Protective service .....	82	120	4.3	5.6	4.3	5.0	4.3	9.2
Service, except private household and protective .....	1,184	1,125	9.2	8.4	10.3	9.2	8.7	7.9
Precision production, craft, and repair .....	987	865	6.7	5.9	6.4	6.0	9.8	5.5
Mechanics and repairers .....	232	178	5.0	3.9	4.9	4.0	7.7	1.1
Construction trades .....	460	460	8.1	8.3	8.0	8.4	9.8	3.6
Other precision production, craft, and repair .....	296	227	6.7	5.1	5.6	4.7	10.2	6.4
Operators, fabricators, and laborers .....	2,092	1,626	10.6	8.4	10.2	8.3	11.9	8.6
Machine operators, assemblers, and inspectors .....	930	697	10.3	8.0	8.9	7.6	12.4	8.6
Transportation and material moving occupations .....	421	315	8.2	6.2	8.2	6.2	8.6	6.3
Handlers, equipment cleaners, helpers, and laborers .....	741	614	13.2	11.0	13.5	11.2	11.5	9.6
Construction laborers .....	187	156	18.9	15.5	19.3	14.8	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	554	458	12.0	10.0	12.0	10.3	11.9	8.6
Farming, forestry, and fishing .....	278	225	6.2	5.1	6.0	4.9	7.5	5.8
No previous work experience .....	1,545	1,292						
16 to 19 years .....	1,147	930						
20 to 24 years .....	225	241						
25 years and over .....	173	122						

<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 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
Total, 16 years and over .....	8,775	7,655	7.3	6.3	7.1	6.2	7.7	6.4
Nonagricultural private wage and salary workers .....	6,208	5,420	6.9	6.0	7.0	6.2	6.9	5.8
Mining .....	180	96	16.5	10.3	18.3	11.5	8.0	3.9
Construction .....	670	634	10.5	9.8	10.6	10.3	8.5	5.7
Manufacturing .....	1,561	1,179	7.0	5.4	6.0	5.2	9.0	5.9
Durable goods .....	926	692	7.0	5.3	6.4	5.5	8.6	5.0
Lumber and wood products .....	79	39	10.7	5.1	10.8	4.6	10.1	8.3
Furniture and fixtures .....	55	41	8.4	6.2	7.3	7.4	10.5	3.2
Stone, clay, and glass products .....	43	29	6.7	4.8	6.9	5.9	6.1	1.4
Primary metal industries .....	104	70	11.6	7.6	11.3	7.7	13.4	7.1
Fabricated metal products .....	126	82	8.8	6.4	8.9	6.2	8.5	6.8
Machinery, except electrical .....	162	147	6.2	5.8	5.5	5.8	8.1	5.6
Electrical machinery, equipment, and supplies ..	141	94	6.4	4.2	4.4	4.5	9.5	3.8
Transportation equipment .....	136	143	5.0	5.2	4.5	5.1	6.7	5.8
Automobiles .....	80	85	6.0	6.5	4.8	6.1	10.5	8.4
Other transportation equipment .....	56	58	3.9	4.1	4.1	4.1	3.4	3.8
Professional and photographic equipment ..	36	17	4.6	2.5	3.2	1.5	6.6	3.8
Other durable goods industries .....	43	29	8.9	6.0	7.6	5.5	10.5	6.9
Nondurable goods .....	635	487	7.0	5.5	5.3	4.7	9.4	6.7
Food and kindred products .....	193	133	9.9	7.5	7.2	6.2	15.2	10.1
Textile mill products .....	66	25	8.3	3.5	7.8	2.2	9.0	4.8
Apparel and other textile products .....	121	107	8.9	8.6	4.8	6.6	10.3	9.2
Paper and allied products .....	22	32	3.0	4.0	1.8	4.4	6.8	2.6
Printing and publishing .....	82	78	4.4	4.3	4.0	4.5	5.0	4.0
Chemicals and allied products .....	59	49	4.5	3.8	4.4	3.3	4.7	4.9
Rubber and miscellaneous plastics products .....	66	35	9.4	4.7	7.4	3.9	13.1	5.8
Other nondurable goods industries .....	27	27	7.0	7.2	4.1	6.6	13.6	8.6
Transportation and public utilities .....	303	285	5.0	4.6	5.3	4.7	4.1	4.3
Transportation .....	218	212	6.3	5.9	6.7	6.1	4.9	5.3
Communications and other public utilities .....	86	73	3.2	2.8	3.0	2.6	3.5	3.3
Wholesale and retail trade .....	1,805	1,690	7.8	7.3	7.3	6.4	8.3	8.2
Wholesale trade .....	230	199	5.1	4.3	4.8	3.8	5.9	5.8
Retail trade .....	1,574	1,491	8.5	8.0	8.2	7.3	8.7	8.5
Finance, insurance, and real estate .....	261	205	3.8	2.8	3.3	2.8	4.2	2.9
Service industries .....	1,426	1,331	6.0	5.5	6.4	6.0	5.8	5.1
Professional services .....	499	479	3.9	3.6	3.7	3.7	4.0	3.5
Other service industries .....	927	852	8.6	7.7	8.4	7.7	8.9	7.7
Agricultural wage and salary workers .....	196	132	9.8	6.4	9.2	6.2	12.3	7.1
Government, self-employed, and unpaid family workers .....	826	811	3.1	2.9	2.9	2.9	3.3	3.0
No previous work experience .....	1,545	1,292	-	-	-	-	-	-

**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 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	8,775	7,655	3,674	3,320	3,101	2,606	2,000	1,729	6,430	5,613	2,046	1,787
Job losers .....	3,962	3,305	2,488	2,159	1,254	997	220	149	2,986	2,480	875	738
On layoff .....	927	776	570	475	320	268	37	32	790	616	116	144
Other job losers .....	3,035	2,529	1,918	1,684	934	729	183	117	2,196	1,864	758	593
Job leavers .....	948	896	415	384	419	383	114	129	760	723	153	147
Reentrants .....	2,322	2,162	637	627	1,165	1,014	520	521	1,630	1,516	604	546
New entrants .....	1,543	1,292	134	150	264	212	1,146	930	1,054	894	414	357
<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 .....	45.2	43.1	67.7	65.0	40.4	38.3	11.0	7.7	46.4	44.2	42.8	41.3
On layoff .....	10.6	10.1	15.5	14.3	10.3	10.3	1.9	1.9	12.3	11.0	5.7	8.1
Other job losers .....	34.6	33.0	52.2	50.7	30.1	28.0	9.1	5.8	34.1	33.2	37.1	33.2
Job leavers .....	10.8	11.7	11.3	11.6	13.5	14.7	5.7	7.5	11.8	12.9	7.5	8.2
Reentrants .....	26.5	28.2	17.3	18.9	37.6	38.9	26.0	30.1	25.3	27.0	29.5	30.5
New entrants .....	17.6	16.9	3.7	4.5	8.5	8.1	57.3	53.8	16.4	15.9	20.2	20.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	3.3	2.7	4.0	3.5	2.6	2.0	2.3	1.7	2.9	2.4	6.7	5.6
Job leavers .....	.8	.7	.7	.6	.9	.8	1.2	1.4	.7	.7	1.2	1.1
Reentrants .....	1.9	1.8	1.0	1.0	2.4	2.0	5.6	5.7	1.6	1.5	4.7	4.2
New entrants .....	1.3	1.1	.2	.2	.5	.4	12.2	10.2	1.0	.9	3.2	2.7

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

(Percent distribution)

Reason, sex, and age	June 1987						
	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 .....	7,655	100.0	49.0	24.2	26.7	12.8	13.9
Job losers .....	3,305	100.0	32.9	27.0	40.2	19.2	21.0
On layoff .....	776	100.0	49.7	27.4	22.9	13.7	9.2
Other job losers .....	2,529	100.0	27.7	26.8	45.5	21.0	24.5
Job leavers .....	896	100.0	50.3	30.1	19.7	7.7	11.9
Reentrants .....	2,162	100.0	60.9	20.6	18.4	10.5	7.9
New entrants .....	1,292	100.0	69.7	19.3	11.0	3.6	7.4
Men, 20 years and over .....	3,320	100.0	36.5	24.7	38.8	16.4	22.4
Job losers .....	2,159	100.0	30.4	24.3	45.3	19.1	26.2
On layoff .....	475	100.0	46.1	28.3	25.6	13.0	12.6
Other job losers .....	1,684	100.0	26.0	23.2	50.9	20.8	30.1
Job leavers .....	384	100.0	40.5	33.1	26.4	8.0	18.4
Reentrants .....	627	100.0	50.7	21.7	27.7	15.0	12.7
New entrants .....	150	100.0	53.8	22.1	24.1	5.1	19.0
Women, 20 years and over .....	2,606	100.0	49.0	27.2	23.7	13.5	10.2
Job losers .....	997	100.0	36.9	31.5	31.6	19.7	11.9
On layoff .....	268	100.0	53.3	26.3	20.4	16.0	4.4
Other job losers .....	729	100.0	30.9	33.5	35.7	21.0	14.6
Job leavers .....	383	100.0	52.8	28.7	18.5	9.6	8.9
Reentrants .....	1,014	100.0	57.7	22.8	19.5	10.8	8.7
New entrants .....	212	100.0	57.8	25.3	16.9	4.9	12.0
Both sexes, 16 to 19 years .....	1,729	100.0	73.2	18.9	7.9	4.7	3.2
Job losers .....	149	100.0	41.2	34.8	24.0	18.8	5.2
On layoff .....	32	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	117	100.0	32.2	38.3	29.5	22.9	6.6
Job leavers .....	129	100.0	71.8	24.9	3.3	1.4	1.8
Reentrants .....	521	100.0	79.7	15.1	5.2	4.4	.8
New entrants .....	930	100.0	75.0	17.5	7.6	3.1	4.4

<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 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
Total, 16 years and over .....	8,775	7,655	100.0	100.0	7,297	6,497	100.0	100.0
Less than 5 weeks .....	4,169	3,754	47.5	49.0	3,133	2,941	42.9	45.3
5 to 14 weeks .....	2,321	1,856	26.5	24.2	2,042	1,624	28.0	25.0
5 to 10 weeks .....	1,781	1,429	20.3	18.7	1,558	1,244	21.4	19.1
11 to 14 weeks .....	540	427	6.2	5.6	483	380	6.6	5.8
15 weeks and over .....	2,285	2,045	26.0	26.7	2,122	1,933	29.1	29.8
15 to 26 weeks .....	1,014	979	11.6	12.8	937	911	12.8	14.0
27 weeks and over .....	1,271	1,067	14.5	13.9	1,186	1,022	16.3	15.7
27 to 51 weeks .....	542	456	6.2	6.0	504	435	6.9	6.7
52 weeks and over .....	729	610	8.3	8.0	682	587	9.3	9.0
Average (mean) duration, in weeks .....	14.5	14.2			15.8	15.5		
Median duration, in weeks .....	5.6	5.2			6.7	6.1		

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								June 1986	June 1987	June 1986	June 1987
	June 1987										
Total, 16 years and over .....	7,655	3,754	1,856	979	1,067	14.2	5.2	47.5	49.0	26.0	26.7
16 to 19 years .....	1,729	1,266	326	82	56	6.1	3.4	71.6	73.2	10.1	7.9
20 to 24 years .....	1,616	857	418	186	155	11.5	4.7	49.6	53.0	21.9	21.1
25 to 34 years .....	2,033	840	546	314	332	15.9	6.8	40.1	41.3	28.8	31.8
35 to 44 years .....	1,157	411	304	209	233	19.5	9.1	36.5	35.5	33.5	38.2
45 to 54 years .....	672	223	144	126	180	22.8	12.0	32.7	33.2	44.9	45.4
55 to 64 years .....	394	137	101	51	105	22.2	9.7	30.4	34.7	43.2	39.6
65 years and over .....	53	19	17	10	6	( <sup>1</sup> )	( <sup>1</sup> )	46.3	( <sup>1</sup> )	26.6	( <sup>1</sup> )
Men, 16 years and over .....	4,199	1,839	981	594	784	17.0	6.5	42.1	43.8	31.2	32.8
16 to 19 years .....	879	629	160	50	39	6.7	3.5	70.0	71.5	11.6	10.2
20 to 24 years .....	856	398	235	117	106	13.6	5.7	44.9	46.5	26.9	26.0
25 to 34 years .....	1,153	428	289	178	258	19.1	8.6	33.5	37.1	33.7	37.8
35 to 44 years .....	616	176	154	118	169	24.2	12.8	32.0	28.5	37.8	46.5
45 to 54 years .....	411	120	77	87	127	24.9	16.2	21.5	29.2	57.4	52.1
55 to 64 years .....	250	77	57	36	79	24.5	12.5	23.8	31.0	50.9	46.1
65 years and over .....	34	12	8	7	7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	3,456	1,915	875	384	282	10.8	4.5	53.9	55.4	20.0	19.3
16 to 19 years .....	850	637	165	31	16	5.5	3.3	73.4	75.0	8.4	5.6
20 to 24 years .....	760	459	183	69	50	9.1	4.1	54.6	60.4	16.4	15.6
25 to 34 years .....	880	413	257	136	74	11.7	5.6	47.9	46.9	23.0	23.9
35 to 44 years .....	541	235	150	91	65	14.3	6.7	41.9	43.5	28.3	28.8
45 to 54 years .....	261	103	67	39	52	19.6	8.4	45.3	39.5	30.6	35.0
55 to 64 years .....	144	60	44	15	26	18.1	7.4	40.8	41.2	31.1	28.3
65 years and over .....	19	7	10	3	-	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	5,613	2,793	1,356	723	741	13.6	5.1	47.8	49.8	25.4	26.1
Men .....	3,162	1,418	728	454	562	16.4	6.2	43.0	44.8	30.3	32.1
Women .....	2,452	1,376	628	269	179	10.0	4.5	53.6	56.1	19.6	18.3
Black, 16 years and over .....	1,787	818	436	229	304	16.6	6.0	45.7	45.8	28.2	29.8
Men .....	883	342	209	125	207	20.0	8.0	38.0	38.7	35.0	37.7
Women .....	904	476	227	104	97	13.4	4.7	53.5	52.7	21.2	22.2
Men, 16 years and over:											
Married, spouse present .....	1,572	513	386	281	393	21.0	11.0	31.3	32.6	39.2	42.9
Widowed, divorced, or separated .....	418	135	114	78	91	21.0	10.2	30.7	32.2	43.2	40.5
Single (never married) .....	2,209	1,192	481	236	300	13.4	4.6	52.3	54.0	22.8	24.3
Women, 16 years and over:											
Married, spouse present .....	1,130	570	317	147	95	10.9	5.0	48.3	50.5	23.0	21.5
Widowed, divorced, or separated .....	701	293	176	131	101	16.2	7.5	43.4	41.8	26.4	33.0
Single (never married) .....	1,624	1,051	382	106	86	8.5	3.9	63.6	64.7	14.4	11.8

<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 1986	June 1987	June 1986	June 1987
<b>OCCUPATION</b>											
Managerial and professional specialty .....	662	269	158	122	113	16.0	7.2	40.2	40.6	28.0	35.5
Technical, sales, and administrative support .....	1,661	814	400	238	209	13.4	5.3	48.3	49.0	25.0	26.9
Service occupations .....	1,298	666	339	145	147	13.0	4.9	48.6	51.4	23.4	22.5
Precision production, craft, and repair .....	865	304	264	152	145	17.0	8.6	33.3	35.1	37.6	34.3
Operators, fabricators, and laborers .....	1,626	654	408	246	317	18.3	7.8	38.9	40.2	34.2	34.7
Farming, forestry, and fishing .....	225	140	25	25	35	13.6	4.0	47.4	62.2	20.6	26.7
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	132	77	17	16	22	13.4	4.3	45.7	58.1	21.0	28.9
Construction .....	671	256	182	124	109	16.1	8.5	39.8	38.1	33.4	34.8
Manufacturing .....	1,182	427	311	220	224	19.2	9.0	34.9	36.1	35.2	37.6
Durable goods .....	695	234	181	120	160	21.7	9.8	31.2	33.6	37.7	40.3
Nondurable goods .....	487	193	129	100	65	15.8	8.1	40.3	39.6	31.5	33.7
Transportation and public utilities .....	320	112	89	46	74	20.9	9.7	32.4	34.8	43.4	37.5
Wholesale and retail trade .....	1,696	885	389	254	167	11.9	4.8	48.4	52.2	25.0	24.8
Finance and service industries .....	1,858	918	484	216	242	13.3	5.4	47.9	49.4	24.0	24.5
Public administration .....	219	77	55	30	58	21.3	10.1	43.5	35.0	30.1	40.1
No previous work experience .....	1,292	900	249	47	95	8.8	3.6	70.2	69.7	11.0	11.0

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, and race	June 1987								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	7,655	6,608	22.0	7.1	75.4	35.2	18.7	4.6	1.63
16 to 19 years .....	1,729	1,623	12.4	3.4	80.2	26.4	17.3	3.9	1.44
20 to 24 years .....	1,616	1,454	22.9	7.4	74.0	35.6	19.7	4.9	1.65
25 to 34 years .....	2,033	1,702	26.5	7.1	75.4	41.2	18.4	3.4	1.72
35 to 44 years .....	1,157	945	26.6	10.8	74.4	36.3	20.0	5.5	1.74
45 to 54 years .....	672	534	25.8	10.9	73.2	40.6	15.7	5.1	1.71
55 to 64 years .....	394	306	21.2	8.5	62.7	35.3	22.5	9.2	1.59
65 years and over .....	53	43	( <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 .....	4,199	3,559	23.7	7.3	75.9	34.2	21.5	5.4	1.68
16 to 19 years .....	879	820	14.3	3.8	80.0	27.2	20.0	3.2	1.48
20 to 24 years .....	856	744	24.6	6.6	75.5	33.5	23.5	5.8	1.69
25 to 34 years .....	1,153	950	28.9	7.7	75.8	40.1	20.1	4.1	1.77
35 to 44 years .....	616	492	27.2	11.4	74.4	33.9	25.0	7.7	1.80
45 to 54 years .....	411	331	26.9	10.9	72.2	39.0	18.1	6.9	1.74
55 to 64 years .....	250	194	19.1	7.7	70.1	31.4	23.2	11.9	1.63
65 years and over .....	34	28	( <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 .....	3,456	3,049	20.0	6.9	74.8	36.5	15.3	3.5	1.57
16 to 19 years .....	850	803	10.5	3.0	80.4	25.7	14.4	4.6	1.39
20 to 24 years .....	760	710	21.3	8.2	72.4	37.9	15.8	4.1	1.60
25 to 34 years .....	880	752	23.4	6.3	74.9	42.7	16.2	2.5	1.66
35 to 44 years .....	541	453	25.6	10.4	74.4	38.9	14.6	3.1	1.67
45 to 54 years .....	261	204	24.5	10.8	74.5	43.1	11.8	2.0	1.67
55 to 64 years .....	144	112	25.9	10.7	50.0	42.0	21.4	4.5	1.54
65 years and over .....	19	16	( <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 .....	5,613	4,746	20.6	6.7	75.4	37.5	19.0	4.7	1.64
Men .....	3,162	2,646	22.2	6.7	75.3	35.7	22.3	6.0	1.68
Women .....	2,452	2,101	18.7	6.7	75.5	39.7	14.9	3.2	1.59
Black, 16 years and over .....	1,787	1,631	25.0	7.7	75.7	28.4	18.1	3.8	1.59
Men .....	883	778	26.7	8.9	77.8	28.7	19.9	3.3	1.65
Women .....	904	853	23.3	6.7	73.9	28.3	16.4	4.3	1.53

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

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

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

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

Sex and reason	June 1987								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	7,655	6,608	22.0	7.1	75.4	35.2	18.7	4.6	1.63
Job losers <sup>1</sup> .....	3,305	2,504	23.0	8.6	76.1	37.8	22.1	4.1	1.77
Job leavers .....	896	867	23.8	9.3	76.5	44.5	15.9	3.5	1.73
Reentrants .....	2,162	1,975	19.1	6.5	73.5	33.9	15.5	5.5	1.54
New entrants .....	1,292	1,262	13.2	3.5	76.5	25.8	18.6	4.8	1.42
Men, 16 years and over .....	4,199	3,559	23.7	7.3	75.9	34.2	21.5	5.4	1.68
Job losers <sup>1</sup> .....	2,250	1,736	27.8	7.9	77.5	35.5	24.1	4.8	1.78
Job leavers .....	457	441	28.1	10.0	75.1	43.3	15.2	5.0	1.77
Reentrants .....	891	799	19.5	7.5	71.8	32.9	20.3	8.1	1.60
New entrants .....	600	583	13.7	3.1	77.2	25.0	20.2	3.9	1.43
Women, 16 years and over .....	3,456	3,049	20.0	6.9	74.8	36.5	15.3	3.5	1.57
Job losers <sup>1</sup> .....	1,055	768	28.6	10.2	72.9	43.0	17.4	2.6	1.75
Job leavers .....	438	427	19.2	8.9	77.5	45.7	16.6	1.9	1.70
Reentrants .....	1,271	1,176	18.8	5.8	74.5	34.7	12.3	3.7	1.50
New entrants .....	692	679	12.8	3.8	75.8	26.4	17.2	5.4	1.42

<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 1986	June 1987	June 1986	June 1987	June 1986	June 1987
All industries .....	110,869	113,498	61,960	63,045	48,909	50,453
16 to 19 years .....	7,356	7,418	3,855	3,862	3,501	3,556
16 to 17 years .....	3,026	3,072	1,644	1,644	1,382	1,425
18 to 19 years .....	4,330	4,347	2,211	2,215	2,119	2,131
20 to 24 years .....	14,260	13,908	7,582	7,326	6,678	6,582
25 to 54 years .....	74,769	77,615	42,054	43,258	32,716	34,357
25 to 34 years .....	32,259	33,166	18,206	18,608	14,052	14,558
35 to 44 years .....	25,612	26,994	14,234	14,886	11,378	12,107
45 to 54 years .....	16,899	17,455	9,613	9,765	7,286	7,691
55 to 64 years .....	11,507	11,441	6,685	6,674	4,821	4,767
55 to 59 years .....	6,902	6,989	3,983	4,069	2,919	2,920
60 to 64 years .....	4,604	4,452	2,702	2,605	1,902	1,847
65 years and over .....	2,978	3,117	1,784	1,926	1,193	1,191
Agriculture .....	3,651	3,661	2,904	2,876	747	786
16 to 19 years .....	439	418	370	343	69	75
16 to 17 years .....	238	241	197	199	42	42
18 to 19 years .....	201	177	174	144	27	33
20 to 24 years .....	463	424	376	342	87	81
25 to 54 years .....	1,928	1,959	1,476	1,498	452	460
25 to 34 years .....	810	895	649	719	161	176
35 to 44 years .....	579	568	405	424	174	144
45 to 54 years .....	539	496	422	355	117	141
55 to 64 years .....	464	511	363	391	101	120
55 to 59 years .....	242	265	181	201	61	65
60 to 64 years .....	222	246	183	190	40	56
65 years and over .....	357	350	317	302	40	48
Nonagricultural industries .....	107,218	109,837	59,056	60,170	48,162	49,667
16 to 19 years .....	6,917	7,000	3,485	3,519	3,432	3,481
16 to 17 years .....	2,788	2,831	1,447	1,448	1,340	1,383
18 to 19 years .....	4,129	4,170	2,037	2,071	2,092	2,098
20 to 24 years .....	13,797	13,484	7,206	6,983	6,591	6,501
25 to 54 years .....	72,841	75,656	40,577	41,760	32,264	33,895
25 to 34 years .....	31,449	32,271	17,557	17,889	13,892	14,382
35 to 44 years .....	25,033	26,426	13,829	14,462	11,204	11,964
45 to 54 years .....	16,360	16,959	9,191	9,410	7,169	7,550
55 to 64 years .....	11,042	10,930	6,322	6,283	4,720	4,647
55 to 59 years .....	6,660	6,724	3,802	3,868	2,858	2,856
60 to 64 years .....	4,382	4,206	2,520	2,415	1,863	1,791
65 years and over .....	2,621	2,767	1,467	1,624	1,154	1,143

**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 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
Total	110,869	113,498	61,960	63,045	58,105	59,184	48,909	50,453	45,408	46,896
Managerial and professional specialty	26,185	27,233	14,781	15,226	14,693	15,117	11,404	12,007	11,272	11,864
Executive, administrative, and managerial	12,641	13,246	7,981	8,286	7,936	8,239	4,659	4,960	4,615	4,894
Officials and administrators, public administration	488	529	284	318	284	318	204	211	202	210
Other executive, administrative, and managerial	8,636	9,199	5,800	6,125	5,760	6,085	2,836	3,074	2,802	3,028
Management-related occupations	3,517	3,517	1,897	1,843	1,891	1,836	1,620	1,675	1,611	1,656
Professional specialty	13,544	13,988	6,800	6,941	6,757	6,878	6,744	7,047	6,657	6,970
Engineers	1,705	1,676	1,613	1,538	1,613	1,536	91	138	92	138
Mathematical and computer scientists	595	708	375	463	372	463	220	245	219	245
Natural scientists	372	378	278	276	278	276	94	102	94	102
Health diagnosing occupations	714	762	616	648	616	647	99	115	97	115
Health assessment and treating occupations	2,066	2,116	278	264	278	264	1,788	1,852	1,783	1,849
Teachers, college and university	513	564	336	349	335	349	177	215	176	210
Teachers, except college and university	3,378	3,332	919	918	908	905	2,459	2,413	2,435	2,390
Lawyers and judges	658	716	536	571	534	571	122	145	122	145
Other professional specialty occupations	3,543	3,736	1,849	1,914	1,823	1,866	1,694	1,821	1,640	1,775
Technical, sales, and administrative support	34,512	35,386	12,066	12,595	11,486	11,918	22,445	22,791	20,608	20,959
Technicians and related support	3,366	3,405	1,801	1,778	1,757	1,752	1,565	1,628	1,528	1,604
Health technologists and technicians	1,082	1,137	169	177	163	176	912	960	902	952
Engineering and science technicians	1,172	1,179	931	942	908	934	241	237	229	231
Technicians, except health, engineering, and science	1,112	1,089	700	659	686	642	412	430	397	421
Sales occupations	13,463	13,703	6,845	7,125	6,491	6,702	6,618	6,577	5,557	5,485
Supervisors and proprietors	3,512	3,658	2,423	2,474	2,405	2,446	1,089	1,183	1,079	1,162
Sales representatives, finance and business services	2,260	2,389	1,304	1,395	1,295	1,376	955	994	925	947
Sales representatives, commodities, except retail	1,542	1,583	1,247	1,324	1,232	1,315	295	259	289	250
Sales workers, retail and personal services	6,094	6,001	1,853	1,905	1,543	1,541	4,241	4,095	3,230	3,086
Sales-related occupations	55	72	17	27	17	24	38	45	34	40
Administrative support, including clerical	17,683	18,278	3,421	3,692	3,238	3,464	14,262	14,586	13,523	13,870
Supervisors	723	681	300	305	297	300	423	376	423	376
Computer equipment operators	910	966	250	326	231	308	660	639	627	605
Secretaries, stenographers, and typists	4,970	4,935	95	98	88	89	4,875	4,837	4,635	4,630
Financial records processing	2,447	2,616	233	245	224	242	2,214	2,371	2,164	2,329
Mail and message distributing	900	994	600	657	575	626	300	337	279	323
Other administrative support, including clerical	7,733	8,086	1,944	2,060	1,824	1,898	5,789	6,026	5,395	5,607
Service occupations	14,557	15,219	5,725	5,962	4,718	4,994	8,832	9,258	7,604	8,006
Private household	1,060	917	54	37	37	23	1,006	879	770	672
Protective service	1,845	2,003	1,619	1,695	1,538	1,645	226	307	187	262
Service, except private household and protective	11,651	12,300	4,052	4,229	3,142	3,327	7,600	8,071	6,646	7,072
Food service	5,162	5,335	1,879	1,920	1,215	1,252	3,283	3,415	2,604	2,729
Health service	1,732	1,859	189	208	180	188	1,542	1,651	1,461	1,578
Cleaning and building service	2,793	2,887	1,602	1,692	1,431	1,530	1,191	1,195	1,112	1,117
Personal service	1,965	2,219	381	408	317	357	1,583	1,811	1,469	1,647
Precision production, craft, and repair	13,773	13,695	12,613	12,500	12,211	12,177	1,159	1,195	1,129	1,161
Mechanics and repairers	4,399	4,389	4,255	4,252	4,149	4,150	144	137	144	130
Construction trades	5,239	5,087	5,124	4,956	4,893	4,777	115	131	106	126
Other precision production, craft, and repair	4,135	4,218	3,235	3,292	3,169	3,250	900	927	879	904
Operators, fabricators, and laborers	17,650	17,755	13,267	13,258	12,030	11,991	4,383	4,497	4,184	4,282
Machine operators, assemblers, and inspectors	8,074	8,024	4,837	4,720	4,634	4,518	3,237	3,304	3,143	3,213
Manufacturing industries	6,731	6,677	3,995	3,845	3,847	3,706	2,735	2,832	2,664	2,767
Durable goods	3,727	3,640	2,603	2,479	2,508	2,397	1,124	1,161	1,101	1,129
Nondurable goods	3,003	3,037	1,392	1,366	1,339	1,309	1,611	1,671	1,563	1,638
Nonmanufacturing industries	1,343	1,347	842	875	786	812	501	472	479	446
Transportation and material moving occupations	4,710	4,750	4,324	4,383	4,146	4,235	386	367	375	352
Motor vehicle operators	3,425	3,448	3,084	3,117	2,953	2,988	341	331	330	317
Other transportation and material moving occupations	1,285	1,302	1,240	1,266	1,193	1,247	45	36	45	35
Handlers, equipment cleaners, helpers, and laborers	4,866	4,981	4,105	4,156	3,251	3,238	761	826	666	717
Construction laborers	803	855	780	828	651	718	23	27	23	25
Other handlers, equipment cleaners, helpers, and laborers	4,064	4,126	3,325	3,328	2,600	2,520	739	799	643	692
Farming, forestry, and fishing	4,193	4,210	3,507	3,505	2,967	2,986	686	705	612	625
Farm operators and managers	1,450	1,405	1,240	1,183	1,225	1,163	210	222	209	222
Other farming, forestry, and fishing occupations	2,743	2,805	2,267	2,322	1,742	1,823	476	483	403	404



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	June 1986	June 1987	June 1986	June 1987	June 1986	June 1987
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	110,869	113,498	61,960	63,045	48,909	50,453
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	23.6	24.0	23.9	24.2	23.3	23.8
Executive, administrative, and managerial .....	11.4	11.7	12.9	13.1	9.5	9.8
Professional specialty .....	12.2	12.3	11.0	11.0	13.8	14.0
Technical, sales, and administrative support .....	31.1	31.2	19.5	20.0	45.9	45.2
Technicians and related support .....	3.0	3.0	2.9	2.8	3.2	3.2
Sales occupations .....	12.1	12.1	11.0	11.3	13.5	13.0
Administrative support, including clerical .....	15.9	16.1	5.5	5.9	29.2	28.9
Service occupations .....	13.1	13.4	9.2	9.5	18.1	18.3
Private household .....	1.0	.8	.1	.1	2.1	1.7
Protective service .....	1.7	1.8	2.6	2.7	.5	.6
Service, except private household and protective .....	10.5	10.8	6.5	6.7	15.5	16.0
Precision production, craft, and repair .....	12.4	12.1	20.4	19.8	2.4	2.4
Operators, fabricators, and laborers .....	15.9	15.6	21.4	21.0	9.0	8.9
Machine operators, assemblers, and inspectors .....	7.3	7.1	7.8	7.5	6.6	6.5
Transportation and material moving occupations .....	4.2	4.2	7.0	7.0	.8	.7
Handlers, equipment cleaners, helpers, and laborers .....	4.4	4.4	6.6	6.6	1.6	1.6
Farming, forestry, and fishing .....	3.8	3.7	5.7	5.6	1.4	1.4
<b>White</b>						
Total, 16 years and over (thousands) .....	96,823	98,796	54,739	55,532	42,084	43,264
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	24.6	24.9	24.8	25.1	24.3	24.7
Executive, administrative, and managerial .....	12.0	12.3	13.5	13.9	10.1	10.3
Professional specialty .....	12.6	12.6	11.3	11.3	14.3	14.4
Technical, sales, and administrative support .....	31.6	31.7	19.9	20.3	46.8	46.3
Technicians and related support .....	3.1	3.0	3.0	2.9	3.2	3.2
Sales occupations .....	12.8	12.7	11.7	12.0	14.1	13.7
Administrative support, including clerical .....	15.8	16.0	5.2	5.5	29.5	29.5
Service occupations .....	12.1	12.2	8.4	8.4	17.0	17.0
Private household .....	.8	.7	.1	.1	1.8	1.5
Protective service .....	1.6	1.6	2.5	2.5	.4	.5
Service, except private household and protective .....	9.7	9.9	5.8	5.9	14.8	15.0
Precision production, craft, and repair .....	12.8	12.6	20.9	20.5	2.2	2.4
Operators, fabricators, and laborers .....	14.9	14.7	20.2	19.8	8.1	8.1
Machine operators, assemblers, and inspectors .....	6.8	6.6	7.5	7.2	5.9	5.9
Transportation and material moving occupations .....	4.1	4.0	6.6	6.6	.8	.7
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.1	6.1	6.1	1.5	1.5
Farming, forestry, and fishing .....	4.0	3.9	5.9	5.8	1.5	1.5
<b>Black</b>						
Total, 16 years and over (thousands) .....	10,936	11,346	5,547	5,716	5,389	5,630
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	14.3	14.9	13.4	13.3	15.3	16.6
Executive, administrative, and managerial .....	6.0	6.3	6.9	6.5	5.1	6.1
Professional specialty .....	8.3	8.6	6.5	6.8	10.2	10.5
Technical, sales, and administrative support .....	27.4	26.5	15.4	15.3	39.7	37.9
Technicians and related support .....	2.4	2.5	1.8	1.6	3.0	3.4
Sales occupations .....	7.3	6.7	5.5	4.5	9.2	8.9
Administrative support, including clerical .....	17.7	17.4	8.2	9.2	27.5	25.7
Service occupations .....	21.6	23.5	16.1	18.9	27.2	28.3
Private household .....	2.3	1.9	.1	.1	4.5	3.7
Protective service .....	2.3	3.3	3.9	5.1	.7	1.4
Service, except private household and protective .....	16.9	18.4	12.1	13.7	21.9	23.2
Precision production, craft, and repair .....	9.8	8.7	16.4	15.3	3.0	2.0
Operators, fabricators, and laborers .....	24.7	24.0	34.6	33.4	14.4	14.5
Machine operators, assemblers, and inspectors .....	11.3	10.5	11.3	10.4	11.3	10.7
Transportation and material moving occupations .....	6.3	6.2	11.5	11.3	1.0	1.1
Handlers, equipment cleaners, helpers, and laborers .....	7.1	7.2	11.8	11.7	2.2	2.7
Farming, forestry, and fishing .....	2.3	2.2	4.1	3.8	.4	.6

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	June 1987								
	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 .....	101,264	1,242	16,515	83,507	8,286	287	1,937	1,514	211
16 to 19 years .....	6,902	337	396	6,169	82	17	320	51	47
16 to 17 years .....	2,786	226	145	2,415	39	6	179	37	25
18 to 19 years .....	4,116	111	251	3,754	43	11	141	14	22
20 to 24 years .....	13,132	133	1,164	11,835	325	27	346	57	20
25 to 34 years .....	30,255	170	4,258	25,827	1,960	56	575	276	44
35 to 44 years .....	23,902	175	4,988	18,739	2,453	71	262	287	19
45 to 54 years .....	15,311	174	3,417	11,721	1,590	58	218	248	31
55 to 64 years .....	9,582	148	1,934	7,499	1,308	40	132	346	32
55 to 59 years .....	5,917	89	1,224	4,604	782	25	75	174	17
60 to 64 years .....	3,665	59	710	2,895	526	15	58	173	15
65 years and over .....	2,180	105	358	1,718	568	19	84	248	18
Men, 16 years and over .....	54,662	224	8,034	46,403	5,470	38	1,518	1,271	87
16 to 19 years .....	3,463	113	195	3,155	47	9	261	48	34
16 to 17 years .....	1,421	78	77	1,266	22	4	150	34	14
18 to 19 years .....	2,042	35	118	1,889	25	5	111	14	19
20 to 24 years .....	6,749	28	537	6,184	223	12	273	52	18
25 to 34 years .....	16,650	28	2,046	14,576	1,232	7	463	238	17
35 to 44 years .....	12,893	11	2,371	10,510	1,567	2	195	226	3
45 to 54 years .....	8,295	14	1,688	6,593	1,113	2	154	201	-
55 to 64 years .....	5,374	10	1,009	4,354	906	3	99	288	3
55 to 59 years .....	3,334	4	658	2,672	532	2	54	144	2
60 to 64 years .....	2,040	6	352	1,682	375	1	45	144	1
65 years and over .....	1,239	20	189	1,030	382	3	72	217	13
Women, 16 years and over .....	46,602	1,017	8,481	37,104	2,816	249	419	243	124
16 to 19 years .....	3,438	224	201	3,013	35	8	59	3	14
16 to 17 years .....	1,364	149	68	1,148	17	2	29	3	10
18 to 19 years .....	2,074	76	133	1,865	18	6	30	-	3
20 to 24 years .....	6,384	105	628	5,650	102	16	74	6	2
25 to 34 years .....	13,606	143	2,212	11,251	728	49	111	38	27
35 to 44 years .....	11,009	163	2,617	8,229	886	69	68	60	16
45 to 54 years .....	7,016	159	1,729	5,128	478	56	63	46	31
55 to 64 years .....	4,208	138	925	3,145	402	37	33	58	29
55 to 59 years .....	2,583	85	566	1,932	251	22	20	30	15
60 to 64 years .....	1,625	53	359	1,213	151	15	13	29	14
65 years and over .....	941	85	169	688	186	15	11	32	5

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	June 1987												
	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 .....	3,661	72	44	23	23	95		22	23	7	48	20	3,286
Mining .....	853	108	80	22	14	83		6	306	23	153	49	7
Construction .....	7,810	965	113	62	64	469		36	4,467	68	543	994	28
Manufacturing .....	21,057	2,278	1,725	754	690	2,506		381	3,981	6,677	835	1,131	99
Durable goods .....	12,570	1,423	1,188	562	303	1,437		201	2,783	3,640	406	537	89
Nondurable goods .....	8,487	855	536	192	387	1,069		180	1,198	3,037	430	595	10
Transportation and public utilities .....	7,897	870	427	250	292	2,216		249	1,227	141	1,693	514	18
Wholesale and retail trade .....	23,701	1,985	410	100	9,792	2,444		4,419	1,472	281	970	1,786	42
Wholesale trade .....	4,716	512	69	53	1,830	851		29	326	130	534	363	18
Retail trade .....	18,985	1,473	341	47	7,963	1,593		4,389	1,146	151	437	1,423	24
Finance, insurance, and real estate .....	7,811	1,851	194	153	1,890	3,153	-	282	153	17	15	23	79
Services .....	35,311	4,042	10,243	1,827	919	5,842	917	7,558	1,786	764	436	404	573
Private households .....	1,253	3	13	4	5	7	917	97	16	1	11	37	145
Other service industries .....	34,058	4,040	10,230	1,823	915	5,835	-	7,462	1,770	763	425	367	428
Professional services .....	22,263	2,263	9,044	1,501	134	4,206	-	4,092	397	192	226	88	122
Public administration .....	5,395	1,074	752	214	17	1,470	-	1,348	278	47	57	60	77

<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 1986	June 1987	Total		Wage and salary workers <sup>1</sup>			
			June 1986	June 1987	Paid absences		Unpaid absences	
					June 1986	June 1987	June 1986	June 1987
Total, 16 years and over .....	7,348	7,160	7,242	7,053	3,796	3,928	2,867	2,562
Vacation .....	4,766	4,732	4,728	4,694	3,049	3,141	1,380	1,288
Illness .....	1,222	1,232	1,209	1,207	489	508	634	616
Bad weather .....	98	73	71	55	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	156	20	156	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,106	1,103	1,078	1,077	257	278	853	658
Men, 16 years and over .....	3,306	3,152	3,216	3,067	1,839	1,828	1,048	942
Vacation .....	2,010	2,018	1,979	1,993	1,457	1,475	369	384
Illness .....	684	626	673	603	273	254	344	301
All other reasons <sup>3</sup> .....	612	507	563	471	108	99	335	258
Women, 16 years and over .....	4,041	4,008	4,026	3,986	1,956	2,099	1,821	1,621
Vacation .....	2,756	2,713	2,749	2,702	1,592	1,666	1,011	905
Illness .....	537	606	535	604	216	254	291	316
All other reasons <sup>3</sup> .....	748	688	741	681	148	180	519	400

<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 1987					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	106,338	3,555	102,783	100.0	100.0	100.0
1 to 34 hours .....	24,034	1,045	22,990	22.6	29.4	22.4
1 to 4 hours .....	763	61	702	.7	1.7	.7
5 to 14 hours .....	4,096	272	3,824	3.9	7.7	3.7
15 to 29 hours .....	12,112	462	11,650	11.4	13.0	11.3
30 to 34 hours .....	7,063	250	6,814	6.6	7.0	6.6
35 hours and over .....	82,303	2,510	79,793	77.4	70.6	77.6
35 to 39 hours .....	7,368	151	7,217	6.9	4.2	7.0
40 hours .....	43,865	650	43,215	41.3	18.3	42.0
41 hours and over .....	31,070	1,709	29,361	29.2	48.1	28.6
41 to 48 hours .....	11,177	263	10,914	10.5	7.4	10.6
49 to 59 hours .....	11,180	439	10,741	10.5	12.3	10.5
60 hours and over .....	8,713	1,007	7,706	8.2	28.3	7.5
Average hours, total at work .....	39.6	45.4	39.4			
Average hours, workers on full-time schedules .....	43.8	54.3	43.4			

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

(Numbers in thousands)

Reason for working less than 35 hours	June 1987					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	24,034	6,755	17,281	22,990	6,491	16,501
Economic reasons .....	5,723	1,720	4,003	5,395	1,613	3,782
Slack work .....	2,234	1,284	950	2,075	1,196	879
Material shortages or repairs to plant and equipment .....	72	72	-	72	72	-
New job started during week .....	273	273	-	255	255	-
Job terminated during week .....	91	91	-	91	91	-
Could find only part-time work .....	3,053	-	3,053	2,903	-	2,903
Other reasons .....	18,310	5,032	13,278	17,594	4,876	12,718
Does not want, or unavailable for, full-time work .....	10,817	-	10,817	10,392	-	10,392
Vacation .....	2,017	2,017	-	2,008	2,008	-
Illness .....	1,205	1,021	184	1,176	1,004	172
Bad weather .....	348	348	-	287	287	-
Industrial dispute .....	1	1	-	1	1	-
Legal or religious holiday .....	55	55	-	54	54	-
Full time for this job .....	1,677	-	1,677	1,611	-	1,611
All other reasons .....	2,193	1,592	601	2,066	1,522	544
Average hours:						
Economic reasons .....	21.6	23.6	20.8	21.8	23.7	21.0
Other reasons .....	21.4	25.6	19.8	21.5	25.7	19.9
Worked 30 to 34 hours:						
Economic reasons .....	1,706	684	1,022	1,639	658	981
Other reasons .....	5,357	2,489	2,868	5,175	2,431	2,744

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Industry	June 1987								
	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 .....	102,783	5,395	12,718	84,670	55,309	10,914	18,447	39.4	43.4
Wage and salary workers .....	94,734	4,856	11,314	78,564	52,614	10,277	15,673	39.2	43.0
Mining .....	766	43	14	709	347	104	258	45.8	47.8
Construction .....	6,089	378	265	5,446	3,629	631	1,186	40.6	43.0
Manufacturing .....	19,749	506	563	18,680	12,137	2,957	3,586	42.1	43.2
Durable goods .....	11,856	186	233	11,437	7,331	1,836	2,270	42.7	43.4
Nondurable goods .....	7,893	320	329	7,244	4,807	1,120	1,317	41.3	43.0
Transportation and public utilities .....	7,032	240	385	6,407	4,195	861	1,351	41.8	43.9
Wholesale and retail trade .....	20,684	1,703	4,255	14,726	8,858	2,207	3,661	37.5	44.1
Finance, insurance, and real estate .....	6,851	165	644	6,042	4,316	706	1,020	39.5	42.0
Service industries .....	28,490	1,744	4,956	21,790	15,553	2,300	3,937	36.9	42.2
Private households .....	1,206	259	516	431	289	43	99	24.5	43.9
All other industries .....	27,284	1,485	4,440	21,359	15,264	2,257	3,838	37.5	42.2
Public administration .....	5,073	78	232	4,763	3,579	512	672	40.8	42.1
Self-employed workers .....	7,762	533	1,311	5,918	2,580	619	2,719	41.5	48.7
Unpaid family workers .....	287	7	93	187	114	18	55	37.8	46.0

**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 1987							
	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 .....	102,783	5,395	12,718	84,670	55,309	29,361	39.4	43.4
16 to 19 years .....	6,672	1,078	2,912	2,682	2,070	612	27.5	40.6
16 to 17 years .....	2,673	458	1,681	534	434	100	21.6	38.7
18 to 19 years .....	3,999	620	1,232	2,147	1,635	512	31.5	41.0
20 years and over .....	96,111	4,318	9,805	81,988	53,238	28,750	40.2	43.5
20 to 24 years .....	12,974	1,027	1,535	10,412	7,367	3,045	38.4	42.4
25 years and over .....	83,137	3,291	8,271	71,575	45,871	25,704	40.4	43.7
25 to 44 years .....	54,910	2,256	4,533	48,121	30,243	17,878	41.0	43.8
45 to 64 years .....	25,712	953	2,539	22,220	14,785	7,435	40.4	43.5
65 years and over .....	2,516	82	1,199	1,235	843	392	29.6	42.6
Men, 16 years and over .....	57,103	2,453	3,739	50,911	29,618	21,293	42.3	44.9
16 to 19 years .....	3,366	519	1,390	1,457	1,082	375	28.6	41.1
16 to 17 years .....	1,387	251	823	313	249	64	22.4	38.7
18 to 19 years .....	1,979	268	566	1,145	834	311	33.0	41.8
20 years and over .....	53,737	1,935	2,349	49,453	28,534	20,919	43.1	45.0
20 to 24 years .....	6,761	515	563	5,683	3,702	1,981	40.1	43.5
25 years and over .....	46,977	1,421	1,786	43,770	24,834	18,936	43.6	45.2
25 to 44 years .....	30,837	988	611	29,238	16,106	13,132	44.2	45.4
45 to 64 years .....	14,656	388	532	13,736	8,218	5,518	43.4	45.0
65 years and over .....	1,484	45	643	796	508	288	31.4	43.5
Women, 16 years and over .....	45,681	2,943	8,979	33,759	25,691	8,068	35.7	41.2
16 to 19 years .....	3,307	559	1,523	1,225	988	237	26.4	39.9
16 to 17 years .....	1,286	207	857	222	186	36	20.7	( <sup>1</sup> )
18 to 19 years .....	2,021	352	666	1,003	801	202	30.0	40.2
20 years and over .....	42,374	2,383	7,456	32,535	24,703	7,832	36.5	41.2
20 to 24 years .....	6,213	513	971	4,729	3,666	1,063	36.5	41.1
25 years and over .....	36,162	1,871	6,485	27,806	21,040	6,766	36.5	41.3
25 to 44 years .....	24,073	1,268	3,922	18,883	14,138	4,745	36.9	41.3
45 to 64 years .....	11,056	566	2,007	8,483	6,565	1,918	36.4	41.2
65 years and over .....	1,033	37	556	440	337	103	27.0	41.0
<b>RACE</b>								
White, 16 years and over .....	89,181	4,372	11,524	73,285	46,458	26,827	39.5	43.7
Men .....	50,153	1,985	3,327	44,841	25,213	19,628	42.6	45.2
Women .....	39,029	2,387	8,198	28,444	21,245	7,199	35.6	41.3
Black, 16 years and over .....	10,469	857	880	8,732	6,943	1,789	38.0	41.4
Men .....	5,274	393	302	4,579	3,396	1,183	39.6	42.4
Women .....	5,195	464	578	4,153	3,549	604	36.4	40.4
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	36,464	904	1,238	34,322	19,067	15,255	44.0	45.4
Widowed, divorced, or separated .....	5,518	244	257	5,017	2,873	2,144	43.1	45.4
Single (never married) .....	15,120	1,304	2,244	11,572	7,679	3,893	37.9	43.3
Women, 16 years and over:								
Married, spouse present .....	24,764	1,277	5,429	18,058	13,939	4,119	35.4	40.9
Widowed, divorced, or separated .....	8,728	550	1,030	7,148	5,271	1,877	37.8	41.7
Single (never married) .....	12,189	1,115	2,520	8,554	6,481	2,073	34.9	41.2

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	June 1987								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup>	102,258	5,311	12,618	84,329	55,016	10,918	18,395	39.4	43.4
Managerial and professional specialty	24,734	453	2,024	22,256	12,860	2,775	6,621	42.2	44.6
Executive, administrative, and managerial	12,621	128	556	11,937	6,189	1,595	4,153	44.6	46.0
Professional specialty	12,113	325	1,468	10,319	6,671	1,180	2,468	39.6	43.1
Technical, sales, and administrative support	33,474	1,421	5,297	26,756	18,583	3,328	4,846	38.1	42.6
Technicians and related support	3,231	67	289	2,875	2,021	397	457	40.6	42.8
Sales occupations	12,987	786	2,357	9,844	5,188	1,390	3,266	39.5	45.6
Administrative support, including clerical	17,256	568	2,652	14,037	11,374	1,541	1,123	36.6	40.4
Service occupations	14,324	1,666	3,559	9,099	6,636	963	1,500	34.5	42.6
Private household	891	186	374	331	215	38	77	26.0	44.9
Protective service	1,859	62	152	1,645	1,031	249	365	42.0	44.7
Service, except private household and protective	11,574	1,418	3,032	7,124	5,389	677	1,058	33.9	42.0
Precision production, craft, and repair	12,981	633	499	11,849	7,413	1,722	2,713	42.0	43.9
Operators, fabricators, and laborers	16,744	1,138	1,238	14,369	9,524	2,129	2,716	40.2	43.3
Machine operators, assemblers, and inspectors	7,627	358	303	6,966	4,991	1,057	918	40.5	42.2
Transportation and material moving occupations	4,385	246	269	3,871	1,943	607	1,321	43.6	46.7
Handlers, equipment cleaners, helpers, and laborers	4,733	534	666	3,532	2,591	465	477	36.4	41.8
Men, 16 years and over <sup>1</sup>	56,502	2,361	3,603	50,538	29,300	7,026	14,212	42.4	44.9
Managerial and professional specialty	14,310	212	559	13,539	6,831	1,672	5,036	45.0	46.4
Executive, administrative, and managerial	7,929	84	196	7,648	3,454	1,007	3,188	46.5	47.4
Professional specialty	6,382	127	363	5,891	3,377	665	1,849	43.2	45.1
Technical, sales, and administrative support	12,071	314	917	10,840	5,875	1,582	3,382	42.9	45.5
Technicians and related support	1,697	21	53	1,624	1,070	219	335	42.9	43.9
Sales occupations	6,858	193	559	6,106	2,587	934	2,586	44.7	47.7
Administrative support, including clerical	3,515	100	305	3,110	2,219	428	462	39.6	42.1
Service occupations	5,701	492	945	4,264	2,926	529	809	37.8	43.5
Private household	38	7	18	13	12	-	-	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,583	47	94	1,443	873	228	341	43.2	45.2
Service, except private household and protective	4,080	439	832	2,809	2,041	300	467	35.9	42.6
Precision production, craft, and repair	11,866	563	358	10,945	6,744	1,588	2,613	42.4	44.1
Operators, fabricators, and laborers	12,554	780	824	10,950	6,924	1,656	2,371	41.1	44.0
Machine operators, assemblers, and inspectors	4,488	124	116	4,247	2,915	664	667	41.8	42.9
Transportation and material moving occupations	4,092	208	194	3,690	1,826	583	1,281	44.3	46.9
Handlers, equipment cleaners, helpers, and laborers	3,974	448	513	3,013	2,182	408	422	36.8	41.9
Women, 16 years and over <sup>1</sup>	45,756	2,950	9,015	33,792	25,716	3,892	4,184	35.7	41.2
Managerial and professional specialty	10,424	242	1,465	8,717	6,029	1,103	1,584	38.3	41.9
Executive, administrative, and managerial	4,693	44	360	4,289	2,736	589	965	41.5	43.4
Professional specialty	5,731	198	1,106	4,428	3,294	515	620	35.7	40.4
Technical, sales, and administrative support	21,404	1,107	4,380	15,917	12,707	1,746	1,463	35.4	40.6
Technicians and related support	1,534	47	236	1,251	951	178	122	38.0	41.3
Sales occupations	6,128	593	1,797	3,738	2,601	456	681	33.7	42.2
Administrative support, including clerical	13,742	467	2,347	10,927	9,155	1,112	660	35.9	39.9
Service occupations	8,623	1,174	2,614	4,835	3,709	435	691	32.2	41.7
Private household	853	180	356	318	203	38	77	26.1	45.0
Protective service	276	15	58	202	157	21	24	35.1	40.7
Service, except private household and protective	7,494	979	2,200	4,315	3,349	376	590	32.8	41.5
Precision production, craft, and repair	1,115	70	141	904	670	135	100	37.9	41.5
Operators, fabricators, and laborers	4,191	357	414	3,419	2,600	474	345	37.5	41.1
Machine operators, assemblers, and inspectors	3,139	233	187	2,719	2,075	393	251	38.6	41.0
Transportation and material moving occupations	293	38	74	181	117	24	40	33.5	43.2
Handlers, equipment cleaners, helpers, and laborers	759	86	153	520	408	56	55	34.5	41.0

<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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	182,183	182,354	182,525	182,713	182,935	183,114	183,297	183,575	183,738	183,915	184,079	184,259	184,421
Labor force <sup>2</sup> .....	119,685	119,789	119,821	119,988	120,163	120,426	120,336	120,782	121,089	120,958	121,070	121,719	121,235
Percent of population <sup>2</sup> .....	65.7	65.7	65.6	65.7	65.7	65.8	65.7	65.8	65.9	65.8	65.8	66.1	65.7
Total employed <sup>3</sup> .....	111,293	111,559	111,764	111,703	111,941	112,183	112,387	112,759	113,122	113,104	113,570	114,173	113,975
Employment-population ratio <sup>3</sup> .....	61.1	61.2	61.2	61.1	61.2	61.3	61.3	61.4	61.6	61.5	61.7	62.0	61.8
Resident Armed Forces .....	1,680	1,672	1,697	1,716	1,749	1,751	1,750	1,748	1,740	1,736	1,735	1,726	1,718
Civilian employed .....	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257
Agriculture .....	3,164	3,124	3,057	3,142	3,162	3,215	3,161	3,145	3,236	3,284	3,290	3,335	3,178
Nonagricultural industries .....	106,449	106,763	107,010	106,845	107,030	107,217	107,476	107,866	108,146	108,084	108,545	109,112	109,079
Unemployed .....	8,392	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260
Unemployment rate <sup>4</sup> .....	7.0	6.9	6.7	6.9	6.8	6.8	6.6	6.6	6.6	6.5	6.2	6.2	6.0
Not in labor force .....	62,498	62,565	62,704	62,725	62,772	62,688	62,961	62,793	62,649	62,957	63,009	62,540	63,187
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	87,288	87,373	87,460	87,556	87,682	87,773	87,868	88,020	88,099	88,186	88,271	88,361	88,442
Labor force <sup>2</sup> .....	66,937	66,968	66,911	67,128	67,130	67,407	67,425	67,672	67,764	67,644	67,603	67,816	67,556
Percent of population <sup>2</sup> .....	76.7	76.6	76.5	76.7	76.6	76.8	76.7	76.9	76.9	76.7	76.6	76.7	76.4
Total employed <sup>3</sup> .....	62,318	62,402	62,483	62,528	62,565	62,833	62,986	63,187	63,335	63,282	63,417	63,562	63,471
Employment-population ratio <sup>3</sup> .....	71.4	71.4	71.4	71.4	71.4	71.6	71.7	71.8	71.9	71.8	71.8	71.9	71.8
Resident Armed Forces .....	1,525	1,518	1,541	1,560	1,590	1,592	1,593	1,591	1,584	1,575	1,575	1,566	1,559
Civilian employed .....	60,793	60,884	60,942	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996	61,912
Unemployed .....	4,619	4,566	4,428	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254	4,085
Unemployment rate <sup>4</sup> .....	6.9	6.8	6.6	6.9	6.8	6.8	6.6	6.6	6.5	6.4	6.2	6.3	6.0
Not in labor force .....	20,351	20,405	20,549	20,428	20,552	20,366	20,443	20,348	20,335	20,542	20,668	20,545	20,886
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	94,895	94,981	95,065	95,156	95,253	95,341	95,429	95,556	95,639	95,729	95,808	95,898	95,979
Labor force <sup>2</sup> .....	52,748	52,821	52,910	52,860	53,033	53,019	52,911	53,110	53,325	53,314	53,467	53,903	53,679
Percent of population <sup>2</sup> .....	55.6	55.6	55.7	55.6	55.7	55.6	55.4	55.6	55.8	55.7	55.8	56.2	55.9
Total employed <sup>3</sup> .....	48,975	49,157	49,281	49,175	49,376	49,350	49,401	49,572	49,787	49,822	50,153	50,611	50,504
Employment-population ratio <sup>3</sup> .....	51.6	51.8	51.8	51.7	51.8	51.8	51.8	51.9	52.1	52.0	52.3	52.8	52.6
Resident Armed Forces .....	155	154	156	156	159	159	157	157	156	161	160	160	159
Civilian employed .....	48,820	49,003	49,125	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451	50,345
Unemployed .....	3,773	3,664	3,629	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292	3,175
Unemployment rate <sup>4</sup> .....	7.2	6.9	6.9	7.0	6.9	6.9	6.6	6.7	6.6	6.6	6.2	6.1	5.9
Not in labor force .....	42,147	42,160	42,155	42,296	42,220	42,322	42,518	42,446	42,314	42,415	42,341	41,995	42,300

<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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	180,503	180,682	180,828	180,997	181,186	181,363	181,547	181,827	181,998	182,179	182,344	182,533	182,703
Civilian labor force .....	118,005	118,117	118,124	118,272	118,414	118,675	118,586	119,034	119,349	119,222	119,335	119,993	119,517
Percent of population .....	65.4	65.4	65.3	65.3	65.4	65.4	65.3	65.5	65.6	65.4	65.4	65.7	65.4
Employed .....	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257
Employment-population ratio <sup>2</sup> .....	60.7	60.8	60.9	60.8	60.8	60.9	60.9	61.1	61.2	61.1	61.3	61.6	61.4
Unemployed .....	8,392	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260
Unemployment rate .....	7.1	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	78,484	78,586	78,634	78,722	78,802	78,874	78,973	79,132	79,216	79,303	79,387	79,474	79,536
Civilian labor force .....	61,330	61,355	61,219	61,412	61,409	61,703	61,826	61,948	61,973	61,983	61,976	62,156	62,057
Percent of population .....	78.1	78.1	77.9	78.0	77.9	78.2	78.3	78.3	78.2	78.2	78.1	78.2	78.0
Employed .....	57,522	57,544	57,585	57,607	57,595	57,883	58,101	58,227	58,325	58,410	58,567	58,721	58,620
Employment-population ratio <sup>2</sup> .....	73.3	73.2	73.2	73.2	73.1	73.4	73.6	73.6	73.6	73.7	73.8	73.9	73.7
Agriculture .....	2,309	2,275	2,185	2,286	2,297	2,303	2,289	2,254	2,300	2,411	2,411	2,441	2,307
Nonagricultural industries .....	55,213	55,269	55,400	55,321	55,298	55,580	55,812	55,974	56,024	55,999	56,155	56,280	56,313
Unemployed .....	3,808	3,811	3,634	3,805	3,814	3,820	3,725	3,720	3,648	3,573	3,409	3,436	3,437
Unemployment rate .....	6.2	6.2	5.9	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5	5.5
Not in labor force .....	17,154	17,231	17,415	17,310	17,393	17,171	17,147	17,184	17,243	17,320	17,411	17,318	17,479
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	87,547	87,629	87,689	87,779	87,856	87,933	88,016	88,150	88,237	88,321	88,395	88,464	88,546
Civilian labor force .....	48,739	48,879	48,950	48,920	49,014	49,043	48,923	49,161	49,348	49,355	49,466	49,774	49,714
Percent of population .....	55.7	55.8	55.8	55.7	55.8	55.6	55.6	55.8	55.9	55.9	56.0	56.3	56.1
Employed .....	45,657	45,869	45,956	45,905	46,020	46,067	46,058	46,261	46,475	46,498	46,751	47,094	47,126
Employment-population ratio <sup>2</sup> .....	52.2	52.3	52.4	52.3	52.4	52.4	52.3	52.5	52.7	52.6	52.9	53.2	53.2
Agriculture .....	583	607	622	614	612	675	621	628	641	589	587	634	615
Nonagricultural industries .....	45,074	45,262	45,334	45,291	45,408	45,392	45,437	45,633	45,835	45,909	46,164	46,460	46,512
Unemployed .....	3,082	3,010	2,994	3,015	2,994	2,976	2,865	2,900	2,873	2,857	2,715	2,680	2,588
Unemployment rate .....	6.3	6.2	6.1	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4	5.2
Not in labor force .....	38,808	38,750	38,739	38,859	38,842	38,890	39,093	38,989	38,889	38,966	38,929	38,690	38,832
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,472	14,467	14,505	14,496	14,527	14,557	14,558	14,545	14,546	14,555	14,562	14,595	14,621
Civilian labor force .....	7,936	7,883	7,955	7,940	7,991	7,929	7,837	7,926	8,028	7,884	7,894	8,063	7,746
Percent of population .....	54.8	54.5	54.8	54.8	55.0	54.5	53.8	54.5	55.2	54.2	54.2	55.2	53.0
Employed .....	6,434	6,474	6,526	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633	6,511
Employment-population ratio <sup>2</sup> .....	44.5	44.8	45.0	44.7	45.3	44.5	44.5	44.9	45.2	44.4	44.8	45.4	44.5
Agriculture .....	272	242	250	242	253	237	251	264	295	284	292	261	257
Nonagricultural industries .....	6,162	6,232	6,276	6,233	6,324	6,245	6,227	6,260	6,287	6,176	6,226	6,372	6,254
Unemployed .....	1,502	1,409	1,429	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430	1,235
Unemployment rate .....	18.9	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9
Not in labor force .....	6,536	6,584	6,550	6,556	6,536	6,628	6,721	6,619	6,518	6,671	6,668	6,532	6,875

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

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

population.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	155,376	155,502	155,604	155,723	155,856	155,979	156,111	156,313	156,431	156,561	156,676	156,811	156,930
Civilian labor force .....	101,946	102,015	102,122	102,158	102,297	102,455	102,503	102,746	102,893	102,797	102,894	103,573	103,106
Percent of population .....	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.8	65.7	65.7	66.1	65.7
Employed .....	95,720	95,861	96,177	96,000	96,147	96,281	96,533	96,717	96,995	96,998	97,340	98,050	97,716
Employment-population ratio <sup>2</sup> .....	61.6	61.6	61.8	61.6	61.7	61.7	61.8	61.9	62.0	62.0	62.1	62.5	62.3
Unemployed .....	6,226	6,154	5,945	6,158	6,150	6,174	5,970	6,029	5,898	5,799	5,554	5,524	5,390
Unemployment rate .....	6.1	6.0	5.8	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3	5.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	53,651	53,639	53,583	53,727	53,757	54,015	54,172	54,182	54,175	54,107	54,051	54,314	54,213
Percent of population .....	78.5	78.4	78.2	78.4	78.3	78.7	78.8	78.7	78.6	78.4	78.3	78.6	78.4
Employed .....	50,762	50,731	50,877	50,845	50,845	51,089	51,286	51,297	51,362	51,364	51,462	51,755	51,581
Employment-population ratio <sup>2</sup> .....	74.2	74.1	74.3	74.2	74.1	74.4	74.6	74.5	74.5	74.5	74.6	74.9	74.6
Unemployed .....	2,889	2,908	2,706	2,882	2,912	2,926	2,886	2,885	2,813	2,743	2,589	2,558	2,632
Unemployment rate .....	5.4	5.4	5.1	5.4	5.4	5.4	5.3	5.3	5.2	5.1	4.8	4.7	4.9
<b>Women, 20 years and over</b>													
Civilian labor force .....	41,424	41,584	41,640	41,547	41,598	41,540	41,514	41,680	41,762	41,828	41,982	42,239	42,159
Percent of population .....	55.1	55.3	55.4	55.2	55.2	55.1	55.0	55.2	55.2	55.3	55.5	55.8	55.6
Employed .....	39,179	39,368	39,466	39,365	39,431	39,399	39,456	39,568	39,735	39,839	40,041	40,343	40,318
Employment-population ratio <sup>2</sup> .....	52.2	52.4	52.5	52.3	52.3	52.3	52.3	52.4	52.6	52.7	52.9	53.2	53.2
Unemployed .....	2,245	2,216	2,174	2,182	2,167	2,141	2,058	2,111	2,028	1,989	1,941	1,895	1,841
Unemployment rate .....	5.4	5.3	5.2	5.3	5.2	5.2	5.0	5.1	4.9	4.8	4.6	4.5	4.4
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,871	6,792	6,899	6,884	6,942	6,900	6,817	6,885	6,955	6,862	6,861	7,021	6,734
Percent of population .....	57.9	57.2	58.1	57.9	58.4	58.0	57.3	57.8	58.4	57.5	57.4	58.7	56.3
Employed .....	5,779	5,762	5,834	5,790	5,871	5,793	5,791	5,852	5,898	5,795	5,837	5,951	5,817
Employment-population ratio <sup>2</sup> .....	48.7	48.5	49.1	48.7	49.4	48.7	48.7	49.2	49.5	48.5	48.9	49.8	48.6
Unemployed .....	1,092	1,030	1,065	1,094	1,071	1,107	1,026	1,033	1,057	1,067	1,024	1,070	917
Unemployment rate .....	15.9	15.2	15.4	15.9	15.4	16.0	15.1	15.0	15.2	15.5	14.9	15.2	13.6
Men .....	17.1	15.6	16.6	16.6	15.7	16.3	15.5	16.1	16.0	17.1	16.7	17.3	14.5
Women .....	14.6	14.7	14.2	15.1	15.2	15.7	14.6	13.8	14.3	13.9	13.1	13.1	12.7
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,974	20,002	20,028	20,056	20,089	20,120	20,152	20,187	20,218	20,249	20,279	20,312	20,341
Civilian labor force .....	12,712	12,611	12,553	12,652	12,720	12,719	12,707	12,831	12,957	12,844	12,743	12,860	12,863
Percent of population .....	63.6	63.0	62.7	63.1	63.3	63.2	63.1	63.6	64.1	63.4	62.8	63.3	63.2
Employed .....	10,818	10,822	10,716	10,799	10,895	10,910	10,968	10,997	11,101	11,053	11,090	11,080	11,223
Employment-population ratio <sup>2</sup> .....	54.2	54.1	53.5	53.8	54.2	54.2	54.4	54.5	54.9	54.6	54.7	54.6	55.2
Unemployed .....	1,894	1,789	1,837	1,853	1,825	1,809	1,739	1,833	1,855	1,791	1,653	1,779	1,640
Unemployment rate .....	14.9	14.2	14.6	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8	12.7
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,948	5,939	5,885	5,906	5,932	5,934	5,947	5,986	6,012	5,997	5,980	6,033	6,001
Percent of population .....	75.3	75.0	74.2	74.4	74.6	74.5	74.5	74.9	75.1	74.8	74.4	75.0	74.5
Employed .....	5,157	5,170	5,110	5,116	5,153	5,171	5,244	5,256	5,288	5,305	5,328	5,279	5,311
Employment-population ratio <sup>2</sup> .....	65.3	65.3	64.5	64.5	64.8	65.0	65.7	65.7	66.0	66.1	66.3	65.6	65.9
Unemployed .....	791	769	775	790	779	763	703	730	724	692	652	754	690
Unemployment rate .....	13.3	12.9	13.2	13.4	13.1	12.9	11.8	12.2	12.0	11.5	10.9	12.5	11.5
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,848	5,848	5,841	5,872	5,909	5,943	5,907	5,984	6,030	5,987	5,918	5,970	6,017
Percent of population .....	58.8	58.8	58.6	58.8	59.1	59.3	58.9	59.6	59.9	59.4	58.7	59.1	59.5
Employed .....	5,107	5,141	5,112	5,145	5,178	5,200	5,182	5,221	5,255	5,211	5,238	5,278	5,349
Employment-population ratio <sup>2</sup> .....	51.4	51.6	51.3	51.5	51.8	51.9	51.7	52.0	52.2	51.7	51.9	52.2	52.9
Unemployed .....	741	707	729	727	731	743	725	763	775	776	680	691	669
Unemployment rate .....	12.7	12.1	12.5	12.4	12.4	12.5	12.3	12.8	12.9	13.0	11.5	11.6	11.1

See footnotes at end of table.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1986							1987					
	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 .....	916	824	827	874	879	842	853	860	915	861	845	857	844
Percent of population .....	42.9	38.7	38.8	40.9	41.1	39.3	39.8	40.1	42.6	40.0	39.2	39.7	39.0
Employed .....	554	511	494	538	564	539	542	520	559	537	524	523	563
Employment-population ratio <sup>2</sup> .....	26.0	24.0	23.1	25.2	26.3	25.1	25.3	24.2	26.0	24.9	24.3	24.2	26.0
Unemployed .....	362	313	333	336	315	303	311	340	356	324	321	334	281
Unemployment rate .....	39.5	38.0	40.3	38.4	35.8	36.0	36.5	39.5	38.9	37.6	38.0	39.0	33.3
Men .....	39.7	40.5	38.8	38.6	37.8	35.0	36.1	36.5	38.3	36.5	39.3	40.3	31.5
Women .....	39.4	35.0	41.9	38.3	33.8	37.0	36.9	43.2	39.5	38.8	36.5	37.6	35.1
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	12,326	12,362	12,397	12,432	12,469	12,505	12,540	12,653	12,692	12,732	12,770	12,809	12,848
Civilian labor force .....	8,085	8,121	8,130	8,179	8,200	8,226	8,320	8,431	8,457	8,392	8,484	8,586	8,452
Percent of population .....	65.6	65.7	65.6	65.8	65.8	65.8	66.3	66.6	66.6	65.9	66.4	67.0	65.8
Employed .....	7,224	7,269	7,248	7,286	7,345	7,437	7,446	7,538	7,644	7,639	7,701	7,838	7,730
Employment-population ratio <sup>2</sup> .....	58.6	58.8	58.5	58.6	59.4	59.5	59.4	59.6	60.2	60.0	60.3	61.2	60.2
Unemployed .....	861	852	882	893	855	789	874	893	813	753	783	748	722
Unemployment rate .....	10.6	10.5	10.8	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7	8.5

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

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

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

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

(In thousands)

Category	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTIC</b>													
Total .....	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257
Married men, spouse present .....	39,613	39,634	39,735	39,691	39,780	39,952	40,093	40,102	39,913	40,100	39,967	40,029	40,057
Married women, spouse present .....	27,354	27,474	27,388	27,249	27,323	27,333	27,400	27,525	27,817	27,965	28,213	28,495	28,458
Women who maintain families .....	5,719	5,812	5,832	5,926	6,016	6,041	6,005	5,985	5,906	5,933	5,972	5,921	5,939
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,508	1,504	1,509	1,521	1,562	1,582	1,621	1,650	1,647	1,739	1,589	1,695	1,614
Self-employed workers .....	1,492	1,434	1,367	1,460	1,451	1,425	1,400	1,370	1,454	1,418	1,505	1,442	1,386
Unpaid family workers .....	163	171	174	159	164	198	152	136	126	150	175	170	165
Nonagricultural industries:													
Wage and salary workers .....	98,314	98,312	98,586	98,692	98,846	98,869	99,164	99,550	99,748	99,834	100,112	100,834	100,420
Government .....	16,377	16,582	16,446	16,333	16,264	16,457	16,443	16,412	16,532	16,568	16,484	16,710	16,956
Private industries .....	81,937	81,730	82,140	82,359	82,582	82,412	82,721	83,138	83,216	83,265	83,628	84,124	83,464
Private households .....	1,267	1,241	1,247	1,229	1,216	1,183	1,189	1,269	1,204	1,227	1,266	1,266	1,146
Other industries .....	80,670	80,489	80,893	81,130	81,366	81,229	81,532	81,869	82,012	82,038	82,362	82,858	82,318
Self-employed workers .....	7,832	8,019	7,956	7,939	7,993	8,179	8,056	8,192	8,187	8,050	8,117	8,142	8,328
Unpaid family workers .....	236	258	271	275	265	252	239	246	255	273	268	275	274
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,538	5,442	5,471	5,544	5,740	5,563	5,596	5,505	5,780	5,456	5,391	5,282	5,184
Slack work .....	2,437	2,473	2,417	2,472	2,481	2,510	2,444	2,473	2,535	2,440	2,322	2,223	2,317
Could only find part-time work .....	2,813	2,661	2,741	2,772	2,826	2,714	2,867	2,695	2,828	2,698	2,746	2,665	2,579
Voluntary part time .....	14,142	13,967	13,981	13,922	14,178	14,021	13,877	14,170	14,061	14,167	13,862	14,573	15,054
Nonagricultural industries:													
Part time for economic reasons .....	5,322	5,222	5,269	5,303	5,450	5,319	5,342	5,201	5,459	5,164	5,110	5,029	4,918
Slack work .....	2,307	2,317	2,283	2,314	2,314	2,366	2,286	2,281	2,340	2,218	2,137	2,071	2,155
Could only find part-time work .....	2,727	2,609	2,678	2,710	2,739	2,626	2,765	2,599	2,742	2,595	2,662	2,594	2,477
Voluntary part time .....	13,613	13,578	13,606	13,520	13,736	13,567	13,455	13,750	13,597	13,682	13,399	14,069	14,485

<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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	109,613	109,887	110,067	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257
16 to 24 years .....	20,250	20,268	20,281	20,163	20,263	20,201	20,093	20,237	20,293	20,113	20,111	20,215	19,988
16 to 19 years .....	6,434	6,474	6,526	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633	6,511
16 to 17 years .....	2,611	2,605	2,593	2,670	2,714	2,648	2,717	2,713	2,727	2,688	2,619	2,689	2,661
18 to 19 years .....	3,821	3,830	3,903	3,804	3,877	3,843	3,771	3,816	3,844	3,809	3,876	3,932	3,843
20 to 24 years .....	13,816	13,794	13,755	13,688	13,686	13,719	13,615	13,713	13,711	13,652	13,593	13,582	13,477
25 years and over .....	89,387	89,730	89,792	89,796	89,899	90,221	90,524	90,725	91,104	91,290	91,660	92,257	92,319
25 to 54 years .....	74,894	75,207	75,405	75,582	75,714	75,889	76,247	76,281	76,680	76,844	77,338	77,663	77,766
55 years and over .....	14,501	14,447	14,445	14,269	14,223	14,341	14,349	14,450	14,363	14,426	14,345	14,450	14,574
Men, 16 years and over .....	60,793	60,884	60,942	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996	61,912
16 to 24 years .....	10,509	10,590	10,567	10,528	10,587	10,546	10,449	10,526	10,608	10,452	10,427	10,369	10,288
16 to 19 years .....	3,271	3,340	3,357	3,361	3,380	3,358	3,292	3,369	3,426	3,297	3,275	3,276	3,292
16 to 17 years .....	1,350	1,357	1,325	1,399	1,391	1,353	1,373	1,395	1,425	1,355	1,336	1,350	1,355
18 to 19 years .....	1,923	1,970	2,005	1,965	2,003	2,009	1,933	1,974	2,000	1,945	1,936	1,919	1,930
20 to 24 years .....	7,238	7,250	7,210	7,167	7,207	7,188	7,157	7,156	7,182	7,155	7,152	7,094	6,996
25 years and over .....	50,267	50,321	50,393	50,419	50,348	50,705	50,943	51,053	51,207	51,278	51,396	51,648	51,598
25 to 54 years .....	41,853	41,884	42,050	42,124	42,049	42,278	42,485	42,569	42,702	42,729	42,925	42,997	43,065
55 years and over .....	8,441	8,402	8,357	8,323	8,329	8,428	8,507	8,458	8,470	8,546	8,476	8,561	8,573
Women, 16 years and over .....	48,820	49,003	49,125	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451	50,345
16 to 24 years .....	9,741	9,678	9,714	9,635	9,676	9,655	9,644	9,711	9,685	9,661	9,683	9,845	9,700
16 to 19 years .....	3,163	3,134	3,169	3,114	3,197	3,124	3,186	3,154	3,155	3,163	3,242	3,357	3,219
16 to 17 years .....	1,261	1,248	1,268	1,271	1,323	1,295	1,344	1,318	1,302	1,333	1,283	1,339	1,306
18 to 19 years .....	1,898	1,860	1,898	1,839	1,874	1,834	1,838	1,842	1,844	1,864	1,940	2,013	1,913
20 to 24 years .....	6,578	6,544	6,545	6,521	6,479	6,531	6,458	6,557	6,529	6,498	6,441	6,489	6,482
25 years and over .....	39,120	39,409	39,399	39,377	39,551	39,516	39,581	39,672	39,897	40,012	40,264	40,609	40,721
25 to 54 years .....	33,041	33,323	33,355	33,458	33,665	33,611	33,762	33,712	33,978	34,116	34,412	34,666	34,700
55 years and over .....	6,060	6,045	6,088	5,946	5,894	5,913	5,842	5,992	5,893	5,879	5,869	5,888	6,000

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

(In thousands)

Sex and age	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	8,392	8,230	8,057	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260
16 to 24 years .....	3,157	3,071	3,001	3,173	3,022	3,005	2,986	3,045	3,049	2,969	2,901	2,912	2,768
16 to 19 years .....	1,502	1,409	1,429	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430	1,235
16 to 17 years .....	681	642	641	668	647	686	629	683	693	670	623	734	617
18 to 19 years .....	813	740	787	790	766	768	737	735	765	753	756	696	609
20 to 24 years .....	1,655	1,662	1,572	1,708	1,608	1,558	1,627	1,643	1,603	1,545	1,525	1,482	1,533
25 years and over .....	5,212	5,148	5,087	5,130	5,197	5,230	4,961	5,024	4,912	4,872	4,588	4,621	4,454
25 to 54 years .....	4,677	4,584	4,525	4,523	4,597	4,630	4,422	4,552	4,459	4,363	4,079	4,102	4,013
55 years and over .....	569	574	561	587	603	571	527	477	452	509	512	548	474
Men, 16 years and over .....	4,619	4,566	4,428	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254	4,085
16 to 24 years .....	1,699	1,660	1,625	1,761	1,615	1,635	1,623	1,626	1,673	1,589	1,583	1,604	1,485
16 to 19 years .....	811	755	794	795	751	754	714	764	781	789	777	818	648
16 to 17 years .....	337	345	350	373	344	366	325	380	383	344	366	407	312
18 to 19 years .....	463	395	441	416	409	388	395	401	410	444	411	412	324
20 to 24 years .....	888	905	831	966	864	881	909	862	892	800	806	786	837
25 years and over .....	2,885	2,896	2,835	2,857	2,945	2,931	2,809	2,901	2,760	2,758	2,597	2,636	2,563
25 to 54 years .....	2,551	2,548	2,471	2,472	2,558	2,568	2,462	2,578	2,461	2,435	2,276	2,299	2,285
55 years and over .....	363	350	356	364	385	361	351	310	293	316	330	363	305
Women, 16 years and over .....	3,773	3,664	3,629	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292	3,175
16 to 24 years .....	1,458	1,411	1,376	1,412	1,407	1,370	1,363	1,419	1,375	1,380	1,319	1,308	1,284
16 to 19 years .....	691	654	635	670	663	693	645	638	665	635	599	612	587
16 to 17 years .....	344	297	291	295	303	320	304	303	310	326	257	327	305
18 to 19 years .....	350	345	346	374	357	380	342	334	355	309	345	284	285
20 to 24 years .....	767	757	741	742	744	677	718	781	710	745	720	696	697
25 years and over .....	2,327	2,252	2,252	2,273	2,252	2,299	2,152	2,124	2,152	2,113	1,991	1,985	1,891
25 to 54 years .....	2,126	2,036	2,054	2,051	2,039	2,062	1,960	1,974	1,998	1,928	1,803	1,803	1,729
55 years and over .....	206	224	205	223	218	210	176	167	158	193	183	185	170

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

(Civilian workers)

Sex and age	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Total, 16 years and over .....	7.1	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1
16 to 24 years .....	13.5	13.2	12.9	13.6	13.0	12.9	12.9	13.1	13.1	12.9	12.6	12.6	12.2
16 to 19 years .....	18.9	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9
16 to 17 years .....	20.7	19.8	19.8	20.0	19.3	20.6	18.8	20.1	20.3	20.0	19.2	21.4	18.8
18 to 19 years .....	17.5	16.2	16.8	17.2	16.5	16.7	16.3	16.2	16.6	16.5	16.3	15.0	13.7
20 to 24 years .....	10.7	10.8	10.3	11.1	10.5	10.2	10.7	10.7	10.5	10.2	10.1	9.8	10.2
25 years and over .....	5.5	5.4	5.4	5.4	5.5	5.5	5.2	5.2	5.1	5.1	4.8	4.8	4.6
25 to 54 years .....	5.9	5.7	5.7	5.6	5.7	5.8	5.5	5.6	5.5	5.4	5.0	5.0	4.9
55 years and over .....	3.8	3.8	3.7	4.0	4.1	3.8	3.5	3.2	3.0	3.4	3.4	3.7	3.2
Men, 16 years and over .....	7.1	7.0	6.8	7.0	7.0	6.9	6.7	6.8	6.7	6.6	6.3	6.4	6.2
16 to 24 years .....	13.9	13.6	13.3	14.3	13.2	13.4	13.4	13.4	13.6	13.2	13.2	13.4	12.6
16 to 19 years .....	19.9	18.4	19.1	19.1	18.2	18.3	17.8	18.5	18.6	19.3	19.2	20.0	16.4
16 to 17 years .....	20.0	20.3	20.9	21.0	19.8	21.3	19.1	21.4	21.2	20.2	21.5	23.2	18.7
18 to 19 years .....	19.4	16.7	18.0	17.5	17.0	16.2	17.0	16.9	17.0	18.6	17.5	17.7	14.4
20 to 24 years .....	10.9	11.1	10.3	11.9	10.7	10.9	11.3	10.7	11.1	10.1	10.1	10.0	10.7
25 years and over .....	5.4	5.4	5.3	5.4	5.5	5.5	5.2	5.4	5.1	5.1	4.8	4.9	4.7
25 to 54 years .....	5.7	5.7	5.6	5.5	5.7	5.7	5.5	5.7	5.4	5.4	5.0	5.1	5.0
55 years and over .....	4.1	4.0	4.1	4.2	4.4	4.1	4.0	3.5	3.3	3.6	3.7	4.1	3.4
Women, 16 years and over .....	7.2	7.0	6.9	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.2	6.1	5.9
16 to 24 years .....	13.0	12.7	12.4	12.8	12.7	12.4	12.4	12.7	12.4	12.5	12.0	11.7	11.7
16 to 19 years .....	17.9	17.3	16.7	17.7	17.2	18.2	16.8	16.8	17.4	16.7	15.6	15.4	15.4
16 to 17 years .....	21.4	19.2	18.7	18.8	18.6	19.8	18.4	18.7	19.2	19.7	16.7	19.6	18.9
18 to 19 years .....	15.6	15.6	15.4	16.9	16.0	17.2	15.7	15.3	16.1	14.2	15.1	12.4	13.0
20 to 24 years .....	10.4	10.4	10.2	10.2	10.3	9.4	10.0	10.6	9.8	10.3	10.1	9.7	9.7
25 years and over .....	5.6	5.4	5.4	5.5	5.4	5.5	5.2	5.1	5.1	5.0	4.7	4.7	4.4
25 to 54 years .....	6.0	5.8	5.8	5.8	5.7	5.8	5.5	5.5	5.6	5.4	5.0	4.9	4.7
55 years and over .....	3.3	3.6	3.3	3.6	3.6	3.4	2.9	2.7	2.6	3.2	3.0	3.0	2.8

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

(Unemployment rates)

Category	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	7.1	7.0	6.8	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1
Men, 20 years and over .....	6.2	6.2	5.9	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5	5.5
Women, 20 years and over .....	6.3	6.2	6.1	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4	5.2
Both sexes, 16 to 19 years .....	18.9	17.9	18.0	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9
White .....	6.1	6.0	5.8	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3	5.2
Black and other .....	13.5	12.7	13.1	13.1	12.7	12.7	12.3	12.6	12.8	12.5	11.7	12.2	11.4
Black .....	14.9	14.2	14.6	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8	12.7
Hispanic origin .....	10.6	10.5	10.8	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7	8.5
Married men, spouse present .....	4.5	4.4	4.2	4.3	4.6	4.5	4.3	4.2	4.2	4.1	4.1	3.9	4.0
Married women, spouse present .....	5.2	5.2	5.1	5.1	5.0	5.0	4.8	4.8	4.8	4.5	4.4	4.1	4.0
Women who maintain families .....	10.0	9.5	10.1	9.8	8.9	9.7	9.8	9.8	9.5	9.7	9.3	9.6	9.7
Full-time workers .....	6.7	6.6	6.4	6.6	6.6	6.6	6.3	6.4	6.3	6.2	5.9	5.9	5.9
Part-time workers .....	9.1	9.2	9.3	9.3	9.2	9.1	8.8	9.0	8.7	9.2	8.6	8.7	6.9
Unemployed 15 weeks and over <sup>1</sup> .....	1.9	1.9	1.9	2.0	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.8	1.7
Labor force time lost <sup>2</sup> .....	8.1	7.8	7.7	7.9	7.8	7.7	7.6	7.6	7.6	7.4	7.3	7.2	7.1
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	7.1	7.1	6.9	7.0	7.0	7.0	6.8	6.7	6.6	6.5	6.2	6.3	6.2
Mining .....	17.3	16.6	16.6	13.9	14.5	14.5	14.1	14.0	12.4	9.3	11.1	12.9	10.8
Construction .....	12.4	13.0	12.4	12.9	13.8	15.1	13.7	12.2	11.6	12.5	11.9	12.1	11.6
Manufacturing .....	7.2	6.9	6.9	7.0	7.3	7.1	6.9	6.8	6.8	6.9	6.2	6.4	5.6
Durable goods .....	7.0	6.7	6.8	6.5	7.2	6.6	6.4	6.8	6.8	6.7	6.2	6.3	5.3
Nondurable goods .....	7.5	7.2	6.9	7.7	7.3	7.9	7.7	6.8	6.9	7.3	6.2	6.6	6.0
Transportation and public utilities .....	5.4	5.5	4.8	4.7	5.2	4.4	4.6	4.8	4.0	4.6	4.8	4.4	5.0
Wholesale and retail trade .....	7.7	7.8	7.5	7.6	7.4	7.2	7.2	7.5	7.2	7.3	7.0	6.9	7.2
Finance and service industries .....	5.5	5.7	5.6	5.6	5.4	5.4	5.1	5.2	5.4	4.9	4.7	4.8	4.8
Agricultural wage and salary workers .....	13.2	11.4	13.3	12.9	11.9	10.1	11.5	11.6	11.2	10.7	9.0	8.7	8.8

<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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>DURATION</b>													
Less than 5 weeks .....	3,415	3,399	3,436	3,415	3,418	3,382	3,355	3,416	3,361	3,383	3,143	3,349	3,085
5 to 14 weeks .....	2,650	2,521	2,407	2,524	2,563	2,613	2,389	2,530	2,477	2,447	2,232	2,118	2,114
15 weeks and over .....	2,299	2,250	2,272	2,373	2,168	2,217	2,171	2,200	2,131	2,050	2,075	2,101	2,055
15 to 26 weeks .....	1,038	1,058	1,068	1,110	950	1,045	1,023	1,022	1,008	945	1,025	1,003	998
27 weeks and over .....	1,261	1,192	1,204	1,263	1,218	1,172	1,148	1,178	1,123	1,105	1,049	1,098	1,057
Average (mean) duration, in weeks .....	15.2	15.1	15.6	15.5	15.2	14.8	15.0	15.0	14.6	14.9	14.9	14.9	14.8
Median duration, in weeks .....	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.0	6.6	6.6	7.0	6.5	6.7
<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 .....	40.8	41.6	42.3	41.1	41.9	41.2	42.4	41.9	42.2	42.9	42.2	44.3	42.5
5 to 14 weeks .....	31.7	30.9	29.7	30.4	31.5	31.8	30.2	31.1	31.1	31.1	30.0	28.0	29.1
15 weeks and over .....	27.5	27.5	28.0	28.5	26.6	27.0	27.4	27.0	26.7	26.0	27.9	27.8	28.3
15 to 26 weeks .....	12.4	12.9	13.2	13.4	11.7	12.7	12.9	12.5	12.7	12.0	13.8	13.2	13.8
27 weeks and over .....	15.1	14.6	14.8	15.2	14.9	14.3	14.5	14.5	14.1	14.0	14.1	14.5	14.6

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

(Numbers in thousands)

Reasons for unemployment	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,272	4,063	3,824	4,044	3,984	3,947	3,890	3,971	3,839	3,822	3,732	3,611	3,565
On layoff .....	1,074	1,078	1,017	1,029	1,072	1,073	1,078	1,118	998	1,011	958	906	901
Other job losers .....	3,198	2,985	2,807	3,015	2,912	2,874	2,812	2,854	2,842	2,811	2,774	2,705	2,664
Job leavers .....	1,009	1,025	990	1,041	1,027	1,056	1,036	891	1,046	1,000	923	906	949
Reentrants .....	2,107	2,205	2,199	2,145	2,190	2,119	2,019	2,054	2,042	2,111	1,940	2,018	1,969
New entrants .....	1,050	989	1,014	1,038	972	1,076	1,015	1,084	1,040	956	911	1,018	798
<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 .....	50.6	49.1	47.6	48.9	48.7	48.1	48.9	49.6	48.2	48.4	49.7	47.8	49.0
On layoff .....	12.7	13.0	12.7	12.4	13.1	13.1	13.5	14.0	12.5	12.8	12.8	12.0	12.4
Other job losers .....	37.9	36.0	35.0	36.5	35.6	35.1	35.3	35.7	35.7	35.6	37.0	35.8	36.6
Job leavers .....	12.0	12.4	12.3	12.6	12.6	12.9	13.0	11.1	13.1	12.7	12.3	12.0	13.0
Reentrants .....	25.0	26.6	27.4	25.9	26.8	25.8	25.4	25.7	25.6	26.8	25.8	26.7	27.0
New entrants .....	12.4	11.9	12.6	12.6	11.9	13.1	12.8	13.6	13.1	12.1	12.1	13.5	11.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.6	3.4	3.2	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.0	3.0
Job leavers .....	.9	.9	.8	.9	.9	.9	.9	.7	.9	.8	.8	.8	.8
Reentrants .....	1.8	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.6	1.7	1.6
New entrants .....	.9	.8	.9	.9	.8	.9	.9	.9	.9	.8	.8	.8	.7

**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	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	177,816	178,305	178,834	179,222	179,649	180,135	180,641	181,517	182,008	182,530	183,115	183,743	184,253
Labor force <sup>2</sup> .....	115,209	115,514	115,960	116,728	116,878	117,188	117,887	118,699	119,315	119,866	120,308	120,943	121,341
Percent of population <sup>2</sup> .....	64.8	64.8	64.8	65.1	65.1	65.1	65.3	65.4	65.6	65.7	65.7	65.8	65.9
Total employed <sup>1</sup> .....	106,737	107,069	107,638	108,321	108,531	108,914	109,673	110,444	110,936	111,675	112,170	112,995	113,906
Employment-population ratio <sup>3</sup> .....	60.0	60.0	60.2	60.4	60.4	60.5	60.7	60.8	61.0	61.2	61.3	61.5	61.8
Resident Armed Forces .....	1,691	1,710	1,701	1,700	1,703	1,721	1,700	1,692	1,687	1,695	1,750	1,741	1,726
Civilian employed .....	105,046	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180
Agriculture .....	3,345	3,331	3,323	3,312	3,250	3,094	3,093	3,212	3,171	3,108	3,179	3,222	3,268
Nonagricultural industries .....	101,701	102,029	102,615	103,308	103,578	104,100	104,880	105,540	106,078	106,873	107,241	108,032	108,912
Unemployed .....	8,472	8,445	8,321	8,407	8,347	8,274	8,214	8,256	8,379	8,191	8,138	7,948	7,435
Unemployment rate <sup>4</sup> .....	7.4	7.3	7.2	7.2	7.1	7.1	7.0	7.0	7.0	6.8	6.8	6.6	6.1
Not in labor force .....	62,607	62,791	62,874	62,494	62,771	62,947	62,754	62,817	62,693	62,664	62,807	62,800	62,912
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	85,026	85,263	85,523	85,695	85,899	86,133	86,376	86,957	87,201	87,463	87,775	88,101	88,358
Labor force <sup>2</sup> .....	65,292	65,487	65,709	65,774	65,887	65,998	66,220	66,732	66,854	67,002	67,321	67,693	67,658
Percent of population <sup>2</sup> .....	76.8	76.8	76.8	76.8	76.7	76.6	76.7	76.7	76.7	76.6	76.7	76.8	76.6
Total employed <sup>1</sup> .....	60,584	60,838	61,143	61,202	61,353	61,511	61,742	62,252	62,257	62,471	62,795	63,268	63,483
Employment-population ratio <sup>3</sup> .....	71.3	71.4	71.5	71.4	71.4	71.4	71.5	71.6	71.4	71.4	71.5	71.8	71.8
Resident Armed Forces .....	1,546	1,562	1,553	1,552	1,554	1,569	1,551	1,539	1,533	1,540	1,592	1,583	1,567
Civilian employed .....	59,038	59,276	59,590	59,650	59,799	59,942	60,191	60,712	60,724	60,931	61,203	61,685	61,917
Unemployed .....	4,707	4,649	4,566	4,572	4,535	4,486	4,479	4,480	4,596	4,531	4,526	4,425	4,175
Unemployment rate <sup>4</sup> .....	7.2	7.1	6.9	7.0	6.9	6.8	6.8	6.7	6.9	6.8	6.7	6.5	6.2
Not in labor force .....	19,734	19,776	19,814	19,921	20,011	20,136	20,155	20,225	20,347	20,460	20,454	20,408	20,699
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	92,790	93,043	93,311	93,527	93,751	94,000	94,265	94,560	94,807	95,067	95,341	95,642	95,896
Labor force <sup>2</sup> .....	49,918	50,027	50,251	50,954	50,991	51,190	51,667	51,967	52,462	52,864	52,988	53,250	53,683
Percent of population <sup>2</sup> .....	53.8	53.8	53.9	54.5	54.4	54.5	54.8	55.0	55.3	55.6	55.6	55.7	56.0
Total employed <sup>1</sup> .....	46,153	46,232	46,495	47,119	47,179	47,403	47,931	48,192	48,679	49,204	49,376	49,727	50,423
Employment-population ratio <sup>3</sup> .....	49.7	49.7	49.8	50.4	50.3	50.4	50.8	51.0	51.3	51.8	51.8	52.0	52.6
Resident Armed Forces .....	145	148	148	148	149	151	149	152	154	155	158	158	160
Civilian employed .....	46,008	46,083	46,348	46,971	47,029	47,251	47,782	48,040	48,525	49,049	49,217	49,569	50,263
Unemployed .....	3,765	3,796	3,756	3,835	3,812	3,787	3,736	3,775	3,783	3,659	3,612	3,523	3,260
Unemployment rate <sup>4</sup> .....	7.5	7.6	7.5	7.5	7.5	7.4	7.2	7.3	7.2	6.9	6.8	6.6	6.1
Not in labor force .....	42,872	43,016	43,060	42,573	42,761	42,810	42,598	42,593	42,346	42,204	42,354	42,392	42,213

<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	1984				1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	
<b>TOTAL</b>														
Civilian noninstitutional population <sup>1</sup> .....	176,125	176,595	177,133	177,522	177,946	178,414	178,941	179,825	180,321	180,835	181,365	182,002	182,527	
Civilian labor force .....	113,518	113,804	114,259	115,028	115,175	115,467	116,187	117,008	117,628	118,171	118,558	119,202	119,615	
Percent of population .....	64.5	64.4	64.5	64.8	64.7	64.7	64.9	65.1	65.2	65.3	65.4	65.5	65.5	
Employed .....	105,046	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180	
Employment-population ratio <sup>2</sup> .....	59.6	59.7	59.8	60.1	60.0	60.1	60.3	60.5	60.6	60.8	60.9	61.1	61.5	
Unemployed .....	8,472	8,445	8,321	8,407	8,347	8,274	8,214	8,256	8,379	8,191	8,138	7,948	7,435	
Unemployment rate .....	7.5	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.2	
<b>Men, 20 years and over</b>														
Civilian noninstitutional population <sup>1</sup> .....	76,074	76,356	76,660	76,831	77,064	77,313	77,571	78,169	78,393	78,647	78,883	79,217	79,466	
Civilian labor force .....	59,586	59,835	60,014	60,012	60,194	60,319	60,580	61,137	61,189	61,329	61,646	61,968	62,063	
Percent of population .....	78.3	78.4	78.3	78.1	78.1	78.0	78.1	78.2	78.1	78.0	78.1	78.2	78.1	
Employed .....	55,681	55,984	56,249	56,247	56,439	56,645	56,929	57,428	57,417	57,579	57,860	58,320	58,636	
Employment-population ratio <sup>2</sup> .....	73.2	73.3	73.4	73.2	73.2	73.3	73.4	73.5	73.2	73.2	73.3	73.6	73.8	
Agriculture .....	2,426	2,434	2,433	2,364	2,314	2,223	2,228	2,330	2,302	2,249	2,296	2,322	2,386	
Nonagricultural industries .....	53,256	53,550	53,816	53,883	54,125	54,422	54,701	55,098	55,115	55,330	55,563	55,999	56,249	
Unemployed .....	3,904	3,851	3,765	3,765	3,756	3,675	3,651	3,710	3,772	3,750	3,786	3,647	3,427	
Unemployment rate .....	6.6	6.4	6.3	6.3	6.2	6.1	6.0	6.1	6.2	6.1	6.1	5.9	5.5	
Not in labor force .....	16,488	16,521	16,646	16,819	16,870	16,994	16,991	17,032	17,204	17,318	17,237	17,249	17,403	
<b>Women, 20 years and over</b>														
Civilian noninstitutional population <sup>1</sup> .....	85,273	85,586	85,895	86,094	86,377	86,651	86,900	87,187	87,449	87,699	87,935	88,236	88,468	
Civilian labor force .....	45,927	46,049	46,348	46,955	47,138	47,305	47,726	47,990	48,451	48,916	48,993	49,288	49,651	
Percent of population .....	53.9	53.8	54.0	54.5	54.6	54.6	54.9	55.0	55.4	55.8	55.7	55.9	56.1	
Employed .....	42,861	42,941	43,243	43,803	43,976	44,155	44,668	44,902	45,362	45,910	46,048	46,411	46,990	
Employment-population ratio <sup>2</sup> .....	50.3	50.2	50.3	50.9	50.9	51.0	51.4	51.5	51.9	52.3	52.4	52.6	53.1	
Agriculture .....	614	591	577	603	607	578	598	619	591	614	636	619	612	
Nonagricultural industries .....	42,247	42,350	42,666	43,200	43,368	43,577	44,070	44,283	44,771	45,296	45,412	45,792	46,379	
Unemployed .....	3,066	3,107	3,105	3,152	3,162	3,151	3,058	3,088	3,089	3,006	2,945	2,877	2,661	
Unemployment rate .....	6.7	6.7	6.7	6.7	6.7	6.7	6.4	6.4	6.4	6.1	6.0	5.8	5.4	
Not in labor force .....	39,346	39,537	39,547	39,139	39,239	39,346	39,174	39,197	38,998	38,783	38,942	38,948	38,817	
<b>Both sexes, 16 to 19 years</b>														
Civilian noninstitutional population <sup>1</sup> .....	14,778	14,653	14,577	14,597	14,506	14,450	14,470	14,469	14,479	14,489	14,547	14,548	14,593	
Civilian labor force .....	8,005	7,921	7,898	8,061	7,843	7,842	7,881	7,880	7,988	7,926	7,919	7,946	7,901	
Percent of population .....	54.2	54.1	54.2	55.2	54.1	54.3	54.5	54.5	55.2	54.7	54.4	54.6	54.1	
Employed .....	6,503	6,434	6,446	6,570	6,414	6,394	6,376	6,422	6,470	6,492	6,512	6,522	6,554	
Employment-population ratio <sup>2</sup> .....	44.0	43.9	44.2	45.0	44.2	44.2	44.1	44.4	44.7	44.8	44.8	44.8	44.9	
Agriculture .....	305	306	313	346	329	293	266	263	278	245	247	281	270	
Nonagricultural industries .....	6,198	6,128	6,133	6,225	6,085	6,101	6,110	6,159	6,191	6,247	6,265	6,241	6,284	
Unemployed .....	1,502	1,487	1,451	1,490	1,429	1,448	1,505	1,458	1,518	1,434	1,407	1,424	1,347	
Unemployment rate .....	18.8	18.8	18.4	18.5	18.2	18.5	19.1	18.5	19.0	18.1	17.8	17.9	17.0	
Not in labor force .....	6,773	6,732	6,679	6,536	6,663	6,608	6,589	6,589	6,491	6,563	6,628	6,602	6,692	

<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  
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	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	152,234	152,386	152,666	153,196	153,491	153,825	154,204	154,893	155,245	155,609	155,982	156,435	156,806
Civilian labor force .....	98,626	98,492	98,812	99,595	99,684	99,888	100,536	101,126	101,571	102,098	102,418	102,812	103,191
Percent of population .....	64.8	64.6	64.7	65.0	64.9	64.9	65.2	65.3	65.4	65.6	65.7	65.7	65.8
Employed .....	92,293	92,257	92,608	93,331	93,435	93,705	94,472	94,945	95,366	96,013	96,320	96,903	97,702
Employment-population ratio <sup>2</sup> .....	60.6	60.5	60.7	60.9	60.9	60.9	61.3	61.3	61.4	61.7	61.8	61.9	62.3
Unemployed .....	6,333	6,235	6,204	6,265	6,248	6,183	6,063	6,182	6,205	6,086	6,098	5,909	5,489
Unemployment rate .....	6.4	6.3	6.3	6.3	6.3	6.2	6.0	6.1	6.1	6.0	6.0	5.7	5.3
<b>Men, 20 years and over</b>													
Civilian labor force .....	52,422	52,495	52,606	52,679	52,838	52,917	53,145	53,543	53,542	53,650	53,981	54,155	54,193
Percent of population .....	78.8	78.8	78.7	78.5	78.5	78.4	78.6	78.6	78.4	78.3	78.6	78.6	78.4
Employed .....	49,467	49,612	49,725	49,814	49,964	50,082	50,390	50,703	50,684	50,818	51,073	51,341	51,600
Employment-population ratio <sup>2</sup> .....	74.3	74.4	74.4	74.2	74.2	74.2	74.5	74.4	74.2	74.2	74.4	74.5	74.7
Unemployed .....	2,955	2,883	2,882	2,865	2,874	2,835	2,754	2,840	2,858	2,832	2,908	2,814	2,593
Unemployment rate .....	5.6	5.5	5.5	5.4	5.4	5.4	5.2	5.3	5.3	5.3	5.4	5.2	4.8
<b>Women, 20 years and over</b>													
Civilian labor force .....	39,174	39,127	39,337	39,939	40,042	40,203	40,565	40,767	41,139	41,590	41,551	41,757	42,127
Percent of population .....	53.3	53.1	53.3	53.9	53.9	54.0	54.3	54.4	54.8	55.3	55.1	55.2	55.6
Employed .....	36,923	36,862	37,083	37,625	37,725	37,909	38,354	38,473	38,895	39,400	39,429	39,714	40,234
Employment-population ratio <sup>2</sup> .....	50.2	50.0	50.2	50.8	50.8	50.9	51.4	51.4	51.8	52.4	52.3	52.5	53.1
Unemployed .....	2,251	2,265	2,254	2,313	2,317	2,294	2,211	2,294	2,244	2,191	2,122	2,043	1,892
Unemployment rate .....	5.7	5.8	5.7	5.8	5.8	5.7	5.5	5.6	5.5	5.3	5.1	4.9	4.5
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	7,030	6,871	6,869	6,978	6,804	6,768	6,826	6,817	6,890	6,858	6,886	6,901	6,872
Percent of population .....	57.8	56.9	57.1	58.3	57.2	57.0	57.5	57.5	58.0	57.7	57.9	57.9	57.5
Employed .....	5,903	5,783	5,801	5,891	5,746	5,714	5,728	5,769	5,787	5,795	5,818	5,848	5,868
Employment-population ratio <sup>2</sup> .....	48.5	47.9	48.3	49.2	48.3	48.2	48.3	48.6	48.7	48.8	48.9	49.1	49.1
Unemployed .....	1,127	1,088	1,068	1,087	1,057	1,054	1,098	1,048	1,103	1,063	1,068	1,052	1,004
Unemployment rate .....	16.0	15.8	15.5	15.6	15.5	15.6	16.1	15.4	16.0	15.5	15.5	15.2	14.6
Men .....	16.6	16.8	16.4	16.4	16.1	16.7	17.0	15.8	17.0	16.3	15.8	16.4	16.2
Women .....	15.4	14.8	14.6	14.7	14.9	14.3	15.1	14.9	14.9	14.6	15.2	14.0	13.0
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	19,303	19,387	19,481	19,543	19,620	19,701	19,790	19,863	19,945	20,028	20,120	20,218	20,310
Civilian labor force .....	11,916	12,135	12,251	12,308	12,307	12,369	12,473	12,589	12,707	12,605	12,715	12,877	12,822
Percent of population .....	61.7	62.6	62.9	63.0	62.7	62.8	63.0	63.4	63.7	62.9	63.2	63.7	63.1
Employed .....	10,017	10,210	10,403	10,398	10,469	10,544	10,592	10,732	10,822	10,779	10,924	11,051	11,131
Employment-population ratio <sup>2</sup> .....	51.9	52.7	53.4	53.2	53.4	53.5	53.5	54.0	54.3	53.8	54.3	54.7	54.8
Unemployed .....	1,899	1,925	1,848	1,910	1,838	1,824	1,881	1,857	1,885	1,826	1,791	1,827	1,691
Unemployment rate .....	15.9	15.9	15.1	15.5	14.9	14.7	15.1	14.7	14.8	14.5	14.1	14.2	13.2
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,633	5,706	5,738	5,717	5,714	5,766	5,795	5,886	5,925	5,910	5,938	5,998	6,005
Percent of population .....	74.4	74.9	74.8	74.5	74.1	74.4	74.4	75.0	75.1	74.6	74.6	74.9	74.6
Employed .....	4,797	4,883	4,995	4,941	4,964	5,040	5,022	5,123	5,156	5,132	5,189	5,283	5,306
Employment-population ratio <sup>2</sup> .....	63.3	64.1	65.1	64.4	64.4	65.0	64.4	65.3	65.4	64.8	65.2	66.0	65.9
Unemployed .....	836	823	744	776	751	726	773	763	770	778	748	715	698
Unemployment rate .....	14.8	14.4	13.0	13.6	13.1	12.6	13.3	13.0	13.0	13.2	12.6	11.9	11.6
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,477	5,568	5,654	5,695	5,720	5,714	5,779	5,788	5,859	5,854	5,920	6,000	5,968
Percent of population .....	57.3	57.9	58.5	58.7	58.7	58.3	58.7	58.6	59.1	58.7	59.1	59.6	59.1
Employed .....	4,751	4,830	4,906	4,934	4,975	4,959	5,042	5,073	5,119	5,133	5,187	5,229	5,288
Employment-population ratio <sup>2</sup> .....	49.7	50.2	50.7	50.9	51.0	50.6	51.2	51.4	51.6	51.5	51.8	52.0	52.3
Unemployed .....	726	738	748	761	745	755	736	715	740	721	733	771	680
Unemployment rate .....	13.3	13.3	13.2	13.4	13.0	13.2	12.7	12.4	12.6	12.3	12.4	12.9	11.4

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	1984			1985				1986				1987	
	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 .....	805	861	859	896	873	888	900	915	922	842	858	879	849
Percent of population .....	37.1	40.0	40.2	41.2	40.4	41.2	41.9	42.8	43.2	39.4	40.1	40.9	39.3
Employed .....	468	497	503	523	531	545	528	537	547	514	548	539	537
Employment-population ratio <sup>2</sup> .....	21.6	23.1	23.5	24.1	24.5	25.3	24.6	25.1	25.6	24.1	25.6	25.1	24.8
Unemployed .....	337	364	356	373	342	343	372	378	375	327	310	340	312
Unemployment rate .....	41.9	42.3	41.5	41.6	39.2	38.6	41.3	41.3	40.7	38.9	36.1	38.7	36.8
Men .....	41.5	41.5	42.9	41.8	40.0	39.7	42.4	41.1	40.5	39.3	36.3	37.1	37.1
Women .....	42.3	43.1	39.9	41.4	38.3	37.3	40.2	41.6	40.9	38.4	35.9	40.4	36.4
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	11,423	11,533	11,643	11,753	11,862	11,969	12,075	12,184	12,290	12,397	12,504	12,692	12,809
Civilian labor force .....	7,394	7,503	7,612	7,572	7,623	7,787	7,802	7,881	8,020	8,143	8,249	8,427	8,508
Percent of population .....	64.7	65.1	65.4	64.4	64.3	65.1	64.6	64.7	65.3	65.7	66.0	66.4	66.4
Employed .....	6,590	6,716	6,813	6,797	6,816	6,968	6,960	7,027	7,163	7,268	7,409	7,607	7,756
Employment-population ratio <sup>2</sup> .....	57.7	58.2	58.5	57.8	57.5	58.2	57.6	57.7	58.3	58.6	59.3	59.9	60.6
Unemployed .....	804	787	799	776	807	819	842	855	857	876	839	820	751
Unemployment rate .....	10.9	10.5	10.5	10.2	10.6	10.5	10.8	10.8	10.7	10.8	10.2	9.7	8.8

<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	1984			1985				1986			1987		
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>EMPLOYED</b>													
Full-time workers .....	86,488	86,967	87,461	88,040	88,461	88,422	89,252	89,786	90,131	90,892	91,276	92,020	92,548
Men, 16 years and over .....	53,065	53,336	53,526	53,580	53,855	53,869	54,151	54,545	54,518	54,757	54,925	55,383	55,549
Men, 20 years and over .....	51,580	51,888	52,083	52,127	52,362	52,461	52,749	53,181	53,136	53,367	53,585	54,036	54,268
Women, 16 years and over .....	33,454	33,638	33,947	34,418	34,591	34,564	35,118	35,218	35,615	36,154	36,388	36,580	37,017
Women, 20 years and over .....	32,408	32,543	32,857	33,327	33,535	33,492	34,059	34,194	34,541	35,122	35,378	35,538	35,977
Both sexes, 16 to 19 years .....	2,500	2,537	2,522	2,586	2,564	2,469	2,444	2,411	2,454	2,402	2,313	2,447	2,303
Part-time workers .....	18,518	18,376	18,490	18,590	18,372	18,736	18,767	18,957	19,102	19,027	19,187	19,234	19,611
Men, 16 years and over .....	5,987	5,952	6,067	6,018	5,956	6,082	6,056	6,137	6,215	6,178	6,299	6,258	6,374
Men, 20 years and over .....	4,119	4,085	4,166	4,114	4,089	4,163	4,183	4,247	4,291	4,186	4,277	4,288	4,367
Women, 16 years and over .....	12,513	12,441	12,441	12,562	12,395	12,664	12,729	12,814	12,869	12,856	12,910	12,971	13,219
Women, 20 years and over .....	10,419	10,381	10,422	10,496	10,405	10,637	10,662	10,717	10,786	10,744	10,733	10,891	10,995
Both sexes, 16 to 19 years .....	3,980	3,910	3,902	3,980	3,878	3,937	3,922	3,993	4,025	4,097	4,177	4,055	4,249
<b>UNEMPLOYED</b>													
Looking for full-time work .....	6,975	6,942	6,887	6,896	6,783	6,778	6,705	6,759	6,827	6,647	6,609	6,432	6,023
Men, 16 years and over .....	4,110	4,074	3,999	3,942	3,940	3,924	3,889	3,863	3,990	3,901	3,907	3,770	3,612
Men, 20 years and over .....	3,654	3,616	3,520	3,529	3,503	3,446	3,427	3,484	3,525	3,495	3,535	3,392	3,208
Women, 16 years and over .....	2,894	2,878	2,905	2,901	2,870	2,874	2,834	2,844	2,858	2,755	2,717	2,605	2,435
Women, 20 years and over .....	2,524	2,534	2,543	2,568	2,554	2,550	2,476	2,519	2,529	2,435	2,388	2,325	2,167
Both sexes, 16 to 19 years .....	797	792	825	799	726	782	802	755	772	717	685	716	648
Looking for part-time work .....	1,484	1,519	1,431	1,510	1,555	1,511	1,503	1,495	1,544	1,559	1,520	1,521	1,407
Men, 16 years and over .....	622	582	574	590	618	578	598	578	624	636	619	618	584
Men, 20 years and over .....	252	235	245	236	252	230	226	225	244	251	253	257	217
Women, 16 years and over .....	868	925	857	925	939	921	911	919	926	904	915	902	833
Women, 20 years and over .....	538	580	561	581	611	603	577	565	564	579	551	550	502
Both sexes, 16 to 19 years .....	694	704	626	693	692	678	700	706	736	728	715	715	688

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	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTIC</b>													
Total .....	105,046	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180
Married men, spouse present .....	39,016	39,165	39,271	39,392	39,163	39,139	39,307	39,439	39,566	39,687	39,942	40,038	40,018
Married women, spouse present .....	25,696	25,717	25,928	26,090	26,134	26,375	26,718	26,759	27,086	27,370	27,352	27,769	28,389
Women who maintain families .....	5,549	5,528	5,418	5,561	5,639	5,601	5,590	5,727	5,751	5,857	6,021	5,942	5,944
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,566	1,554	1,603	1,581	1,579	1,484	1,514	1,603	1,512	1,511	1,588	1,679	1,633
Self-employed workers .....	1,546	1,563	1,517	1,507	1,472	1,445	1,415	1,459	1,477	1,427	1,425	1,414	1,444
Unpaid family workers .....	219	214	209	225	189	175	165	164	171	168	171	137	170
Nonagricultural industries:													
Wage and salary workers .....	93,503	93,912	94,591	95,262	95,517	95,968	96,747	97,638	98,073	98,530	98,960	99,710	100,455
Government .....	15,759	15,757	15,860	15,921	15,974	16,042	16,182	16,216	16,314	16,454	16,388	16,504	16,717
Private industries .....	77,744	78,154	78,732	79,341	79,543	79,926	80,566	81,422	81,759	82,076	82,572	83,207	83,739
Private households .....	1,305	1,200	1,243	1,297	1,223	1,266	1,211	1,227	1,279	1,239	1,196	1,233	1,226
Other industries .....	76,439	76,954	77,489	78,044	78,320	78,660	79,354	80,195	80,480	80,837	81,376	81,973	82,513
Self-employed workers .....	7,843	7,749	7,706	7,778	7,751	7,780	7,920	7,706	7,753	7,971	8,076	8,143	8,195
Unpaid family workers .....	340	322	341	328	297	280	251	258	241	268	252	258	272
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,706	5,673	5,722	5,581	5,646	5,635	5,493	5,515	5,739	5,486	5,633	5,580	5,286
Slack work .....	2,301	2,387	2,544	2,444	2,539	2,444	2,298	2,371	2,525	2,454	2,478	2,483	2,288
Could only find part-time work .....	3,035	2,870	2,842	2,795	2,771	2,833	2,881	2,834	2,859	2,725	2,802	2,740	2,663
Voluntary part time .....	13,317	13,148	13,191	13,449	13,299	13,566	13,653	13,818	13,965	13,957	14,025	14,133	14,496
Nonagricultural industries:													
Part time for economic reasons .....	5,457	5,440	5,498	5,319	5,370	5,369	5,271	5,269	5,486	5,265	5,370	5,275	5,019
Slack work .....	2,169	2,241	2,400	2,270	2,360	2,290	2,174	2,211	2,391	2,305	2,322	2,280	2,121
Could only find part-time work .....	2,944	2,794	2,768	2,709	2,693	2,735	2,784	2,753	2,761	2,666	2,710	2,645	2,578
Voluntary part time .....	12,848	12,691	12,731	12,984	12,836	13,129	13,212	13,364	13,518	13,568	13,586	13,676	13,985

<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	1984				1985				1986				1987	
	II	III	IV	i	II	III	IV	i	II	III	IV	i	II	
Total, 16 years and over .....	105,046	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180	
16 to 24 years .....	20,806	20,609	20,699	20,635	20,417	20,325	20,309	20,385	20,253	20,237	20,186	20,214	20,104	
16 to 19 years .....	6,503	6,434	6,446	6,570	6,414	6,394	6,376	6,422	6,470	6,492	6,512	6,522	6,554	
16 to 17 years .....	2,409	2,414	2,459	2,546	2,455	2,491	2,484	2,562	2,614	2,623	2,693	2,709	2,656	
18 to 19 years .....	4,088	4,012	3,985	4,020	3,954	3,896	3,900	3,882	3,845	3,846	3,830	3,823	3,884	
20 to 24 years .....	14,302	14,175	14,252	14,065	14,003	13,931	13,933	13,963	13,783	13,746	13,673	13,692	13,551	
25 years and over .....	84,230	84,756	85,228	85,994	86,402	86,888	87,652	88,371	88,984	89,773	90,215	91,040	92,079	
25 to 54 years .....	69,990	70,547	71,054	71,630	72,100	72,671	73,388	74,109	74,585	75,398	75,950	76,602	77,589	
55 years and over .....	14,228	14,222	14,198	14,340	14,281	14,222	14,303	14,232	14,373	14,387	14,304	14,413	14,456	
Men, 16 years and over .....	59,038	59,276	59,590	59,650	59,799	59,942	60,191	60,712	60,724	60,931	61,203	61,685	61,917	
16 to 24 years .....	11,009	10,833	10,912	10,773	10,725	10,621	10,567	10,679	10,527	10,562	10,527	10,528	10,362	
16 to 19 years .....	3,357	3,292	3,341	3,403	3,360	3,297	3,262	3,285	3,307	3,353	3,343	3,364	3,281	
16 to 17 years .....	1,235	1,234	1,283	1,316	1,295	1,292	1,298	1,319	1,358	1,360	1,372	1,392	1,347	
18 to 19 years .....	2,119	2,050	2,056	2,069	2,071	2,005	1,972	1,976	1,948	1,980	1,982	1,973	1,928	
20 to 24 years .....	7,652	7,541	7,571	7,370	7,364	7,323	7,304	7,394	7,220	7,209	7,184	7,164	7,080	
25 years and over .....	48,026	48,441	48,666	48,891	49,067	49,327	49,613	50,050	50,187	50,378	50,665	51,179	51,547	
25 to 54 years .....	39,646	40,037	40,314	40,413	40,628	40,882	41,176	41,623	41,737	42,019	42,271	42,667	42,996	
55 years and over .....	8,376	8,410	8,367	8,458	8,432	8,442	8,462	8,407	8,443	8,361	8,421	8,491	8,537	
Women, 16 years and over .....	46,008	46,083	46,348	46,971	47,029	47,251	47,782	48,040	48,525	49,049	49,217	49,569	50,263	
16 to 24 years .....	9,796	9,776	9,786	9,862	9,692	9,704	9,742	9,707	9,726	9,676	9,658	9,686	9,743	
16 to 19 years .....	3,146	3,142	3,105	3,168	3,054	3,097	3,114	3,138	3,163	3,139	3,169	3,158	3,273	
16 to 17 years .....	1,174	1,180	1,176	1,229	1,160	1,198	1,185	1,244	1,256	1,262	1,321	1,318	1,309	
18 to 19 years .....	1,969	1,963	1,929	1,951	1,884	1,891	1,929	1,906	1,898	1,866	1,849	1,850	1,955	
20 to 24 years .....	6,650	6,634	6,681	6,695	6,638	6,608	6,628	6,569	6,563	6,537	6,489	6,528	6,470	
25 years and over .....	36,204	36,315	36,561	37,103	37,335	37,561	38,039	38,322	38,797	39,395	39,549	39,860	40,531	
25 to 54 years .....	30,344	30,511	30,739	31,217	31,472	31,789	32,212	32,486	32,849	33,379	33,679	33,935	34,593	
55 years and over .....	5,852	5,811	5,830	5,882	5,848	5,780	5,841	5,826	5,930	6,026	5,883	5,922	5,919	

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

(In thousands)

Sex and age	1984				1985				1986				1987	
	II	III	IV	i	II	III	IV	i	II	III	IV	i	II	
Total, 16 years and over .....	8,472	8,445	8,321	8,407	8,347	8,274	8,214	8,256	8,379	8,191	8,138	7,948	7,435	
16 to 24 years .....	3,336	3,311	3,222	3,261	3,186	3,159	3,216	3,129	3,206	3,082	3,004	3,021	2,861	
16 to 19 years .....	1,502	1,487	1,451	1,490	1,429	1,448	1,505	1,458	1,518	1,434	1,407	1,424	1,347	
16 to 17 years .....	643	645	618	666	657	639	685	672	684	650	654	682	658	
18 to 19 years .....	859	828	838	832	771	797	825	795	832	772	757	751	687	
20 to 24 years .....	1,834	1,825	1,771	1,771	1,757	1,710	1,711	1,671	1,688	1,647	1,598	1,597	1,514	
25 years and over .....	5,132	5,128	5,102	5,153	5,147	5,119	4,999	5,133	5,157	5,122	5,129	4,936	4,554	
25 to 54 years .....	4,469	4,482	4,427	4,551	4,527	4,502	4,401	4,521	4,611	4,544	4,550	4,458	4,065	
55 years and over .....	673	654	652	604	637	625	577	612	567	574	567	479	512	
Men, 16 years and over .....	4,707	4,649	4,566	4,572	4,535	4,486	4,479	4,480	4,596	4,531	4,526	4,425	4,175	
16 to 24 years .....	1,817	1,825	1,772	1,780	1,744	1,727	1,746	1,662	1,745	1,682	1,624	1,629	1,557	
16 to 19 years .....	803	798	801	807	779	812	827	771	824	781	740	778	748	
16 to 17 years .....	354	341	334	363	371	352	368	363	356	356	345	369	362	
18 to 19 years .....	449	447	469	451	406	451	462	416	465	417	397	418	382	
20 to 24 years .....	1,014	1,027	971	974	965	915	919	891	920	901	885	851	809	
25 years and over .....	2,882	2,827	2,789	2,803	2,773	2,768	2,728	2,828	2,833	2,863	2,895	2,806	2,599	
25 to 54 years .....	2,493	2,414	2,389	2,438	2,419	2,402	2,373	2,460	2,502	2,497	2,529	2,491	2,287	
55 years and over .....	405	409	395	357	374	364	352	361	352	357	366	307	332	
Women, 16 years and over .....	3,765	3,796	3,756	3,835	3,812	3,787	3,736	3,775	3,783	3,659	3,612	3,523	3,260	
16 to 24 years .....	1,518	1,486	1,451	1,481	1,442	1,432	1,470	1,467	1,461	1,400	1,380	1,391	1,304	
16 to 19 years .....	699	688	651	684	650	637	678	687	694	653	667	646	599	
16 to 17 years .....	288	304	284	303	285	288	317	309	328	294	309	313	296	
18 to 19 years .....	410	381	368	381	365	346	363	378	368	355	360	333	305	
20 to 24 years .....	819	798	800	797	792	795	792	780	767	747	713	745	704	
25 years and over .....	2,250	2,301	2,312	2,350	2,374	2,352	2,271	2,304	2,324	2,259	2,234	2,130	1,956	
25 to 54 years .....	1,976	2,068	2,038	2,113	2,108	2,100	2,028	2,061	2,108	2,047	2,020	1,967	1,778	
55 years and over .....	268	246	257	247	263	261	225	251	215	217	201	173	179	

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

(Civilian workers)

Sex and age	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
Total, 16 years and over .....	7.5	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.2
16 to 24 years .....	13.8	13.8	13.5	13.6	13.5	13.5	13.7	13.3	13.7	13.2	13.0	13.0	12.5
16 to 19 years .....	18.8	18.8	18.4	18.5	18.2	18.5	19.1	18.5	19.0	18.1	17.8	17.9	17.0
16 to 17 years .....	21.1	21.1	20.1	20.7	21.1	20.4	21.6	20.8	20.7	19.9	19.5	20.1	19.9
18 to 19 years .....	17.4	17.1	17.4	17.2	16.3	17.0	17.5	17.0	17.8	16.7	16.5	16.4	15.0
20 to 24 years .....	11.4	11.4	11.1	11.2	11.1	10.9	10.9	10.7	10.9	10.7	10.5	10.4	10.0
25 years and over .....	5.7	5.7	5.6	5.7	5.6	5.6	5.4	5.5	5.5	5.4	5.4	5.1	4.7
25 to 54 years .....	6.0	6.0	5.9	6.0	5.9	5.8	5.7	5.7	5.8	5.7	5.7	5.5	5.0
55 years and over .....	4.5	4.4	4.4	4.0	4.3	4.2	3.9	4.1	3.8	3.8	3.8	3.2	3.4
Men, 16 years and over .....	7.4	7.3	7.1	7.1	7.0	7.0	6.9	6.9	7.0	6.9	6.9	6.7	6.3
16 to 24 years .....	14.2	14.4	14.0	14.2	14.0	14.0	14.2	13.5	14.2	13.7	13.4	13.4	13.1
16 to 19 years .....	19.3	19.5	19.3	19.2	18.8	19.8	20.2	19.0	20.0	18.9	18.1	18.8	18.6
16 to 17 years .....	22.3	21.7	20.7	21.6	22.3	21.4	22.1	21.6	20.8	20.7	20.1	21.0	21.2
18 to 19 years .....	17.5	17.9	18.6	17.9	16.4	18.4	19.0	17.4	19.3	17.4	16.7	17.5	16.5
20 to 24 years .....	11.7	12.0	11.4	11.7	11.6	11.1	11.2	10.8	11.3	11.1	11.0	10.6	10.3
25 years and over .....	5.7	5.5	5.4	5.4	5.3	5.3	5.2	5.3	5.3	5.4	5.4	5.2	4.8
25 to 54 years .....	5.9	5.7	5.6	5.7	5.6	5.5	5.4	5.6	5.7	5.6	5.6	5.5	5.0
55 years and over .....	4.6	4.6	4.5	4.1	4.2	4.1	4.0	4.1	4.0	4.1	4.2	3.5	3.7
Women, 16 years and over .....	7.6	7.6	7.5	7.5	7.5	7.4	7.3	7.3	7.2	6.9	6.8	6.6	6.1
16 to 24 years .....	13.4	13.2	12.9	13.1	12.9	12.9	13.1	13.1	13.1	12.6	12.5	12.6	11.8
16 to 19 years .....	18.2	18.0	17.3	17.8	17.6	17.1	17.9	18.0	18.0	17.2	17.4	17.0	15.5
16 to 17 years .....	19.7	20.5	19.5	19.8	19.7	19.4	21.1	19.9	20.7	18.9	19.0	19.2	18.5
18 to 19 years .....	17.2	16.3	16.0	16.4	16.2	15.5	15.8	16.6	16.2	16.0	16.3	15.2	13.5
20 to 24 years .....	11.0	10.7	10.7	10.6	10.7	10.7	10.7	10.6	10.5	10.3	9.9	10.2	9.8
25 years and over .....	5.9	6.0	5.9	6.0	6.0	5.9	5.6	5.7	5.7	5.4	5.3	5.1	4.6
25 to 54 years .....	6.1	6.3	6.2	6.3	6.3	6.2	5.9	6.0	6.0	5.8	5.7	5.5	4.9
55 years and over .....	4.4	4.1	4.2	4.0	4.3	4.3	3.7	4.1	3.5	3.5	3.3	2.8	2.9

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

(Unemployment rates)

Category	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	7.5	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.2
Men, 20 years and over .....	6.6	6.4	6.3	6.3	6.2	6.1	6.0	6.1	6.2	6.1	6.1	5.9	5.5
Women, 20 years and over .....	6.7	6.7	6.7	6.7	6.7	6.7	6.4	6.4	6.4	6.1	6.0	5.8	5.4
Both sexes, 16 to 19 years .....	18.8	18.8	18.4	18.5	18.2	18.5	19.1	18.5	19.0	18.1	17.8	17.9	17.0
White .....	6.4	6.3	6.3	6.3	6.3	6.2	6.0	6.1	6.1	6.0	6.0	5.7	5.3
Black and other .....	14.3	14.3	13.7	14.1	13.5	13.3	13.7	13.3	13.5	13.0	12.6	12.7	11.8
Black .....	15.9	15.9	15.1	15.5	14.9	14.7	15.1	14.7	14.8	14.5	14.1	14.2	13.2
Hispanic origin .....	10.9	10.5	10.5	10.2	10.6	10.5	10.8	10.8	10.7	10.8	10.2	9.7	8.8
Married men, spouse present .....	4.6	4.5	4.5	4.4	4.3	4.3	4.3	4.4	4.4	4.3	4.5	4.2	4.0
Married women, spouse present .....	5.7	5.8	5.6	5.6	5.8	5.6	5.4	5.4	5.3	5.1	4.9	4.7	4.2
Women who maintain families .....	10.0	9.9	10.5	10.4	10.4	10.7	10.1	10.0	9.9	9.8	9.5	9.7	9.5
Full-time workers .....	7.2	7.1	7.0	7.0	6.8	6.8	6.7	6.7	6.8	6.6	6.5	6.3	5.9
Part-time workers .....	9.3	9.5	9.0	9.3	9.7	9.3	9.1	9.0	9.2	9.2	9.0	9.0	8.1
Unemployed 15 weeks and over <sup>1</sup> .....	2.5	2.3	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.7
Labor force time lost <sup>2</sup> .....	8.6	8.4	8.4	8.2	8.2	8.1	7.9	8.0	8.1	7.8	7.7	7.5	7.2
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.0	7.1	7.0	6.9	6.6	6.2
Mining .....	8.5	9.1	11.0	10.7	9.4	9.2	8.6	10.2	14.5	15.7	14.4	12.0	11.5
Construction .....	14.9	14.2	13.7	13.3	12.7	13.5	13.1	12.9	12.5	12.8	14.2	12.1	11.9
Manufacturing .....	7.4	7.4	7.2	7.7	7.8	7.8	7.5	7.2	7.2	6.9	7.1	6.9	6.1
Durable goods .....	7.2	6.8	7.0	7.4	7.8	7.8	7.4	7.1	7.1	6.7	6.7	6.8	5.9
Nondurable goods .....	7.6	8.2	7.5	8.0	7.8	7.8	7.6	7.3	7.3	7.3	7.6	7.0	6.3
Transportation and public utilities .....	5.4	5.8	5.3	5.1	5.2	5.1	5.2	5.2	5.4	5.0	4.7	4.4	4.7
Wholesale and retail trade .....	8.0	7.8	7.7	7.7	7.5	7.7	7.7	7.6	7.9	7.6	7.3	7.3	7.0
Finance and service industries .....	5.7	5.8	5.9	5.8	5.8	5.5	5.4	5.6	5.6	5.6	5.3	5.1	4.8
Agricultural wage and salary workers .....	13.1	13.5	12.6	14.0	12.5	13.4	12.3	12.4	14.0	12.5	11.2	11.2	8.8

<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  
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Weeks of unemployment	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>DURATION</b>													
Less than 5 weeks .....	3,264	3,422	3,402	3,561	3,502	3,486	3,444	3,481	3,530	3,417	3,385	3,386	3,192
5 to 14 weeks .....	2,370	2,467	2,431	2,517	2,510	2,517	2,494	2,582	2,657	2,484	2,522	2,485	2,155
15 weeks and over .....	2,781	2,597	2,449	2,365	2,325	2,281	2,231	2,231	2,220	2,298	2,185	2,127	2,077
15 to 26 weeks .....	1,112	1,075	1,036	1,020	1,037	1,036	998	1,074	1,028	1,079	1,006	992	1,009
27 weeks and over .....	1,669	1,522	1,413	1,345	1,288	1,245	1,233	1,156	1,192	1,220	1,179	1,135	1,068
Average (mean) duration, in weeks .....	18.6	17.4	16.8	16.0	15.7	15.4	15.4	14.9	14.9	15.4	15.0	14.8	14.9
Median duration, in weeks .....	8.3	7.4	7.2	7.0	6.8	7.0	6.9	6.8	6.9	7.1	7.0	6.8	6.7
<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 .....	38.8	40.3	41.1	42.2	42.0	42.1	42.2	42.0	42.0	41.7	41.8	42.3	43.0
5 to 14 weeks .....	28.2	29.1	29.4	29.8	30.1	30.4	30.5	31.1	31.6	30.3	31.2	31.1	29.0
15 weeks and over .....	33.1	30.6	29.6	28.0	27.9	27.5	27.3	26.9	26.4	28.0	27.0	26.6	28.0
15 to 26 weeks .....	13.2	12.7	12.5	12.1	12.4	12.5	12.2	13.0	12.2	13.2	12.4	12.4	13.6
27 weeks and over .....	19.8	17.9	17.1	15.9	15.4	15.0	15.1	13.9	14.2	14.9	14.6	14.2	14.4

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

(Numbers in thousands)

Reasons for unemployment	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,375	4,295	4,228	4,225	4,082	4,194	4,043	4,053	4,174	3,977	3,940	3,877	3,636
On layoff .....	1,157	1,164	1,109	1,178	1,136	1,155	1,154	1,141	1,083	1,041	1,074	1,042	922
Other job losers .....	3,219	3,131	3,119	3,047	2,947	3,040	2,889	2,912	3,091	2,936	2,866	2,835	2,714
Job leavers .....	799	844	862	858	893	878	883	984	1,020	1,019	1,040	979	926
Reentrants .....	2,146	2,227	2,192	2,258	2,306	2,233	2,228	2,181	2,165	2,183	2,109	2,069	1,976
New entrants .....	1,150	1,094	1,037	1,055	1,060	997	1,047	1,036	1,048	1,014	1,021	1,027	909
<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 .....	51.7	50.8	50.8	50.3	48.9	50.5	49.3	49.1	49.6	48.5	48.6	48.8	48.8
On layoff .....	13.7	13.8	13.3	14.0	13.6	13.9	14.1	13.8	12.9	12.7	13.2	13.1	12.4
Other job losers .....	38.0	37.0	37.5	36.3	35.3	36.6	35.2	35.3	36.8	35.8	35.3	35.7	36.4
Job leavers .....	9.4	10.0	10.4	10.2	10.7	10.6	10.8	11.9	12.1	12.4	12.8	12.3	12.4
Reentrants .....	25.3	26.3	26.3	26.9	27.6	26.9	27.2	26.4	25.8	26.6	26.0	26.0	26.5
New entrants .....	13.6	12.9	12.5	12.6	12.7	12.0	12.8	12.6	12.5	12.4	12.6	12.9	12.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.9	3.8	3.7	3.7	3.5	3.6	3.5	3.5	3.5	3.4	3.3	3.3	3.0
On layoff .....	.7	.7	.8	.7	.8	.8	.8	.8	.9	.9	.9	.8	.8
Other job losers .....	1.9	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7
Job leavers .....	1.0	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.8

**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	1984			1985				1986				1987	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Total not in labor force .....	62,607	62,791	62,874	62,494	62,771	62,947	62,754	62,817	62,693	62,664	62,807	62,800	62,912
Do not want a job now .....	56,450	57,241	56,774	56,766	56,889	56,830	56,744	57,193	56,838	56,865	57,013	57,094	57,025
Current activity:													
Going to school .....	6,469	6,902	6,357	6,292	6,208	6,310	6,316	6,249	6,513	6,189	6,330	6,428	6,446
Ill, disabled .....	4,083	4,049	3,843	4,042	3,833	3,836	3,969	4,189	4,040	4,087	3,928	4,152	4,168
Keeping house .....	27,897	28,018	27,861	27,399	27,271	27,028	26,839	26,796	26,487	26,176	26,000	26,290	25,488
Retired .....	13,670	13,687	14,255	14,354	14,714	15,131	15,234	15,133	15,326	15,885	16,069	15,768	16,266
Other activity .....	4,331	4,585	4,458	4,679	4,863	4,525	4,386	4,826	4,471	4,528	4,686	4,456	4,657
Want a job now .....	6,018	5,917	6,041	5,880	5,808	6,020	5,961	5,789	5,882	5,980	5,808	5,823	5,924
Reason not looking:													
School attendance .....	1,626	1,478	1,483	1,446	1,460	1,417	1,483	1,416	1,379	1,578	1,427	1,342	1,473
Ill health, disability .....	822	809	819	763	813	780	854	835	898	903	746	842	948
Home responsibilities .....	1,219	1,449	1,347	1,231	1,265	1,395	1,360	1,365	1,311	1,203	1,347	1,222	1,351
Think cannot get a job .....	1,300	1,211	1,272	1,253	1,170	1,230	1,158	1,107	1,119	1,150	1,127	1,168	1,037
Job-market factors .....	947	867	928	858	822	813	792	765	761	736	851	756	688
Personal factors .....	353	344	344	395	348	417	365	343	358	414	277	412	349
Other reasons <sup>1</sup> .....	1,051	969	1,120	1,186	1,100	1,197	1,107	1,065	1,175	1,145	1,160	1,249	1,115
<b>Men</b>													
Total not in labor force .....	19,734	19,776	19,814	19,921	20,011	20,136	20,155	20,225	20,347	20,460	20,454	20,408	20,699
Do not want a job now .....	17,640	17,895	17,801	18,059	17,972	18,093	18,143	18,350	18,441	18,382	18,454	18,434	18,660
Want a job now .....	2,034	1,918	1,986	1,936	2,006	2,003	1,995	1,940	1,948	2,087	2,026	2,005	2,068
Reason not looking:													
School attendance .....	803	717	744	692	732	667	709	726	667	824	680	652	767
Ill health, disability .....	362	383	386	362	348	361	401	364	471	438	359	396	484
Think cannot get a job .....	503	475	476	507	513	499	492	438	392	425	497	490	409
Other reasons <sup>1</sup> .....	365	343	380	375	414	477	393	412	418	399	490	467	408
<b>Women</b>													
Total not in labor force .....	42,872	43,016	43,060	42,573	42,761	42,810	42,598	42,593	42,346	42,204	42,354	42,392	42,213
Do not want a job now .....	38,810	39,346	38,973	38,707	38,917	38,737	38,601	38,843	38,396	38,482	38,559	38,660	38,365
Want a job now .....	3,984	3,999	4,055	3,943	3,802	4,016	3,966	3,849	3,933	3,893	3,782	3,818	3,857
Reason not looking:													
School attendance .....	823	761	740	754	728	749	774	690	711	754	747	690	707
Ill health, disability .....	459	426	433	401	465	420	453	471	426	465	387	447	464
Home responsibilities .....	1,219	1,449	1,347	1,231	1,265	1,395	1,360	1,365	1,311	1,203	1,347	1,222	1,351
Think cannot get a job .....	797	736	795	746	658	731	666	669	727	725	630	678	628
Other reasons .....	686	626	740	811	686	721	713	653	757	746	670	782	707
<b>White</b>													
Total not in labor force .....	53,608	53,894	53,854	53,601	53,807	53,937	53,668	53,767	53,674	53,511	53,564	53,623	53,615
Do not want a job now .....	49,341	49,593	49,514	49,219	49,641	49,426	49,317	49,506	49,387	49,208	49,367	49,450	49,265
Want a job now .....	4,255	4,212	4,367	4,373	4,245	4,430	4,382	4,265	4,352	4,298	4,217	4,195	4,398
Reason not looking:													
School attendance .....	1,120	1,014	1,042	1,054	1,010	1,026	1,052	994	975	1,065	975	933	1,106
Ill health, disability .....	561	587	592	551	560	588	604	625	618	625	536	611	697
Home responsibilities .....	882	1,063	1,027	942	1,003	1,036	1,009	1,020	1,032	898	975	907	993
Think cannot get a job .....	829	774	781	878	764	790	808	749	741	780	817	800	702
Other reasons <sup>1</sup> .....	862	774	926	948	908	990	910	876	985	931	914	944	901
<b>Black</b>													
Total not in labor force .....	7,387	7,252	7,230	7,235	7,313	7,332	7,317	7,274	7,238	7,423	7,405	7,341	7,488
Do not want a job now .....	5,859	5,772	5,748	5,901	5,934	5,948	5,930	5,947	5,937	6,027	6,020	5,945	6,206
Want a job now .....	1,531	1,446	1,485	1,354	1,383	1,332	1,397	1,353	1,299	1,425	1,423	1,436	1,299
Reason not looking:													
School attendance .....	428	354	374	369	398	319	348	386	333	460	381	353	308
Ill health, disability .....	214	214	209	215	211	191	235	211	220	248	192	229	194
Home responsibilities .....	296	337	282	253	264	301	295	287	270	263	318	287	319
Think cannot get a job .....	418	368	459	351	355	350	345	321	296	275	291	342	304
Other reasons <sup>1</sup> .....	175	174	160	166	156	171	174	147	180	179	241	224	175

<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 1986	II 1987	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>TOTAL</b>										
Total not in labor force .....	62,601	62,795	6,290	6,489	4,175	3,984	21,626	21,248	30,508	31,074
Do not want a job now .....	56,530	56,651	4,785	4,903	3,133	2,992	18,650	18,229	29,965	30,528
Current activity:										
Going to school .....	5,834	5,711	3,817	3,773	1,267	1,186	730	743	23	8
Ill, disabled .....	4,181	4,319	24	30	117	110	1,948	2,116	2,092	2,064
Keeping house .....	26,745	25,750	332	333	1,331	1,243	12,930	12,525	12,151	11,650
Retired .....	15,396	16,348	-	-	-	-	348	359	15,050	15,989
Other activity .....	4,373	4,523	612	767	418	453	2,694	2,486	650	817
Want a job now .....	6,072	6,144	1,506	1,586	1,040	992	2,977	3,018	544	545
Reason for not looking:										
School attendance .....	1,776	1,899	1,110	1,232	377	355	281	311	6	-
Ill health, disability .....	859	908	16	24	71	56	592	645	179	182
Home responsibilities .....	1,250	1,283	81	69	249	250	894	918	26	47
Think cannot get a job .....	1,041	971	116	127	135	160	638	528	151	156
Job-market factors .....	734	667	86	84	99	117	484	389	64	77
Personal factors .....	308	304	29	44	35	44	155	140	87	80
Other reasons <sup>1</sup> .....	1,145	1,083	183	134	208	171	572	616	182	160
<b>Men</b>										
Total not in labor force .....	20,162	20,512	2,996	3,150	1,367	1,308	4,072	4,083	11,727	11,971
Do not want a job now .....	18,010	18,221	2,270	2,311	984	950	3,287	3,199	11,470	11,759
Current activity:										
Going to school .....	2,985	2,860	1,913	1,851	723	662	344	345	5	1
Ill, disabled .....	2,213	2,145	19	17	56	73	1,166	1,132	973	921
Keeping house .....	351	504	15	29	12	26	102	192	222	258
Retired .....	10,098	10,312	-	-	-	-	282	266	9,815	10,046
Other activity .....	2,364	2,400	323	414	193	189	1,393	1,264	455	533
Want a job now .....	2,153	2,291	725	838	383	358	784	883	256	212
Reason for not looking:										
School attendance .....	865	989	563	693	191	179	110	117	1	-
Ill health, disability .....	452	464	15	9	35	35	304	337	97	84
Think cannot get a job .....	389	408	64	70	56	71	199	214	68	53
Other reasons <sup>1</sup> .....	447	429	83	66	101	73	171	215	90	75
<b>Women</b>										
Total not in labor force .....	42,439	42,283	3,294	3,339	2,809	2,676	17,554	17,165	18,783	19,103
Do not want a job now .....	38,520	38,430	2,513	2,590	2,150	2,041	15,362	15,029	18,494	18,769
Current activity:										
Going to school .....	2,849	2,851	1,903	1,922	542	526	386	396	18	6
Ill, disabled .....	1,968	2,174	6	12	62	35	783	985	1,119	1,142
Keeping house .....	26,394	25,246	315	303	1,321	1,216	12,827	12,333	11,930	11,393
Retired .....	5,298	6,036	-	-	-	-	65	93	5,233	5,944
Other activity .....	2,010	2,123	289	353	225	264	1,301	1,222	194	284
Want a job now .....	3,919	3,853	780	749	657	636	2,193	2,135	287	334
Reason not looking:										
School attendance .....	911	909	548	539	187	176	171	194	5	-
Ill health, disability .....	407	444	-	15	35	22	288	307	82	99
Home responsibilities .....	1,250	1,283	81	69	249	250	894	918	26	47
Think cannot get a job .....	652	563	52	58	79	89	439	313	83	103
Other reasons .....	699	654	99	68	107	99	401	403	91	85

<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			
	II 1986	II 1987	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>WHITE</b>												
Total not in labor force .....	53,584	53,523	8,068	7,901	18,180	17,740	27,336	27,882	17,016	17,233	36,568	36,290
Do not want a job now .....	49,106	48,983	6,207	6,008	15,986	15,553	26,916	27,420	15,392	15,484	33,712	33,501
Current activity:												
Going to school .....	4,469	4,340	3,926	3,773	527	559	16	7	2,298	2,148	2,171	2,192
Ill, disabled .....	3,300	3,404	103	102	1,506	1,622	1,694	1,678	1,792	1,719	1,508	1,685
Keeping house .....	23,919	22,866	1,410	1,214	11,439	11,023	11,071	10,628	299	380	23,620	22,486
Retired .....	13,836	14,691	-	-	303	324	13,533	14,366	9,101	9,321	4,735	5,370
Other activity .....	3,581	3,684	768	919	2,211	2,025	602	741	1,902	1,916	1,679	1,768
Want a job now .....	4,478	4,540	1,864	1,892	2,195	2,184	422	458	1,624	1,749	2,854	2,790
Reason for not looking:												
School attendance .....	1,300	1,451	1,103	1,215	192	236	6	-	647	763	653	688
Ill health, disability .....	605	678	57	61	425	473	123	144	340	369	265	309
Home responsibilities .....	931	891	230	192	679	657	22	42	-	-	931	891
Think cannot get a job .....	703	666	150	191	442	344	112	128	257	284	446	381
Other reasons <sup>1</sup> .....	939	854	324	233	457	474	159	144	380	333	559	521
<b>BLACK</b>												
Total not in labor force .....	7,187	7,433	1,902	2,069	2,621	2,681	2,663	2,683	2,490	2,629	4,697	4,804
Do not want a job now .....	5,829	6,090	1,292	1,464	1,960	2,017	2,577	2,609	2,066	2,188	3,761	3,901
Current activity:												
Going to school .....	941	969	834	872	103	98	5	-	443	481	498	488
Ill, disabled .....	798	818	37	35	405	432	354	351	382	375	414	443
Keeping house .....	2,183	2,226	202	299	1,051	1,078	931	849	43	96	2,140	2,130
Retired .....	1,282	1,390	-	-	35	29	1,247	1,361	830	818	452	571
Other activity .....	625	687	219	258	366	380	40	48	368	418	257	269
Want a job now .....	1,358	1,342	608	606	662	664	86	74	423	440	935	903
Reason for not looking:												
School attendance .....	400	372	337	321	61	51	-	-	169	186	231	187
Ill health, disability .....	229	201	29	20	156	144	46	36	97	74	133	127
Home responsibilities .....	285	332	90	122	191	209	3	2	-	-	285	332
Think cannot get a job .....	264	269	92	88	148	159	24	22	98	111	166	158
Other reasons <sup>1</sup> .....	180	168	60	55	106	101	13	14	59	69	120	99
<b>HISPANIC ORIGIN</b>												
Total not in labor force .....	4,283	4,313	1,198	1,210	1,992	1,981	1,092	1,122	1,153	1,229	3,130	3,084
Do not want a job now .....	3,722	3,613	956	894	1,682	1,621	1,082	1,097	986	975	2,736	2,638
Current activity:												
Going to school .....	583	541	537	482	46	60	-	-	268	248	315	293
Ill, disabled .....	295	332	13	19	177	205	104	107	190	156	104	176
Keeping house .....	2,054	1,870	327	311	1,269	1,160	457	400	24	45	2,030	1,825
Retired .....	509	585	-	-	14	11	495	573	332	360	178	225
Other activity .....	281	285	79	82	176	185	26	17	172	166	109	119
Want a job now .....	560	699	242	318	310	359	10	23	168	253	393	445
Reason for not looking:												
School attendance .....	135	263	109	210	26	53	-	-	67	127	68	136
Ill health, disability .....	38	73	2	1	30	67	7	6	23	44	16	29
Home responsibilities .....	170	179	49	34	121	141	-	4	-	-	170	179
Think cannot get a job .....	101	101	30	46	72	50	-	5	40	55	61	45
Other reasons <sup>1</sup> .....	116	83	52	27	61	48	3	8	38	27	78	56

<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 1987							
	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 .....	112	19	-	26	67	109	2	9
Lacks education or training .....	104	15	30	57	4	64	30	10
Other personal handicap .....	88	10	14	57	9	71	15	3
Job-market factors:								
Could not find work .....	373	53	72	220	29	228	141	65
Thinks no job available .....	294	31	45	169	48	192	80	14
<b>Men</b>								
Personal factors:								
Employers think too young or old .....	35	11	-	11	13	35	-	2
Lacks education or training .....	30	7	5	18	-	14	14	5
Other personal handicap .....	33	2	7	23		27	5	-
Job-market factors:								
Could not find work .....	169	31	34	91	13	112	60	37
Thinks no job available .....	142	19	26	71	27	95	32	11
<b>Women</b>								
Personal factors:								
Employers think too young or old .....	77	8	-	15	54	74	2	7
Lacks education or training .....	74	8	25	38	4	50	16	5
Other personal handicap .....	56	8	7	32	9	44	11	3
Job-market factors:								
Could not find work .....	204	22	38	129	15	116	81	28
Thinks no job available .....	152	12	20	99	22	97	48	2

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 1986	II 1987	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>TOTAL</b>												
Do not intend to seek work .....	53,840	53,913	6,129	6,151	17,690	17,244	30,020	30,518	46,765	46,679	5,614	5,780
Intend to seek work in the next 12 months .....	8,760	8,880	4,335	4,321	3,936	4,004	489	555	6,817	6,843	1,573	1,653
Never worked .....	1,744	1,701	1,572	1,520	160	178	12	3	1,160	1,159	481	433
Last worked over 5 years ago .....	1,202	1,253	66	97	983	967	153	190	909	923	253	290
Last worked 1 to 5 years ago .....	1,906	2,227	511	635	1,226	1,408	171	183	1,450	1,753	370	386
Worked during previous 12 months .....	3,907	3,699	2,186	2,068	1,567	1,451	154	180	3,298	3,008	470	545
<b>Men</b>												
Do not intend to seek work .....	17,018	17,339	2,437	2,471	3,103	3,106	11,478	11,762	14,561	14,763	1,958	2,080
Intend to seek work in the next 12 months .....	3,143	3,173	1,926	1,987	970	977	248	208	2,454	2,469	532	549
Never worked .....	733	809	711	774	21	35	-	-	492	572	192	191
Last worked over 5 years ago .....	248	237	15	19	144	157	90	61	174	176	61	53
Last worked 1 to 5 years ago .....	547	670	153	220	305	363	89	85	417	547	96	93
Worked during previous 12 months .....	1,615	1,457	1,049	973	497	422	70	61	1,371	1,174	184	212
<b>Women</b>												
Do not intend to seek work .....	36,822	36,575	3,693	3,680	14,586	14,138	18,542	18,755	32,204	31,916	3,657	3,699
Intend to seek work in the next 12 months .....	5,617	5,708	2,409	2,335	2,966	3,026	241	348	4,363	4,374	1,040	1,105
Never worked .....	1,011	892	861	746	139	145	12	3	668	587	289	242
Last worked over 5 years ago .....	954	1,017	52	79	838	809	65	128	735	747	192	237
Last worked 1 to 5 years ago .....	1,359	1,557	358	415	919	1,045	82	98	1,033	1,206	273	293
Worked during previous 12 months .....	2,291	2,242	1,138	1,096	1,069	1,028	83	119	1,927	1,834	286	333

**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	
	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	180,321	182,527	155,245	156,806	19,945	20,310	12,290	12,809
Civilian labor force .....	117,720	119,732	101,661	103,283	12,757	12,878	8,007	8,496
Percent of population .....	65.3	65.6	65.5	65.9	64.0	63.4	65.2	66.3
Employed .....	109,371	112,305	95,499	97,816	10,848	11,163	7,180	7,771
Agriculture .....	3,373	3,475	3,145	3,233	170	171	330	465
Nonagricultural industries .....	105,998	108,830	92,354	94,583	10,678	10,992	6,850	7,306
Unemployed .....	8,349	7,426	6,162	5,466	1,909	1,715	827	725
Unemployment rate .....	7.1	6.2	6.1	5.3	15.0	13.3	10.3	8.5
Not in labor force ..	62,601	62,795	53,584	53,523	7,187	7,433	4,283	4,313
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	85,668	86,791	74,297	75,114	8,937	9,110	6,078	6,341
Civilian labor force .....	65,506	66,279	57,281	57,881	6,445	6,481	4,925	5,112
Percent of population .....	76.5	76.4	77.1	77.1	72.1	71.1	81.0	80.6
Employed .....	60,938	62,125	53,855	54,749	5,468	5,609	4,428	4,673
Agriculture .....	2,699	2,773	2,508	2,570	146	146	283	402
Nonagricultural industries .....	58,239	59,352	51,346	52,178	5,322	5,463	4,144	4,271
Unemployed .....	4,568	4,154	3,426	3,133	978	872	497	439
Unemployment rate .....	7.0	6.3	6.0	5.4	15.2	13.5	10.1	8.6
Not in labor force ..	20,162	20,512	17,016	17,233	2,490	2,629	1,153	1,229
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	78,393	79,466	68,319	69,091	7,888	8,046	5,423	5,673
Civilian labor force .....	61,227	62,103	53,606	54,254	5,945	6,024	4,589	4,779
Percent of population .....	78.1	78.2	78.5	78.5	75.4	74.9	84.6	84.2
Employed .....	57,509	58,724	50,799	51,703	5,168	5,320	4,172	4,417
Agriculture .....	2,403	2,493	2,225	2,301	139	139	251	365
Nonagricultural industries .....	55,106	56,231	48,575	49,402	5,029	5,182	3,920	4,052
Unemployed .....	3,718	3,380	2,807	2,551	777	704	418	362
Unemployment rate .....	6.1	5.4	5.2	4.7	13.1	11.7	9.1	7.6
Not in labor force ..	17,166	17,362	14,713	14,838	1,942	2,022	834	894
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	94,653	95,736	80,948	81,691	11,009	11,201	6,212	6,468
Civilian labor force .....	52,214	53,452	44,380	45,402	6,312	6,397	3,083	3,384
Percent of population .....	55.2	55.8	54.8	55.6	57.3	57.1	49.6	52.3
Employed .....	48,433	50,180	41,645	43,068	5,380	5,554	2,753	3,098
Agriculture .....	674	702	636	663	24	25	47	63
Nonagricultural industries .....	47,759	49,478	41,008	42,405	5,356	5,529	2,706	3,036
Unemployed .....	3,781	3,272	2,735	2,334	931	843	330	285
Unemployment rate .....	7.2	6.1	6.2	5.1	14.8	13.2	10.7	8.4
Not in labor force ..	42,439	42,283	36,568	36,290	4,697	4,804	3,130	3,084
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	87,449	88,468	75,049	75,762	9,922	10,103	5,566	5,809
Civilian labor force .....	48,304	49,524	40,998	41,987	5,857	5,970	2,846	3,109
Percent of population .....	55.2	56.0	54.6	55.4	59.0	59.1	51.1	53.5
Employed .....	45,287	46,923	38,810	40,140	5,125	5,297	2,573	2,873
Agriculture .....	630	653	592	615	24	23	45	58
Nonagricultural industries .....	44,657	46,270	38,218	39,525	5,102	5,273	2,528	2,816
Unemployed .....	3,017	2,602	2,188	1,847	732	673	274	236
Unemployment rate .....	6.2	5.3	5.3	4.4	12.5	11.3	9.6	7.6
Not in labor force ..	39,145	38,944	34,051	33,775	4,065	4,134	2,720	2,700
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	14,479	14,593	11,877	11,952	2,135	2,161	1,301	1,327
Civilian labor force .....	8,189	8,104	7,056	7,042	955	884	572	608
Percent of population .....	56.6	55.5	59.4	58.9	44.7	40.9	44.0	45.8
Employed .....	6,575	6,659	5,889	5,973	555	546	436	481
Agriculture .....	341	330	328	317	7	9	35	42
Nonagricultural industries .....	6,234	6,329	5,562	5,656	547	537	402	439
Unemployed .....	1,614	1,444	1,167	1,069	401	338	136	126
Unemployment rate .....	19.7	17.8	16.5	15.2	41.9	38.3	23.7	20.8
Not in labor force ..	6,290	6,489	4,821	4,910	1,179	1,277	728	720

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 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>TOTAL</b>								
Civilian noninstitutional population .....	12,290	12,809	7,394	7,665	1,436	1,534	862	829
Civilian labor force .....	8,007	8,496	4,898	5,204	792	842	568	542
Percent of population .....	65.2	66.3	66.2	67.9	55.2	54.9	65.9	65.4
Employed .....	7,180	7,771	4,361	4,704	686	773	533	513
Agriculture .....	330	465	292	412	14	16	4	1
Nonagricultural industries .....	6,850	7,306	4,069	4,292	672	757	528	512
Unemployed .....	827	725	537	500	106	69	35	29
Unemployment rate .....	10.3	8.5	11.0	9.6	13.4	8.2	6.2	5.4
Not in labor force .....	4,283	4,313	2,496	2,461	644	692	294	287
<b>Men, 16 years and over</b>								
Civilian noninstitutional population .....	6,078	6,341	3,742	3,942	642	654	438	419
Civilian labor force .....	4,925	5,112	3,085	3,241	488	478	338	320
Percent of population .....	81.0	80.6	82.4	82.2	76.0	73.1	77.2	76.4
Employed .....	4,428	4,673	2,749	2,938	430	439	317	305
Agriculture .....	283	402	253	359	10	11	4	1
Nonagricultural industries .....	4,144	4,271	2,496	2,578	420	428	312	304
Unemployed .....	497	439	336	303	57	40	21	16
Unemployment rate .....	10.1	8.6	10.9	9.3	11.7	8.3	6.3	4.9
Not in labor force .....	1,153	1,229	658	701	154	175	100	99
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	5,423	5,673	3,299	3,486	572	586	413	388
Civilian labor force .....	4,589	4,779	2,842	2,988	459	459	323	310
Percent of population .....	84.6	84.2	86.1	85.7	80.2	78.3	78.2	79.9
Employed .....	4,172	4,417	2,559	2,747	411	423	306	296
Agriculture .....	251	365	220	323	10	11	4	1
Nonagricultural industries .....	3,920	4,052	2,339	2,425	401	412	301	295
Unemployed .....	418	362	283	241	48	36	17	14
Unemployment rate .....	9.1	7.6	9.9	8.1	10.4	7.8	5.3	4.5
Not in labor force .....	834	894	457	497	112	127	90	79
<b>Women, 16 years and over</b>								
Civilian noninstitutional population .....	6,212	6,468	3,652	3,723	794	881	424	410
Civilian labor force .....	3,083	3,384	1,813	1,963	304	364	230	221
Percent of population .....	49.6	52.3	49.6	52.7	38.3	41.3	54.2	53.9
Employed .....	2,753	3,098	1,612	1,767	256	334	216	208
Agriculture .....	47	63	40	53	4	5	-	-
Nonagricultural industries .....	2,706	3,036	1,573	1,714	252	330	216	208
Unemployed .....	330	285	201	197	49	30	14	14
Unemployment rate .....	10.7	8.4	11.1	10.0	16.0	8.1	6.1	6.1
Not in labor force .....	3,130	3,084	1,838	1,760	490	517	194	188
<b>Women, 20 years and over</b>								
Civilian noninstitutional population .....	5,566	5,809	3,223	3,298	714	797	402	390
Civilian labor force .....	2,846	3,109	1,642	1,785	283	343	221	208
Percent of population .....	51.1	53.5	50.9	54.1	39.6	43.0	55.0	53.3
Employed .....	2,573	2,873	1,480	1,621	242	318	210	197
Agriculture .....	45	58	37	48	4	5	-	-
Nonagricultural industries .....	2,528	2,816	1,443	1,573	238	314	210	197
Unemployed .....	274	236	162	165	41	25	11	11
Unemployment rate .....	9.6	7.6	9.9	9.2	14.6	7.2	5.1	5.2
Not in labor force .....	2,720	2,700	1,581	1,513	431	454	180	182
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population .....	1,301	1,327	872	881	150	151	47	51
Civilian labor force .....	572	608	413	430	50	41	24	24
Percent of population .....	44.0	45.8	47.4	48.8	33.3	27.2	( <sup>2</sup> )	( <sup>2</sup> )
Employed .....	436	481	322	337	33	32	17	20
Agriculture .....	35	42	34	42	-	-	-	-
Nonagricultural industries .....	402	439	287	295	33	32	17	20
Unemployed .....	136	126	92	94	17	9	7	5
Unemployment rate .....	23.7	20.8	22.2	21.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Not in labor force .....	728	720	459	451	101	111	23	27

<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	
	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	109,371	112,305	95,499	97,816	10,848	11,163	7,180	7,771
Men .....	60,938	62,125	53,855	54,749	5,468	5,609	4,428	4,673
Women .....	48,433	50,180	41,645	43,068	5,380	5,554	2,753	3,098
<b>OCCUPATION</b>								
Managerial and professional specialty .....	26,396	27,396	23,981	24,828	1,593	1,660	929	937
Executive, administrative, and managerial .....	12,562	13,115	11,558	12,032	664	707	473	491
Professional specialty .....	13,834	14,281	12,422	12,796	929	953	456	445
Technical, sales, and administrative support .....	34,043	34,917	30,226	30,926	2,943	2,996	1,762	2,024
Technicians and related support .....	3,266	3,275	2,868	2,881	272	252	136	137
Sales occupations .....	13,191	13,443	12,126	12,353	767	741	615	728
Administrative support, including clerical .....	17,586	18,199	15,232	15,693	1,904	2,003	1,010	1,159
Service occupations .....	14,570	15,142	11,665	11,966	2,421	2,628	1,322	1,356
Private household .....	1,014	925	755	687	234	213	145	122
Protective service .....	1,788	1,925	1,493	1,540	260	351	107	111
Service, except private household and protective .....	11,767	12,292	9,417	9,739	1,927	2,064	1,070	1,123
Precision production, craft, and repair .....	13,342	13,540	12,024	12,232	1,028	1,004	1,033	1,070
Mechanics and repairers .....	4,364	4,370	3,935	3,974	342	305	283	275
Construction trades .....	4,934	4,991	4,517	4,559	338	363	379	413
Other precision production, craft, and repair .....	4,044	4,179	3,573	3,698	348	336	371	383
Operators, fabricators, and laborers .....	17,259	17,404	14,149	14,281	2,629	2,631	1,766	1,838
Machine operators, assemblers, and inspectors .....	7,938	7,951	6,455	6,467	1,205	1,184	926	940
Transportation and material moving occupations .....	4,618	4,701	3,906	3,942	633	680	348	378
Handlers, equipment cleaners, helpers, and laborers .....	4,703	4,752	3,788	3,871	791	768	493	520
Construction laborers .....	747	793	618	647	116	128	96	119
Other handlers, equipment cleaners, helpers, and laborers .....	3,956	3,959	3,170	3,224	675	640	397	401
Farming, forestry, and fishing .....	3,762	3,906	3,454	3,584	235	243	368	548
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,659	1,798	1,495	1,624	133	131	293	408
Self-employed workers .....	1,524	1,489	1,466	1,427	34	38	36	49
Unpaid family workers .....	190	189	184	182	4	2	1	8
Nonagricultural industries:								
Wage and salary workers .....	98,040	100,411	84,987	86,797	10,322	10,615	6,456	6,873
Government .....	16,326	16,724	13,363	13,583	2,459	2,603	883	904
Private industries .....	81,714	83,687	71,624	73,213	7,862	8,011	5,573	5,969
Private households .....	1,298	1,243	983	940	286	271	165	150
Other industries .....	80,416	82,444	70,641	72,274	7,577	7,740	5,408	5,819
Self-employed workers .....	7,714	8,143	7,144	7,530	352	370	382	412
Unpaid family workers .....	243	275	224	257	4	8	12	22
<b>FULL- AND PART-TIME STATUS<sup>1</sup></b>								
Full-time schedules .....	88,432	91,033	77,007	79,053	8,917	9,230	5,904	6,468
Part time for economic reasons .....	5,738	5,297	4,689	4,271	895	844	584	555
Part time for noneconomic reasons .....	15,201	15,975	13,803	14,493	1,036	1,089	692	748

<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	
	1986	1987	1986	1987	1986	1987	1986	1987
<b>CHARACTERISTIC</b>								
Total (all civilian workers) .....	7,180	7,771	4,361	4,704	686	773	533	513
Men .....	4,428	4,673	2,749	2,938	430	439	317	305
Women .....	2,753	3,098	1,612	1,767	256	334	216	208
<b>OCCUPATION</b>								
Managerial and professional specialty .....	929	937	462	466	94	99	116	107
Executive, administrative, and managerial .....	473	491	244	236	37	50	69	65
Professional specialty .....	456	445	218	230	57	49	48	43
Technical, sales, and administrative support .....	1,762	2,024	999	1,086	202	232	163	172
Technicians and related support .....	136	137	63	70	20	13	13	10
Sales occupations .....	615	728	360	384	62	46	65	79
Administrative support, including clerical .....	1,010	1,159	576	633	120	173	84	83
Service occupations .....	1,322	1,356	787	789	136	147	70	68
Private household .....	145	122	80	62	1	-	4	6
Protective service .....	107	111	54	58	20	23	7	9
Service, except private household and protective .....	1,070	1,123	653	669	115	124	59	54
Precision production, craft, and repair .....	1,033	1,070	673	684	86	91	79	75
Mechanics and repairers .....	283	275	174	160	25	36	24	25
Construction trades .....	379	413	268	280	29	28	28	33
Other precision production, craft, and repair .....	371	383	231	245	32	28	27	16
Operators, fabricators, and laborers .....	1,766	1,838	1,122	1,198	149	186	97	86
Machine operators, assemblers, and inspectors .....	926	940	559	575	79	103	53	47
Transportation and material moving occupations .....	348	378	224	229	31	42	16	24
Handlers, equipment cleaners, helpers, and laborers .....	493	520	339	393	39	41	28	15
Construction laborers .....	96	119	70	96	4	4	3	1
Other handlers, equipment cleaners, helpers, and laborers .....	397	401	269	297	35	37	24	13
Farming, forestry, and fishing .....	368	548	318	480	19	17	8	5
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	293	408	264	370	14	16	1	
Self-employed workers .....	36	49	28	35			4	1
Unpaid family workers .....	1	8	-	8				
Nonagricultural industries:								
Wage and salary workers .....	6,456	6,873	3,848	4,060	647	725	475	472
Government .....	883	904	550	551	130	126	42	58
Private industries .....	5,573	5,969	3,298	3,509	516	599	432	413
Private households .....	165	150	94	80	2	-	4	6
Other industries .....	5,408	5,819	3,204	3,429	514	599	428	407
Self-employed workers .....	382	412	216	219	24	32	50	38
Unpaid family workers .....	12	22	5	13	1	-	3	2
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	5,904	6,468	3,540	3,859	588	678	449	437
Part time for economic reasons .....	584	555	408	417	41	33	29	19
Part time for noneconomic reasons .....	692	748	413	429	57	62	54	57

<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 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
Total, 16 years and over .....	109,371	112,305	95,499	97,816	10,848	11,163	7,180	7,771
16 to 19 years .....	6,575	6,659	5,889	5,973	555	546	436	481
16 to 17 years .....	2,657	2,702	2,420	2,458	190	185	141	151
18 to 19 years .....	3,918	3,957	3,469	3,515	365	360	295	330
20 to 24 years .....	13,775	13,539	11,980	11,818	1,459	1,371	1,242	1,248
25 years and over .....	89,020	92,107	77,630	80,025	8,834	9,246	5,502	6,042
25 to 54 years .....	74,619	77,621	64,686	67,132	7,646	7,966	4,979	5,471
55 years and over .....	14,401	14,486	12,945	12,894	1,188	1,280	523	571
Men, 16 years and over .....	60,938	62,125	53,855	54,749	5,468	5,609	4,428	4,673
16 to 19 years .....	3,429	3,402	3,055	3,046	300	289	256	256
16 to 17 years .....	1,423	1,415	1,290	1,281	105	104	76	75
18 to 19 years .....	2,005	1,986	1,765	1,765	195	185	180	181
20 to 24 years .....	7,256	7,113	6,329	6,224	746	709	775	774
25 years and over .....	50,253	51,611	44,471	45,479	4,422	4,612	3,396	3,642
25 to 54 years .....	41,793	43,054	36,771	37,780	3,795	3,927	3,065	3,313
55 years and over .....	8,460	8,557	7,700	7,700	627	685	331	330
Women, 16 years and over .....	48,433	50,180	41,645	43,068	5,380	5,554	2,753	3,098
16 to 19 years .....	3,146	3,258	2,834	2,927	255	257	180	225
16 to 17 years .....	1,234	1,287	1,130	1,177	85	81	65	76
18 to 19 years .....	1,912	1,971	1,704	1,751	170	176	115	149
20 to 24 years .....	6,519	6,426	5,651	5,595	713	663	467	474
25 years and over .....	38,767	40,497	33,159	34,546	4,412	4,634	2,106	2,399
25 to 54 years .....	32,827	34,567	27,915	29,352	3,851	4,039	1,914	2,158
55 years and over .....	5,940	5,930	5,245	5,194	561	595	193	241

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 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
Total, 16 years and over .....	7.1	6.2	6.1	5.3	15.0	13.3	10.3	8.5
16 to 19 years .....	19.7	17.8	16.5	15.2	41.9	38.3	23.7	20.8
16 to 17 years .....	22.5	21.6	19.5	19.1	45.1	43.6	28.6	30.2
18 to 19 years .....	17.7	15.0	14.3	12.2	40.1	35.1	21.2	15.6
20 to 24 years .....	11.0	10.2	9.1	8.3	23.6	23.6	12.7	11.4
25 years and over .....	5.3	4.6	4.7	4.0	10.7	9.3	8.5	6.7
25 to 54 years .....	5.7	4.8	4.9	4.2	11.4	9.9	8.7	7.0
55 years and over .....	3.7	3.3	3.5	3.0	5.6	5.4	6.8	4.3
Men, 16 years and over .....	7.0	6.3	6.0	5.4	15.2	13.5	10.1	8.6
16 to 19 years .....	19.9	18.5	16.9	16.0	40.1	36.8	23.7	23.1
16 to 17 years .....	21.7	22.1	19.2	19.6	41.2	42.1	29.1	34.0
18 to 19 years .....	18.5	15.8	15.1	13.3	39.5	33.4	21.2	17.4
20 to 24 years .....	11.4	10.4	9.6	8.7	23.5	22.7	12.2	11.3
25 years and over .....	5.3	4.7	4.6	4.1	11.0	9.7	8.4	6.7
25 to 54 years .....	5.5	4.9	4.8	4.3	11.7	10.3	8.5	6.9
55 years and over .....	3.8	3.6	3.6	3.3	6.7	6.3	6.8	5.4
Women, 16 years and over .....	7.2	6.1	6.2	5.1	14.8	13.2	10.7	8.4
16 to 19 years .....	19.5	17.1	16.2	14.3	43.9	39.8	23.8	18.0
16 to 17 years .....	23.3	21.1	19.9	18.5	49.3	45.4	27.9	26.0
18 to 19 years .....	16.9	14.2	13.5	11.1	40.8	36.8	21.2	13.3
20 to 24 years .....	10.7	10.0	8.6	7.9	23.6	24.6	13.6	11.6
25 years and over .....	5.5	4.5	4.8	3.8	10.4	9.0	8.7	6.8
25 to 54 years .....	5.8	4.7	5.0	4.0	11.2	9.6	8.9	7.1
55 years and over .....	3.4	2.9	3.3	2.5	4.3	4.3	7.3	2.8

**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 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>DURATION</b>								
Total, 16 years and over .....	8,349	7,426	6,162	5,466	1,909	1,715	827	725
Less than 5 weeks .....	3,625	3,285	2,725	2,468	777	702	371	350
5 to 14 weeks .....	2,323	1,891	1,713	1,414	536	423	250	170
15 weeks and over ..	2,401	2,251	1,724	1,585	596	589	205	204
15 to 26 weeks .....	1,147	1,127	849	820	252	264	90	112
27 weeks and over ..	1,254	1,124	875	764	344	326	116	93
Average (mean) duration, in weeks .....	15.2	15.2	14.7	14.4	17.1	17.8	14.2	13.3
Median duration, in weeks .....	6.7	6.5	6.5	6.2	7.6	7.9	6.3	5.5
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	43.4	44.2	44.2	45.2	40.7	40.9	44.9	48.4
5 to 14 weeks .....	27.8	25.5	27.8	25.9	28.1	24.7	30.2	23.4
15 weeks and over .....	28.8	30.3	28.0	29.0	31.2	34.4	24.8	28.2
15 to 26 weeks .....	13.7	15.2	13.8	15.0	13.2	15.4	10.9	15.4
27 weeks and over .....	15.0	15.1	14.2	14.0	18.0	19.0	14.0	12.8

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 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	8,349	7,426	6,162	5,466	1,909	1,715	827	725
Job losers .....	4,013	3,502	3,049	2,619	849	775	476	396
On layoff .....	985	838	836	673	122	151	97	61
Other job losers ..	3,029	2,664	2,213	1,946	727	625	379	335
Job leavers .....	947	862	750	702	165	133	75	70
Reentrants .....	2,194	2,006	1,564	1,417	555	509	162	159
New entrants .....	1,194	1,057	799	728	341	298	114	99
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	48.1	47.2	49.5	47.9	44.5	45.2	57.6	54.6
On layoff .....	11.8	11.3	13.6	12.3	6.4	8.8	11.8	8.4
Other job losers ..	36.3	35.9	35.9	35.6	38.1	36.4	45.8	46.2
Job leavers .....	11.3	11.6	12.2	12.8	8.6	7.7	9.1	9.7
Reentrants .....	26.3	27.0	25.4	25.9	29.1	29.7	19.5	22.0
New entrants .....	14.3	14.2	13.0	13.3	17.9	17.4	13.8	13.7
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	3.4	2.9	3.0	2.5	6.7	6.0	5.9	4.7
Job leavers .....	.8	.7	.7	.7	1.3	1.0	.9	.8
Reentrants .....	1.9	1.7	1.5	1.4	4.3	3.9	2.0	1.9
New entrants .....	1.0	.9	.8	.7	2.7	2.3	1.4	1.2

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 1986	II 1987	Total		Employed		Unemployed			
			II 1986	II 1987	II 1986	II 1987	Number		Percent of labor force	
							II 1986	II 1987	II 1986	II 1987
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,733	7,831	7,179	7,254	6,832	6,911	347	343	4.8	4.7
30 to 34 years .....	6,402	6,242	6,105	5,971	5,797	5,685	308	286	5.0	4.8
35 to 39 years .....	1,173	953	1,099	908	1,016	825	83	83	7.6	9.1
40 to 44 years .....	3,125	2,665	2,987	2,552	2,838	2,436	149	117	5.0	4.6
45 years and over .....	2,105	2,624	2,019	2,511	1,943	2,425	76	86	3.8	3.4
	1,331	1,588	1,074	1,283	1,035	1,226	39	57	3.6	4.4
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	18,265	19,329	17,277	18,250	16,351	17,420	927	830	5.4	4.5
30 to 34 years .....	8,487	8,808	8,086	8,407	7,627	8,000	459	407	5.7	4.8
35 to 39 years .....	5,597	6,144	5,299	5,774	5,035	5,533	264	241	5.0	4.2
40 to 44 years .....	4,182	4,377	3,892	4,069	3,689	3,887	203	182	5.2	4.5

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 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987	II 1986	II 1987
<b>TOTAL, 30 to 44 years</b>												
Civilian noninstitutional population .....	5,719	5,535	584	585	298	286	15,674	16,624	1,861	1,961	1,596	1,739
Civilian labor force .....	5,472	5,309	542	546	278	266	14,977	15,857	1,642	1,724	1,483	1,625
Employed .....	5,231	5,087	482	493	256	251	14,300	15,234	1,430	1,550	1,363	1,516
Unemployed .....	240	223	60	53	22	14	676	623	212	175	120	109
Unemployment rate .....	4.4	4.2	11.0	9.7	7.8	5.5	4.5	3.9	12.9	10.1	8.1	6.7
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	1,008	801	143	127	82	56	7,303	7,596	855	904	712	777
Civilian labor force .....	959	764	124	118	73	50	7,034	7,321	763	812	664	728
Employed .....	894	699	106	103	62	44	6,693	7,012	663	730	609	674
Unemployed .....	65	65	18	15	11	6	341	309	100	82	55	54
Unemployment rate .....	6.8	8.5	14.3	12.3	14.9	( <sup>1</sup> )	4.9	4.2	13.1	10.1	8.2	7.4
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	2,804	2,351	273	268	132	131	4,799	5,280	573	607	505	547
Civilian labor force .....	2,685	2,257	256	250	123	123	4,581	5,015	509	528	470	519
Employed .....	2,571	2,171	226	221	114	119	4,388	4,842	449	473	435	483
Unemployed .....	113	86	30	28	9	4	193	173	60	56	35	35
Unemployment rate .....	4.2	3.8	11.6	11.3	7.4	3.5	4.2	3.4	11.8	10.5	7.5	6.8
<b>40 to 44 years</b>												
Civilian noninstitutional population .....	1,908	2,383	167	191	83	99	3,572	3,748	433	450	379	415
Civilian labor force .....	1,829	2,288	162	178	81	92	3,362	3,521	369	384	349	378
Employed .....	1,766	2,217	150	168	80	88	3,220	3,380	318	347	319	358
Unemployed .....	62	72	12	10	2	4	142	142	51	37	30	20
Unemployment rate .....	3.4	3.1	7.6	5.8	2.0	4.3	4.2	4.0	13.9	9.7	8.5	5.3

<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 1986					II 1987				
	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 .....	62,917	6,310	28.8	71.2	62.7	64,001	5,770	28.7	71.3	62.3
With children under 18 years of age .....	31,463	3,800	31.3	68.7	60.1	31,890	3,499	30.8	69.2	60.3
Married-couple families .....	50,068	4,397	20.1	79.9	71.8	50,652	3,984	19.6	80.4	71.7
With children under 18 years of age .....	24,170	2,711	20.3	79.7	71.4	24,359	2,423	17.9	82.1	73.0
Families maintained by women .....	10,332	1,536	50.9	49.1	39.3	10,561	1,437	52.3	47.7	37.6
With children under 18 years of age .....	6,287	944	59.5	40.5	30.7	6,454	933	61.2	38.8	30.2
Families maintained by men .....	2,517	378	39.8	60.2	53.1	2,788	349	35.9	64.1	56.6
With children under 18 years of age .....	1,006	146	52.7	47.3	41.1	1,078	144	50.0	50.0	41.0
<b>White</b>										
Total families .....	54,378	4,767	26.2	73.8	65.1	55,167	4,326	25.7	74.3	65.2
With children under 18 years of age .....	26,337	2,833	28.1	71.9	63.2	26,626	2,588	26.1	73.9	64.7
Married-couple families .....	45,227	3,638	20.1	79.9	71.7	45,797	3,308	19.4	80.6	71.8
With children under 18 years of age .....	21,376	2,204	20.3	79.7	71.3	21,596	1,996	17.4	82.6	73.3
Families maintained by women .....	7,162	862	48.3	51.7	41.5	7,216	775	49.4	50.6	39.6
With children under 18 years of age .....	4,151	514	56.3	43.7	32.9	4,189	488	57.4	42.6	33.8
Families maintained by men .....	1,990	267	39.0	61.0	52.4	2,154	243	35.0	65.0	57.6
With children under 18 years of age .....	811	115	52.2	47.8	42.6	841	104	48.1	51.9	45.2
<b>Black</b>										
Total families .....	6,857	1,341	38.0	62.0	54.3	7,076	1,254	39.0	61.0	52.4
With children under 18 years of age .....	4,072	831	42.0	58.0	49.9	4,213	783	45.2	54.8	46.2
Married-couple families .....	3,502	607	19.4	80.6	72.7	3,485	539	19.1	80.9	72.4
With children under 18 years of age .....	1,920	394	19.1	80.9	72.8	1,920	328	18.0	82.0	73.5
Families maintained by women .....	2,925	638	54.6	45.4	37.0	3,065	623	56.3	43.7	35.0
With children under 18 years of age .....	1,991	412	62.9	37.1	28.9	2,099	421	65.8	34.2	26.1
Families maintained by men .....	431	96	44.8	55.2	52.1	526	92	37.6	62.4	52.7
With children under 18 years of age .....	160	25	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	194	34	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Hispanic origin</b>										
Total families .....	4,227	614	34.6	65.4	56.7	4,392	586	31.1	68.9	60.8
With children under 18 years of age .....	2,747	404	37.4	62.6	55.4	2,892	401	34.9	65.1	56.6
Married-couple families .....	2,991	430	26.3	73.7	65.6	3,091	397	23.2	76.8	68.8
With children under 18 years of age .....	1,977	301	25.9	74.1	66.8	2,072	279	24.0	76.0	67.0
Families maintained by women .....	959	130	63.8	36.2	29.2	1,025	138	53.2	46.8	38.1
With children under 18 years of age .....	677	83	75.9	24.1	18.1	722	96	61.5	38.5	32.3
Families maintained by men .....	276	54	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	275	51	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
With children under 18 years of age .....	93	21	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	98	26	( <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 1986			II 1987				
	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> .....	6,963	31.3	68.7	60.2	6,259	31.2	68.8	59.9
Husbands .....	1,603	41.6	58.4	45.6	1,501	37.9	62.1	47.8
With children under 18 years of age .....	1,027	46.8	53.2	39.8	938	40.6	59.4	43.6
Wives .....	1,298	17.0	83.0	76.0	1,079	17.5	82.5	75.8
With children under 18 years of age .....	812	16.2	83.8	76.8	679	15.3	84.7	77.0
Relatives in married-couple families .....	1,908	10.6	89.4	84.5	1,720	11.7	88.3	83.3
Women who maintain families .....	616	83.3	16.7	9.1	611	85.6	14.4	9.8
With children under 18 years of age .....	524	89.2	10.8	4.4	526	92.2	7.8	4.7
Relatives in families maintained by women .....	1,126	35.9	64.1	53.2	981	33.6	66.4	53.3
Men who maintain families .....	164	69.5	30.5	22.6	144	64.2	35.8	24.4
With children under 18 years of age .....	80	88.0	12.0	6.5	82	84.4	15.6	6.3
Relatives in families maintained by men .....	249	24.2	75.8	68.6	223	21.7	78.3	73.2
<b>White</b>								
Total unemployed in families <sup>1</sup> .....	5,120	28.9	71.1	62.5	4,595	28.3	71.7	62.5
Husbands .....	1,307	42.4	57.6	44.3	1,260	38.5	61.5	46.6
With children under 18 years of age .....	817	48.3	51.7	37.9	767	41.3	58.7	41.8
Wives .....	1,078	16.4	83.6	76.8	894	16.7	83.3	76.6
With children under 18 years of age .....	656	15.7	84.3	77.2	548	14.1	85.9	78.4
Relatives in married-couple families .....	1,527	10.1	89.9	85.0	1,373	10.7	89.3	84.6
Women who maintain families .....	338	78.3	21.7	11.7	318	84.2	15.8	10.6
With children under 18 years of age .....	276	86.6	13.4	4.8	270	91.7	8.3	5.2
Relatives in families maintained by women .....	589	36.3	63.7	53.5	499	31.1	68.9	54.1
Men who maintain families .....	120	70.2	29.8	20.6	97	61.8	38.2	25.3
With children under 18 years of age .....	64	89.6	10.4	5.9	55	86.4	13.6	3.8
Relatives in families maintained by men .....	161	19.8	80.2	71.3	154	24.2	75.8	72.5
<b>Black</b>								
Total unemployed in families <sup>1</sup> .....	1,608	39.2	60.8	53.1	1,459	40.0	60.0	51.8
Husbands .....	225	37.5	62.5	52.3	180	33.0	67.0	54.4
With children under 18 years of age .....	154	40.9	59.1	47.3	120	34.6	65.4	52.4
Wives .....	173	20.3	79.7	72.6	150	19.9	80.1	74.2
With children under 18 years of age .....	124	19.0	81.0	75.2	102	19.2	80.8	73.7
Relatives in married-couple families .....	322	12.7	87.3	82.2	296	16.5	83.5	77.2
Women who maintain families .....	266	90.0	10.0	6.1	278	87.6	12.4	8.6
With children under 18 years of age .....	238	92.6	7.4	4.0	245	92.4	7.6	4.3
Relatives in families maintained by women .....	510	34.9	65.1	53.5	457	36.2	63.8	52.8
Men who maintain families .....	40	( <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 .....	14	( <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 .....	73	33.4	66.6	63.7	57	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Hispanic origin</b>								
Total unemployed in families <sup>1</sup> .....	692	37.0	63.0	54.4	632	33.9	66.1	58.6
Husbands .....	172	54.7	45.3	37.7	166	46.2	53.8	42.9
With children under 18 years of age .....	118	60.6	39.4	32.6	130	48.6	51.4	39.0
Wives .....	109	12.5	87.5	75.3	112	17.4	82.6	76.1
With children under 18 years of age .....	79	12.1	87.9	79.2	73	16.1	83.9	75.7
Relatives in married-couple families .....	196	14.6	85.4	79.3	156	10.0	90.0	87.2
Women who maintain families .....	65	79.2	20.8	14.0	61	84.8	15.2	13.8
With children under 18 years of age .....	51	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	55	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by women .....	88	57.8	42.2	36.0	87	37.5	62.5	49.3
Men who maintain families .....	27	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	22	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
With children under 18 years of age .....	15	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	16	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Relatives in families maintained by men .....	34	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	28	( <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 1986				II 1987			
	Total	Percent of employed:			Total	Percent of employed:		
		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 employed in families <sup>1</sup> .....	89,243	23.6	76.4	65.0	91,806	22.6	77.4	66.1
Husbands .....	37,675	31.8	68.2	50.1	38,314	29.8	70.2	51.9
With children under 18 years of age .....	22,034	33.9	66.1	44.7	22,368	31.4	68.6	47.0
Wives .....	25,981	9.5	90.5	85.7	27,252	8.8	91.2	86.3
With children under 18 years of age .....	14,074	5.6	94.4	90.4	14,962	5.2	94.8	90.7
Relatives in married-couple families .....	12,249	6.2	93.8	89.8	12,364	6.3	93.7	89.7
Women who maintain families .....	5,744	62.3	37.7	24.5	5,946	63.2	36.8	23.7
With children under 18 years of age .....	3,800	77.7	22.3	10.3	3,922	78.7	21.3	10.3
Relatives in families maintained by women .....	4,526	24.2	75.8	64.8	4,436	25.5	74.5	64.3
Men who maintain families .....	1,750	55.7	44.3	33.3	1,981	52.7	47.3	36.6
With children under 18 years of age .....	811	79.2	20.8	10.8	886	78.1	21.9	11.9
Relatives in families maintained by men .....	1,318	18.1	81.9	74.3	1,512	17.2	82.8	76.2
<b>White</b>								
Total employed in families <sup>1</sup> .....	78,185	23.0	77.0	65.3	80,355	22.0	78.0	66.4
Husbands .....	34,152	32.2	67.8	49.0	34,723	30.2	69.8	50.9
With children under 18 years of age .....	19,672	34.6	65.4	42.8	20,023	31.9	68.1	45.3
Wives .....	23,180	9.1	90.9	86.2	24,364	8.5	91.5	86.8
With children under 18 years of age .....	12,323	5.0	95.0	91.0	13,147	4.6	95.4	91.4
Relatives in married-couple families .....	10,912	6.0	94.0	90.1	11,057	6.1	93.9	90.0
Women who maintain families .....	4,159	59.9	40.1	25.7	4,225	60.7	39.3	24.6
With children under 18 years of age .....	2,704	76.2	23.8	10.4	2,753	77.4	22.6	9.8
Relatives in families maintained by women .....	3,333	24.2	75.8	64.4	3,259	26.2	73.8	63.5
Men who maintain families .....	1,408	54.2	45.8	33.9	1,562	52.7	47.3	36.2
With children under 18 years of age .....	661	77.1	22.9	11.5	710	77.6	22.4	10.8
Relatives in families maintained by men .....	1,041	17.9	82.1	75.1	1,165	16.8	83.2	76.4
<b>Black</b>								
Total employed in families <sup>1</sup> .....	8,513	29.3	70.7	61.9	8,710	29.2	70.8	62.1
Husbands .....	2,508	24.9	75.1	63.2	2,538	24.2	75.8	63.8
With children under 18 years of age .....	1,640	24.4	75.6	63.9	1,642	23.8	76.2	64.1
Wives .....	2,014	14.8	85.2	79.6	2,045	12.9	87.1	81.2
With children under 18 years of age .....	1,255	10.2	89.8	85.3	1,273	9.4	90.6	85.0
Relatives in married-couple families .....	985	8.2	91.8	86.8	928	7.7	92.3	87.0
Women who maintain families .....	1,455	69.8	30.2	20.4	1,558	70.8	29.2	20.7
With children under 18 years of age .....	1,018	82.3	17.7	9.5	1,076	82.2	17.8	10.9
Relatives in families maintained by women .....	1,061	24.7	75.3	65.3	1,027	24.9	75.1	65.1
Men who maintain families .....	276	62.9	37.1	29.4	339	54.1	45.9	36.9
With children under 18 years of age .....	124	89.2	10.8	6.5	144	81.2	18.8	17.1
Relatives in families maintained by men .....	214	19.1	80.9	71.7	276	20.4	79.6	73.9
<b>Hispanic origin</b>								
Total employed in families <sup>1</sup> .....	5,822	27.0	73.0	63.9	6,220	25.7	74.3	64.8
Husbands .....	2,350	39.6	60.4	48.0	2,455	35.8	64.2	50.5
With children under 18 years of age .....	1,696	43.1	56.9	44.1	1,813	38.0	62.0	47.1
Wives .....	1,403	10.5	89.5	83.7	1,576	8.6	91.4	85.7
With children under 18 years of age .....	934	8.8	91.2	85.0	1,085	7.0	93.0	87.0
Relatives in married-couple families .....	874	5.8	94.2	88.3	966	6.3	93.7	88.2
Women who maintain families .....	396	61.5	38.5	29.3	458	65.9	34.1	23.5
With children under 18 years of age .....	278	75.6	24.4	15.9	315	77.8	22.2	12.7
Relatives in families maintained by women .....	404	23.9	76.1	67.8	388	26.9	73.1	60.6
Men who maintain families .....	196	39.5	60.5	49.9	203	47.5	52.5	48.1
With children under 18 years of age .....	69	71.5	28.5	23.0	71	76.6	23.4	18.8
Relatives in families maintained by men .....	199	12.9	87.1	79.0	175	9.3	90.7	84.6

<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 (in thousands)		Median weekly earnings	
	II 1986	II 1987	II 1986	II 1987
<b>TOTAL</b>				
Total families with earners <sup>1</sup> .....	41,917	42,634	\$537	\$572
Married-couple families .....	33,381	33,742	603	639
One earner .....	13,081	12,574	393	405
Husband .....	10,044	9,649	455	476
Wife .....	2,355	2,250	226	223
Other family member .....	682	675	206	216
Two or more earners .....	20,300	21,167	740	767
Husband and wife .....	17,424	18,452	754	779
Husband and other family member(s) .....	2,161	1,987	721	752
Wife and other family member(s) .....	508	556	492	531
Other family members only .....	207	173	449	433
Families maintained by women .....	6,715	6,832	305	313
One earner .....	4,640	4,744	241	256
Householder .....	3,623	3,753	251	267
Other family member .....	1,017	991	200	209
Two or more earners .....	2,076	2,089	501	511
Families maintained by men .....	1,820	2,060	408	467
One earner .....	1,214	1,261	334	346
Two or more earners .....	607	799	646	655
<b>White</b>				
Total families with earners <sup>1</sup> .....	35,988	36,486	558	593
Married-couple families .....	29,646	30,082	609	648
One earner .....	11,780	11,357	403	415
Husband .....	9,197	8,836	466	484
Wife .....	1,990	1,930	229	227
Two or more earners .....	17,866	18,725	747	775
Husband and wife .....	15,314	16,305	761	787
Families maintained by women .....	4,895	4,836	320	326
Families maintained by men .....	1,447	1,568	438	474
<b>Black</b>				
Total families with earners <sup>1</sup> .....	4,727	4,922	399	411
Married-couple families .....	2,782	2,719	523	536
One earner .....	919	906	286	295
Husband .....	576	596	329	338
Wife .....	283	251	222	191
Two or more earners .....	1,863	1,813	673	673
Husband and wife .....	1,618	1,600	689	687
Families maintained by women .....	1,660	1,802	260	273
Families maintained by men .....	285	401	310	428
<b>Hispanic origin</b>				
Total families with earners <sup>1</sup> .....	3,013	3,192	409	425
Married-couple families .....	2,270	2,424	450	473
One earner .....	1,067	983	294	295
Husband .....	894	806	314	311
Wife .....	112	106	191	206
Two or more earners .....	1,204	1,440	611	605
Husband and wife .....	991	1,180	625	616
Families maintained by women .....	525	568	264	295
Families maintained by men .....	218	201	376	391

<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 (in thousands)		Median weekly earnings	
	II 1986	II 1987	II 1986	II 1987
Married-couple families <sup>1</sup> .....	3,062	2,663	\$409	\$436
Husband unemployed .....	954	861	240	258
Wife only earner .....	730	648	222	232
Wife and other earner(s) .....	135	145	388	505
Other earner(s) only .....	89	68	( <sup>2</sup> )	( <sup>2</sup> )
Wife unemployed .....	970	771	402	419
Husband only earner .....	817	640	383	389
Husband and other earner(s) .....	127	117	617	692
Other earner(s) only .....	27	14	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	1,138	1,032	652	684
Husband or wife earner .....	486	415	499	518
Both husband and wife earners .....	619	590	746	813
Other combinations of earners .....	33	27	( <sup>2</sup> )	( <sup>2</sup> )
Families maintained by women <sup>1</sup> .....	678	623	285	279
Householder unemployed .....	72	78	( <sup>2</sup> )	( <sup>2</sup> )
Other member(s) unemployed .....	606	545	301	286
Families maintained by men <sup>1</sup> .....	205	212	367	357

<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.



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED  
QUARTERLY DATA**

**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 1986	II 1987	II 1986	II 1987
<b>SEX AND AGE</b>				
Total, 16 years and over .....	78,508	80,662	\$358	\$371
Men, 16 years and over .....	46,295	47,103	416	427
16 to 24 years .....	6,884	6,752	246	256
25 years and over .....	39,412	40,351	456	471
Women, 16 years and over .....	32,213	33,579	290	302
16 to 24 years .....	5,487	5,474	216	227
25 years and over .....	26,726	28,105	309	321
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	30,462	30,871	472	484
Wives .....	16,558	17,608	301	311
Women who maintain families .....	4,449	4,627	291	301
Men who maintain families .....	1,362	1,643	388	394
Other persons in families:				
Men .....	6,175	6,158	244	258
Women .....	4,349	4,283	222	239
All other men <sup>1</sup> .....	8,286	8,424	390	399
All other women <sup>1</sup> .....	6,866	7,068	313	329
<b>RACE AND HISPANIC ORIGIN</b>				
White .....	67,675	69,380	368	381
Men .....	40,603	41,242	427	442
Women .....	27,072	28,138	293	306
Black .....	8,656	8,842	294	301
Men .....	4,483	4,563	322	324
Women .....	4,173	4,278	267	273
Hispanic origin .....	5,600	6,095	278	288
Men .....	3,605	3,899	303	303
Women .....	1,995	2,195	243	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 1986	II 1987	II 1986	II 1987
<b>SEX AND AGE</b>				
Total, 16 years and over .....	18,325	18,466	\$99	\$100
Men, 16 years and over .....	5,769	5,796	92	92
16 to 24 years .....	3,382	3,328	77	77
25 years and over .....	2,386	2,468	120	120
Women, 16 years and over .....	12,557	12,669	102	103
16 to 24 years .....	4,006	4,041	76	73
25 years and over .....	8,550	8,628	116	119
<b>FAMILY RELATIONSHIP</b>				
Husbands .....	1,435	1,473	123	125
Wives .....	6,489	6,617	119	121
Women who maintain families .....	1,040	1,027	111	115
Men who maintain families .....	151	128	120	113
Other persons in families:				
Men .....	3,222	3,283	76	77
Women .....	3,437	3,541	72	69
All other men <sup>1</sup> .....	961	912	110	113
All other women <sup>1</sup> .....	1,589	1,484	99	106
<b>RACE AND HISPANIC ORIGIN</b>				
White .....	16,054	16,082	100	101
Men .....	4,863	4,891	93	92
Women .....	11,191	11,191	103	105
Black .....	1,758	1,857	92	92
Men .....	685	715	87	92
Women .....	1,073	1,142	95	91
Hispanic origin .....	1,073	1,085	106	96
Men .....	460	383	115	94
Women .....	613	702	100	97

<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-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 1986	II 1987	II 1986	II 1987
<b>TOTAL</b>				
Managerial and professional specialty .....	19,973	20,503	\$504	\$516
Executive, administrative, and managerial .....	9,736	9,978	515	522
Professional specialty .....	10,237	10,526	496	512
Technical, sales, and administrative support .....	24,262	24,517	317	329
Technicians and related support .....	2,686	2,697	413	431
Sales occupations .....	7,541	7,455	355	382
Administrative support, including clerical .....	14,036	14,365	296	305
Service occupations .....	7,877	8,442	225	234
Private household .....	334	368	121	121
Protective service .....	1,572	1,708	386	403
Service, except private household and protective .....	5,972	6,367	211	217
Precision production, craft, and repair .....	10,805	10,993	409	418
Mechanics and repairers .....	3,815	3,866	418	428
Construction trades .....	3,487	3,615	395	410
Other precision production, craft, and repair .....	3,503	3,512	412	416
Operators, fabricators, and laborers .....	14,189	14,693	305	312
Machine operators, assemblers, and inspectors .....	7,170	7,311	298	299
Transportation and material moving occupations .....	3,673	3,870	365	381
Handlers, equipment cleaners, helpers, and laborers .....	3,346	3,512	265	281
Farming, forestry, and fishing .....	1,402	1,533	217	212
<b>Men</b>				
Managerial and professional specialty .....	11,281	11,225	605	632
Executive, administrative, and managerial .....	5,983	5,983	614	638
Professional specialty .....	5,298	5,242	596	626
Technical, sales, and administrative support .....	9,089	9,099	423	445
Technicians and related support .....	1,553	1,478	484	495
Sales occupations .....	4,523	4,546	425	479
Administrative support, including clerical .....	3,012	3,075	393	388
Service occupations .....	3,903	4,214	287	306
Private household .....	21	10	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,424	1,537	395	412
Service, except private household and protective .....	2,459	2,667	242	256
Precision production, craft, and repair .....	9,945	10,130	418	430
Mechanics and repairers .....	3,664	3,727	417	425
Construction trades .....	3,423	3,568	396	412
Other precision production, craft, and repair .....	2,859	2,835	449	462
Operators, fabricators, and laborers .....	10,815	11,057	336	347
Machine operators, assemblers, and inspectors .....	4,449	4,433	358	360
Transportation and material moving occupations .....	3,483	3,654	370	389
Handlers, equipment cleaners, helpers, and laborers .....	2,883	2,970	272	293
Farming, forestry, and fishing .....	1,262	1,379	220	212
<b>Women</b>				
Managerial and professional specialty .....	8,692	9,278	415	435
Executive, administrative, and managerial .....	3,753	3,995	401	416
Professional specialty .....	4,939	5,283	424	449
Technical, sales, and administrative support .....	15,174	15,418	281	293
Technicians and related support .....	1,133	1,219	340	370
Sales occupations .....	3,018	2,909	244	252
Administrative support, including clerical .....	11,023	11,290	281	292
Service occupations .....	3,974	4,228	192	197
Private household .....	314	357	118	118
Protective service .....	147	171	285	288
Service, except private household and protective .....	3,513	3,700	196	201
Precision production, craft, and repair .....	860	864	284	294
Mechanics and repairers .....	151	140	438	483
Construction trades .....	65	46	( <sup>1</sup> )	( <sup>1</sup> )
Other precision production, craft, and repair .....	645	678	265	279
Operators, fabricators, and laborers .....	3,373	3,636	231	235
Machine operators, assemblers, and inspectors .....	2,720	2,878	229	228
Transportation and material moving occupations .....	190	217	294	283
Handlers, equipment cleaners, helpers, and laborers .....	463	542	222	246
Farming, forestry, and fishing .....	140	154	192	215

<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	2nd Quarter 1987							
	Metropolitan areas			Nonmetropolitan areas			Urban areas	Rural areas
	Total	Central cities	Suburbs	Total	Farm	Nonfarm		
<b>TOTAL</b>								
Civilian noninstitutional population .....	142,030	56,863	85,167	40,497	3,037	37,460	134,316	48,211
Civilian labor force .....	94,546	36,554	57,992	25,186	2,127	23,059	88,673	31,059
Percent of population .....	66.6	64.3	68.1	62.2	70.0	61.6	66.0	64.4
Employed .....	88,869	33,790	55,078	23,437	2,077	21,359	83,120	29,185
Unemployed .....	5,677	2,764	2,913	1,749	50	1,699	5,553	1,874
Unemployment rate .....	6.0	7.6	5.0	6.9	2.3	7.4	6.3	6.0
Not in labor force .....	47,484	20,308	27,175	15,311	910	14,401	45,643	17,152
<b>Men, 20 years and over</b>								
Civilian noninstitutional population .....	61,801	24,377	37,424	17,653	1,446	16,207	57,790	21,664
Civilian labor force .....	48,897	18,722	30,176	13,201	1,228	11,973	45,355	16,743
Percent of population .....	79.1	76.8	80.6	74.8	84.9	73.9	78.5	77.3
Employed .....	46,299	17,409	28,889	12,419	1,211	11,207	42,848	15,869
Unemployed .....	2,599	1,313	1,286	782	17	765	2,507	874
Unemployment rate .....	5.3	7.0	4.3	5.9	1.4	6.4	5.5	5.2
Not in labor force .....	12,904	5,656	7,248	4,452	218	4,234	12,435	4,921
<b>Women, 20 years and over</b>								
Civilian noninstitutional population ..	68,904	28,233	40,671	19,576	1,327	18,249	65,945	22,535
Civilian labor force .....	39,317	15,664	23,653	10,213	736	9,477	37,419	12,110
Percent of population .....	57.1	55.5	58.2	52.2	55.5	51.9	56.7	53.7
Employed .....	37,322	14,693	22,629	9,607	718	8,889	35,444	11,485
Unemployed .....	1,995	971	1,024	606	18	588	1,976	625
Unemployment rate .....	5.1	6.2	4.3	5.9	2.5	6.2	5.3	5.2
Not in labor force .....	29,587	12,569	17,018	9,363	591	8,772	28,526	10,424
<b>Both sexes, 16 to 19 years</b>								
Civilian noninstitutional population ..	11,325	4,253	7,072	3,268	263	3,005	10,580	4,013
Civilian labor force .....	6,332	2,169	4,163	1,772	163	1,609	5,898	2,205
Percent of population .....	55.9	51.0	58.9	54.2	61.9	53.5	55.8	55.0
Employed .....	5,248	1,688	3,560	1,411	148	1,263	4,829	1,831
Unemployed .....	1,084	481	603	361	15	346	1,070	375
Unemployment rate .....	17.1	22.2	14.5	20.4	9.2	21.5	18.1	17.0
Not in labor force .....	4,993	2,084	2,909	1,496	100	1,396	4,682	1,807
<b>White</b>								
Civilian noninstitutional population ..	120,629	42,573	78,056	36,176	2,921	33,256	112,277	44,529
Civilian labor force .....	80,634	27,663	52,970	22,649	2,045	20,604	74,455	28,828
Percent of population .....	66.8	65.0	67.9	62.6	70.0	62.0	66.3	64.7
Employed .....	76,564	26,071	50,493	21,253	2,002	19,251	70,587	27,229
Unemployed .....	4,070	1,593	2,477	1,397	44	1,353	3,867	1,599
Unemployment rate .....	5.0	5.8	4.7	6.2	2.1	6.6	5.2	5.5
Not in labor force .....	39,996	14,910	25,086	13,527	875	12,652	37,822	15,701
<b>Black</b>								
Civilian noninstitutional population ..	16,744	11,860	4,884	3,566	101	3,466	17,373	2,938
Civilian labor force .....	10,787	7,323	3,464	2,091	68	2,022	11,108	1,770
Percent of population .....	64.4	61.7	70.9	58.6	67.6	58.4	63.9	60.2
Employed .....	9,363	6,257	3,106	1,800	62	1,737	9,606	1,557
Unemployed .....	1,424	1,066	358	291	6	285	1,501	213
Unemployment rate .....	13.2	14.6	10.3	13.9	8.3	14.1	13.5	12.1
Not in labor force .....	5,957	4,538	1,419	1,476	33	1,443	6,265	1,168
<b>Hispanic origin</b>								
Civilian noninstitutional population ..	11,898	6,922	4,976	911	64	847	11,829	980
Civilian labor force .....	7,878	4,431	3,447	618	50	568	7,828	668
Percent of population .....	66.2	64.0	69.3	67.8	79.0	67.0	66.2	68.2
Employed .....	7,226	4,029	3,197	545	47	498	7,172	600
Unemployed .....	652	402	250	73	3	70	656	68
Unemployment rate .....	8.3	9.1	7.2	11.8	( <sup>1</sup> )	12.3	8.4	10.2
Not in labor force .....	4,020	2,491	1,529	293	13	279	4,001	312

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

NOTE: Data 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	2nd Quarter 1987					
	Total United States		Metropolitan areas		Nonmetropolitan areas	
	Poverty areas	Nonpoverty areas	Poverty areas	Nonpoverty areas	Poverty areas	Nonpoverty areas
<b>TOTAL</b>						
Civilian noninstitutional population .....	27,687	154,840	18,477	123,553	9,209	31,288
Civilian labor force .....	15,656	104,076	10,332	84,214	5,324	19,862
Percent of population .....	56.5	67.2	55.9	68.2	57.8	63.5
Employed .....	13,867	98,439	9,050	79,819	4,817	18,620
Unemployed .....	1,789	5,637	1,282	4,395	507	1,242
Unemployment rate .....	11.4	5.4	12.4	5.2	9.5	6.3
Men, 20 years and over .....	10.3	4.7	11.3	4.6	8.4	5.2
Women, 20 years and over .....	9.8	4.6	10.7	4.4	7.9	5.4
Both sexes, 16 to 19 years .....	30.8	15.9	31.4	15.3	29.7	18.2
Men .....	30.4	16.8	31.3	16.6	28.4	17.3
Women .....	31.3	15.0	31.5	14.0	31.0	19.2
Not in labor force .....	12,031	50,764	8,145	39,338	3,885	11,426
<b>White</b>						
Civilian noninstitutional population .....	16,746	140,060	10,082	110,548	6,664	29,512
Civilian labor force .....	9,670	93,613	5,754	74,880	3,916	18,733
Percent of population .....	57.7	66.8	57.1	67.7	58.8	63.5
Employed .....	8,852	88,965	5,214	71,350	3,638	17,615
Unemployed .....	818	4,648	541	3,529	278	1,119
Unemployment rate .....	8.5	5.0	9.4	4.7	7.1	6.0
Men, 20 years and over .....	7.9	4.4	8.5	4.2	6.9	5.0
Women, 20 years and over .....	7.0	4.1	8.3	3.9	5.0	5.1
Both sexes, 16 to 19 years .....	22.2	14.5	22.4	13.6	21.9	17.8
Men .....	23.5	15.2	25.0	14.8	20.7	16.8
Women .....	20.7	13.7	19.0	12.4	23.1	18.9
Not in labor force .....	7,076	46,447	4,327	35,668	2,748	10,779
<b>Black</b>						
Civilian noninstitutional population .....	9,907	10,403	7,713	9,031	2,194	1,372
Civilian labor force .....	5,410	7,468	4,202	6,586	1,208	882
Percent of population .....	54.6	71.8	54.5	72.9	55.1	64.3
Employed .....	4,507	6,656	3,492	5,871	1,015	784
Unemployed .....	903	812	709	714	193	98
Unemployment rate .....	16.7	10.9	16.9	10.8	16.0	11.1
Men, 20 years and over .....	15.2	9.2	16.2	9.3	11.9	8.9
Women, 20 years and over .....	14.0	9.2	13.7	9.0	15.2	10.9
Both sexes, 16 to 19 years .....	45.0	33.3	43.6	34.3	49.9	26.3
Men .....	43.0	32.9	41.4	34.1	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	46.8	33.8	45.6	34.6	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	4,497	2,936	3,511	2,446	986	490
<b>Hispanic origin</b>						
Civilian noninstitutional population .....	4,516	8,293	4,132	7,766	384	527
Civilian labor force .....	2,659	5,837	2,419	5,459	240	378
Percent of population .....	58.9	70.4	58.6	70.3	62.4	71.8
Employed .....	2,370	5,401	2,168	5,058	203	343
Unemployed .....	289	436	252	400	37	36
Unemployment rate .....	10.9	7.5	10.4	7.3	15.4	9.4
Men, 20 years and over .....	9.6	6.6	9.0	6.5	15.4	8.6
Women, 20 years and over .....	10.3	6.5	10.0	6.4	12.7	7.8
Both sexes, 16 to 19 years .....	21.3	20.4	21.2	20.1	( <sup>1</sup> )	( <sup>1</sup> )
Men .....	20.9	24.5	20.7	24.6	( <sup>1</sup> )	( <sup>1</sup> )
Women .....	21.9	15.9	22.1	14.9	( <sup>1</sup> )	( <sup>1</sup> )
Not in labor force .....	1,857	2,456	1,713	2,308	144	148

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

NOTE: Data 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  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonagricultural payrolls by major industry, 1935 to date**

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1935	27,039	23,558	10,893	897	927	9,069	16,146	2,786	( <sup>1</sup> )	( <sup>1</sup> )	1,320	3,128	753	( <sup>1</sup> )	( <sup>1</sup> )
1936	29,068	25,400	11,933	946	1,160	9,827	17,135	2,973	( <sup>1</sup> )	( <sup>1</sup> )	1,373	3,312	826	( <sup>1</sup> )	( <sup>1</sup> )
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	( <sup>1</sup> )	( <sup>1</sup> )	1,417	3,503	833	( <sup>1</sup> )	( <sup>1</sup> )
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	( <sup>1</sup> )	( <sup>1</sup> )	1,410	3,458	829	( <sup>1</sup> )	( <sup>1</sup> )
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	( <sup>1</sup> )	( <sup>1</sup> )	1,447	3,502	905	( <sup>1</sup> )	( <sup>1</sup> )
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	( <sup>1</sup> )	( <sup>1</sup> )	1,485	3,665	996	( <sup>1</sup> )	( <sup>1</sup> )
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	( <sup>1</sup> )	( <sup>1</sup> )
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,906	5,212	1,509	4,066	2,213	( <sup>1</sup> )	( <sup>1</sup> )
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	( <sup>1</sup> )	( <sup>1</sup> )
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	( <sup>1</sup> )	( <sup>1</sup> )
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	( <sup>1</sup> )	( <sup>1</sup> )
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	( <sup>1</sup> )	( <sup>1</sup> )
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	( <sup>1</sup> )	( <sup>1</sup> )
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,605	6,667	1,800	5,181	1,863	( <sup>1</sup> )	( <sup>1</sup> )
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	( <sup>1</sup> )	( <sup>1</sup> )
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,635	6,751	1,888	5,357	1,928	( <sup>1</sup> )	( <sup>1</sup> )
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,727	7,015	1,956	5,547	2,302	( <sup>1</sup> )	( <sup>1</sup> )
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,699	2,420	( <sup>1</sup> )	( <sup>1</sup> )
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	( <sup>1</sup> )	( <sup>1</sup> )
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	( <sup>1</sup> )	( <sup>1</sup> )
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,298	6,240	2,187	( <sup>1</sup> )	( <sup>1</sup> )
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,389	6,497	2,209	( <sup>1</sup> )	( <sup>1</sup> )
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,980	7,770	2,481	6,765	2,191	1,415	4,232
1959 <sup>2</sup>	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,597	9,648	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,680	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,610	82,900	24,681	783	4,904	18,994	74,930	5,244	5,735	17,845	6,297	23,099	2,899	3,888	9,923
Monthly data, seasonally adjusted															
1986:															
June	99,323	82,670	24,628	769	4,900	18,959	74,695	5,142	5,712	17,821	6,287	23,080	2,878	3,882	9,893
July	99,601	82,991	24,628	764	4,924	18,940	74,973	5,237	5,735	17,866	6,323	23,202	2,872	3,881	9,857
August	99,772	83,125	24,639	748	4,946	18,945	75,133	5,202	5,736	17,913	6,351	23,284	2,882	3,881	9,884
September	100,039	83,241	24,620	739	4,948	18,933	75,419	5,255	5,736	17,939	6,374	23,317	2,902	3,890	10,006
October	100,209	83,337	24,611	735	4,942	18,934	75,598	5,251	5,731	17,980	6,395	23,369	2,897	3,907	10,068
November	100,415	83,515	24,630	730	4,946	18,954	75,785	5,278	5,728	18,009	6,418	23,452	2,900	3,915	10,085
December	100,567	83,643	24,630	724	4,936	18,970	75,937	5,286	5,725	18,007	6,451	23,544	2,904	3,927	10,093
1987:															
January	100,919	83,983	24,708	718	5,034	18,956	76,211	5,304	5,741	18,080	6,480	23,670	2,912	3,929	10,095
February	101,150	84,215	24,743	719	5,038	18,986	76,407	5,315	5,757	18,140	6,501	23,759	2,916	3,927	10,092
March	101,329	84,352	24,749	722	5,032	18,995	76,580	5,333	5,766	18,136	6,526	23,842	2,922	3,930	10,125
April	101,598	84,560	24,759	729	5,019	19,011	76,83								

**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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Total .....</b>		99,815	100,183	101,381	102,103	102,670					
<b>Total private .....</b>		82,834	83,467	84,030	84,758	85,566	67,012	67,573	67,918	68,585	69,288
<b>Mining .....</b>		781	772	722	731	735	542	536	511	520	523
Metal mining .....	10	42.0	41.6	42.5	43.1		31.2	30.9	32.0	32.5	
Iron ores .....	101	9.2	9.1	9.2	9.4		7.1	7.0	7.0	7.2	
Copper ores .....	102	10.9	10.9	12.4	12.3		8.4	8.3	9.9	9.9	
Coal mining .....	11,12	177.8	176.7	161.2	162.1		145.4	144.2	131.6	131.9	
Bituminous coal and lignite mining .....	12	175.2	174.1	158.8	159.8		143.3	142.1	129.6	129.9	
Oil and gas extraction .....	13	448.4	440.0	409.0	412.0	415.3	279.0	273.4	263.0	267.6	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	226.7	225.9	203.5	202.6		106.0	106.5	100.2	99.6	
Oil and gas field services .....	138	221.7	214.1	205.5	209.4		173.0	166.9	162.8	168.0	
Nonmetallic minerals, except fuels .....	14	112.3	113.6	109.7	113.8		86.2	87.4	84.6	88.1	
Crushed and broken stone .....	142	40.1	40.7	40.1	41.4		32.5	33.0	32.4	33.3	
Sand and gravel .....	144	34.7	35.5	32.8	34.9		-	-	-	-	
Chemical and fertilizer minerals ..	147	18.3	17.8	17.8	18.0						
<b>Construction .....</b>		4,950	5,098	4,843	5,040	5,208	3,897	4,031	3,750	3,932	4,079
General building contractors .....	15	1,302.4	1,340.3	1,224.0	1,267.0	1,311.4	966.4	999.3	881.7	920.7	
Residential building construction .....	152	666.0	689.2	637.6	662.6		483.9	504.9	446.1	467.2	
Operative builders .....	153	58.1	60.0	53.8	55.0		31.2	32.6	27.1	28.3	
Nonresidential building construction ..	154	578.3	591.1	532.6	549.4		451.3	461.8	408.5	425.2	
Heavy construction contractors .....	16	813.7	832.8	752.6	814.5		681.3	700.3	627.0	686.2	
Highway and street construction .....	161	292.8	310.4	273.4	316.1		248.3	265.4	226.4	267.5	
Heavy construction, except highway .....	162	520.9	522.4	479.2	498.4		433.0	434.9	400.6	418.7	
Special trade contractors .....	17	2,833.4	2,924.7	2,866.2	2,958.0		2,249.3	2,331.2	2,241.7	2,324.8	
Plumbing, heating, and air conditioning .....	171	611.1	630.0	629.4	645.5		449.3	466.5	460.7	476.0	
Painting, paper hanging, and decorating .....	172	163.1	172.2	162.7	171.6		136.0	144.1	135.1	143.9	
Electrical work .....	173	509.7	523.1	523.0	526.6		394.6	405.6	400.7	404.1	
Masonry, stonework, and plastering .....	174	456.1	476.4	470.3	490.8		391.9	409.9	398.5	416.9	
Carpentering and flooring .....	175	174.2	180.6	177.3	174.3		133.8	140.2	136.3	134.4	
Roofing and sheet metal work .....	176	205.9	211.6	203.6	207.2		166.7	171.8	161.2	164.0	
<b>Manufacturing .....</b>		18,981	19,081	18,926	18,991	19,151	12,885	12,956	12,874	12,933	13,078
<b>Durable goods .....</b>		11,286	11,294	11,155	11,187	11,258	7,472	7,465	7,396	7,429	7,496
Lumber and wood products .....	24	705.5	725.3	722.5	738.0	754.7	593.2	611.2	603.4	617.4	632.2
Logging camps and logging contractors .....	241	77.3	84.3	73.2	78.5		65.0	71.2	60.2	65.2	
Sawmills and planing mills .....	242	193.6	196.7	197.9	201.3		171.6	174.6	174.4	177.5	
Sawmills and planing mills, general .....	2421	158.6	161.3	160.4	163.5		140.9	143.5	141.4	144.2	
Hardwood dimension and flooring .....	2426	32.2	32.5	34.5	34.8		28.3	28.6	30.3	30.6	
Millwork, plywood, and structural members ..	243	243.8	251.7	259.1	263.9		202.2	209.4	214.3	218.6	
Millwork .....	2431	92.6	96.8	99.9	102.4		74.9	78.9	81.1	83.4	
Wood kitchen cabinets .....	2434	64.8	66.4	70.6	71.7		52.6	53.9	56.8	57.8	
Hardwood veneer and plywood ..	2435	23.5	23.6	24.3	24.4		20.6	20.7	21.4	21.4	
Softwood veneer and plywood ..	2436	37.1	37.7	38.6	38.7		34.0	34.6	35.1	35.2	
Wood containers .....	244	41.5	42.1	40.8	41.3		35.2	35.8	34.5	35.1	
Wood buildings and mobile homes .....	245	71.3	72.1	71.2	72.7		54.4	55.2	53.9	55.0	
Mobile homes .....	2451	49.3	49.5	48.2	49.0		39.4	39.8	38.9	39.5	
Miscellaneous wood products .....	249	78.0	78.4	80.3	80.3		64.8	65.0	66.1	66.0	

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 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	493.6	496.0	504.6	506.5	508.8	394.0	396.3	404.2	405.2	406.8
Household furniture .....	251	293.4	292.7	303.6	303.2	-	246.5	245.7	256.5	256.4	-
Wood household furniture .....	2511	130.9	130.9	134.9	134.3	-	114.1	113.9	118.2	117.6	-
Upholstered household furniture .....	2512	91.4	92.4	96.9	97.3	-	75.6	76.5	80.8	81.3	-
Metal household furniture .....	2514	27.6	26.1	28.5	27.8	-	22.5	21.1	23.5	23.1	-
Mattresses and bedspings .....	2515	29.7	29.7	30.2	30.4	-	22.7	22.8	22.9	23.1	-
Office furniture .....	252	64.9	66.3	65.8	66.0	-	49.8	51.0	50.1	50.3	-
Public building and related furniture .....	253	26.4	26.9	28.1	28.3	-	20.0	20.5	21.5	21.6	-
Partitions and fixtures .....	254	71.1	72.1	71.3	72.5	-	51.8	52.8	51.1	51.5	-
Miscellaneous furniture and fixtures .....	259	37.8	38.0	35.8	36.5	-	25.9	26.3	25.0	25.4	-
Stone, clay, and glass products .....	32	593.7	600.6	581.3	590.5	597.0	457.9	464.2	449.2	458.4	463.9
Flat glass .....	321	15.3	15.5	15.2	15.1	-	12.0	12.2	11.9	11.8	-
Glass and glassware, pressed or blown .....	322	89.9	91.3	87.7	89.1	-	76.6	77.9	74.8	76.4	-
Glass containers .....	3221	45.8	46.4	44.0	44.9	-	41.1	41.8	39.5	40.3	-
Pressed and blown glass, nec .....	3229	44.1	44.9	43.7	44.2	-	35.5	36.1	35.3	36.1	-
Products of purchased glass .....	323	49.9	50.6	50.7	50.9	-	34.9	35.5	35.6	35.8	-
Cement, hydraulic .....	324	22.8	23.1	21.7	21.8	-	17.7	18.1	16.8	16.8	-
Structural clay products .....	325	37.7	38.1	37.9	38.2	-	29.3	29.8	29.8	30.0	-
Pottery and related products .....	326	36.8	36.7	36.0	36.1	-	29.0	28.9	28.8	28.8	-
Concrete, gypsum, and plaster products .....	327	214.5	218.3	209.2	215.9	-	167.7	170.9	162.4	168.9	-
Concrete block and brick .....	3271	19.3	19.7	20.1	20.8	-	13.0	13.2	13.6	14.2	-
Concrete products, nec .....	3272	71.4	72.0	68.6	69.6	-	55.0	55.4	52.1	53.1	-
Ready-mixed concrete .....	3273	104.0	106.5	101.0	106.0	-	84.4	86.7	81.8	86.6	-
Misc. nonmetallic mineral products .....	329	114.2	114.4	109.5	109.9	-	80.9	81.1	78.7	79.3	-
Abrasive products .....	3291	20.7	20.9	20.5	20.3	-	13.7	13.9	13.8	13.9	-
Asbestos products .....	3292	9.3	9.2	9.2	9.2	-	7.0	7.0	7.0	7.1	-
Mineral wool .....	3296	27.6	27.9	24.5	24.5	-	-	-	-	-	-
Primary metal industries .....	33	770.8	754.2	747.9	748.4	751.8	584.5	568.6	562.6	562.0	565.3
Blast furnaces and basic steel products .....	331	284.5	283.1	273.5	274.9	276.1	219.5	218.0	206.4	206.9	207.7
Blast furnaces and steel mills .....	3312	216.8	215.6	207.5	208.6	-	169.6	168.2	157.7	158.0	-
Steel pipe and tubes .....	3317	23.8	23.4	22.7	23.0	-	17.3	16.9	16.5	16.8	-
Iron and steel foundries .....	332	133.6	132.7	130.2	130.2	-	105.0	104.3	102.6	102.8	-
Gray iron foundries .....	3321	83.8	83.1	81.6	81.4	-	68.5	67.8	66.3	66.2	-
Malleable iron foundries .....	3322	9.2	9.2	8.5	8.4	-	6.5	6.5	6.2	6.2	-
Steel foundries, nec .....	3325	27.6	27.4	26.2	26.4	-	20.3	20.2	19.5	19.7	-
Primary nonferrous metals .....	333	41.1	36.0	39.6	40.3	-	29.1	24.3	27.8	28.3	-
Primary aluminum .....	3334	22.6	17.8	22.1	22.5	-	16.5	11.9	15.4	15.8	-
Nonferrous rolling and drawing .....	335	182.4	173.8	177.1	176.2	-	129.8	121.6	126.5	125.4	-
Copper rolling and drawing .....	3351	23.0	23.1	22.9	22.7	-	17.7	17.9	17.9	17.7	-
Aluminum sheet, plate, and foil .....	3353	29.6	24.2	27.7	27.6	-	21.7	16.7	20.4	20.3	-
Nonferrous wire drawing and insulating .....	3357	77.5	75.3	74.8	74.0	-	54.9	52.4	52.5	51.7	-
Nonferrous foundries .....	336	86.9	86.2	86.1	85.6	-	69.7	69.0	69.1	68.5	-
Aluminum foundries .....	3361	53.4	52.9	53.1	52.7	-	43.5	43.0	43.3	42.8	-
Fabricated metal products .....	34	1,437.8	1,438.8	1,418.3	1,419.5	1,431.0	1,063.2	1,064.1	1,049.5	1,051.0	1,063.0
Metal cans and shipping containers .....	341	58.3	59.0	56.5	56.9	-	50.0	50.5	48.4	48.8	-
Metal cans .....	3411	47.0	47.6	45.5	45.7	-	41.2	41.7	39.7	39.8	-
Cutlery, hand tools, and hardware .....	342	137.2	137.0	133.4	132.6	-	101.0	100.9	98.3	97.7	-
Hand and edge tools, and hand saws and blades .....	3423.5	45.7	45.5	46.8	46.9	-	33.4	33.2	34.2	34.4	-
Hardware, nec .....	3429	79.2	79.2	75.6	74.8	-	59.3	59.3	56.8	56.0	-
Plumbing and heating, except electric .....	343	60.7	60.6	60.5	60.7	-	43.1	43.1	43.0	43.1	-
Plumbing fittings and brass goods .....	3432	24.4	24.1	24.5	24.6	-	17.8	17.6	17.8	17.8	-
Heating equipment, except electric .....	3433	25.5	25.9	25.4	25.5	-	17.1	17.5	17.1	17.2	-
Fabricated structural metal products .....	344	438.1	441.5	429.6	432.4	-	308.2	311.3	301.6	304.2	-
Fabricated structural metal .....	3441	79.5	79.6	75.9	76.2	-	56.3	56.6	53.6	54.0	-
Metal doors, sash, and trim .....	3442	92.4	94.7	92.0	94.5	-	69.0	71.2	67.7	70.0	-
Fabricated plate work (boiler shops) .....	3443	95.9	96.2	91.9	91.2	-	60.0	59.9	57.4	56.9	-
Sheet metal work .....	3444	108.4	108.5	108.7	108.9	-	80.1	80.4	80.7	80.7	-
Architectural metal work .....	3446	29.0	29.4	28.9	28.5	-	21.3	21.5	21.0	20.7	-

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
<b>Fabricated metal products—Continued</b>											
Screw machine products, bolts, etc .....	345	93.2	93.0	94.3	94.5		71.2	70.7	72.1	72.2	
Screw machine products .....	3451	44.2	44.3	44.9	45.0		35.8	35.9	36.6	36.7	
Bolts, nuts, rivets, and washers .....	3452	49.0	48.7	49.4	49.5		35.4	34.8	35.5	35.5	
Metal forgings and stampings .....	346	246.0	245.1	239.8	238.0		197.3	196.4	191.7	190.1	
Iron and steel forgings .....	3462	32.4	32.3	30.9	30.7		24.9	24.7	23.8	23.6	
Automotive stampings .....	3465	105.9	105.3	102.0	100.7		90.4	89.8	87.0	85.9	
Metal stampings, nec .....	3469	96.7	96.5	96.3	96.0		73.9	73.8	73.2	72.8	
Metal services, nec .....	347	109.7	109.0	113.9	114.0		87.9	87.4	91.0	91.0	
Plating and polishing .....	3471	72.1	71.7	73.6	73.7		58.2	57.9	59.4	59.3	
Metal coating and allied services .....	3479	37.6	37.3	40.3	40.3		29.7	29.5	31.6	31.7	
Ordnance and accessories, nec .....	348	76.7	76.7	79.8	80.4		47.9	48.1	50.7	51.2	
Ammunition, except for small arms, nec .....	3483	43.7	43.9	46.7	46.9		26.7	27.0	28.5	28.4	
Misc. fabricated metal products .....	349	217.9	216.9	210.5	210.0		156.6	155.7	152.7	152.7	
Valves and pipe fittings .....	3494	81.2	80.2	76.2	76.1		53.7	52.7	50.9	51.2	
Misc. fabricated wire products .....	3496	52.2	52.2	51.3	51.2		39.3	39.4	39.0	38.9	
Machinery, except electrical .....	35	2,076.0	2,074.7	2,024.4	2,027.3	2,037.9	1,238.8	1,235.6	1,202.3	1,206.0	1,217.3
Engines and turbines .....	351	102.7	102.0	98.8	98.6		64.0	63.7	62.1	62.2	
Turbines and turbine generator sets .....	3511	33.3	33.3	30.1	30.0		17.9	17.9	15.9	16.0	
Internal combustion engines, nec .....	3519	69.4	68.7	68.7	68.6		46.1	45.8	46.2	46.2	
Farm and garden machinery .....	352	95.1	92.4	101.1	101.5		64.9	62.6	67.3	68.1	
Farm machinery and equipment .....	3523	70.0	69.4	72.8	73.4		45.1	45.0	45.4	46.3	
Construction and related machinery .....	353	229.5	227.1	215.2	215.7		140.0	138.6	126.2	127.3	
Construction machinery .....	3531	82.3	82.2	78.3	78.0		50.4	50.4	45.9	45.9	
Mining machinery .....	3532	20.0	19.7	19.5	19.7		12.5	12.3	11.7	11.9	
Oil field machinery .....	3533	48.5	46.3	40.3	41.0		29.0	27.6	22.9	23.7	
Conveyors and conveying equipment .....	3535	29.7	30.2	29.3	29.3		15.8	16.1	14.8	15.1	
Industrial trucks and tractors .....	3537	25.7	25.5	25.3	25.4		18.1	18.1	17.7	17.6	
Metalworking machinery .....	354	306.1	306.3	298.6	298.4		218.2	218.5	213.4	213.3	
Machine tools, metal cutting types .....	3541	50.5	50.3	45.9	45.3		31.7	31.7	28.7	28.3	
Machine tools, metal forming types .....	3542	19.6	19.7	19.1	19.0		11.9	12.1	11.9	11.8	
Special dies, tools, jigs, and fixtures .....	3544	142.0	142.5	142.5	142.5		110.2	110.4	109.1	109.2	
Machine tool accessories .....	3545	54.9	54.8	53.3	53.7		38.0	38.1	37.5	38.0	
Power driven hand tools .....	3546	21.2	21.3	21.2	21.3		15.4	15.4	15.7	15.7	
Special industry machinery .....	355	160.6	160.0	157.6	157.7		94.6	94.2	93.6	93.8	
Food products machinery .....	3551	37.7	37.5	37.4	37.3		22.6	22.7	22.7	22.5	
Textile machinery .....	3552	18.5	18.4	19.9	20.1		12.3	12.3	13.3	13.6	
Printing trades machinery .....	3555	27.7	27.6	26.7	26.7		16.1	16.1	15.6	15.6	
General industrial machinery .....	356	255.3	256.5	252.1	252.3		162.0	163.1	160.9	160.8	
Pumps and pumping equipment .....	3561	45.1	44.9	43.5	43.8		26.6	26.5	24.9	25.1	
Ball and roller bearings .....	3562	44.0	44.2	43.1	43.1		32.8	33.0	32.8	32.9	
Air and gas compressors .....	3563	22.2	22.4	21.7	21.8		12.7	12.8	12.1	12.1	
Blowers and fans .....	3564	30.5	30.6	30.5	30.5		19.2	19.3	19.6	19.6	
Speed changers, drives, and gears .....	3566	19.5	19.9	20.1	20.0		13.3	13.5	13.8	13.6	
Power transmission equipment, nec .....	3568	16.3	16.4	16.4	16.5		11.0	11.0	10.9	10.7	
Office and computing machines .....	357	476.4	479.3	453.9	453.9		162.8	162.3	147.5	147.7	
Electronic computing equipment .....	3573	419.5	422.3	398.5	398.6		139.0	138.5	123.9	124.3	
Refrigeration and service machinery .....	358	173.6	174.1	174.4	175.5		122.4	122.5	124.6	125.6	
Refrigeration and heating equipment .....	3585	123.8	124.2	124.8	125.9		89.5	89.4	91.1	92.3	
Misc. machinery, except electrical .....	359	276.7	277.0	272.7	273.7		209.9	210.1	206.7	207.2	
Carburetors, pistons, rings, and valves .....	3592	37.0	36.9	34.9	35.1		30.2	30.1	28.8	28.9	
Machinery, except electrical, nec .....	3599	239.7	240.1	237.8	238.6		179.7	180.0	177.9	178.3	
Electrical and electronic equipment .....	36	2,122.0	2,107.7	2,086.0	2,083.5	2,086.2	1,226.7	1,206.8	1,213.3	1,214.1	1,218.0
Electric distributing equipment .....	361	107.6	108.1	105.2	105.5		77.7	78.2	76.6	76.9	
Transformers .....	3612	50.6	50.9	49.9	50.3		37.3	37.6	37.0	37.3	
Switchgear and switchboard apparatus .....	3613	57.0	57.2	55.3	55.2		40.4	40.6	39.6	39.6	
Electrical industrial apparatus .....	362	188.1	189.0	184.2	184.2		131.1	131.4	126.3	126.5	
Motors and generators .....	3621	91.0	91.4	89.6	90.0		70.5	70.7	68.3	68.6	
Industrial controls .....	3622	61.5	61.7	58.8	58.4		36.4	36.4	33.8	33.5	
Household appliances .....	363	132.6	134.4	135.5	137.7		103.4	104.9	106.9	109.3	
Household refrigerators and freezers .....	3632	28.3	28.7	28.5	28.9		22.4	22.8	23.4	24.0	
Household laundry equipment .....	3633	22.2	22.5	22.8	22.7		17.6	17.5	17.8	17.8	
Electric housewares and fans .....	3634	33.5	34.8	34.7	35.7		24.8	26.0	26.2	27.3	

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment .....	364	196.5	195.8	191.8	189.9		141.9	141.0	138.7	138.1	
Electric lamps .....	3641	27.3	27.4	27.0	27.0		23.5	23.4	23.2	23.2	
Current-carrying wiring devices .....	3643	78.6	78.5	74.5	73.7		51.6	51.3	48.6	48.8	
Noncurrent-carrying wiring devices .....	3644	17.6	17.4	16.4	16.5		12.4	12.3	11.7	11.8	
Residential lighting fixtures .....	3645	26.8	26.3	27.0	26.4		20.1	19.7	20.5	20.0	
Radio and TV receiving equipment .....	365	79.7	80.3	78.4	77.8		54.6	55.0	52.4	51.9	
Radio and TV receiving sets .....	3651	62.4	62.8	60.6	60.2		42.6	42.9	39.8	39.4	
Communication equipment .....	366	635.4	614.2	614.7	612.2		266.5	243.8	257.5	255.9	
Telephone and telegraph apparatus .....	3661	129.7	106.9	116.8	115.4		75.8	53.6	67.4	66.9	
Radio and TV communication equipment .....	3662	505.7	507.3	497.9	496.8		190.7	190.2	190.1	189.0	
Electronic components and accessories .....	367	629.5	633.3	625.6	626.4		346.8	347.8	350.4	351.2	
Electronic tubes .....	3671-3	39.9	40.0	38.3	38.4		23.8	23.9	24.2	24.4	
Semiconductors and related devices .....	3674	267.7	270.6	263.3	263.2		100.0	101.2	101.7	101.4	
Electronic components, nec .....	3679	250.9	251.4	253.0	254.5		169.8	169.4	171.1	172.6	
Misc. electrical equipment and supplies .....	369	152.6	152.6	150.6	149.8		104.7	104.7	104.5	104.3	
Storage batteries .....	3691	27.6	27.9	29.0	29.2		21.4	21.7	22.3	22.6	
Engine electrical equipment .....	3694	65.9	65.6	65.4	64.5		49.0	48.8	49.7	49.2	
Transportation equipment .....	37	2,013.4	2,021.1	2,013.2	2,014.7	2,026.7	1,266.0	1,267.2	1,269.7	1,272.7	1,280.5
Motor vehicles and equipment .....	371	868.4	874.7	847.1	846.6	856.5	669.6	673.6	659.1	660.9	668.5
Motor vehicles and car bodies .....	3711	396.7	402.6	374.9	373.2	-	294.8	299.8	281.6	283.0	-
Truck and bus bodies .....	3713	38.9	39.2	42.9	44.0		30.4	30.7	33.9	34.7	
Motor vehicle parts and accessories .....	3714	388.7	388.5	383.7	382.6		310.0	308.8	308.3	306.8	
Truck trailers .....	3715	28.7	29.6	29.1	29.9		22.4	23.0	22.3	23.1	
Aircraft and parts .....	372	669.6	672.1	687.4	686.8		328.5	327.4	343.7	343.3	
Aircraft .....	3721	334.7	337.5	349.4	349.9		144.2	145.1	156.6	157.1	
Aircraft engines and engine parts .....	3724	152.3	152.7	155.9	155.5		77.4	77.5	80.1	79.6	
Aircraft equipment, nec .....	3728	182.6	181.9	182.1	181.4		106.9	104.8	107.0	106.6	
Ship and boat building and repairing .....	373	187.0	185.2	185.2	187.0		140.7	139.0	137.9	138.8	
Ship building and repairing .....	3731	131.9	130.7	125.3	126.1		96.1	95.2	89.2	89.4	
Boat building and repairing .....	3732	55.1	54.5	59.9	60.9		44.6	43.8	48.7	49.4	
Railroad equipment .....	374	26.9	25.8	22.2	21.8		18.2	18.0	14.6	14.7	
Guided missiles, space vehicles, and parts .....	376	199.8	201.8	207.1	208.5		67.0	67.8	70.2	71.4	
Guided missiles and space vehicles .....	3761	151.1	152.9	156.4	157.5		49.0	49.5	50.9	52.0	
Miscellaneous transportation equipment .....	379	49.4	49.8	51.9	51.7		33.2	33.2	35.7	35.1	
Travel trailers and campers .....	3792	18.8	19.2	21.1	21.1		14.6	14.9	16.7	16.5	
Instruments and related products .....	38	709.2	710.1	693.1	691.9	694.6	384.0	385.4	376.3	375.1	378.7
Engineering and scientific instruments .....	381	83.9	84.3	83.0	82.5	-	36.8	37.2	37.4	36.9	-
Measuring and controlling devices .....	382	247.0	247.0	238.2	237.9		136.1	136.4	132.9	132.6	
Environmental controls .....	3822	42.2	42.0	40.8	41.0		26.7	26.5	25.8	25.9	
Process control instruments .....	3823	55.3	55.5	51.7	51.4		28.2	28.4	26.7	26.6	
Instruments to measure electricity .....	3825	106.2	105.7	100.8	100.7		53.5	53.1	50.6	50.2	
Optical instruments and lenses .....	383	33.1	33.1	32.2	32.2		16.4	16.4	15.7	15.7	
Medical instruments and supplies .....	384	180.4	181.1	179.4	179.3		108.9	109.4	107.4	107.1	
Surgical and medical instruments .....	3841	87.5	87.9	86.1	86.2		49.8	50.2	49.3	49.2	
Surgical appliances and supplies .....	3842	78.5	78.8	79.3	78.9		51.1	51.1	50.2	50.0	
Ophthalmic goods .....	385	38.4	38.6	41.3	41.7		25.7	25.9	28.0	28.4	
Photographic equipment and supplies .....	386	115.8	115.2	107.8	107.1		52.8	52.6	46.9	46.4	
Watches, clocks, and watchcases .....	387	10.6	10.8	11.2	11.2		7.3	7.5	8.0	8.0	
Miscellaneous manufacturing .....	39	363.9	365.8	364.0	366.3	369.1	263.2	265.5	265.3	266.6	269.8
Jewelry, silverware, and plated ware .....	391	54.1	54.0	53.4	53.6	-	37.2	37.2	37.1	37.1	-
Jewelry, precious metal .....	3911	38.0	37.8	37.1	37.2		25.8	25.8	25.5	25.5	
Musical instruments .....	393	12.5	12.5	12.5	12.5		10.0	10.1	10.2	10.2	
Toys and sporting goods .....	394	95.4	96.8	96.5	97.4		70.6	72.2	72.1	72.7	
Dolls, games, toys, and children's vehicles .....	3942,4	44.9	46.1	43.9	45.0		31.6	32.8	31.4	32.4	
Sporting and athletic goods, nec .....	3949	50.5	50.7	52.6	52.4		39.0	39.4	40.7	40.3	
Pens, pencils, office, and art supplies .....	395	33.1	33.2	33.1	33.3		22.5	22.7	22.9	22.9	
Costume jewelry and notions .....	396	40.5	40.2	42.4	42.8		31.1	30.8	33.2	33.7	
Costume jewelry .....	3961	22.6	22.2	25.2	25.2		17.3	16.9	19.8	19.8	
Miscellaneous manufactures .....	399	128.3	129.1	126.1	126.7		91.8	92.5	89.8	90.0	
Signs and advertising displays .....	3993	56.0	55.6	54.9	54.8		39.2	38.7	38.2	37.8	

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Nondurable goods</b> .....		7,695	7,787	7,771	7,804	7,893	5,413	5,491	5,478	5,504	5,582
Food and kindred products .....	20	1,575.3	1,624.5	1,579.3	1,596.1	1,637.1	1,094.7	1,139.3	1,100.5	1,116.2	1,152.0
Meat products .....	201	367.2	372.8	374.7	375.3	-	311.8	317.0	317.2	318.3	-
Meat packing plants .....	2011	137.2	138.2	136.4	134.5	-	115.0	116.0	114.0	112.3	-
Sausages and other prepared meats .....	2013	75.5	77.2	74.9	75.0	-	55.8	57.2	55.0	55.2	-
Poultry dressing plants .....	2016	137.0	139.5	144.9	147.0	-	125.2	127.4	131.2	133.5	-
Dairy products .....	202	164.2	167.0	164.1	166.3	-	98.3	101.0	99.0	101.0	-
Cheese, natural and processed .....	2022	39.9	40.5	38.8	39.4	-	30.5	31.1	29.5	30.1	-
Fluid milk .....	2026	84.7	85.6	85.4	86.2	-	41.6	42.3	43.0	43.5	-
Preserved fruits and vegetables .....	203	213.8	237.7	213.7	219.8	-	172.0	195.0	171.1	176.6	-
Canned specialties .....	2032	23.8	23.8	24.1	24.2	-	17.0	17.0	16.7	16.8	-
Canned fruits and vegetables .....	2033	68.0	80.0	66.3	68.7	-	54.1	64.9	52.7	54.7	-
Frozen fruits and vegetables .....	2037	45.7	51.1	41.9	44.2	-	39.0	44.8	36.3	38.4	-
Grain mill products .....	204	120.4	122.3	118.8	119.3	-	81.8	83.3	80.7	81.3	-
Flour and other grain mill products .....	2041	21.5	22.0	22.2	22.1	-	14.5	14.9	14.6	14.5	-
Prepared feeds, nec .....	2048	43.2	43.6	41.8	42.1	-	26.9	27.2	26.3	26.6	-
Bakery products .....	205	207.5	210.9	209.1	211.4	-	124.3	126.9	125.7	128.1	-
Bread, cake, and related products .....	2051	165.6	167.5	164.7	166.6	-	91.0	92.4	89.8	91.7	-
Cookies and crackers .....	2052	41.9	43.4	44.4	44.8	-	33.3	34.5	35.9	36.4	-
Sugar and confectionery products .....	206	89.4	91.4	90.1	87.7	-	68.2	70.6	68.4	67.1	-
Cane and beet sugar .....	2061-3	20.3	19.9	21.3	21.0	-	15.5	15.4	15.5	15.9	-
Confectionery products .....	2065	50.7	52.2	49.8	48.1	-	40.6	42.3	40.3	38.9	-
Fats and oils .....	207	34.0	33.8	32.3	32.7	-	25.0	24.6	23.7	23.3	-
Beverages .....	208	213.5	217.2	208.6	212.2	-	90.6	93.1	89.7	92.3	-
Malt beverages .....	2082	41.6	42.1	40.2	40.7	-	26.4	27.2	25.2	26.0	-
Bottled and canned soft drinks .....	2086	127.1	130.3	124.1	126.0	-	41.3	42.6	40.5	41.7	-
Misc. food and kindred products .....	209	165.3	171.4	167.9	171.4	-	122.7	127.8	125.0	128.2	-
Tobacco manufactures .....	21	55.7	55.9	53.1	53.4	53.8	40.9	41.1	39.7	39.7	39.6
Cigarettes .....	211	42.0	42.7	40.0	40.3	-	31.0	31.7	30.1	30.0	-
Textile mill products .....	22	702.1	707.3	724.3	726.9	732.1	607.0	612.0	628.7	631.7	636.0
Weaving mills, cotton .....	221	101.1	101.1	105.9	106.5	-	90.8	90.7	95.5	96.1	-
Weaving mills, synthetics .....	222	83.2	83.4	86.4	86.7	-	74.1	74.3	76.9	77.4	-
Weaving and finishing mills, wool .....	223	17.9	18.0	17.9	18.1	-	15.0	15.1	14.6	15.0	-
Narrow fabric mills .....	224	22.2	22.1	22.8	22.9	-	19.1	19.0	19.8	19.9	-
Knitting mills .....	225	206.3	209.9	209.7	210.6	-	179.4	182.7	184.1	185.1	-
Women's hosiery, except socks .....	2251	35.1	35.6	35.2	35.1	-	31.2	31.6	31.5	31.4	-
Hosiery, nec .....	2252	36.3	36.9	36.4	36.5	-	32.5	33.1	32.7	32.8	-
Knit outerwear mills .....	2253	69.1	70.9	72.0	72.4	-	60.5	62.0	63.9	64.5	-
Knit underwear mills .....	2254	24.1	24.4	23.2	23.3	-	19.8	20.1	19.6	19.8	-
Circular knit fabric mills .....	2257	23.8	24.1	25.1	25.5	-	20.7	21.0	22.0	22.3	-
Textile finishing, except wool .....	226	59.4	59.6	60.4	60.6	-	50.0	50.3	50.6	50.9	-
Finishing plants, cotton .....	2261	23.1	23.0	23.5	23.6	-	19.7	19.7	19.9	20.1	-
Finishing plants, synthetics .....	2262	22.1	22.3	22.6	22.5	-	18.0	18.3	18.3	18.3	-
Floor covering mills .....	227	54.6	54.7	58.1	58.4	-	44.9	45.0	47.2	47.4	-
Yarn and thread mills .....	228	102.8	103.6	108.1	108.3	-	91.3	92.2	96.7	96.8	-
Yarn mills, except wool .....	2281	74.4	74.7	78.8	79.2	-	67.1	67.4	71.3	71.7	-
Throwing and winding mills .....	2282	15.5	16.1	16.1	16.0	-	13.4	14.0	14.3	14.2	-
Miscellaneous textile goods .....	229	54.6	54.9	55.0	54.8	-	42.4	42.7	43.3	43.1	-
Apparel and other textile products .....	23	1,109.0	1,113.8	1,107.4	1,111.3	1,121.5	933.7	937.8	931.4	931.7	943.7
Men's and boys' suits and coats .....	231	59.7	59.9	56.7	57.6	-	51.3	51.5	48.5	49.3	-
Men's and boys' furnishings .....	232	312.4	312.4	311.2	312.8	-	270.9	270.5	269.1	270.5	-
Men's and boys' shirts and nightwear .....	2321	86.9	87.1	86.4	86.6	-	75.3	75.3	74.1	74.4	-
Men's and boys' separate trousers .....	2327	56.3	56.9	54.3	53.8	-	49.6	50.0	47.5	47.0	-
Men's and boys' work clothing .....	2328	94.6	94.0	94.3	95.7	-	82.9	82.3	82.8	83.7	-
Women's and misses' outerwear .....	233	358.6	358.3	358.9	360.1	-	298.3	298.4	299.6	298.5	-
Women's and misses' blouses and waists .....	2331	49.0	49.8	50.2	49.8	-	40.5	41.1	41.8	41.2	-
Women's and misses' dresses .....	2335	87.3	86.9	87.5	86.0	-	73.8	73.5	73.6	71.8	-
Women's and misses' suits and coats .....	2337	44.9	45.4	40.6	45.6	-	37.0	37.5	32.8	36.8	-
Women's and misses' outerwear, nec .....	2339	177.4	176.2	180.6	178.7	-	147.0	146.3	151.4	148.7	-

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
<b>Apparel and other textile products—Continued</b>											
Women's and children's undergarments .....	234	76.5	77.0	73.9	73.4		63.7	63.9	60.9	60.4	
Women's and children's underwear .....	2341	61.8	62.5	60.0	59.4		52.9	53.2	50.9	50.4	
Brassieres and allied garments .....	2342	14.7	14.5	13.9	14.0		10.8	10.7	10.0	10.0	
Children's outerwear .....	236	60.6	62.3	55.5	56.5		51.1	52.8	46.4	47.0	
Children's dresses and blouses .....	2361	25.2	25.9	23.1	23.4		22.1	22.7	20.2	20.3	
Misc. apparel and accessories .....	238	41.6	41.6	41.9	42.5		34.8	34.7	35.4	35.8	
Misc. fabricated textile products .....	239	180.7	182.8	190.4	189.6		148.6	150.6	156.6	155.4	
Curtains and draperies .....	2391	25.2	25.5	26.8	26.8		20.3	20.4	21.8	21.5	
House furnishings, nec .....	2392	48.5	48.9	51.6	51.8		41.2	41.7	43.6	43.8	
Automotive and apparel trimmings .....	2396	38.4	38.9	39.8	39.0		32.3	32.8	33.5	32.8	
Paper and allied products .....	26	671.2	680.9	673.5	675.1	681.2	509.3	517.4	511.3	512.6	519.7
Paper and pulp mills .....	261,2,6	194.9	198.5	192.5	192.3	-	149.6	152.4	146.3	146.3	-
Paper mills, except building paper .....	262	170.7	173.9	168.2	168.3		130.2	132.6	127.4	127.3	
Paperboard mills .....	263	53.1	54.0	52.6	52.8		40.5	41.1	39.4	39.6	
Misc. converted paper products .....	264	228.1	231.3	231.7	232.8		167.8	170.9	172.7	173.1	
Paper coating and glazing .....	2641	57.5	58.1	57.8	57.9		35.9	36.4	37.0	36.8	
Envelopes .....	2642	26.6	26.6	26.9	26.8		20.5	20.6	21.0	20.7	
Bags, except textile bags .....	2643	50.3	50.6	52.3	52.2		39.2	39.6	41.4	41.2	
Paperboard containers and boxes .....	265	195.1	197.1	196.7	197.2		151.4	153.0	152.9	153.6	
Folding paperboard boxes .....	2651	42.4	42.7	42.7	42.7		33.7	34.0	33.8	33.9	
Corrugated and solid fiber boxes .....	2653	103.8	104.6	103.5	103.6		78.5	79.0	78.3	78.5	
Sanitary food containers .....	2654	22.4	22.9	23.4	23.8		18.9	19.4	20.2	20.6	
Printing and publishing .....	27	1,450.1	1,456.2	1,494.2	1,495.5	1,501.0	817.2	819.1	836.5	836.8	840.0
Newspapers .....	271	455.3	458.4	457.5	458.7	-	170.2	170.2	168.3	168.7	-
Periodicals .....	272	114.1	114.9	119.7	120.3		42.0	42.2	43.3	43.3	
Books .....	273	109.9	109.7	115.9	115.7		60.7	60.4	62.5	62.3	
Book publishing .....	2731	81.2	81.3	86.2	85.6		37.8	37.8	39.3	38.5	
Book printing .....	2732	28.7	28.4	29.7	30.1		22.9	22.6	23.2	23.8	
Miscellaneous publishing .....	274	70.9	71.1	77.1	76.7		38.3	38.4	41.8	41.3	
Commercial printing .....	275	505.4	506.2	527.7	527.6		367.8	368.0	380.6	380.7	
Commercial printing, letterpress .....	2751	160.9	160.9	167.1	167.1		117.8	117.6	120.3	120.3	
Commercial printing, lithographic .....	2752	318.5	319.3	332.2	332.3		229.5	229.8	237.7	237.9	
Manifold business forms .....	276	49.7	49.8	48.6	48.4		34.7	34.8	33.9	33.8	
Blankbooks and bookbinding .....	278	71.8	72.9	73.7	73.9		57.5	58.8	59.3	59.3	
Printing trade services .....	279	50.8	50.8	52.8	53.0		38.0	38.1	39.2	39.4	
Chemicals and allied products .....	28	1,018.9	1,030.3	1,016.4	1,019.8	1,029.7	565.6	574.3	569.0	571.5	576.8
Industrial inorganic chemicals .....	281	136.6	137.2	132.6	132.9	-	69.7	70.3	68.0	68.7	-
Industrial inorganic chemicals, nec .....	2819	90.8	91.2	87.7	87.8		49.2	49.8	48.9	49.3	
Plastics materials and synthetics .....	282	167.2	168.1	164.9	164.9		112.6	113.7	109.8	109.1	
Plastics materials and resins .....	2821	74.5	75.5	75.1	74.9		45.0	45.8	44.5	44.3	
Organic fibers, noncellulosic .....	2824	63.2	63.1	61.0	60.9		45.5	45.8	43.9	43.1	
Drugs .....	283	206.1	208.4	209.7	209.4		96.1	96.5	96.6	96.0	
Pharmaceutical preparations .....	2834	164.1	165.8	167.6	167.7		75.4	75.6	76.2	75.7	
Soap, cleaners, and toilet goods .....	284	144.8	147.8	147.3	149.5		91.3	94.0	92.7	94.3	
Soap and other detergents .....	2841	41.7	42.6	41.2	41.8		26.5	27.1	26.0	26.3	
Polishing, sanitation, and finishing preparations .....	2842,3	39.4	39.7	40.1	39.9		21.5	21.5	21.7	21.7	
Toilet preparations .....	2844	63.7	65.5	66.0	67.8		43.3	45.4	45.0	46.3	
Paints and allied products .....	285	63.3	64.1	62.7	63.3		30.7	31.3	30.6	31.0	
Industrial organic chemicals .....	286	154.5	155.0	151.5	151.6		80.9	81.6	83.9	84.7	
Cyclic crudes and intermediates .....	2865	30.2	30.5	29.1	29.3		20.0	20.1	19.2	19.4	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	124.3	124.5	122.4	122.3		60.9	61.5	64.7	65.3	
Agricultural chemicals .....	287	53.8	55.8	55.5	55.3		32.6	34.2	35.5	35.2	
Miscellaneous chemical products .....	289	92.6	93.9	92.2	92.9		51.7	52.7	51.9	52.5	
Petroleum and coal products .....	29	172.0	172.5	163.4	165.1	167.1	107.5	108.5	106.0	108.0	110.7
Petroleum refining .....	291	132.6	132.7	124.6	124.9	-	79.4	79.9	78.5	79.3	-
Paving and roofing materials .....	295	27.7	28.1	27.5	28.9		21.3	21.7	21.0	22.3	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	788.2	793.4	811.1	810.7	817.6	612.0	617.0	630.7	629.8	636.2
Tires and inner tubes .....	301	87.5	87.4	86.0	85.8	-	63.4	63.6	62.4	61.9	-
Rubber and plastics footwear .....	302	10.6	10.6	10.4	10.2	-	9.0	8.9	8.5	8.3	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	21.8	21.9	21.9	20.8	-	14.7	15.0	15.8	14.9	-
Fabricated rubber products, nec .....	306	102.9	103.0	104.0	103.2	-	79.0	79.1	79.8	79.1	-
Miscellaneous plastics products .....	307	565.4	570.5	588.8	590.7	-	445.9	450.4	464.2	465.6	-
Leather and leather products .....	31	152.3	151.7	148.0	150.1	152.3	125.3	124.8	123.9	125.6	127.5
Leather tanning and finishing .....	311	14.3	14.5	14.1	14.0	-	11.8	12.1	11.6	11.6	-
Footwear, except rubber .....	314	91.2	90.0	86.0	87.5	-	76.8	75.6	74.1	75.3	-
Men's footwear, except athletic .....	3143	40.3	39.9	37.7	38.2	-	32.2	31.7	30.5	30.9	-
Women's footwear, except athletic .....	3144	32.1	31.5	31.5	31.9	-	28.2	27.6	27.8	28.1	-
Luggage .....	316	11.0	10.8	11.1	11.1	-	8.0	7.8	7.9	8.0	-
Handbags and personal leather goods .....	317	18.4	18.9	18.3	18.8	-	14.6	15.1	15.1	15.4	-
<b>Transportation and public utilities .....</b>		<b>5,252</b>	<b>5,184</b>	<b>5,314</b>	<b>5,352</b>	<b>5,393</b>	<b>4,339</b>	<b>4,273</b>	<b>4,397</b>	<b>4,434</b>	<b>4,476</b>
Transportation .....		3,033	3,052	3,099	3,132	3,157	-	-	-	-	-
Railroad transportation .....	40	337.5	332.2	308.5	311.1	-	-	-	-	-	-
Class 1 railroads <sup>2</sup> .....	4011	300.4	295.6	273.0	275.3	-	-	-	-	-	-
Local and interurban passenger transit .....	41	301.0	290.4	288.7	294.3	-	278.8	269.0	267.3	272.9	-
Local and suburban transportation .....	411	97.8	97.9	99.9	100.0	-	90.1	90.2	91.2	91.6	-
Taxicabs .....	412	35.9	35.6	34.9	34.7	-	-	-	-	-	-
Intercity highway transportation .....	413	34.2	35.6	31.0	32.1	-	31.0	32.3	28.1	29.0	-
School buses .....	415	110.2	98.4	99.1	102.0	-	-	-	-	-	-
Trucking and warehousing .....	42	1,357.2	1,377.6	1,416.2	1,434.8	-	1,179.0	1,199.0	1,229.3	1,245.9	-
Trucking and trucking terminals .....	421,3	1,263.3	1,282.7	1,315.3	1,334.0	-	1,100.5	1,119.2	1,145.1	1,162.0	-
Public warehousing .....	422	93.9	94.9	100.9	100.8	-	78.5	79.8	84.2	83.9	-
Water transportation .....	44	176.7	180.2	171.7	174.8	-	-	-	-	-	-
Local water transportation .....	445	27.0	27.2	26.1	26.7	-	-	-	-	-	-
Water transportation services .....	446	95.6	98.3	94.3	97.0	-	-	-	-	-	-
Transportation by air .....	45	559.7	568.4	597.4	598.9	-	-	-	-	-	-
Air transportation .....	451,2	494.0	502.1	529.0	530.6	-	-	-	-	-	-
Air transportation services .....	458	65.7	66.3	68.4	68.3	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	17.9	18.4	17.5	17.7	-	13.1	13.5	12.7	12.8	-
Transportation services .....	47	282.9	284.3	298.6	300.2	-	-	-	-	-	-
Freight forwarding .....	471	61.9	62.8	69.8	70.3	-	-	-	-	-	-
Communication and public utilities .....		2,219	2,132	2,215	2,220	2,236	-	-	-	-	-
Communication .....	48	1,296.8	1,202.5	1,289.9	1,291.6	-	993.9	903.3	978.7	981.3	-
Telephone communication .....	481	899.9	803.9	889.3	889.8	-	674.9	582.4	656.7	657.8	-
Radio and television broadcasting .....	483	238.3	238.6	236.2	236.7	-	195.1	195.8	193.6	194.7	-
Radio broadcasting .....	4832	113.2	113.4	113.3	113.5	-	-	-	-	-	-
Television broadcasting .....	4833	125.1	125.2	122.9	123.2	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	922.4	929.2	925.4	928.6	-	734.6	740.0	733.3	735.7	-
Electric services .....	491	452.0	453.5	452.8	453.0	-	349.5	350.3	346.4	345.9	-
Gas production and distribution .....	492	167.0	167.6	165.2	165.7	-	131.1	131.3	130.9	131.7	-
Combination utility services .....	493	206.4	208.5	203.7	204.4	-	171.1	173.1	167.7	168.1	-
Sanitary services .....	495	70.3	72.3	76.0	77.4	-	61.0	62.9	66.0	67.4	-
<b>Wholesale trade .....</b>		<b>5,742</b>	<b>5,740</b>	<b>5,748</b>	<b>5,769</b>	<b>5,803</b>	<b>4,606</b>	<b>4,603</b>	<b>4,594</b>	<b>4,612</b>	<b>4,643</b>
Durable goods .....	50	3,389	3,374	3,390	3,403	3,423	2,696	2,680	2,680	2,691	-
Motor vehicles and automotive equipment .....	501	430.5	433.8	432.1	433.6	-	344.1	348.2	346.0	347.7	-
Automobiles and other motor vehicles .....	5012	110.1	110.5	111.2	111.4	-	-	-	-	-	-
Automotive parts and supplies .....	5013	288.9	291.5	289.7	291.2	-	-	-	-	-	-

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Furniture and home furnishings .....	502	130.4	131.3	136.3	137.1		105.2	105.8	109.1	109.9	
Furniture .....	5021	57.5	57.9	59.8	60.2		-	-	-	-	
Home furnishings .....	5023	72.9	73.4	76.5	76.9		-	-	-	-	
Lumber and construction materials .....	503	224.6	228.6	225.0	229.7		184.5	188.5	185.0	189.2	
Lumber, plywood, and millwork .....	5031	100.5	102.2	102.2	103.4		-	-	-	-	
Construction materials, nec .....	5039	124.1	126.4	122.8	126.3		-	-	-	-	
Sporting goods, toys, and hobby goods .....	504	81.2	81.8	79.3	79.8		67.1	67.4	65.4	66.1	
Metals and minerals, except petroleum .....	505	133.4	133.7	131.8	132.8		105.0	105.3	103.0	103.4	
Electrical goods .....	506	491.8	459.8	488.9	489.1		376.9	343.1	372.6	372.0	
Electrical apparatus and equipment .....	5063	272.1	240.8	268.2	269.0		-	-	-	-	
Electrical appliances, TV and radios .....	5064	70.4	69.9	73.5	72.9		-	-	-	-	
Electronic parts and equipment .....	5065	149.3	149.1	147.2	147.2		-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	256.3	258.5	260.3	262.4		205.1	206.9	209.4	211.7	
Hardware .....	5072	87.0	87.6	90.3	91.3		-	-	-	-	
Plumbing and hydronic heating supplies .....	5074	106.2	107.4	108.2	108.2		-	-	-	-	
Machinery, equipment, and supplies .....	508	1,448.8	1,454.7	1,443.8	1,446.0		1,153.7	1,160.9	1,136.3	1,138.2	
Commercial machines and equipment .....	5081	528.8	531.5	533.0	533.1		-	-	-	-	
Construction and mining machinery .....	5082	80.9	81.7	80.7	81.0		-	-	-	-	
Farm machinery and equipment .....	5083	119.9	120.7	119.5	120.5		-	-	-	-	
Industrial machinery and equipment .....	5084	307.9	306.2	294.8	294.9		-	-	-	-	
Industrial supplies .....	5085	129.5	130.0	129.0	129.4		-	-	-	-	
Professional equipment and supplies .....	5086	174.6	175.7	174.1	174.2		-	-	-	-	
Miscellaneous durable goods .....	509	191.7	191.5	192.0	192.2		154.4	153.5	153.3	153.0	
Scrap and waste materials .....	5093	87.9	89.0	87.4	88.0		-	-	-	-	
Nondurable goods .....	51	2,353	2,366	2,358	2,366	2,380	1,910	1,923	1,914	1,921	
Paper and paper products .....	511	189.7	190.5	191.8	192.2		154.2	154.7	156.1	156.8	
Drugs, proprietaries, and sundries .....	512	168.0	168.4	173.4	172.6		139.3	140.1	144.2	143.5	
Apparel, piece goods, and notions .....	513	188.7	190.9	192.1	191.2		139.8	142.2	144.1	143.0	
Groceries and related products .....	514	759.4	765.3	753.9	758.1		645.1	650.7	635.9	639.8	
Groceries, general line .....	5141	241.7	242.9	247.1	247.6		-	-	-	-	
Meats and meat products .....	5147	63.8	64.6	64.0	63.7		-	-	-	-	
Fresh fruits and vegetables .....	5148	100.3	100.4	86.1	87.7		-	-	-	-	
Chemicals and allied products .....	516	129.5	130.3	131.7	132.8		93.5	94.3	96.1	96.7	
Petroleum and petroleum products .....	517	200.6	200.9	193.5	194.1		155.0	155.7	150.6	151.7	
Petroleum bulk stations and terminals .....	5171	82.9	83.2	78.1	78.4		-	-	-	-	
Petroleum products, nec .....	5172	117.7	117.7	115.4	115.7		-	-	-	-	
Beer, wine, and distilled beverages .....	518	149.7	153.0	152.0	153.4		123.4	126.5	125.3	126.6	
Beer and ale .....	5181	93.8	96.3	95.7	96.7		-	-	-	-	
Wines and distilled beverages .....	5182	55.9	56.7	56.3	56.7		-	-	-	-	
Miscellaneous nondurable goods .....	519	440.5	439.2	442.5	444.6		356.8	355.9	358.9	360.2	
Farm supplies .....	5191	153.8	151.0	150.5	150.9		-	-	-	-	
<b>Retail trade .....</b>		<b>17,799</b>	<b>17,965</b>	<b>17,997</b>	<b>18,207</b>	<b>18,368</b>	<b>15,848</b>	<b>16,006</b>	<b>15,995</b>	<b>16,192</b>	<b>16,336</b>
Building materials and garden supplies .....	52	722.7	725.4	721.7	743.1		610.3	612.3	599.6	619.2	
Lumber and other building materials .....	521	380.2	386.6	384.1	395.1		323.8	329.4	324.7	334.6	
Hardware stores .....	525	159.9	160.4	158.6	162.5		134.9	135.6	131.6	135.5	
General merchandise stores .....	53	2,286.7	2,308.8	2,297.2	2,320.1	2,337.5	2,151.6	2,172.5	2,156.0	2,177.9	
Department stores .....	531	1,908.4	1,931.0	1,916.5	1,933.0		1,815.3	1,836.5	1,816.3	1,832.3	
Variety stores .....	533	238.1	237.4	241.0	242.8		215.5	214.9	219.0	220.5	
Misc. general merchandise stores .....	539	140.2	140.4	139.7	144.3		120.8	121.1	120.7	125.1	
Food stores .....	54	2,846.4	2,878.4	2,920.7	2,934.6	2,959.0	2,630.1	2,661.1	2,689.5	2,701.9	
Grocery stores .....	541	2,502.1	2,530.7	2,560.7	2,576.2		2,324.5	2,352.5	2,368.3	2,382.6	
Meat markets and freezer provisioners .....	542	58.7	59.6	59.7	60.0		-	-	-	-	
Dairy products stores .....	545	32.1	33.0	34.8	35.7		-	-	-	-	
Retail bakeries .....	546	159.4	161.0	164.2	162.2		144.4	145.6	149.4	147.5	
Automotive dealers and service stations .....	55	1,939.7	1,958.0	1,970.3	1,983.0	2,004.0	1,624.0	1,641.5	1,651.7	1,663.5	
New and used car dealers .....	551,2	940.8	946.1	960.8	962.4		782.3	787.3	798.5	800.0	
Auto and home supply stores .....	553	308.3	312.0	309.4	312.0		248.3	251.3	249.7	251.7	
Gasoline service stations .....	554	594.2	601.3	603.2	608.6		515.1	522.3	525.7	531.2	

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 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,047.6	1,064.2	1,092.0	1,083.7		883.0	898.3	921.9	913.7	
Men's and boys' clothing and furnishings .....	561	106.7	106.6	106.6	106.1		88.6	88.4	86.6	86.5	
Women's ready-to-wear stores .....	562	383.2	385.0	388.7	391.2		326.2	328.5	330.3	331.2	
Family clothing stores .....	565	229.6	235.4	240.4	240.0		198.6	203.4	207.4	206.9	
Shoe stores .....	566	201.0	203.3	213.6	207.8		161.4	163.0	173.9	169.7	
Furniture and home furnishings stores .....	57	762.7	759.7	784.1	789.8		633.6	629.8	649.5	655.1	
Furniture and home furnishings stores ..	571	424.3	427.5	444.2	446.5		349.2	351.9	364.9	367.5	
Furniture stores .....	5712	266.6	267.6	280.2	280.5		-	-	-	-	
Household appliance stores .....	572	87.0	86.9	82.9	82.8		74.5	74.3	70.7	70.3	
Radio, television, and music stores ..	573	251.4	245.3	257.0	260.5		209.9	203.6	213.9	217.3	
Radio and television stores ..	5732	185.7	179.4	189.7	193.8		-	-	-	-	
Music stores ..	5733	65.7	65.9	67.3	66.7		-	-	-	-	
Eating and drinking places ..	58	5,971.2	6,064.5	5,956.5	6,091.1	6,178.0	5,432.0	5,523.0	5,430.6	5,555.8	
Miscellaneous retail .....	59	2,221.9	2,206.1	2,254.8	2,261.8		1,883.7	1,867.8	1,895.8	1,904.9	
Drug stores and proprietary stores .....	591	557.8	561.3	580.3	583.4		476.4	479.6	492.5	495.6	
Liquor stores .....	592	124.6	125.5	125.1	124.5		-	-	-	-	
Miscellaneous shopping goods stores .....	594	718.9	722.0	732.9	730.3		601.1	604.1	614.4	611.2	
Sporting goods and bicycle shops .....	5941	121.7	124.1	126.0	124.6		-	-	-	-	
Book stores .....	5942	72.0	71.7	77.9	77.0		-	-	-	-	
Stationery stores ..	5943	74.0	73.8	75.9	75.9		-	-	-	-	
Jewelry stores .....	5944	142.4	142.6	142.3	140.6		-	-	-	-	
Gift, novelty, and souvenir shops .....	5947	138.9	142.2	137.9	139.1		-	-	-	-	
Sewing, needlework, and piece goods .....	5949	63.6	62.6	63.6	63.9		-	-	-	-	
Nonstore retailers .....	596	257.9	254.6	254.1	254.2		232.6	229.6	228.7	229.3	
Mail order houses .....	5961	118.3	116.7	118.8	117.8		-	-	-	-	
Merchandising machine operators .....	5962	78.9	78.4	81.0	82.7		-	-	-	-	
Fuel and ice dealers ..	598	104.8	105.4	113.0	111.5		87.7	88.0	93.5	92.1	
Retail stores, nec ..	599	378.8	357.7	366.9	374.3		315.7	294.8	299.0	308.3	
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		<b>6,257</b>	<b>6,347</b>	<b>6,530</b>	<b>6,575</b>	<b>6,648</b>	<b>4,622</b>	<b>4,703</b>	<b>4,811</b>	<b>4,846</b>	<b>4,906</b>
Finance ..		3,125	3,169	3,259	3,269	3,303					
Banking .....	60	1,731.5	1,751.0	1,733.5	1,734.2		1,260.5	1,277.2	1,248.8	1,248.5	
Commercial and stock savings banks .....	602	1,562.4	1,579.0	1,556.6	1,557.2		1,132.5	1,147.4	1,116.6	1,116.4	
State banks, Federal Reserve .....	6022	336.7	340.8	342.9	343.7		-	-	-	-	
State banks, not Federal Reserve .....	6023,4	373.1	377.6	373.6	374.6		-	-	-	-	
Mutual savings banks ..	603	82.0	83.3	86.4	86.5		-	-	-	-	
Credit agencies other than banks .....	61	820.3	834.5	889.4	894.6		619.2	630.9	667.1	671.0	
Savings and loan associations .....	612	372.9	378.0	396.9	400.3		284.3	288.7	302.8	305.6	
Federal savings and loan associations ..	6122	207.1	210.1	220.0	221.9		-	-	-	-	
State associations, insured ..	6123	158.2	160.1	168.5	169.9		-	-	-	-	
Personal credit institutions .....	614	224.6	227.4	233.1	233.3		173.7	176.2	179.8	179.9	
Business credit institutions .....	615	51.0	51.7	53.5	53.4		-	-	-	-	
Mortgage bankers and brokers ..	616	147.2	152.5	180.7	182.6		-	-	-	-	
Security, commodity brokers, and services .....	62	384.9	390.5	428.8	430.6						
Security brokers and dealers .....	621	305.3	310.3	342.0	343.0						
Holding and other investment offices .....	67	187.8	193.0	207.5	209.3						
Insurance ..		1,928	1,946	2,028	2,036	2,045					
Insurance carriers ..	63	1,355.7	1,366.6	1,405.2	1,407.7		922.5	931.8	953.3	952.3	
Life insurance .....	631	577.4	580.0	581.7	582.2		354.5	358.3	361.6	359.1	
Medical service and health insurance ..	632	185.0	186.4	193.3	193.1		149.9	151.0	155.9	155.4	
Fire, marine, and casualty insurance ..	633	497.4	501.6	526.9	528.9		344.3	346.8	355.8	357.7	
Title insurance ..	636	57.4	59.1	61.4	61.4		-	-	-	-	
Insurance agents, brokers, and service .....	64	572.4	579.5	623.0	628.3						

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,204	1,232	1,243	1,270	1,300					
Real estate .....	65	1,190.6	1,219.2	1,230.6	1,257.9						
Real estate operators and lessors .....	651	519.4	532.9	520.0	524.7						
Real estate agents and managers .....	653	479.9	491.8	512.3	521.2						
Subdividers and developers .....	655	162.1	164.6	162.7	175.6						
Combined real estate, insurance, etc .....	66	12.9	12.9	12.6	12.4						
<b>Services .....</b>		<b>23,072</b>	<b>23,280</b>	<b>23,950</b>	<b>24,093</b>	<b>24,260</b>	<b>20,273</b>	<b>20,465</b>	<b>20,986</b>	<b>21,116</b>	<b>21,247</b>
Hotels and other lodging places .....	70	1,408.1	1,479.5	1,406.5	1,447.2		-	-	-	-	
Hotels, motels, and tourist courts .....	701	1,365.3	1,428.7	1,372.1	1,410.6		1,225.7	1,286.0	1,222.1	1,260.2	
Personal services .....	72	1,105.1	1,101.4	1,167.7	1,140.3		-	-	-	-	
Laundry, cleaning, and garment services .....	721	387.2	389.4	401.8	405.7		344.9	347.0	357.0	361.0	
Photographic studios, portrait .....	722	55.0	56.7	57.6	58.5		-	-	-	-	
Beauty shops .....	723	347.4	348.6	351.6	352.2		314.7	315.0	317.8	318.3	
Funeral service and crematories ..	726	77.1	77.1	78.8	79.0		-	-	-	-	
Business services .....	73	4,729.7	4,789.5	4,998.4	5,062.6	5,115.1	4,067.6	4,119.7	4,281.4	4,342.9	
Advertising .....	731	201.6	202.5	199.6	199.3	-	149.4	150.0	147.6	148.5	
Advertising agencies .....	7311	149.5	149.6	146.7	146.4		-	-	-	-	
Credit reporting and collection .....	732	97.4	99.7	105.1	105.4		-	-	-	-	
Mailing, reproduction, and stenographic ..	733	192.5	193.3	204.5	204.3		-	-	-	-	
Services to buildings .....	734	683.9	689.9	686.2	698.4		615.6	622.4	621.9	634.2	
Personnel supply services ..	736	992.6	1,006.8	1,130.9	1,165.9		-	-	-	-	
Employment agencies .....	7361	149.4	151.6	178.5	182.7		-	-	-	-	
Temporary help supply services .....	7362	789.2	800.4	896.7	926.9		-	-	-	-	
Computer and data processing services .....	737	583.3	591.0	626.0	629.6		470.5	475.7	492.6	493.6	
Computer programming and software ..	7372	213.2	217.2	231.1	232.8		-	-	-	-	
Data processing services ..	7374	273.1	276.0	295.0	296.2		-	-	-	-	
Miscellaneous business services .....	739	1,969.9	1,997.7	2,037.1	2,050.6		-	-	-	-	
Research development laboratories, nec ..	7391	188.4	191.7	196.8	196.9		-	-	-	-	
Management and public relations .....	7392	547.2	552.6	566.2	570.8		-	-	-	-	
Detective and protective services ..	7393	434.7	443.1	450.8	449.9		-	-	-	-	
Equipment rental and leasing .....	7394	208.6	211.1	211.9	216.6		-	-	-	-	
Photofinishing laboratories .....	7395	78.6	80.2	76.8	78.3		-	-	-	-	
Auto repair, services, and garages .....	75	758.7	767.1	779.9	791.4		635.2	642.8	650.2	660.4	
Automotive rentals, without drivers .....	751	159.8	164.4	169.7	174.5		-	-	-	-	
Automotive repair shops ..	753	454.2	457.7	460.9	466.1		377.8	381.1	379.8	384.6	
Miscellaneous repair services .....	76	320.2	321.0	316.7	320.3		267.2	267.0	263.4	267.1	
Electrical repair shops ..	762	103.6	103.8	104.4	104.9		-	-	-	-	
Motion pictures .....	78	220.7	225.0	232.6	232.4		184.8	190.9	196.7	197.2	
Motion picture production and services .....	781	98.9	97.1	116.8	115.6		79.2	79.1	94.7	94.9	
Motion picture theaters ..	783	109.7	115.7	102.9	103.9		-	-	-	-	
Amusement and recreation services .....	79	941.1	1,050.5	960.6	1,024.9		833.7	946.5	834.8	896.2	
Health services .....	80	6,500.2	6,559.5	6,786.4	6,812.2	6,872.6	5,775.2	5,832.2	6,030.7	6,052.5	
Offices of physicians ..	801	985.4	995.5	1,050.0	1,059.7	-	815.5	824.4	864.4	872.8	
Offices of dentists .....	802	456.8	462.0	474.9	474.2		402.5	407.5	418.1	418.2	
Nursing and personal care facilities .....	805	1,238.8	1,252.4	1,285.8	1,289.5		1,118.3	1,132.0	1,160.8	1,164.0	
Skilled nursing care facilities .....	8051	828.5	837.1	857.3	859.2		-	-	-	-	
Nursing and personal care, nec .....	8059	410.3	415.3	428.5	430.3		-	-	-	-	
Hospitals .....	806	3,018.3	3,038.0	3,109.2	3,119.6		2,749.1	2,768.2	2,836.4	2,844.2	
General medical and surgical hospitals .....	8062	2,825.5	2,844.1	2,910.9	2,920.0		-	-	-	-	
Psychiatric hospitals .....	8063	65.1	65.5	66.6	67.0		-	-	-	-	
Specialty hospitals, excluding psychiatric .....	8069	127.7	128.4	131.7	132.6		-	-	-	-	
Medical and dental laboratories .....	807	126.3	129.0	138.1	138.7		-	-	-	-	
Outpatient care facilities .....	808	245.2	248.5	265.9	268.1		-	-	-	-	

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	733.6	760.1	779.8	780.0		619.9	643.3	655.5	655.2	
Educational services .....	82	1,457.1	1,302.2	1,525.9	1,453.0						
Elementary and secondary schools .....	821	374.3	352.7	373.7	373.8						
Colleges and universities .....	822	931.3	801.3	998.2	924.7						
Correspondence and vocational schools .....	824	71.6	69.6	72.8	72.3						
Social services .....	83	1,461.7	1,444.2	1,535.4	1,546.4						
Individual and family services .....	832	280.9	284.3	307.1	311.6						
Job training and related services .....	833	256.0	260.9	262.2	263.5						
Residential care .....	836	317.3	321.9	332.5	335.1						
Museums, botanical and zoological gardens .....	84	46.9	48.1	49.3	50.9						
Membership organizations .....	86	1,539.4	1,554.1	1,528.8	1,536.9						
Business associations .....	861	91.6	92.3	91.4	91.6						
Labor organizations .....	863	135.4	134.3	130.9	131.7						
Civic and social associations .....	864	347.5	365.4	347.2	351.1						
Miscellaneous services .....	89	1,252.9	1,262.8	1,304.9	1,296.4		1,023.9	1,034.3	1,064.4	1,054.7	
Engineering and architectural services .....	891	675.5	688.2	684.6	696.7		570.4	582.6	576.1	587.3	
Noncommercial research organizations .....	892	125.5	127.5	129.5	128.3		-	-	-	-	
Accounting, auditing, and bookkeeping .....	893	425.9	421.8	464.2	444.6		334.1	331.1	365.2	345.2	
<b>Government</b> .....		16,981	16,716	17,351	17,345	17,104					
<b>Federal Government<sup>4</sup></b> .....		2,911	2,918	2,930	2,936	2,947					
Executive, by agency <sup>4</sup> .....		2,855.7	2,861.4	2,873.4							
Department of Defense .....		986.9	989.7	976.2							
Postal Service <sup>5</sup> .....		788.4	788.4	813.4							
Other executive agencies .....		1,080.4	1,083.3	1,083.8							
Legislative .....		37.3	37.7	37.1							
Judicial .....		18.4	18.5	19.3							
<b>Federal government, by industry:</b>											
Manufacturing activities .....		126.0	125.1	124.7	125.2						
Shipbuilding and repairing .....	3731	75.8	75.2	75.9	76.5						
Transportation and public utilities, except Postal											
Service .....		39.1	39.0	40.2	39.9						
Services .....		409.7	412.3	408.2	412.0						
Hospitals .....	806	247.4	247.4	249.3	251.3						
State government .....		3,938	3,773	4,046	3,996	3,839					
Hospitals .....	806	439.4	440.7	448.1	447.5	-					
Education .....	82	1,615.7	1,412.7	1,701.1	1,639.9						
General administration, including executive, legislative, and judicial functions .....		1,321.3	1,345.6	1,334.6	1,338.7						
Local government .....		10,132	10,025	10,375	10,413	10,318					
Transportation and public utilities .....		489.9	494.9	489.4	490.7	-					
Hospitals .....	806	601.0	606.0	615.7	616.7						
Education .....	82	5,768.3	5,502.1	5,945.2	5,945.2						
General administration, including executive, legislative, and judicial functions .....		2,957.8	3,086.9	3,000.0	3,031.2						

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

<sup>2</sup> 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 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 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. 1986	Apr. 1986	Feb. 1987	Mar. 1987	Apr. 1987
<b>Total</b> .....	45,000	45,316	46,415	46,716	47,036
<b>Total private</b> .....	36,396	36,708	37,578	37,807	38,110
<b>Goods-producing</b> .....	6,755	6,762	6,784	6,803	6,828
<b>Mining</b> .....	115	111	97	97	97
<b>Construction</b> .....	482	492	510	515	525
<b>Manufacturing</b> .....	6,158	6,159	6,177	6,191	6,206
<b>Durable goods</b> .....	2,979	2,981	2,971	2,975	2,978
Lumber and wood products .....	107	108	113	115	116
Furniture and fixtures .....	155	155	157	158	158
Stone, clay, and glass products .....	111	112	112	112	113
Primary metal industries .....	101	101	100	100	100
Fabricated metal products .....	318	319	319	320	322
Machinery, except electrical .....	458	454	443	444	446
Electrical and electronic equipment .....	883	883	873	869	866
Transportation equipment .....	375	377	392	391	390
Instruments and related products .....	307	306	299	299	299
Miscellaneous manufacturing .....	165	167	164	167	168
<b>Nondurable goods</b> .....	3,179	3,178	3,206	3,216	3,228
Food and kindred products .....	476	475	486	488	488
Tobacco manufactures .....	20	19	19	18	17
Textile mill products .....	339	339	348	349	350
Apparel and other textile products .....	892	895	882	882	885
Paper and allied products .....	161	162	162	164	164
Printing and publishing .....	612	614	634	636	642
Chemicals and allied products .....	285	285	289	290	290
Petroleum and coal products .....	27	27	24	24	24
Rubber and misc. plastics products .....	275	272	278	279	281
Leather and leather products .....	91	91	86	86	88
<b>Service-producing</b> .....	38,245	38,554	39,631	39,913	40,208
<b>Transportation and public utilities</b> .....	1,474	1,480	1,505	1,511	1,520
<b>Wholesale trade</b> .....	1,650	1,660	1,680	1,685	1,688
<b>Retail trade</b> .....	9,037	9,166	9,299	9,334	9,482
<b>Finance, insurance, and real estate</b> .....	3,800	3,838	4,029	4,052	4,079
<b>Services</b> .....	13,680	13,802	14,281	14,422	14,513
<b>Government</b> .....	8,604	8,608	8,837	8,909	8,926
Federal .....	1,031	1,036	1,030	1,038	1,043
State .....	1,885	1,891	1,925	1,945	1,949
Local .....	5,688	5,681	5,882	5,926	5,934

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1986 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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>Total</b> .....	99,323	99,601	99,772	100,039	100,209	100,415	100,567	100,919	101,150	101,329	101,598	101,672	101,788
<b>Total private</b> .....	82,670	82,991	83,125	83,241	83,337	83,515	83,643	83,983	84,215	84,352	84,560	84,658	84,746
<b>Goods-producing</b> .....	24,628	24,628	24,639	24,620	24,611	24,630	24,630	24,708	24,743	24,749	24,759	24,755	24,769
<b>Mining</b> .....	769	764	748	739	735	730	724	718	719	722	729	735	732
Oil and gas extraction .....	444	439	428	419	416	412	406	405	406	408	416	420	420
<b>Construction</b> .....	4,900	4,924	4,946	4,948	4,942	4,946	4,936	5,034	5,038	5,032	5,019	4,995	5,008
General building contractors .....	1,293	1,290	1,295	1,291	1,289	1,289	1,277	1,311	1,309	1,291	1,272	1,266	1,266
<b>Manufacturing</b> .....	18,959	18,940	18,945	18,933	18,934	18,954	18,970	18,956	18,986	18,995	19,011	19,025	19,029
<b>Durable goods</b> .....	11,218	11,199	11,206	11,181	11,169	11,174	11,175	11,157	11,179	11,176	11,175	11,179	11,182
Lumber and wood products .....	707	704	712	716	718	723	728	731	733	734	736	739	736
Furniture and fixtures .....	497	497	499	499	499	499	499	500	501	502	504	509	510
Stone, clay, and glass products .....	587	584	584	584	581	582	584	586	588	586	586	586	584
Primary metal industries .....	747	745	735	732	733	733	733	726	733	739	743	742	744
Blast furnaces and basic steel products .....	280	278	265	260	262	260	259	254	261	266	272	272	273
Fabricated metal products .....	1,432	1,423	1,423	1,424	1,421	1,419	1,422	1,422	1,419	1,419	1,423	1,420	1,424
Machinery, except electrical .....	2,066	2,056	2,051	2,031	2,022	2,015	2,011	2,007	2,018	2,015	2,022	2,025	2,030
Electrical and electronic equipment .....	2,099	2,124	2,123	2,118	2,120	2,119	2,118	2,111	2,106	2,099	2,092	2,088	2,078
Transportation equipment .....	2,013	2,004	2,016	2,015	2,013	2,023	2,018	2,014	2,022	2,022	2,011	2,011	2,019
Motor vehicles and equipment .....	865	848	861	857	850	858	853	851	859	854	847	843	848
Instruments and related products .....	707	703	703	703	702	700	698	697	695	694	694	693	691
Miscellaneous manufacturing .....	363	359	360	359	360	361	364	363	364	366	364	366	366
<b>Nondurable goods</b> .....	7,741	7,741	7,739	7,752	7,765	7,780	7,795	7,799	7,807	7,819	7,836	7,846	7,847
Food and kindred products .....	1,620	1,619	1,616	1,619	1,621	1,627	1,631	1,628	1,630	1,635	1,642	1,635	1,632
Tobacco manufactures .....	59	59	58	58	58	59	58	58	58	57	56	57	57
Textile mill products .....	704	706	707	707	709	714	715	718	722	725	724	727	728
Apparel and other textile products .....	1,101	1,103	1,102	1,102	1,104	1,101	1,110	1,106	1,101	1,103	1,104	1,108	1,109
Paper and allied products .....	674	673	671	675	677	678	679	678	679	678	677	677	674
Printing and publishing .....	1,455	1,459	1,462	1,465	1,469	1,472	1,474	1,479	1,483	1,485	1,493	1,497	1,500
Chemicals and allied products .....	1,023	1,022	1,021	1,021	1,020	1,020	1,017	1,018	1,018	1,017	1,018	1,022	1,022
Petroleum and coal products .....	169	168	168	167	166	165	163	164	164	164	164	164	164
Rubber and misc. plastics products .....	787	783	786	791	794	797	800	803	805	807	809	809	811
Leather and leather products .....	149	149	148	147	147	147	148	147	147	148	149	150	150
<b>Service-producing</b> .....	74,695	74,973	75,133	75,419	75,598	75,785	75,937	76,211	76,407	76,580	76,839	76,917	77,019
<b>Transportation and public utilities</b> .....	5,142	5,237	5,202	5,255	5,251	5,278	5,286	5,304	5,315	5,333	5,348	5,347	5,352
Transportation .....	3,024	3,029	3,035	3,050	3,053	3,071	3,078	3,089	3,097	3,112	3,124	3,123	3,129
Communication and public utilities .....	2,118	2,208	2,167	2,205	2,198	2,207	2,208	2,215	2,218	2,221	2,224	2,224	2,223
<b>Wholesale trade</b> .....	5,712	5,735	5,736	5,736	5,731	5,728	5,725	5,741	5,757	5,766	5,772	5,776	5,774
Durable goods .....	3,357	3,385	3,382	3,383	3,379	3,380	3,383	3,386	3,391	3,397	3,397	3,403	3,406
Nondurable goods .....	2,355	2,350	2,354	2,353	2,352	2,348	2,342	2,355	2,366	2,369	2,375	2,373	2,368
<b>Retail trade</b> .....	17,821	17,866	17,913	17,939	17,980	18,009	18,007	18,080	18,140	18,136	18,197	18,207	18,222
General merchandise stores .....	2,361	2,367	2,371	2,374	2,385	2,379	2,363	2,358	2,373	2,380	2,385	2,392	2,390
Food stores .....	2,875	2,882	2,889	2,892	2,901	2,906	2,916	2,929	2,940	2,944	2,953	2,949	2,956
Automotive dealers and service stations .....	1,937	1,943	1,949	1,958	1,960	1,963	1,970	1,978	1,979	1,979	1,978	1,977	1,982
Eating and drinking places .....	5,870	5,887	5,904	5,911	5,919	5,927	5,938	5,946	5,956	5,964	5,962	5,978	5,981
<b>Finance, insurance, and real estate</b> .....	6,287	6,323	6,351	6,374	6,395	6,418	6,451	6,480	6,501	6,526	6,558	6,576	6,585
Finance .....	3,149	3,167	3,183	3,193	3,204	3,212	3,227	3,235	3,243	3,256	3,272	3,276	3,280
Insurance .....	1,939	1,952	1,961	1,971	1,980	1,990	1,999	2,012	2,016	2,022	2,032	2,038	2,039
Real estate .....	1,199	1,204	1,207	1,210	1,211	1,216	1,225	1,233	1,242	1,248	1,254	1,262	1,266
<b>Services</b> .....	23,080	23,202	23,284	23,317	23,369	23,452	23,544	23,670	23,759	23,842	23,926	23,997	24,044
Business services .....	4,770	4,798	4,815	4,835	4,861	4,877	4,912	4,950	4,984	5,020	5,044	5,078	5,095
Health services .....	6,533	6,563	6,594	6,615	6,644	6,661	6,691	6,721	6,748	6,773	6,800	6,819	6,845
<b>Government</b> .....	16,653	16,610	16,647	16,798	16,872	16,900	16,924	16,936	16,935	16,977	17,038	17,014	17,042
Federal .....	2,878	2,872	2,882	2,902	2,897	2,900	2,904	2,912	2,916	2,922	2,933	2,924	2,906
State .....	3,882	3,881	3,881	3,890	3,907	3,915	3,927	3,929	3,927	3,930	3,943	3,941	3,950
Local .....	9,893	9,857	9,884	10,006	10,068	10,085	10,093	10,095	10,092	10,125	10,162	10,149	10,186

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(in thousands)

Industry	1986									1987			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>Total</b> .....	45,220	45,392	45,453	45,661	45,801	45,960	46,111	46,229	46,358	46,517	46,654	46,766	46,937
<b>Total private</b> .....	36,863	37,006	37,055	37,258	37,382	37,436	37,547	37,653	37,767	37,909	38,057	38,133	38,271
<b>Goods-producing</b> .....	6,797	6,796	6,783	6,797	6,796	6,800	6,813	6,826	6,842	6,838	6,843	6,846	6,863
<b>Mining</b> .....	111	108	107	105	103	101	100	99	98	97	97	96	97
<b>Construction</b> .....	497	501	502	507	508	511	513	516	519	522	524	526	530
<b>Manufacturing</b> .....	6,189	6,187	6,174	6,185	6,185	6,188	6,200	6,211	6,225	6,219	6,222	6,224	6,236
<b>Durable goods</b> .....	2,982	2,981	2,968	2,975	2,979	2,979	2,981	2,983	2,985	2,979	2,983	2,978	2,980
Lumber and wood products .....	109	109	110	111	112	112	113	113	115	115	115	117	117
Furniture and fixtures .....	154	155	155	155	155	155	155	155	155	156	156	157	157
Stone, clay, and glass products .....	113	113	114	113	113	113	112	112	113	114	113	113	114
Primary metal industries .....	100	100	99	99	99	100	100	100	99	99	100	100	100
Fabricated metal products .....	319	319	320	319	320	320	320	321	321	320	320	320	322
Machinery, except electrical .....	453	451	449	448	445	443	443	442	441	440	441	441	444
Electrical and electronic equipment .....	884	885	872	885	886	885	886	885	884	880	876	870	868
Transportation equipment .....	377	377	378	378	381	382	384	387	389	388	392	392	391
Instruments and related products .....	306	305	304	303	303	303	302	301	301	300	300	299	299
Miscellaneous manufacturing .....	167	167	167	164	165	166	166	167	167	167	168	169	168
<b>Nondurable goods</b> .....	3,207	3,206	3,206	3,210	3,206	3,209	3,219	3,228	3,240	3,240	3,239	3,246	3,256
Food and kindred products .....	504	505	507	506	504	505	508	513	514	514	514	517	518
Tobacco manufactures .....	21	20	20	20	19	20	19	20	19	19	19	19	18
Textile mill products .....	340	342	342	345	345	344	345	347	349	349	350	352	351
Apparel and other textile products .....	890	888	884	887	883	882	883	881	889	883	878	878	880
Paper and allied products .....	163	163	163	163	163	164	164	165	165	165	165	165	165
Printing and publishing .....	613	614	617	620	621	623	626	628	629	632	634	636	640
Chemicals and allied products .....	286	286	287	287	287	287	288	288	287	289	290	290	291
Petroleum and coal products .....	27	26	26	26	26	25	25	25	25	24	24	24	24
Rubber and misc. plastics products .....	272	272	272	269	271	272	275	275	276	278	278	278	281
Leather and leather products .....	91	90	88	87	87	87	86	86	87	87	87	87	88
<b>Service-producing</b> .....	38,423	38,596	38,670	38,864	39,005	39,160	39,298	39,403	39,516	39,679	39,811	39,920	40,074
<b>Transportation and public utilities</b> .....	1,480	1,488	1,441	1,481	1,465	1,486	1,487	1,496	1,501	1,507	1,510	1,517	1,520
<b>Wholesale trade</b> .....	1,668	1,676	1,665	1,672	1,675	1,675	1,673	1,673	1,675	1,682	1,691	1,695	1,695
<b>Retail trade</b> .....	9,316	9,350	9,373	9,403	9,452	9,456	9,484	9,501	9,504	9,547	9,607	9,603	9,636
<b>Finance, insurance, and real estate</b> .....	3,846	3,873	3,898	3,922	3,944	3,961	3,978	3,996	4,016	4,036	4,053	4,064	4,087
<b>Services</b> .....	13,756	13,823	13,895	13,983	14,050	14,058	14,112	14,161	14,229	14,299	14,353	14,408	14,470
<b>Government</b> .....	8,357	8,386	8,398	8,403	8,419	8,524	8,564	8,576	8,591	8,608	8,597	8,633	8,666
Federal .....	1,037	1,032	1,023	1,019	1,024	1,033	1,032	1,033	1,035	1,037	1,038	1,041	1,043
State .....	1,834	1,840	1,845	1,849	1,850	1,852	1,861	1,865	1,869	1,878	1,871	1,883	1,890
Local .....	5,486	5,514	5,530	5,535	5,545	5,639	5,671	5,678	5,687	5,693	5,688	5,709	5,733

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>Total private</b> .....	66,845	67,123	67,254	67,348	67,411	67,570	67,665	67,939	68,149	68,263	68,419	68,463	68,546
<b>Goods-producing</b> .....	17,234	17,238	17,265	17,252	17,238	17,270	17,283	17,331	17,379	17,380	17,375	17,363	17,391
<b>Mining</b> .....	534	534	524	518	516	514	510	504	508	511	518	525	521
<b>Construction</b> .....	3,842	3,861	3,884	3,883	3,873	3,877	3,867	3,943	3,955	3,944	3,918	3,885	3,888
<b>Manufacturing</b> .....	12,858	12,843	12,857	12,851	12,849	12,879	12,906	12,884	12,916	12,925	12,939	12,953	12,982
<b>Durable goods</b> .....	7,403	7,386	7,399	7,382	7,369	7,385	7,393	7,370	7,398	7,399	7,406	7,415	7,437
Lumber and wood products .....	595	590	598	601	603	607	611	611	614	615	617	619	616
Furniture and fixtures .....	397	397	398	399	399	398	398	400	400	402	403	408	408
Stone, clay, and glass products .....	452	450	449	450	448	449	451	452	454	453	453	453	452
Primary metal industries .....	562	559	549	546	546	547	547	540	547	553	559	557	560
Blast furnaces and basic steel products .....	215	214	201	195	197	194	193	188	194	199	205	205	205
Fabricated metal products .....	1,057	1,048	1,051	1,052	1,050	1,049	1,052	1,051	1,051	1,051	1,053	1,050	1,056
Machinery, except electrical .....	1,231	1,224	1,221	1,203	1,195	1,190	1,187	1,183	1,190	1,190	1,198	1,204	1,212
Electrical and electronic equipment .....	1,204	1,228	1,229	1,226	1,226	1,230	1,234	1,226	1,223	1,218	1,216	1,217	1,216
Transportation equipment .....	1,260	1,248	1,261	1,261	1,261	1,273	1,267	1,265	1,276	1,273	1,265	1,265	1,274
Motor vehicles and equipment .....	664	649	660	659	652	663	658	659	668	663	657	655	660
Instruments and related products .....	382	380	381	382	380	379	379	377	377	376	376	375	376
Miscellaneous manufacturing .....	263	262	262	262	261	263	267	265	266	268	266	267	267
<b>Nondurable goods</b> .....	5,455	5,457	5,458	5,469	5,480	5,494	5,513	5,514	5,518	5,526	5,533	5,538	5,545
Food and kindred products .....	1,138	1,137	1,135	1,138	1,139	1,146	1,149	1,147	1,150	1,154	1,158	1,155	1,150
Tobacco manufactures .....	45	45	43	44	44	45	44	44	44	44	43	44	43
Textile mill products .....	608	610	612	612	615	619	621	624	627	630	628	631	632
Apparel and other textile products .....	926	929	928	928	929	927	937	931	925	926	929	927	933
Paper and allied products .....	511	510	508	512	514	515	517	515	516	515	514	514	513
Printing and publishing .....	818	821	822	824	827	828	830	833	833	832	832	835	839
Chemicals and allied products .....	568	569	570	569	568	568	566	568	569	570	569	572	571
Petroleum and coal products .....	106	106	106	105	105	105	105	106	106	106	106	107	108
Rubber and misc. plastics products .....	612	608	612	616	618	620	622	623	625	626	629	628	631
Leather and leather products .....	123	122	122	121	121	121	122	123	123	123	125	125	125
<b>Service-producing</b> .....	49,611	49,885	49,989	50,096	50,173	50,300	50,382	50,608	50,770	50,883	51,044	51,100	51,155
<b>Transportation and public utilities</b> .....	4,236	4,318	4,290	4,344	4,342	4,368	4,380	4,389	4,401	4,419	4,428	4,430	4,440
<b>Wholesale trade</b> .....	4,579	4,601	4,602	4,598	4,590	4,586	4,583	4,600	4,611	4,617	4,622	4,621	4,620
<b>Retail trade</b> .....	15,869	15,911	15,953	15,977	16,013	16,035	16,030	16,097	16,141	16,132	16,189	16,192	16,190
<b>Finance, insurance, and real estate</b> .....	4,647	4,679	4,699	4,712	4,726	4,743	4,767	4,786	4,806	4,823	4,840	4,846	4,848
<b>Services</b> .....	20,280	20,376	20,445	20,465	20,502	20,568	20,622	20,736	20,811	20,892	20,965	21,011	21,057

<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 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

**ESTABLISHMENT DATA  
INDEXES OF DIFFUSION  
SEASONALLY ADJUSTED**

**B-7. Indexes of diffusion: Percent of industries in which employment<sup>1</sup> increased, seasonally adjusted**

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1985.....	55.9	47.0	52.4	47.3	53.2	46.8	53.8	53.8	47.8	53.2	54.3	57.3
	1986.....	53.2	48.1	48.1	53.5	52.4	46.8	52.4	56.2	55.1	53.2	59.7	59.7
	1987.....	53.5	56.8	58.6	58.4	<sup>p</sup> 57.8	<sup>p</sup> 53.0						
Over 3-month span	1985.....	51.1	48.4	42.4	46.5	44.3	49.7	47.0	48.6	45.9	47.6	55.1	56.5
	1986.....	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	60.3
	1987.....	58.6	59.5	61.1	<sup>p</sup> 64.1	<sup>p</sup> 59.7							
Over 6-month span	1985.....	46.5	46.5	43.2	44.3	44.3	45.1	43.0	44.3	49.2	49.2	47.3	45.9
	1986.....	47.6	47.6	43.0	43.2	45.4	48.4	47.3	53.0	59.2	58.9	57.8	58.9
	1987.....	61.9	<sup>p</sup> 63.8	<sup>p</sup> 59.2									
Over 12-month span	1985.....	44.6	44.1	43.8	40.8	41.6	41.6	42.2	42.4	43.8	44.3	44.1	42.4
	1986.....	43.2	44.1	46.2	45.7	47.8	49.5	49.5	51.6	54.9	52.2	<sup>p</sup> 55.7	<sup>p</sup> 57.8
	1987.....												

Based on the number of employees, seasonally adjusted for 1, 3, and 6 month spans, on the payrolls of 185 private nonagricultural industries. Data for the 12-month span are unadjusted.

<sup>p</sup> = preliminary.

NOTE: Figures are the percent of industries with employment

rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward 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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Alabama</b> .....	1,465.9	1,482.2	1,486.3	12.5	11.6	11.3	75.2	76.9	77.3
Birmingham .....	381.8	390.2	390.7	6.3	5.9	6.0	23.2	24.7	24.9
Huntsville .....	117.1	119.9	120.5	.1	.1	.1	4.8	5.1	5.2
Mobile .....	158.9	159.0	159.1	.7	.4	.4	10.7	8.9	9.0
Montgomery .....	121.2	122.7	123.0	.1	.1	.1	9.1	9.5	9.6
Tuscaloosa .....	55.9	58.6	57.8	2.7	2.7	2.4	2.8	3.0	3.1
<b>Alaska</b> .....	224.6	210.9	216.9	8.5	8.4	8.3	13.0	10.4	11.9
<b>Arizona</b> .....	1,345.4	1,375.9	1,374.5	10.7	10.3	11.0	115.0	104.9	105.2
Phoenix .....	882.6	906.3	905.9	.5	.6	.6	80.3	70.7	70.8
Tucson .....	244.2	244.1	244.0	1.6	1.6	1.6	21.9	20.9	21.1
<b>Arkansas</b> .....	817.6	832.9	837.7	4.2	4.0	4.0	36.2	34.4	35.6
Fayetteville-Springdale .....	44.4	46.8	46.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.9	2.0
Fort Smith .....	72.4	73.7	74.4	.9	1.0	1.0	3.0	2.8	2.9
Little Rock-North Little Rock .....	225.6	226.9	228.5	.4	.4	.4	11.4	11.7	11.9
Pine Bluff .....	33.1	32.0	32.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	1.8	1.7
<b>California</b> .....	11,255.4	11,541.6	11,606.4	41.2	38.9	39.0	515.5	542.7	555.6
Anaheim-Santa Ana .....	1,039.8	1,078.5	1,086.4	2.3	2.0	2.0	52.4	56.1	57.3
Bakersfield .....	155.2	156.3	157.3	12.8	12.0	12.0	9.7	9.4	9.7
Fresno .....	195.0	202.2	204.6	.6	.7	.7	11.4	12.1	12.7
Los Angeles-Long Beach .....	3,910.6	3,988.2	4,006.1	10.8	10.3	10.4	127.0	131.9	133.8
Modesto .....	96.0	100.3	100.9	.1	.1	.1	6.4	6.4	6.4
Oakland .....	785.4	814.1	816.9	2.5	2.4	2.4	44.2	46.7	47.6
Oxnard-Ventura .....	192.3	199.9	200.6	3.0	2.5	2.5	10.2	11.4	11.5
Riverside-San Bernardino .....	560.4	591.1	595.6	1.2	1.3	1.3	43.8	46.9	49.8
Sacramento .....	516.9	536.2	540.6	.8	.7	.7	30.0	31.3	32.8
Salinas-Seaside-Monterey .....	101.8	105.1	106.4	.5	.5	.5	3.9	4.3	4.3
San Diego .....	819.8	848.1	854.1	.8	.8	.8	50.5	56.5	57.9
San Francisco .....	920.9	931.5	934.4	1.1	1.1	1.1	32.5	32.8	33.4
San Jose .....	769.9	768.8	771.5	.2	.1	.2	30.6	29.8	30.5
Santa Barbara-Santa Maria-Lompoc .....	144.1	145.9	146.6	1.3	1.4	1.4	6.3	6.2	6.2
Santa Rosa-Petaluma .....	117.9	120.5	122.4	.6	.6	.6	7.8	7.8	8.5
Stockton .....	134.7	137.5	139.6	.1	.1	.1	8.1	8.4	8.9
Vallejo-Fairfield-Napa .....	120.2	125.1	126.1	.3	.3	.3	7.8	8.2	8.7
<b>Colorado</b> .....	1,406.2	1,399.8	1,402.7	27.7	23.7	23.7	77.0	70.9	72.5
Boulder-Longmont .....	104.0	104.1	104.7	.3	.3	.3	4.3	3.6	3.7
Denver .....	808.5	806.4	811.9	18.0	15.9	15.8	42.7	39.2	40.1
<b>Connecticut</b> .....	1,605.8	1,638.6	1,649.4	1.7	1.6	1.7	71.1	70.1	73.6
Bridgeport-Milford .....	193.7	196.7	198.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.3	8.7
Hartford .....	459.1	473.4	476.5	.3	.3	.4	18.3	19.2	20.0
New Britain .....	65.5	65.8	66.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	4.0	4.3
New Haven-Meriden .....	244.8	249.9	251.6	.3	.3	.3	12.0	12.7	13.3
Stamford .....	121.9	125.4	126.5	.6	.6	.6	5.2	5.2	5.4
Waterbury .....	85.5	86.2	86.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	4.1	4.4
<b>Delaware</b> .....	303.0	311.7	315.5	.1	.1	.1	19.8	18.5	19.5
Wilmington .....	261.1	271.3	273.5	.2	.2	.2	18.3	17.2	18.0
<b>District of Columbia</b> .....	636.8	647.7	646.4	.1	.1	.1	13.9	13.8	13.8
Washington MSA .....	1,979.5	2,030.0	2,040.6	1.1	.9	1.0	121.0	121.7	123.9
<b>Florida</b> .....	4,583.8	4,797.4	4,797.3	9.6	9.9	9.9	338.2	337.4	338.4
Daytona Beach .....	106.5	111.1	111.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.7	8.1	8.3
Fort Lauderdale-Hollywood-Pompano Beach .....	441.4	454.7	453.1	.4	.4	.4	36.6	36.2	36.2
Fort Myers-Cape Coral .....	99.0	110.5	109.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.7	12.5	12.5
Gainesville .....	89.7	92.6	92.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.2	4.2
Jacksonville .....	373.4	386.3	387.9	.5	.5	.4	27.8	27.7	27.8
Lakeland-Winter Haven .....	133.1	142.8	142.0	4.3	4.7	4.8	8.1	9.1	9.0
Melbourne-Titusville-Palm Bay .....	138.9	138.3	138.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	7.9	7.9
Miami-Hialeah .....	800.0	808.2	807.8	.9	.9	.9	40.3	38.3	37.9
Orlando .....	442.2	473.4	473.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	33.6	33.8	33.9
Pensacola .....	121.4	122.6	122.7	.4	.3	.3	10.5	10.3	10.2
Sarasota .....	96.8	102.2	101.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.8	10.1	10.1
Tallahassee .....	101.8	107.4	107.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	5.8	6.0
Tampa-St. Petersburg-Clearwater .....	757.9	783.8	783.9	.7	.7	.7	60.3	62.7	63.0
West Palm Beach-Boca Raton-Delray Beach .....	297.2	321.5	319.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	26.3	29.9	29.9

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>Alabama</b> .....	360.0	355.8	357.1	71.4	71.6	71.6	317.9	326.9	328.7
Birmingham .....	55.6	52.8	52.7	27.5	27.9	28.0	94.8	98.7	99.0
Huntsville .....	31.2	30.5	30.5	2.6	2.7	2.6	22.2	22.7	23.0
Mobile .....	26.5	26.1	26.4	9.2	9.1	9.1	42.6	44.6	44.6
Montgomery .....	17.6	17.7	17.6	4.6	4.7	4.7	27.0	27.9	28.0
Tuscaloosa .....	8.6	9.5	9.3	2.0	2.1	2.1	11.4	11.9	11.9
<b>Alaska</b> .....	13.1	11.6	13.6	18.2	17.2	18.0	44.7	40.8	41.8
<b>Arizona</b> .....	183.8	184.1	184.2	64.7	69.8	69.4	324.5	333.5	332.8
Phoenix .....	131.5	133.2	133.4	42.9	46.5	46.6	220.9	228.3	227.7
Tucson .....	32.0	30.6	30.5	9.4	9.7	9.8	54.6	54.3	54.6
<b>Arkansas</b> .....	212.3	214.8	216.3	47.6	49.5	49.7	184.9	189.2	191.6
Fayetteville-Springdale .....	9.9	10.9	10.7	3.9	4.2	4.3	10.6	10.9	11.0
Fort Smith .....	24.8	25.6	25.7	3.5	3.8	3.7	15.7	14.8	15.2
Little Rock-North Little Rock .....	32.8	31.5	31.8	14.8	14.7	14.9	54.7	55.0	55.5
Pine Bluff .....	5.9	6.3	6.4	2.9	2.7	2.7	6.4	6.2	6.4
<b>California</b> .....	2,058.5	2,063.1	2,072.0	571.3	583.6	585.6	2,679.5	2,761.6	2,781.9
Anaheim-Santa Ana .....	242.0	243.5	244.4	34.0	34.7	34.8	256.5	271.9	274.8
Bakersfield .....	9.9	10.3	10.3	8.1	8.2	8.3	39.7	39.8	40.3
Fresno .....	20.1	20.5	20.7	10.1	10.4	10.4	50.3	51.8	52.3
Los Angeles-Long Beach .....	885.9	891.7	894.8	201.4	204.2	204.4	914.4	935.9	941.7
Modesto .....	19.9	20.7	21.0	4.2	4.2	4.2	24.0	25.7	25.9
Oakland .....	101.1	103.2	103.3	53.7	55.5	55.7	195.9	203.7	204.5
Oxnard-Ventura .....	28.3	29.2	29.1	9.3	10.4	10.6	48.3	50.4	50.9
Riverside-San Bernardino .....	73.5	77.7	78.6	30.5	31.4	31.7	139.7	145.7	146.8
Sacramento .....	37.4	38.8	39.3	23.3	24.2	24.3	125.4	129.2	130.5
Salinas-Seaside-Monterey .....	9.1	10.0	10.2	4.8	4.9	4.9	27.1	27.3	27.6
San Diego .....	122.3	120.0	120.1	32.3	32.8	32.8	195.1	201.6	203.4
San Francisco .....	78.0	76.0	76.6	79.3	79.2	79.0	210.5	216.8	217.5
San Jose .....	266.7	258.0	258.4	21.1	21.1	21.2	148.6	152.0	152.6
Santa Barbara-Santa Maria-Lompoc .....	24.2	22.8	22.9	5.3	5.3	5.2	33.9	34.8	35.0
Santa Rosa-Petaluma .....	17.8	18.1	18.0	5.5	5.7	5.9	30.3	31.6	32.1
Stockton .....	20.7	21.8	22.0	8.6	8.3	8.5	31.6	31.5	32.4
Vallejo-Fairfield-Napa .....	11.8	12.0	12.0	4.5	4.5	4.5	28.7	30.6	30.9
<b>Colorado</b> .....	184.8	182.2	182.6	88.3	89.3	89.0	349.5	344.2	347.8
Boulder-Longmont .....	28.0	28.3	28.2	2.3	2.2	2.2	22.7	22.6	22.7
Denver .....	97.0	94.3	94.5	63.2	67.7	67.2	202.5	200.7	203.2
<b>Connecticut</b> .....	397.8	393.5	392.1	69.9	71.4	72.0	356.6	367.5	371.5
Bridgeport-Milford .....	60.4	60.5	60.5	7.5	7.5	7.5	44.2	44.9	45.5
Hartford .....	92.8	94.4	94.4	17.0	17.4	17.6	97.1	99.3	100.0
New Britain .....	22.7	20.7	20.6	3.3	3.3	3.3	12.9	13.5	13.6
New Haven-Meriden .....	47.5	47.5	47.1	18.0	18.2	18.3	56.3	57.7	58.4
Stamford .....	25.7	24.7	24.6	4.9	4.9	5.0	28.7	30.0	30.3
Waterbury .....	25.9	24.6	24.6	3.2	3.2	3.2	16.4	17.0	17.1
<b>Delaware</b> .....	67.2	68.4	68.9	12.7	12.8	12.8	67.8	69.5	71.3
Wilmington .....	57.4	58.6	58.9	13.7	13.9	14.1	55.0	57.5	57.9
<b>District of Columbia</b> .....	15.4	15.7	15.6	24.3	24.7	24.6	63.1	64.1	64.3
Washington MSA .....	85.0	84.6	84.2	93.4	97.8	98.3	397.3	408.2	412.4
<b>Florida</b> .....	516.5	523.9	525.1	244.7	248.5	249.5	1,227.5	1,311.9	1,309.4
Daytona Beach .....	12.4	12.8	12.9	3.3	3.3	3.3	31.0	32.7	32.5
Fort Lauderdale-Hollywood-Pompano Beach .....	43.0	44.0	44.2	21.3	22.1	22.2	130.5	134.4	134.0
Fort Myers-Cape Coral .....	5.0	5.6	5.7	4.6	5.1	5.1	29.4	33.9	33.4
Gainesville .....	5.3	5.5	5.6	1.7	1.7	1.7	19.4	20.7	20.6
Jacksonville .....	37.4	37.8	37.9	26.9	27.7	27.8	99.1	103.4	104.0
Lakeland-Winter Haven .....	20.7	21.6	21.6	6.0	6.1	6.0	36.9	40.4	39.7
Melbourne-Titusville-Palm Bay .....	27.9	26.9	27.1	5.6	5.5	5.5	31.7	32.5	32.3
Miami-Hialeah .....	93.8	92.7	92.5	67.0	66.3	66.2	211.8	217.1	217.7
Orlando .....	50.6	53.2	53.3	23.3	24.8	24.9	114.0	121.2	121.3
Pensacola .....	11.3	11.2	11.2	6.1	6.3	6.4	31.7	31.7	32.1
Sarasota .....	7.8	8.3	8.5	3.6	3.6	3.5	28.9	29.9	29.0
Tallahassee .....	4.4	4.7	4.7	2.9	2.9	3.0	20.8	22.6	22.7
Tampa-St. Petersburg-Clearwater .....	89.9	88.8	88.7	37.4	37.1	37.1	208.5	215.9	215.3
West Palm Beach-Boca Raton-Delray Beach .....	36.7	35.5	36.0	10.8	11.5	11.5	77.5	85.6	84.1

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 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>Alabama</b> .....	68.5	70.7	70.8	258.5	266.9	266.9	301.9	301.8	302.6
Birmingham .....	28.2	28.7	28.7	86.9	91.4	91.8	59.3	60.1	59.6
Huntsville .....	3.4	3.4	3.4	24.6	26.4	26.5	28.2	29.0	29.2
Mobile .....	7.7	7.5	7.3	33.7	34.2	34.2	27.8	28.2	28.1
Montgomery .....	7.2	7.3	7.3	24.1	24.3	24.3	31.5	31.2	31.4
Tuscaloosa .....	2.0	2.0	2.0	7.4	8.0	7.9	19.0	19.4	19.1
<b>Alaska</b> .....	12.8	12.1	11.9	44.1	42.1	42.7	70.2	68.3	68.7
<b>Arizona</b> .....	88.7	91.7	91.6	324.9	341.4	339.7	233.1	240.2	240.6
Phoenix .....	69.9	72.2	72.2	218.0	230.9	230.4	118.6	123.9	124.2
Tucson .....	12.3	12.9	12.8	61.0	63.2	62.5	51.4	50.9	51.1
<b>Arkansas</b> .....	37.4	37.9	38.2	147.1	153.4	154.1	147.9	149.7	148.2
Fayetteville-Springdale .....	1.5	1.4	1.4	6.3	6.7	6.8	10.3	10.8	10.4
Fort Smith .....	2.7	2.7	2.7	14.3	15.6	15.9	7.5	7.4	7.3
Little Rock-North Little Rock .....	15.2	15.5	15.6	50.4	52.1	52.3	45.9	46.0	46.1
Pine Bluff .....	1.6	1.7	1.7	5.7	5.9	5.9	7.2	7.4	7.2
<b>California</b> .....	764.6	784.1	787.2	2,754.9	2,862.6	2,874.1	1,869.9	1,905.0	1,911.0
Anaheim-Santa Ana .....	83.3	84.5	84.9	253.5	268.1	270.6	115.8	117.7	117.6
Bakersfield .....	6.4	6.3	6.3	30.2	31.3	31.4	38.4	39.0	39.0
Fresno .....	13.5	14.0	14.1	43.8	46.5	47.1	45.2	46.2	46.6
Los Angeles-Long Beach .....	274.1	280.1	281.5	1,000.6	1,033.0	1,035.6	496.4	501.1	503.9
Modesto .....	4.5	4.6	4.6	20.6	21.4	21.6	16.3	17.2	17.1
Oakland .....	50.8	54.7	54.9	177.7	185.4	185.3	159.5	162.5	163.2
Oxnard-Ventura .....	10.3	10.6	10.6	42.7	44.5	44.7	40.2	40.9	40.7
Riverside-San Bernardino .....	23.8	25.0	25.2	130.5	139.0	139.2	117.4	124.1	123.0
Sacramento .....	30.7	31.9	32.2	107.8	113.1	113.3	161.5	167.0	167.5
Salinas-Seaside-Monterey .....	5.0	5.1	5.2	24.9	25.8	26.0	26.5	27.2	27.7
San Diego .....	56.0	58.0	58.3	210.0	221.4	223.1	152.8	157.0	157.7
San Francisco .....	114.1	112.5	112.4	268.6	273.9	275.3	136.8	139.2	139.1
San Jose .....	33.2	33.3	33.0	185.1	189.8	190.7	84.4	84.7	84.9
Santa Barbara-Santa Maria-Lompoc .....	8.0	8.1	8.2	38.0	39.4	39.8	27.1	27.9	27.9
Santa Rosa-Petaluma .....	7.9	8.2	8.2	26.1	26.6	27.1	21.9	21.9	22.0
Stockton .....	8.0	8.3	8.3	28.4	28.4	28.6	29.2	30.7	30.8
Vallejo-Fairfield-Napa .....	4.6	4.8	4.8	25.8	27.7	27.8	36.7	37.0	37.1
<b>Colorado</b> .....	96.8	97.6	97.0	324.1	328.0	326.4	258.0	263.9	263.7
Boulder-Longmont .....	3.8	3.9	3.9	20.8	21.6	21.8	21.8	21.6	21.9
Denver .....	65.5	65.3	65.5	198.3	197.5	199.9	121.3	125.8	125.7
<b>Connecticut</b> .....	138.4	145.0	145.5	372.7	386.3	390.1	197.6	203.2	202.9
Bridgeport-Milford .....	10.4	11.3	11.4	44.4	45.8	46.4	19.0	18.4	18.4
Hartford .....	73.3	77.9	78.0	102.1	105.8	106.9	58.2	59.1	59.2
New Britain .....	3.6	4.0	4.1	12.7	13.4	13.5	6.5	6.9	6.6
New Haven-Meriden .....	14.5	14.9	15.0	65.3	67.6	68.1	30.9	31.0	31.1
Stamford .....	10.9	11.7	11.7	35.9	38.1	38.7	10.0	10.2	10.2
Waterbury .....	4.0	4.1	4.1	20.2	20.9	21.2	11.9	12.3	12.3
<b>Delaware</b> .....	22.6	24.7	24.9	66.6	70.3	71.0	46.2	47.5	47.1
Wilmington .....	20.5	22.7	22.9	59.2	63.0	63.6	36.8	38.3	37.9
<b>District of Columbia</b> .....	36.0	37.2	37.2	218.9	229.2	228.0	265.1	263.0	262.7
Washington MSA .....	113.4	118.9	119.6	611.7	636.2	638.5	556.4	561.6	562.8
<b>Florida</b> .....	339.2	353.3	354.1	1,200.4	1,278.9	1,276.4	707.7	733.6	734.5
Daytona Beach .....	6.5	6.6	6.6	28.2	29.4	29.1	17.4	18.2	18.4
Fort Lauderdale-Hollywood-Pompano Beach .....	36.5	37.9	37.7	118.2	122.8	121.7	54.9	56.9	56.7
Fort Myers-Cape Coral .....	7.6	8.4	8.5	26.2	29.4	29.0	14.4	15.4	15.4
Gainesville .....	4.1	3.9	4.0	19.8	21.1	21.2	34.5	35.4	34.9
Jacksonville .....	35.1	36.4	36.6	90.4	94.2	94.9	56.2	58.6	58.5
Lakeland-Winter Haven .....	8.0	7.9	7.9	30.6	34.0	34.0	18.5	19.0	19.0
Melbourne-Titusville-Palm Bay .....	5.1	5.2	5.2	39.6	39.9	40.3	19.8	20.3	20.4
Miami-Hialeah .....	67.3	69.2	69.2	214.5	216.0	215.5	104.4	107.7	107.9
Orlando .....	29.8	32.0	32.3	140.3	153.7	153.8	50.5	54.6	54.3
Pensacola .....	5.4	5.6	5.6	28.8	29.4	29.4	27.2	27.8	27.5
Sarasota .....	7.9	8.0	8.1	27.1	30.0	29.7	11.7	12.2	12.2
Tallahassee .....	4.5	4.5	4.5	20.3	21.0	21.1	43.5	45.6	45.4
Tampa-St. Petersburg-Clearwater .....	61.3	63.4	63.3	203.3	214.4	214.5	96.5	100.9	101.3
West Palm Beach-Boca Raton-Delray Beach .....	25.2	27.3	27.3	83.9	92.7	91.4	36.8	39.0	39.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>Georgia</b> .....	2,663.1	2,748.5	2,754.0	8.1	8.8	8.8	154.2	157.4	156.8
Albany .....	48.2	48.7	48.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.1	2.1
Athens .....	61.3	63.2	63.6	.1	.2	.2	2.7	2.6	2.8
Atlanta .....	1,319.0	1,378.6	1,384.1	1.3	1.8	1.8	75.2	79.9	78.6
Augusta .....	150.2	151.9	151.6	.5	.5	.5	9.0	8.4	8.5
Columbus .....	89.5	90.6	90.5	.1	.1	.1	5.3	5.2	5.3
Macon-Warner Robins .....	116.5	117.4	117.6	.1	.1	.1	5.2	5.1	5.1
Savannah .....	98.9	101.3	101.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	7.1	7.1
<b>Hawaii</b> .....	436.2	450.9	451.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.6	21.6	21.9
Honolulu .....	350.3	362.3	361.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	17.8	18.0
<b>Idaho</b> .....	333.4	336.9	341.2	2.9	2.5	2.6	14.3	13.9	15.0
Boise City .....	86.7	87.6	88.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.9	4.7	4.8
<b>Illinois</b> .....	4,767.9	4,831.3	4,850.1	25.2	23.9	24.3	178.1	166.9	176.6
Aurora-Elgin .....	129.4	133.9	135.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	5.2	5.5
Bloomington-Normal .....	52.3	54.4	54.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.2	1.3
Champaign-Urbana-Rantoul .....	83.6	83.8	83.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.0	2.0
Chicago .....	2,937.3	2,970.3	2,985.1	3.2	3.4	3.4	112.0	113.5	119.1
Davenport-Rock Island-Moline .....	154.3	154.3	154.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.7	4.9
Decatur .....	50.3	49.3	49.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.6	1.6
Joliet .....	94.7	93.0	93.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	3.9	4.2
Kankakee .....	32.0	32.6	32.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.2	1.2
Lake County .....	175.7	176.7	179.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	5.8	6.3
Peoria .....	129.7	131.1	131.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	5.3	5.4
Rockford .....	123.0	121.2	121.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.4	3.7
Springfield .....	93.3	92.5	92.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.1	2.3
<b>Indiana</b> .....	2,234.3	2,289.7	2,316.4	9.1	8.2	8.5	93.9	104.8	111.6
Anderson .....	48.7	47.8	47.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.3	1.3	1.4
Bloomington .....	48.3	51.7	50.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	1.9	2.1
Elkhart-Goshen .....	92.5	96.0	97.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.4	2.6	2.8
Evansville .....	124.0	124.5	125.1	2.4	2.2	2.2	8.3	8.5	8.7
Fort Wayne .....	176.2	180.0	182.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.5	8.5	9.1
Gary-Hammond .....	213.4	214.3	216.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.7	11.9	12.2
Indianapolis .....	579.5	593.6	602.3	.8	.8	.8	28.2	30.6	32.0
Kokomo .....	44.2	44.3	44.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.2	1.1	1.2
Lafayette .....	58.6	63.2	60.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	2.3	2.5
Muncie .....	49.9	50.2	50.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	1.9	2.0
South Bend-Mishawaka .....	106.7	109.1	110.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.5	4.9	5.1
Terre Haute .....	51.9	52.5	51.7	.5	.4	.4	1.8	1.7	1.8
<b>Iowa</b> .....	1,088.9	1,101.6	1,111.3	2.1	2.0	2.2	36.2	35.6	39.7
Cedar Rapids .....	83.0	82.6	83.2	.2	.1	.2	3.0	3.5	3.5
Des Moines .....	197.2	201.5	204.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	6.6	7.0
Dubuque .....	41.3	42.0	42.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.1	1.2
Iowa City .....	50.0	49.8	50.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.7
Sioux City .....	49.1	48.5	48.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.8	1.8
Waterloo-Cedar Falls .....	59.8	60.9	61.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.6	1.6
<b>Kansas</b> .....	989.3	997.0	999.3	11.8	11.5	11.6	45.3	41.0	42.7
Lawrence .....	31.1	31.9	31.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.1	1.2
Topeka .....	84.0	85.1	85.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.6	3.7
Wichita .....	207.0	211.1	213.8	2.2	2.2	2.2	10.3	10.5	11.5
<b>Kentucky</b> .....	1,284.7	1,300.9	1,309.8	40.8	39.1	39.4	57.7	59.6	62.0
Lexington-Fayette .....	169.1	172.9	173.5	.9	1.0	1.0	9.6	11.7	12.7
Louisville .....	422.6	423.7	429.3	.7	.7	.7	20.9	20.8	22.3
Owensboro .....	32.9	32.4	32.5	.9	1.0	1.1	1.9	1.8	2.0
<b>Louisiana</b> .....	1,533.9	1,489.1	1,492.7	62.2	58.2	58.6	90.8	83.1	83.8
Alexandria .....	45.4	45.7	45.9	.2	.2	.2	2.7	2.6	2.7
Baton Rouge .....	215.1	213.0	213.5	1.0	1.0	1.0	20.3	19.9	20.0
Houma-Thibodaux .....	56.0	51.6	52.4	6.3	5.9	6.0	2.0	1.4	1.5
Lafayette .....	88.8	82.5	82.4	12.0	11.1	11.1	3.7	3.0	3.0
Lake Charles .....	57.7	57.3	57.4	1.4	1.3	1.3	5.3	5.0	5.0
Monroe .....	55.8	54.4	54.7	.5	.6	.6	3.3	2.9	3.1
New Orleans .....	524.1	508.7	509.3	16.8	16.6	16.8	25.6	22.9	23.0
Shreveport .....	136.1	131.0	131.7	3.8	3.1	3.2	7.7	7.7	7.9
<b>Maine</b> .....	474.5	486.4	493.9	.1	.1	.1	27.3	28.7	30.7
Lewiston-Auburn .....	38.2	38.4	39.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.7	1.9
Portland .....	115.3	117.3	118.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	7.2	7.5

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 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>Georgia</b> .....	563.3	567.3	568.8	166.2	167.9	169.0	662.4	692.9	694.8
Albany .....	8.5	8.5	8.5	2.2	2.1	2.2	12.4	12.6	12.4
Athens .....	15.0	15.4	15.4	1.7	1.7	1.7	12.3	12.6	12.8
Atlanta .....	192.7	192.0	193.5	108.3	110.2	110.8	362.5	384.5	385.1
Augusta .....	36.1	36.1	36.1	5.0	5.1	5.1	32.4	33.3	33.2
Columbus .....	20.1	19.7	19.6	3.4	3.4	3.4	18.8	20.3	20.3
Macon-Warner Robins .....	19.2	19.2	19.3	4.9	5.1	5.1	25.4	25.2	25.2
Savannah .....	16.6	16.9	16.9	9.3	9.7	9.8	24.0	23.9	23.7
<b>Hawaii</b> .....	22.2	21.8	21.8	34.0	34.4	34.4	115.9	118.9	118.7
Honolulu .....	16.5	16.0	16.1	27.8	28.0	27.9	91.1	93.7	93.4
<b>Idaho</b> .....	51.3	52.5	53.6	18.7	18.3	18.5	83.2	83.2	84.6
Boise City .....	10.2	10.4	10.7	5.5	5.6	5.7	22.0	22.2	22.6
<b>Illinois</b> .....	922.7	926.6	927.3	278.4	280.8	282.1	1,176.3	1,210.4	1,221.0
Aurora-Elgin .....	35.3	36.1	36.1	4.7	5.0	5.1	35.7	36.6	36.9
Bloomington-Normal .....	4.4	4.9	5.1	3.2	2.9	2.9	12.4	12.5	12.5
Champaign-Urbana-Rantoul .....	7.7	7.8	7.9	2.3	2.0	2.0	19.1	19.3	19.2
Chicago .....	546.7	538.7	536.3	185.9	189.5	191.9	728.4	737.9	743.9
Davenport-Rock Island-Moline .....	33.8	33.9	34.0	8.4	8.2	8.3	42.2	42.3	42.3
Decatur .....	14.7	13.5	13.4	4.6	4.5	4.6	10.8	11.0	11.0
Joliet .....	19.7	19.1	19.1	8.8	8.4	8.4	22.2	22.3	22.3
Kankakee .....	5.2	5.3	5.4	1.5	1.4	1.4	8.1	8.1	8.1
Lake County .....	40.5	39.4	39.5	6.5	6.5	6.6	44.7	45.0	45.8
Peoria .....	31.6	30.5	30.7	6.6	6.6	6.6	32.6	33.0	33.1
Rockford .....	45.1	42.9	43.0	4.6	4.5	4.4	28.1	28.3	28.3
Springfield .....	3.9	3.8	3.8	4.7	4.7	4.7	19.3	19.3	19.3
<b>Indiana</b> .....	607.2	603.3	606.2	113.0	114.1	115.6	524.2	546.2	554.1
Anderson .....	18.6	17.3	17.0	1.4	1.4	1.4	10.6	10.9	11.1
Bloomington .....	7.9	8.4	8.4	1.7	1.7	1.7	11.1	11.9	11.9
Elkhart-Goshen .....	49.6	51.7	52.3	2.8	2.8	2.8	17.5	18.1	18.5
Evansville .....	31.9	30.5	30.3	6.5	6.4	6.5	30.4	31.2	31.4
Fort Wayne .....	48.4	49.0	49.5	11.5	11.6	11.8	43.2	44.3	45.1
Gary-Hammond .....	56.4	53.7	54.1	13.9	13.7	13.8	50.0	50.7	51.5
Indianapolis .....	107.2	106.5	106.5	33.9	35.9	36.2	147.5	150.8	153.0
Kokomo .....	19.5	19.0	18.7	1.4	1.4	1.4	9.4	9.7	9.9
Lafayette .....	11.5	11.3	11.3	1.6	1.6	1.6	12.4	12.7	12.8
Muncie .....	10.9	10.7	10.7	2.3	2.2	2.3	12.0	12.2	12.2
South Bend-Mishawaka .....	23.5	23.9	23.8	4.7	4.8	4.9	27.5	28.1	28.6
Terre Haute .....	10.7	10.1	10.1	2.6	2.6	2.6	13.9	13.9	14.0
<b>Iowa</b> .....	203.9	208.9	209.3	51.3	52.8	52.7	276.7	278.7	280.4
Cedar Rapids .....	22.3	22.1	22.3	4.1	4.1	4.0	20.2	20.1	20.4
Des Moines .....	21.7	22.9	22.8	11.8	11.9	12.0	51.6	51.4	52.0
Dubuque .....	12.1	11.9	12.1	1.6	1.6	1.6	9.2	9.8	9.9
Iowa City .....	3.6	3.9	3.9	1.1	1.3	1.3	9.2	9.1	9.2
Sioux City .....	10.2	8.0	8.1	3.3	3.5	3.6	12.1	12.2	12.4
Waterloo-Cedar Falls .....	12.6	13.1	13.1	1.8	1.7	1.7	14.2	14.2	14.5
<b>Kansas</b> .....	176.6	179.2	177.6	62.9	62.7	62.7	246.2	246.7	250.1
Lawrence .....	4.5	4.4	4.4	1.3	1.3	1.4	6.6	6.8	6.8
Topeka .....	9.6	9.5	9.4	6.8	6.6	6.6	18.6	18.9	19.2
Wichita .....	55.5	57.9	58.6	9.9	9.9	9.9	49.8	49.6	50.3
<b>Kentucky</b> .....	253.8	255.7	256.9	66.5	69.9	70.5	301.5	300.9	302.4
Lexington-Fayette .....	28.3	27.6	27.6	7.7	7.6	7.6	39.3	40.5	40.5
Louisville .....	86.3	86.2	85.8	25.9	26.0	26.2	104.7	101.5	103.7
Owensboro .....	5.8	5.4	5.4	2.2	2.3	2.3	8.4	7.9	7.9
<b>Louisiana</b> .....	167.5	165.7	166.0	107.0	105.3	105.7	373.0	354.9	356.7
Alexandria .....	3.3	3.4	3.4	2.2	2.4	2.4	10.8	10.7	10.9
Baton Rouge .....	19.2	18.7	18.7	10.5	10.5	10.5	51.9	52.1	52.5
Houma-Thibodaux .....	5.1	4.0	4.3	6.0	5.8	5.9	14.1	13.2	13.2
Lafayette .....	6.0	5.7	5.7	6.9	6.4	6.5	23.9	21.7	21.7
Lake Charles .....	8.7	10.0	10.3	3.8	3.5	3.6	14.0	13.6	13.5
Monroe .....	7.3	7.2	7.2	2.9	2.6	2.5	15.2	14.6	14.8
New Orleans .....	43.6	42.9	43.2	43.8	41.7	41.6	138.7	132.4	132.6
Shreveport .....	19.0	18.6	18.3	8.3	8.1	8.2	32.3	29.9	29.5
<b>Maine</b> .....	103.1	100.7	101.6	19.0	19.4	19.7	115.1	117.5	121.4
Lewiston-Auburn .....	10.3	9.9	10.1	1.4	1.4	1.4	8.9	9.2	9.1
Portland .....	16.7	15.9	15.7	5.8	6.1	6.1	33.3	34.1	34.9

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	Finance, insurance, and real estate			Services			Government		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Georgia</b> .....	144.2	149.5	149.9	501.3	535.6	535.0	463.5	469.0	470.9
Albany .....	2.5	2.5	2.5	7.9	8.2	8.1	12.5	12.7	12.7
Athens .....	1.9	2.0	2.0	8.9	9.4	9.5	18.6	19.1	19.2
Atlanta .....	93.7	97.1	97.5	300.2	323.5	325.6	185.1	189.7	191.2
Augusta .....	5.7	6.0	6.1	28.9	28.8	28.7	32.5	33.7	33.5
Columbus .....	6.1	6.1	6.1	15.5	15.6	15.6	20.2	20.2	20.0
Macon-Warner Robins .....	7.3	7.5	7.5	20.6	21.0	21.0	33.8	34.2	34.2
Savannah .....	4.5	4.3	4.3	22.4	23.0	23.0	15.4	16.4	16.4
<b>Hawaii</b> .....	32.7	33.4	33.5	118.2	123.0	123.4	95.6	97.8	97.4
Honolulu .....	27.6	28.2	28.3	92.0	95.9	96.0	80.9	82.7	82.2
<b>Idaho</b> .....	23.9	24.0	24.1	66.7	68.5	68.1	72.4	74.0	74.7
Boise City .....	8.7	8.6	8.6	18.7	18.9	18.9	16.7	17.2	17.2
<b>Illinois</b> .....	345.8	349.5	352.2	1,120.1	1,140.5	1,142.9	721.3	732.7	723.7
Aurora-Elgin .....	6.9	6.9	6.8	27.1	29.0	29.4	14.6	15.0	15.1
Bloomington-Normal .....	9.2	9.3	9.3	11.0	11.3	11.3	10.9	12.3	11.7
Champaign-Urbana-Rantoul .....	3.2	3.3	3.3	14.4	14.6	14.5	34.9	34.8	34.9
Chicago .....	249.3	252.9	255.1	752.7	770.3	772.9	359.1	364.1	362.5
Davenport-Rock Island-Moline .....	7.7	8.0	8.0	29.9	30.0	30.0	27.5	27.2	27.2
Decatur .....	2.8	2.7	2.7	10.2	10.4	10.4	5.6	5.6	5.6
Joliet .....	3.8	3.8	3.8	19.3	19.1	19.3	16.5	16.2	16.2
Kankakee .....	1.6	1.6	1.6	8.0	8.3	8.1	6.5	6.7	6.7
Lake County .....	6.5	6.4	6.4	40.5	43.3	44.4	29.5	29.6	29.8
Peoria .....	6.9	7.1	7.1	32.1	32.3	32.3	16.4	16.3	16.2
Rockford .....	5.4	5.4	5.4	24.0	24.2	24.2	12.2	12.5	12.4
Springfield .....	7.9	7.9	8.0	23.8	22.6	22.6	31.2	32.0	32.0
<b>Indiana</b> .....	110.1	113.5	114.3	432.2	442.8	449.3	344.7	356.7	356.8
Anderson .....	1.6	1.6	1.6	9.3	9.6	9.4	5.9	5.8	6.0
Bloomington .....	1.6	1.7	1.7	7.7	7.9	7.9	16.5	18.2	17.1
Elkhart-Goshen .....	2.3	2.4	2.4	12.4	12.9	13.0	5.5	5.6	5.6
Evansville .....	4.9	5.0	5.0	27.9	28.8	29.1	11.7	11.9	11.9
Fort Wayne .....	11.5	11.8	11.7	35.6	36.9	37.3	17.5	17.9	17.9
Gary-Hammond .....	8.0	8.2	8.2	43.9	45.5	45.8	30.5	30.6	30.7
Indianapolis .....	43.0	44.2	44.7	130.6	135.0	139.4	88.3	89.9	89.8
Kokomo .....	1.4	1.4	1.4	6.0	6.2	6.3	5.3	5.6	5.7
Lafayette .....	2.9	3.0	3.0	10.9	11.3	11.3	17.5	21.2	17.9
Muncie .....	1.6	1.6	1.6	10.0	10.0	10.2	11.3	11.5	11.5
South Bend-Mishawaka .....	5.5	5.7	5.7	29.6	30.3	30.5	11.4	11.5	11.4
Terre Haute .....	1.9	1.9	1.9	10.7	11.1	11.0	9.8	10.8	9.9
<b>Iowa</b> .....	62.8	63.9	64.2	240.7	243.5	245.0	215.2	216.2	217.8
Cedar Rapids .....	4.7	4.5	4.5	17.9	18.4	18.3	10.6	9.8	10.0
Des Moines .....	25.1	26.6	26.7	49.6	51.7	52.8	29.8	30.3	30.7
Dubuque .....	1.4	1.5	1.5	12.2	12.6	12.6	3.6	3.5	3.5
Iowa City .....	1.4	1.6	1.6	7.9	7.9	8.1	25.4	24.4	24.5
Sioux City .....	2.6	2.6	2.6	12.8	13.8	13.7	6.4	6.6	6.6
Waterloo-Cedar Falls .....	3.1	3.3	3.3	14.0	14.3	14.4	12.3	12.7	12.8
<b>Kansas</b> .....	54.3	55.0	55.3	193.1	197.1	198.9	199.1	203.8	200.4
Lawrence .....	1.0	1.0	1.1	5.3	5.5	5.6	11.3	11.8	11.4
Topeka .....	5.9	6.2	6.2	18.7	19.5	19.5	20.9	20.7	20.5
Wichita .....	10.7	11.0	11.1	42.6	44.2	44.4	26.0	25.8	25.8
<b>Kentucky</b> .....	59.3	61.5	61.3	260.9	269.4	271.3	244.2	244.8	246.0
Lexington-Fayette .....	8.6	9.0	9.0	39.7	40.2	39.5	35.0	35.3	35.6
Louisville .....	27.5	28.9	28.9	97.0	99.1	101.0	59.6	60.6	60.6
Owensboro .....	1.4	1.4	1.4	7.4	7.4	7.2	4.9	5.2	5.2
<b>Louisiana</b> .....	86.0	84.9	84.8	320.6	317.3	318.3	326.8	319.7	318.8
Alexandria .....	2.6	2.6	2.6	10.8	11.1	11.0	12.8	12.7	12.7
Baton Rouge .....	13.8	13.3	13.4	41.3	42.0	42.0	57.1	55.5	55.4
Houma-Thibodaux .....	2.6	2.4	2.4	8.6	8.3	8.3	11.3	10.6	10.8
Lafayette .....	4.2	4.0	4.0	18.9	17.6	17.6	13.2	13.0	12.8
Lake Charles .....	2.7	2.7	2.7	11.0	10.6	10.6	10.8	10.6	10.4
Monroe .....	4.5	4.5	4.5	11.2	11.3	11.5	10.9	10.7	10.5
New Orleans .....	33.9	34.0	33.6	133.7	133.4	133.7	88.0	84.8	84.8
Shreveport .....	7.8	7.7	7.7	31.6	30.5	31.3	25.6	25.4	25.6
<b>Maine</b> .....	22.6	23.5	24.0	100.4	104.5	106.8	86.9	92.0	89.6
Lewiston-Auburn .....	2.0	2.1	2.2	9.8	10.1	10.3	3.9	4.0	4.0
Portland .....	10.8	11.5	11.7	26.8	27.4	28.3	14.4	15.1	14.4

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Maryland</b> .....	1,957.6	1,986.4	2,001.6	1.7	1.7	1.7	139.4	141.8	142.9
Baltimore MSA .....	1,057.2	1,068.8	1,072.3	.2	.3	.3	66.3	69.1	70.1
Baltimore City .....	457.8	457.4	458.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.3	17.6	17.6
Suburban Maryland-D.C. ....	688.6	710.2	715.9	.5	.4	.4	59.5	62.0	62.5
<b>Massachusetts</b> .....	2,991.6	3,037.4	3,057.5	1.7	2.3	2.4	123.2	123.6	130.0
Boston .....	1,681.6	1,718.4	1,728.2	.7	.9	.9	63.5	64.8	67.1
Brockton .....	70.5	72.3	72.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	4.7	4.9
Fall River .....	55.0	55.8	56.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.6	2.8
Fitchburg-Leominster .....	40.2	39.9	40.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.0	2.2
Lawrence-Haverhill .....	161.0	161.7	161.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.3	8.6	9.1
Lowell .....	105.0	105.1	105.5	.2	.1	.1	4.9	5.0	5.3
New Bedford .....	65.7	65.7	66.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	3.4	3.6
Pittsfield .....	42.2	43.2	43.7	.1	.1	.1	2.0	2.1	2.3
Springfield .....	231.2	238.1	241.0	.2	.2	.2	8.5	8.6	9.3
Worcester .....	190.9	197.2	197.9	.1	.2	.2	8.4	8.8	9.4
<b>Michigan</b> .....	3,645.4	3,686.1	3,710.4	10.6	10.9	11.2	117.7	123.1	135.1
Ann Arbor .....	156.5	164.2	160.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	4.8	5.4
Battle Creek .....	55.0	55.4	56.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.5	1.6
Benton Harbor .....	62.7	62.7	63.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.5
Detroit .....	1,836.2	1,874.7	1,888.2	.9	.9	.9	60.6	64.3	70.7
Flint .....	180.2	176.5	173.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	5.0	5.4
Grand Rapids .....	301.3	301.5	305.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.8	14.8	15.7
Jackson .....	49.4	49.6	49.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.3	1.4
Kalamazoo .....	100.2	104.4	102.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.0	3.2
Lansing-East Lansing .....	199.8	202.3	203.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.9	4.9	5.0
Muskegon .....	56.7	55.4	56.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	1.7	1.8
Saginaw-Bay City-Midland .....	151.5	151.6	153.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.9	5.6	5.9
<b>Minnesota</b> .....	1,905.0	1,919.1	1,948.1	8.1	5.3	6.1	74.8	72.7	82.4
Duluth .....	84.8	82.0	83.4	4.9	3.1	3.5	3.3	3.1	3.5
Minneapolis-St. Paul .....	1,235.1	1,250.2	1,263.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	49.1	49.5	54.6
Rochester .....	55.0	55.7	56.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.9	1.6	2.0
St. Cloud .....	67.0	68.3	69.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.5	3.7	4.5
<b>Mississippi</b> .....	850.0	860.9	863.5	6.7	6.2	6.2	35.7	34.7	35.3
Jackson .....	170.2	173.9	174.4	1.2	1.1	1.1	8.5	8.3	8.6
<b>Missouri</b> .....	2,150.0	2,145.9	2,166.5	5.9	5.3	5.6	100.9	97.7	100.9
Kansas City .....	717.8	718.9	717.9	.5	.6	.6	34.5	35.1	35.7
St. Joseph .....	36.2	35.4	35.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.6
St. Louis .....	1,101.2	1,092.9	1,102.2	3.6	3.4	3.5	57.0	52.6	54.3
Springfield .....	103.3	104.8	105.1	.1	.1	.1	4.3	4.5	4.6
<b>Montana</b> .....	278.5	273.8	278.0	5.8	6.0	6.3	11.3	8.9	9.4
<b>Nebraska</b> .....	660.0	659.5	666.1	1.9	2.0	2.0	25.0	22.7	24.1
Lincoln .....	109.3	108.6	109.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.0	3.6	3.8
Omaha .....	292.6	292.6	296.0	.2	.2	.2	12.3	12.2	12.6
<b>Nevada</b> .....	468.5	492.0	498.7	6.2	6.7	6.8	27.7	29.4	30.5
Las Vegas .....	263.5	280.9	283.7	.3	.3	.3	16.9	18.3	18.6
Reno .....	125.8	129.3	131.5	.7	.7	.7	6.9	7.1	7.5
<b>New Hampshire</b> .....	487.5	496.0	500.4	.6	.5	.5	36.2	34.2	34.9
Nashua .....	86.6	89.1	89.3	.1	.1	.1	4.7	5.1	5.1
Portsmouth-Dover-Rochester,NH-ME .....	104.7	106.0	107.0	.1	.1	.1	5.3	5.0	5.0
<b>New Jersey</b> .....	3,485.0	3,551.8	3,575.8	2.3	2.2	2.3	153.3	163.8	168.9
Atlantic City .....	158.5	160.3	167.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	10.8	11.2
Bergen-Passaic .....	645.4	655.3	656.6	.1	.1	.1	28.8	30.6	31.3
Camden .....	407.9	416.8	419.5	.1	.1	.1	20.1	22.1	23.1
Jersey City .....	235.1	242.2	242.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.5	6.4	6.7
Middlesex-Somerset-Hunterdon .....	490.0	501.7	502.5	.6	.5	.5	21.9	21.6	22.0
Monmouth-Ocean .....	307.0	312.2	317.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.1	20.0	20.6
Newark .....	941.5	953.6	957.6	.7	.7	.7	35.8	36.4	38.0
Trenton .....	188.0	193.2	194.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.7	5.1
Vineland-Milville-Bridgeton .....	54.3	55.2	56.0	.3	.4	.4	2.2	2.7	2.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Maryland</b> .....	210.0	206.4	207.2	91.2	92.5	93.6	496.1	505.6	513.1
Baltimore MSA .....	133.9	131.1	131.2	55.3	54.6	55.2	258.2	261.8	263.8
Baltimore City .....	48.5	45.3	45.4	27.6	27.1	27.2	97.0	96.1	97.0
Suburban Maryland-D.C. ....	35.4	34.9	34.8	23.6	25.2	25.4	181.9	188.6	191.3
<b>Massachusetts</b> .....	623.9	608.0	606.4	124.3	127.6	129.1	701.3	710.5	717.8
Boston .....	294.9	290.3	290.1	72.8	74.5	75.1	374.3	385.2	388.9
Brockton .....	11.7	10.9	10.9	5.2	5.0	5.0	20.5	21.6	21.8
Fall River .....	17.4	16.7	16.6	1.8	1.9	2.0	14.0	14.8	14.8
Fitchburg-Leominster .....	13.2	13.3	13.1	1.6	1.4	1.5	10.0	10.1	10.3
Lawrence-Haverhill .....	52.7	51.3	50.3	6.6	6.8	6.8	34.5	36.8	37.2
Lowell .....	38.5	36.8	36.8	3.4	3.2	3.2	22.0	21.9	22.0
New Bedford .....	21.2	20.7	20.6	3.0	3.1	3.2	14.9	14.7	14.8
Pittsfield .....	11.9	11.7	11.7	1.0	1.1	1.1	10.8	11.2	11.4
Springfield .....	51.9	52.2	52.7	8.9	9.1	9.1	54.0	55.9	56.6
Worcester .....	45.7	45.1	44.9	8.3	8.2	8.1	46.4	49.3	49.3
<b>Michigan</b> .....	1,001.1	981.2	972.7	146.6	149.0	151.6	809.3	825.6	840.6
Ann Arbor .....	38.6	38.6	38.5	4.6	5.0	4.8	25.1	26.6	27.6
Battle Creek .....	14.9	15.2	15.5	1.8	1.8	1.8	10.4	10.4	10.4
Benton Harbor .....	21.5	21.1	21.1	2.5	2.6	2.6	12.1	11.9	12.3
Detroit .....	491.0	483.9	478.9	82.0	84.4	85.1	421.3	432.7	440.0
Flint .....	66.7	61.3	57.0	4.7	4.5	4.6	42.5	42.8	43.1
Grand Rapids .....	95.3	93.2	93.8	10.8	11.0	11.0	74.5	74.9	76.2
Jackson .....	12.8	12.8	12.8	4.2	4.2	4.2	10.6	11.0	10.9
Kalamazoo .....	29.6	29.3	29.2	3.3	3.4	3.4	22.4	23.0	23.4
Lansing-East Lansing .....	38.3	37.2	37.2	5.5	5.2	5.2	38.7	38.7	39.3
Muskegon .....	18.7	17.7	18.0	2.7	2.6	2.5	12.1	11.9	12.2
Saginaw-Bay City-Midland .....	45.7	44.5	44.5	7.3	7.3	7.3	34.2	34.2	35.1
<b>Minnesota</b> .....	367.2	365.8	368.1	98.2	97.1	98.2	472.6	474.0	481.1
Duluth .....	7.2	7.2	7.3	6.0	5.1	5.2	21.7	21.6	21.7
Minneapolis-St. Paul .....	250.8	249.2	249.6	67.4	66.0	66.1	302.3	306.2	307.9
Rochester .....	10.8	10.2	10.2	1.7	1.6	1.5	11.2	11.6	11.7
St. Cloud .....	11.3	12.1	12.2	3.7	3.7	3.7	19.8	20.9	21.0
<b>Mississippi</b> .....	222.4	222.8	223.2	39.1	39.6	39.9	183.3	185.7	187.2
Jackson .....	19.9	20.2	20.3	11.1	11.3	11.3	41.4	42.2	42.4
<b>Missouri</b> .....	425.1	408.6	410.6	141.6	141.7	142.8	511.8	503.3	511.1
Kansas City .....	119.1	114.6	111.1	56.2	54.8	54.9	180.7	180.1	181.1
St. Joseph .....	9.1	9.0	9.1	2.1	2.0	2.0	8.9	8.5	8.7
St. Louis .....	223.5	213.3	214.3	73.7	74.2	74.7	259.9	258.2	261.1
Springfield .....	20.1	19.1	19.4	6.4	6.5	6.5	27.9	28.5	28.9
<b>Montana</b> .....	20.5	20.8	21.0	20.4	20.1	20.2	72.1	70.7	72.2
<b>Nebraska</b> .....	85.8	84.1	84.4	42.7	43.1	43.9	169.5	170.8	172.4
Lincoln .....	12.6	12.9	13.0	6.0	5.8	5.9	25.0	24.9	25.1
Omaha .....	32.3	31.2	32.1	22.6	23.4	23.8	75.3	76.0	76.9
<b>Nevada</b> .....	22.0	23.0	23.2	26.2	27.2	27.5	94.0	97.8	99.5
Las Vegas .....	8.0	8.6	8.6	14.8	15.6	15.8	54.7	56.9	57.8
Reno .....	8.1	8.4	8.5	8.4	8.7	8.7	27.8	28.9	29.4
<b>New Hampshire</b> .....	118.5	117.2	117.1	16.5	17.5	17.6	118.5	123.6	125.1
Nashua .....	35.6	35.3	35.5	2.2	2.1	2.1	18.7	20.5	20.4
Portsmouth-Dover-Rochester,NH-ME .....	20.8	19.9	19.8	2.7	2.8	2.9	26.9	27.6	27.9
<b>New Jersey</b> .....	692.4	683.7	683.8	230.5	230.7	231.0	828.0	845.4	855.1
Atlantic City .....	8.3	8.2	8.3	6.0	6.1	6.1	34.3	32.0	35.5
Bergen-Passaic .....	163.7	159.5	160.0	28.8	28.8	28.9	181.8	184.8	185.4
Camden .....	75.7	73.8	73.7	17.2	17.6	17.5	107.4	107.7	108.8
Jersey City .....	52.1	52.7	52.8	30.2	30.2	30.2	55.7	58.9	58.3
Middlesex-Somerset-Hunterdon .....	111.9	113.7	113.9	39.1	39.9	40.0	118.1	119.5	119.8
Monmouth-Ocean .....	30.3	29.6	29.9	15.4	15.8	16.0	84.4	86.2	88.1
Newark .....	187.0	186.7	186.7	80.1	79.4	79.2	192.4	196.6	197.5
Trenton .....	31.5	31.6	31.6	6.1	6.4	6.5	30.1	31.1	31.2
Vineland-Millville-Bridgeton .....	15.1	14.8	15.4	2.1	2.1	2.1	10.7	11.1	11.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>Maryland</b> .....	117.0	120.0	120.4	503.0	521.9	525.2	399.2	396.5	397.5
Baltimore MSA .....	72.3	73.9	73.7	264.3	269.4	269.4	206.7	208.6	208.6
Baltimore City .....	44.3	45.5	45.4	133.1	138.0	138.5	89.0	87.8	87.8
Suburban Maryland-D.C. ....	37.9	39.5	39.3	195.7	202.0	203.8	154.1	157.6	158.3
<b>Massachusetts</b> .....	201.1	213.0	214.6	824.3	858.7	863.2	391.8	393.7	394.0
Boston .....	138.8	145.2	146.3	539.0	559.1	560.1	197.6	198.4	199.7
Brockton .....	3.0	3.2	3.2	14.6	15.0	14.9	11.8	11.9	11.9
Fall River .....	2.7	2.8	2.9	10.4	10.6	10.7	6.6	6.4	6.5
Fitchburg-Leominster .....	1.5	1.6	1.6	7.3	7.0	7.1	4.5	4.5	4.5
Lawrence-Haverhill .....	5.8	6.2	6.3	31.1	32.1	32.3	20.0	19.9	19.6
Lowell .....	3.9	4.3	4.4	19.0	20.5	20.6	13.1	13.3	13.1
New Bedford .....	2.4	2.5	2.6	11.9	12.3	12.4	9.4	9.0	9.0
Pittsfield .....	2.1	2.2	2.2	9.4	10.1	10.3	4.9	4.7	4.6
Springfield .....	15.5	16.1	16.4	55.0	57.4	58.1	37.2	38.6	38.6
Worcester .....	12.4	12.8	13.0	45.9	48.9	48.9	23.7	23.9	24.1
<b>Michigan</b> .....	169.2	177.2	179.6	784.2	801.0	808.2	606.9	618.2	611.4
Ann Arbor .....	4.3	4.6	4.7	31.3	32.3	32.5	47.0	52.2	46.5
Battle Creek .....	3.7	3.7	3.6	11.2	11.4	11.5	11.5	11.5	11.6
Benton Harbor .....	2.3	2.5	2.5	14.2	14.3	14.5	8.6	8.7	8.7
Detroit .....	98.1	102.5	103.6	446.1	462.2	466.0	236.1	243.9	243.0
Flint .....	6.1	6.3	6.3	31.8	32.4	32.5	22.9	24.2	24.4
Grand Rapids .....	13.1	13.4	13.5	62.0	62.8	63.5	31.3	31.0	31.6
Jackson .....	1.6	1.5	1.5	9.5	9.3	9.3	9.3	9.4	9.5
Kalamazoo .....	4.4	4.8	4.7	22.4	23.1	23.2	14.8	17.6	15.2
Lansing-East Lansing .....	10.7	11.3	11.4	34.4	37.1	36.7	65.9	67.5	68.1
Muskegon .....	1.4	1.4	1.4	11.1	11.3	11.4	8.7	8.7	8.8
Saginaw-Bay City-Midland .....	6.1	6.0	6.1	30.8	31.8	32.1	21.4	22.2	22.5
<b>Minnesota</b> .....	115.5	119.4	120.4	449.4	462.1	468.2	319.2	322.8	323.7
Duluth .....	3.2	3.1	3.1	19.7	19.7	20.0	18.8	19.0	19.2
Minneapolis-St. Paul .....	88.9	92.4	93.1	303.4	312.9	316.7	172.2	173.3	174.0
Rochester .....	1.6	1.6	1.6	22.0	23.1	23.3	6.0	6.1	6.1
St. Cloud .....	2.4	2.4	2.4	13.6	13.1	13.3	12.7	12.3	12.5
<b>Mississippi</b> .....	37.2	38.4	38.7	134.4	138.4	138.7	191.3	195.1	194.3
Jackson .....	13.5	14.1	14.1	36.2	37.5	37.6	38.4	39.2	39.0
<b>Missouri</b> .....	128.3	133.8	134.5	490.7	501.4	506.4	345.7	354.1	354.6
Kansas City .....	55.8	57.0	57.3	161.6	163.7	164.4	109.4	113.0	112.8
St. Joseph .....	1.9	1.8	1.9	7.0	6.8	6.8	5.7	5.8	5.8
St. Louis .....	69.6	72.5	72.7	273.0	281.2	283.1	140.9	137.5	138.5
Springfield .....	5.2	5.3	5.2	25.9	27.0	26.6	13.4	13.8	13.8
<b>Montana</b> .....	13.0	12.9	13.1	61.9	62.6	63.3	73.5	71.8	72.5
<b>Nebraska</b> .....	47.1	48.5	48.7	147.0	148.5	149.8	141.0	139.8	140.8
Lincoln .....	7.7	7.8	7.9	22.5	23.1	23.3	31.5	30.5	30.5
Omaha .....	28.6	29.9	30.1	77.0	75.9	76.3	44.3	43.8	44.0
<b>Nevada</b> .....	22.5	23.7	24.1	207.7	219.4	222.1	62.2	64.8	65.0
Las Vegas .....	13.3	14.3	14.5	124.1	134.2	135.5	31.4	32.7	32.6
Reno .....	6.8	7.0	7.1	51.5	52.1	53.0	15.6	16.4	16.6
<b>New Hampshire</b> .....	28.0	30.3	30.5	106.2	108.8	110.8	63.0	63.9	63.9
Nashua .....	3.2	3.5	3.6	16.0	16.4	16.3	6.1	6.1	6.2
Portsmouth-Dover-Rochester,NH-ME .....	5.7	6.3	6.3	18.4	19.4	20.0	24.8	24.9	25.0
<b>New Jersey</b> .....	207.6	216.1	218.0	832.8	860.4	871.0	538.3	549.5	545.7
Atlantic City .....	6.7	6.7	6.8	68.2	71.0	74.2	25.6	25.4	25.6
Bergen-Passaic .....	34.1	36.8	37.0	142.5	146.8	146.7	65.3	67.9	67.2
Camden .....	21.6	22.9	23.1	94.9	98.0	98.7	71.1	74.6	74.5
Jersey City .....	10.0	10.4	10.6	40.5	42.7	42.6	40.1	40.9	40.9
Middlesex-Somerset-Hunterdon .....	32.5	33.3	33.5	94.4	100.5	101.1	71.5	72.7	71.7
Monmouth-Ocean .....	16.4	17.1	17.4	81.5	82.4	84.5	59.8	61.0	61.0
Newark .....	72.8	75.6	75.8	237.4	242.3	243.7	135.2	135.9	136.0
Trenton .....	8.8	8.9	8.8	53.5	55.9	56.3	53.5	54.6	54.9
Vineland-Millville-Bridgeton .....	2.8	2.9	2.9	9.7	9.9	10.0	11.3	11.3	11.3

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	Total			Mining			Construction		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>New Mexico</b> .....	528.1	531.9	536.4	15.9	14.4	14.6	35.9	33.8	34.8
Albuquerque .....	226.4	231.6	231.9	.2	.2	.2	17.1	17.0	17.2
Las Cruces .....	40.4	40.5	40.9	.1	.1	.1	2.7	2.7	2.8
Santa Fe .....	52.9	53.8	54.6	.1	.1	.1	3.2	3.3	3.4
<b>New York</b> .....	7,917.8	8,025.8	8,100.8	6.1	5.9	6.3	310.5	316.8	337.1
Albany-Schenectady-Troy .....	395.2	397.4	400.8	.4	.3	.3	17.1	17.6	19.0
Binghamton .....	118.3	118.5	119.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	4.9	5.3
Buffalo .....	424.8	425.7	430.8	.4	.4	.4	15.9	13.7	16.1
Elmira .....	35.9	37.3	38.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.3	1.6
Glens Falls .....	44.5	44.5	46.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	1.8	2.2
Nassau-Suffolk .....	1,105.8	1,117.7	1,127.3	.2	.2	.2	56.1	55.3	56.8
New York PMSA .....	4,056.4	4,097.7	4,116.4	1.4	1.3	1.3	145.1	148.0	151.5
New York City .....	3,538.7	3,580.2	3,594.0	.8	.7	.7	112.4	115.4	117.6
Niagara Falls .....	79.0	77.6	79.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	2.4	2.8
Orange County .....	97.0	97.9	98.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.4	4.7
Poughkeepsie .....	115.8	116.1	116.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.0	6.2	6.7
Rochester .....	456.9	455.5	459.0	.8	.8	.8	16.4	15.4	16.5
Rockland County .....	95.7	96.3	97.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.8	4.9	5.1
Syracuse .....	292.2	296.0	295.4	.2	.2	.2	15.5	13.6	14.5
Utica-Rome .....	119.9	118.3	120.2	.2	.2	.2	4.0	3.1	4.0
Westchester County .....	404.6	403.8	407.3	.3	.3	.3	26.5	26.3	27.4
<b>North Carolina</b> .....	2,727.9	2,808.1	2,823.1	4.8	4.8	4.9	156.8	163.2	166.0
Asheville .....	75.4	75.5	76.5	.1	.1	.1	3.9	3.6	3.8
Charlotte-Gastonia-Rock Hill .....	543.8	558.6	560.7	.3	.3	.3	31.5	32.5	33.2
Greensboro-Winston-Salem-High Point .....	448.5	455.0	456.2	.3	.3	.3	24.6	24.0	24.5
Raleigh-Durham .....	364.8	378.5	375.0	.4	.4	.4	23.8	24.3	24.5
<b>North Dakota</b> .....	251.9	248.4	252.5	4.4	3.8	4.0	11.4	8.6	10.9
Bismarck .....	36.5	36.6	37.1	.2	.2	.2	2.0	1.4	1.9
Fargo-Moorhead .....	68.6	69.8	70.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	2.8	3.3
Grand Forks .....	29.1	29.3	29.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.2	1.6
<b>Ohio</b> .....	4,491.8	4,556.9	4,601.0	22.5	20.3	20.5	162.0	160.7	173.3
Akron .....	262.0	263.4	266.7	.6	.6	.6	8.7	9.0	10.0
Canton .....	152.6	153.9	155.5	1.0	1.0	1.0	5.4	5.7	6.3
Cincinnati .....	649.0	671.8	678.3	.4	.3	.3	26.0	27.2	28.8
Cleveland .....	880.6	893.4	900.9	1.1	.9	.9	26.2	25.1	26.9
Columbus .....	630.2	650.6	656.7	.9	.9	.9	23.9	25.7	27.2
Dayton-Springfield .....	421.1	431.4	433.8	.4	.4	.5	14.8	16.6	18.0
Toledo .....	273.1	282.7	286.1	.2	.2	.2	9.5	9.8	10.6
Youngstown-Warren .....	189.8	191.3	193.2	.6	.5	.5	7.0	7.2	8.1
<b>Oklahoma</b> .....	1,144.4	1,127.4	1,133.6	54.8	52.8	52.7	39.7	39.0	40.1
Enid .....	22.9	21.5	21.7	1.3	1.2	1.2	.8	.8	.8
Lawton .....	34.1	32.8	32.8	.2	.2	.2	1.3	1.3	1.4
Oklahoma City .....	415.3	400.2	404.1	13.1	11.8	11.6	13.4	13.5	14.3
Tulsa .....	299.7	299.6	301.1	17.8	16.8	16.9	12.1	12.8	12.9
<b>Oregon</b> .....	1,059.8	1,078.9	1,092.9	1.6	1.3	1.4	35.0	32.3	34.2
Eugene-Springfield .....	99.5	100.8	103.5	.2	.1	.2	2.7	2.9	3.1
Portland .....	530.6	541.4	548.3	.6	.6	.6	19.1	17.1	17.9
Salem .....	89.8	90.9	91.8	.1	.1	.1	3.0	2.6	2.7
<b>Pennsylvania</b> .....	4,811.5	4,879.0	4,920.9	34.1	31.4	31.2	202.6	211.3	224.1
Allentown-Bethlehem .....	264.4	266.6	269.2	.5	.5	.5	10.6	11.6	12.1
Altoona .....	49.2	49.8	50.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.6	2.6	2.9
Beaver County .....	51.4	50.3	51.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.6	3.9	4.0
Erie .....	110.0	109.2	110.4	.3	.3	.3	3.2	3.0	3.4
Harrisburg-Lebanon-Carlisle .....	284.0	290.2	294.3	.4	.4	.4	11.1	11.7	12.2
Johnstown .....	76.2	77.2	78.5	3.8	3.8	3.9	2.8	2.7	3.0
Lancaster .....	173.7	178.5	180.5	.4	.4	.4	9.1	9.9	10.3
Philadelphia PMSA .....	2,096.0	2,146.6	2,156.4	1.2	1.2	1.2	92.4	99.7	102.3
Philadelphia City .....	763.3	775.7	774.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	18.3	18.4	18.7
Pittsburgh .....	848.5	849.4	856.9	6.8	6.6	6.7	41.6	40.8	43.9

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>New Mexico</b> .....	37.2	37.6	38.3	29.4	29.0	28.7	126.2	127.0	129.1
Albuquerque .....	19.6	19.5	19.5	12.2	12.4	12.4	57.9	58.7	59.4
Las Cruces .....	3.3	3.3	3.7	1.3	1.4	1.4	7.7	7.7	7.7
Santa Fe .....	1.6	1.6	1.6	1.3	1.2	1.2	9.9	10.4	10.7
<b>New York</b> .....	1,254.8	1,214.8	1,212.6	404.6	404.8	407.5	1,869.6	1,693.7	1,717.6
Albany-Schenectady-Troy .....	51.0	48.0	47.9	15.9	16.3	16.5	84.7	84.6	85.5
Binghamton .....	38.4	37.0	36.8	4.1	4.2	4.1	24.7	25.6	26.2
Buffalo .....	76.9	75.5	75.4	21.6	21.6	21.9	106.1	107.0	108.7
Elmira .....	6.7	7.4	7.5	1.2	1.2	1.2	10.0	10.5	10.6
Glens Falls .....	9.9	10.4	10.5	1.3	1.3	1.3	10.1	10.3	10.9
Nassau-Suffolk .....	179.8	178.2	177.4	46.6	48.3	48.9	296.9	301.0	304.4
New York PMSA .....	476.8	464.7	465.2	244.4	241.3	241.9	761.0	759.4	765.5
New York City .....	391.8	382.5	383.3	219.0	215.9	216.6	637.2	635.2	639.8
Niagara Falls .....	24.5	23.8	23.7	3.7	3.5	3.7	17.7	17.7	18.3
Orange County .....	15.2	14.6	14.7	5.7	5.7	5.6	25.1	26.0	26.4
Poughkeepsie .....	32.2	30.4	30.2	3.3	3.4	3.4	20.9	21.5	21.7
Rochester .....	138.6	133.5	133.2	13.9	13.9	14.0	96.0	97.2	98.6
Rockland County .....	15.7	15.8	15.8	4.2	4.2	4.2	22.8	22.9	23.4
Syracuse .....	54.6	53.2	52.7	16.9	17.0	17.0	68.9	71.1	71.6
Utica-Rome .....	25.0	23.3	23.4	4.6	4.7	4.7	25.9	26.0	26.3
Westchester County .....	67.7	64.5	64.3	20.6	20.5	20.5	96.6	97.0	97.9
<b>North Carolina</b> .....	828.0	840.5	844.0	132.6	133.8	134.2	604.2	619.2	627.1
Asheville .....	20.0	19.7	19.9	3.6	3.6	3.7	17.3	16.9	17.2
Charlotte-Gastonia-Rock Hill .....	147.5	149.8	149.9	46.4	48.0	47.9	128.4	131.0	131.6
Greensboro-Winston-Salem-High Point .....	151.8	151.3	151.9	24.3	25.0	25.2	98.8	102.1	102.2
Raleigh-Durham .....	59.1	57.7	57.6	17.5	18.2	18.3	75.4	78.3	77.1
<b>North Dakota</b> .....	15.4	15.3	15.6	15.9	15.7	15.8	67.7	66.5	67.4
Bismarck .....	2.0	1.8	1.9	2.8	2.7	2.7	9.7	9.7	9.8
Fargo-Moorhead .....	4.7	4.8	4.9	4.1	4.1	4.2	20.3	20.7	21.0
Grand Forks .....	1.6	1.8	1.8	1.5	1.3	1.4	6.1	8.1	8.1
<b>Ohio</b> .....	1,112.3	1,094.4	1,091.8	203.2	209.4	210.9	1,062.8	1,064.1	1,097.9
Akron .....	67.2	64.7	64.6	12.9	13.2	13.2	63.3	65.0	65.6
Canton .....	44.2	42.7	42.6	5.8	6.0	6.0	37.9	39.1	39.5
Cincinnati .....	144.2	147.5	148.0	33.6	34.6	34.6	164.0	170.9	172.4
Cleveland .....	206.1	203.8	203.9	41.0	41.5	41.7	212.7	215.4	217.6
Columbus .....	106.3	103.0	103.0	26.3	28.5	28.5	155.2	159.5	161.4
Dayton-Springfield .....	106.2	105.2	104.7	14.6	14.8	15.0	94.2	96.1	97.7
Toledo .....	62.8	62.3	61.9	13.8	14.4	14.5	66.3	67.8	69.0
Youngstown-Warren .....	52.2	51.6	50.9	7.6	8.1	8.1	46.7	47.0	47.8
<b>Oklahoma</b> .....	164.0	157.3	157.9	64.9	62.6	62.7	279.4	272.0	274.1
Enid .....	1.6	1.5	1.5	2.3	2.1	2.1	6.6	6.1	6.3
Lawton .....	3.4	3.3	3.3	1.3	1.3	1.3	8.8	8.4	8.4
Oklahoma City .....	50.9	48.5	48.4	20.7	20.1	20.3	104.0	96.8	98.8
Tulsa .....	51.5	49.2	49.1	22.7	22.5	22.8	72.7	73.3	73.8
<b>Oregon</b> .....	195.6	193.9	196.6	56.5	56.9	57.1	266.4	271.0	275.2
Eugene-Springfield .....	17.7	18.5	18.9	4.0	4.0	4.1	25.6	25.8	26.2
Portland .....	90.8	89.6	91.0	32.5	33.1	33.2	139.2	142.8	144.7
Salem .....	11.9	11.2	11.6	2.5	2.5	2.5	20.5	21.0	21.4
<b>Pennsylvania</b> .....	1,054.9	1,034.4	1,036.0	241.3	242.9	243.8	1,089.3	1,116.6	1,131.1
Allentown-Bethlehem .....	79.9	76.4	76.4	14.0	14.3	14.4	57.7	59.5	60.3
Altoona .....	11.1	11.0	11.1	4.7	4.9	4.9	12.2	12.6	12.7
Beaver County .....	11.0	9.8	10.0	5.2	5.1	5.1	11.0	11.2	11.4
Erie .....	35.2	33.7	34.0	4.1	3.9	4.0	23.3	23.5	23.8
Harrisburg-Lebanon-Carlisle .....	50.0	50.4	50.6	17.9	18.2	18.2	63.4	65.8	67.0
Johnstown .....	12.6	12.9	13.0	5.1	5.1	5.1	16.2	16.3	16.6
Lancaster .....	58.4	59.6	59.9	7.1	7.2	7.3	42.0	42.7	43.6
Philadelphia PMSA .....	386.1	378.6	378.7	95.2	96.8	97.0	482.1	498.3	503.8
Philadelphia City .....	100.3	98.0	98.4	44.3	45.5	45.3	147.3	149.9	150.5
Pittsburgh .....	131.5	126.4	126.9	45.5	44.0	44.3	212.7	214.7	217.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>New Mexico</b> .....	26.6	27.1	27.3	118.0	121.5	122.5	138.9	141.5	141.1
Albuquerque .....	14.2	14.8	14.9	60.6	63.2	63.2	44.6	45.8	45.1
Las Cruces .....	1.6	1.6	1.6	5.6	6.3	6.1	18.1	17.4	17.5
Santa Fe .....	2.0	2.2	2.2	13.5	13.4	13.9	21.3	21.6	21.5
<b>New York</b> .....	751.2	773.6	777.7	2,125.3	2,201.8	2,222.4	1,395.7	1,414.4	1,419.5
Albany-Schenectady-Troy .....	21.0	21.9	22.2	94.9	97.6	97.9	110.2	111.1	111.5
Binghamton .....	3.8	3.8	3.9	20.8	21.6	21.8	21.3	21.5	21.4
Buffalo .....	24.5	25.3	24.6	106.4	109.0	110.1	73.0	73.2	73.7
Elmira .....	1.2	1.2	1.2	8.7	9.3	9.4	6.4	6.4	6.6
Gens Falls .....	1.9	1.9	1.9	10.0	9.3	10.2	9.0	9.2	9.3
Nassau-Suffolk .....	70.5	73.9	74.2	277.0	279.8	284.2	178.7	181.1	181.1
New York PMSA .....	553.6	566.5	569.7	1,216.9	1,249.2	1,252.9	657.1	667.3	668.5
New York City .....	524.2	535.6	538.6	1,077.1	1,108.7	1,110.5	576.2	586.1	587.0
Niagara Falls .....	1.8	1.8	1.8	16.1	16.3	16.5	12.2	12.1	12.4
Orange County .....	4.0	4.1	4.1	20.6	20.7	21.0	22.0	22.3	22.3
Poughkeepsie .....	4.1	4.4	4.5	25.0	25.7	25.7	24.4	24.5	24.2
Rochester .....	20.8	21.0	21.2	106.0	108.5	109.6	64.4	65.2	65.0
Rockland County .....	3.8	3.9	4.0	23.2	23.2	23.6	21.3	21.4	21.5
Syracuse .....	18.9	18.9	19.0	67.6	70.7	68.7	49.6	51.3	51.7
Utica-Rome .....	6.4	6.6	6.6	24.9	25.0	25.2	28.8	29.5	29.7
Westchester County .....	25.1	26.4	26.5	112.0	112.6	114.2	55.8	56.1	56.2
<b>North Carolina</b> .....	117.2	124.5	126.3	451.5	473.1	475.2	432.9	449.0	445.3
Asheville .....	2.6	2.7	2.7	16.0	16.4	16.7	11.8	12.5	12.5
Charlotte-Gastonia-Rock Hill .....	31.9	34.3	34.5	96.4	99.9	100.7	61.4	62.7	62.5
Greensboro-Winston-Salem-High Point .....	21.4	22.2	22.2	75.4	77.4	77.5	51.8	52.7	52.4
Raleigh-Durham .....	21.3	22.8	23.2	84.5	90.2	89.4	82.8	88.6	84.5
<b>North Dakota</b> .....	12.4	12.4	12.5	59.4	60.3	60.4	65.3	65.8	65.9
Bismarck .....	1.6	1.6	1.6	10.0	10.4	10.3	8.2	8.8	8.7
Fargo-Moorhead .....	4.3	4.4	4.4	18.5	19.1	19.1	13.5	13.9	13.9
Grand Forks .....	1.1	1.2	1.2	6.2	6.4	6.4	9.1	9.3	9.2
<b>Ohio</b> .....	230.6	240.4	242.2	1,003.4	1,047.5	1,059.9	694.9	700.1	704.5
Akron .....	10.0	10.4	10.4	55.6	56.3	57.8	43.6	44.1	44.4
Canton .....	6.4	6.5	6.5	33.4	34.4	34.7	18.4	18.5	19.0
Cincinnati .....	37.9	39.6	39.9	156.1	162.9	165.6	86.8	88.8	88.7
Cleveland .....	51.4	54.0	54.3	225.4	235.1	237.7	116.5	117.6	117.9
Columbus .....	53.1	55.5	55.9	145.8	156.0	158.5	118.6	121.4	121.3
Dayton-Springfield .....	17.3	17.8	17.8	99.1	105.9	105.3	74.6	74.5	74.8
Toledo .....	10.9	11.5	11.6	66.9	73.5	74.4	42.7	43.1	43.8
Youngstown-Warren .....	8.1	8.4	8.4	43.1	44.2	44.7	24.5	24.4	24.7
<b>Oklahoma</b> .....	63.2	62.4	62.6	224.6	225.8	228.3	253.8	255.5	255.2
Enid .....	1.2	1.0	1.0	5.2	5.2	5.2	3.9	3.6	3.6
Lawton .....	1.5	1.5	1.5	6.0	5.4	5.5	11.6	11.4	11.2
Oklahoma City .....	26.5	25.9	26.1	86.5	86.1	86.5	100.2	97.5	98.1
Tulsa .....	17.7	17.5	17.5	68.6	70.4	71.4	36.6	37.1	36.7
<b>Oregon</b> .....	68.9	72.4	73.0	230.5	243.3	245.7	205.3	207.8	209.7
Eugene-Springfield .....	4.5	4.8	4.8	22.0	23.1	23.4	22.8	21.6	22.8
Portland .....	42.9	44.6	45.3	128.0	136.2	137.4	77.5	77.4	78.2
Salem .....	5.2	5.5	5.5	17.9	18.6	18.6	28.7	29.4	29.4
<b>Pennsylvania</b> .....	276.0	285.1	287.2	1,222.7	1,264.6	1,274.4	690.6	692.7	693.1
Allentown-Bethlehem .....	10.4	10.7	10.8	61.5	63.2	64.2	29.8	30.4	30.5
Altoona .....	1.5	1.6	1.6	10.0	10.0	10.3	7.1	7.1	7.0
Beaver County .....	1.8	1.7	1.7	10.9	11.0	11.1	7.9	7.6	7.7
Erie .....	5.1	5.0	5.1	25.0	26.0	26.0	13.8	13.8	13.8
Harrisburg-Lebanon-Carlisle .....	16.0	16.3	16.6	59.3	60.7	62.2	65.9	66.7	67.1
Johnstown .....	4.8	4.9	5.1	18.4	18.8	19.1	12.5	12.6	12.7
Lancaster .....	6.4	6.8	6.8	34.6	36.1	36.5	15.7	15.8	15.7
Philadelphia PMSA .....	150.9	156.9	157.1	588.2	614.2	614.7	299.9	300.9	301.6
Philadelphia City .....	69.1	70.3	70.2	243.3	254.0	250.4	140.7	139.6	140.7
Pittsburgh .....	51.3	52.9	53.6	254.2	259.4	259.6	104.9	104.6	104.9

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	143.4	147.0	148.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.8	6.0	6.2
Scranton-Wilkes-Barre .....	282.5	283.7	285.2	0.8	0.8	0.7	11.2	10.8	11.5
Sharon .....	41.0	41.2	41.3	.2	.2	.2	1.2	1.1	1.1
State College .....	51.2	53.4	53.3	.2	.2	.2	2.0	2.0	2.3
Williamsport .....	47.0	48.6	49.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	1.8	2.0
York .....	165.0	167.4	168.2	.4	.4	.4	8.4	8.6	9.0
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	131.2	132.3	134.0	.1	.1	.1	4.6	4.2	4.6
Providence .....	310.3	315.9	319.3	.1	.1	.1	13.4	15.2	15.9
<b>South Carolina</b>									
Charleston .....	181.6	184.8	185.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.0	13.1	13.3
Columbia .....	216.5	216.7	217.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.3	14.8	15.0
Greenville-Spartanburg .....	296.5	302.9	303.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.5	21.1	21.7
<b>South Dakota</b>									
Rapid City .....	33.8	33.3	34.5	.3	.3	.3	2.3	2.0	2.2
Sioux Falls .....	62.8	63.4	61.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.2	2.4
<b>Tennessee</b>									
Chattanooga .....	180.7	182.4	181.5	.9	1.0	.9	6.9	7.0	7.0
Johnson City-Kingsport-Bristol .....	152.8	155.1	154.9	.2	.1	.1	5.5	5.3	5.4
Knoxville .....	238.5	239.7	241.7	1.9	1.8	1.8	11.1	11.2	11.4
Memphis .....	403.3	412.3	412.0	.1	.1	.1	18.6	19.0	18.4
Nashville .....	451.2	456.3	456.8	.9	.9	.9	27.0	30.0	30.4
<b>Texas</b>									
Abilene .....	51.3	50.1	50.1	2.5	2.2	2.2	2.5	2.3	2.3
Amarillo .....	79.1	77.0	77.6	1.7	1.3	1.3	3.9	3.8	3.9
Austin .....	364.9	362.4	361.2	1.1	1.0	1.0	23.8	20.1	19.7
Beaumont-Port Arthur .....	129.9	127.4	127.9	1.8	1.6	1.6	6.9	7.2	7.3
Brazoria .....	58.5	57.0	56.9	1.7	1.3	1.3	6.2	5.7	5.8
Brownsville-Harlingen .....	65.9	65.7	65.7	.1	.1	.1	2.7	2.7	2.7
Bryan-College Station .....	49.2	48.1	48.3	.9	.8	.9	2.5	2.1	2.0
Corpus Christi .....	130.3	128.3	127.5	6.6	5.8	5.6	8.1	7.5	7.5
Dallas .....	1,344.6	1,313.3	1,308.7	21.6	19.1	19.1	84.5	65.9	64.5
El Paso .....	183.7	185.3	186.2	.2	.1	.1	9.8	9.5	9.8
Ft. Worth-Arlington .....	511.5	514.3	512.0	3.8	3.4	3.4	31.8	30.5	30.3
Galveston-Texas City .....	72.1	69.5	69.3	.5	.4	.4	4.8	3.4	3.3
Houston .....	1,416.1	1,372.6	1,373.7	73.3	62.8	62.5	94.3	84.0	83.1
Killeen-Temple .....	68.7	68.2	68.8	.1	.1	.1	4.1	3.7	3.6
Laredo .....	35.0	35.0	35.2	1.8	2.0	2.1	1.3	1.3	1.3
Longview-Marshall .....	65.5	64.4	64.0	3.8	3.6	3.5	3.4	3.0	3.0
Lubbock .....	92.0	90.1	90.5	.3	.3	.3	4.3	3.1	3.0
McAllen-Edinburg-Mission .....	88.3	88.5	87.8	1.1	1.0	1.0	4.5	4.6	4.4
Midland .....	46.5	44.1	43.8	9.6	8.7	8.5	1.7	1.5	1.5
Odessa .....	45.7	43.8	43.8	6.8	6.1	6.2	2.7	2.5	2.2
San Angelo .....	37.4	36.8	36.8	.7	.6	.5	2.2	1.8	1.9
San Antonio .....	497.0	495.3	497.2	2.8	2.6	2.6	36.5	31.6	31.4
Sherman-Denison .....	38.4	37.8	38.2	.2	.1	.1	1.8	1.8	1.8
Texarkana .....	44.8	44.8	44.8	.1	.1	.1	2.0	1.4	1.4
Tyler .....	61.8	60.1	60.4	2.1	2.0	2.0	3.0	2.7	2.7
Victoria .....	28.5	28.2	27.9	1.9	1.8	1.8	2.1	2.0	2.0
Waco .....	78.5	78.1	78.1	.2	.1	.1	4.1	3.9	3.9
Wichita Falls .....	50.4	50.2	50.5	2.2	2.0	2.0	2.2	2.0	2.1
<b>Utah</b>									
Provo-Orem .....	70.7	74.4	72.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	2.6	2.7
Salt Lake City-Ogden .....	442.1	445.9	448.3	1.6	2.6	2.7	23.5	20.0	20.9
<b>Vermont</b>									
Barre-Montpelier .....	31.1	31.9	32.0	.2	.2	.2	2.1	1.7	1.9
Burlington .....	70.9	73.1	73.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	3.8	4.1

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 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	47.6	48.0	48.0	6.4	6.7	6.8	31.1	31.8	32.2
Scranton-Wilkes-Barre .....	72.4	72.1	71.4	14.7	15.2	15.2	63.2	63.1	64.1
Sharon .....	9.8	9.1	9.2	1.9	1.8	1.8	10.7	11.0	11.0
State College .....	7.4	7.3	7.3	1.2	1.3	1.3	9.4	9.7	9.6
Williamsport .....	15.2	15.9	16.1	1.8	1.8	1.9	10.4	10.7	10.9
York .....	57.7	57.1	57.0	7.0	7.2	7.3	39.2	39.4	39.6
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	119.0	119.8	120.0	14.7	14.7	14.9	98.8	98.2	100.1
Providence .....	55.1	56.0	56.1	3.5	3.7	3.7	30.9	30.8	31.4
Providence .....	74.5	75.1	75.2	10.9	11.5	11.6	66.9	68.5	69.7
<b>South Carolina</b>									
Charleston .....	363.9	364.7	365.1	56.3	57.1	57.6	292.4	302.4	306.1
Columbia .....	19.8	20.7	20.8	9.0	9.1	9.3	44.5	45.8	46.1
Greenville-Spartanburg .....	28.3	28.9	29.0	10.0	10.4	10.5	47.7	46.7	46.9
Greenville-Spartanburg .....	98.0	98.4	98.4	10.5	11.1	11.2	66.4	69.2	69.4
<b>South Dakota</b>									
Rapid City .....	27.8	28.6	27.1	12.6	12.5	12.6	66.2	65.9	67.2
Rapid City .....	3.1	3.2	3.1	1.9	1.8	1.9	9.7	9.8	10.2
Sioux Falls .....	8.4	8.7	6.6	4.6	4.7	4.7	16.7	16.7	16.9
<b>Tennessee</b>									
Chattanooga .....	493.5	494.2	495.7	96.9	98.0	98.5	447.3	468.7	473.8
Johnson City-Kingsport-Bristol .....	44.2	43.9	43.1	8.6	8.6	8.6	41.6	41.3	41.4
Knoxville .....	51.7	51.9	51.0	6.2	6.3	6.4	33.5	33.8	34.0
Memphis .....	50.8	50.0	50.5	9.0	9.1	9.2	60.0	58.1	58.5
Nashville .....	52.1	51.8	52.3	35.0	37.3	37.3	111.5	111.6	111.9
Nashville .....	90.4	88.3	88.1	22.6	22.1	22.1	108.6	108.5	108.7
<b>Texas</b>									
Abilene .....	960.6	946.4	948.5	373.0	376.1	376.8	1,682.8	1,653.2	1,661.3
Amarillo .....	5.0	4.8	4.8	2.6	2.5	2.6	14.4	14.1	14.1
Austin .....	9.8	9.7	9.7	6.2	5.5	5.5	23.0	22.7	22.9
Beaumont-Port Arthur .....	40.8	39.2	39.4	11.2	11.4	11.2	81.8	80.2	80.1
Brazoria .....	25.1	24.2	24.3	10.0	9.6	9.6	32.7	31.4	31.5
Brownsville-Harlingen .....	15.8	15.1	14.9	2.4	2.2	2.2	11.3	11.0	11.1
Bryan-College Station .....	9.3	9.5	9.7	3.1	3.0	3.0	18.0	17.8	17.7
Corpus Christi .....	3.2	2.9	2.9	1.5	1.5	1.5	11.4	10.9	11.0
Dallas .....	12.2	11.7	11.5	7.2	7.1	6.9	34.1	34.0	34.0
El Paso .....	228.7	223.0	222.7	86.4	86.2	86.0	359.4	352.9	350.5
Ft. Worth-Arlington .....	35.5	34.8	35.0	9.8	9.8	9.8	44.9	45.3	45.6
Galveston-Texas City .....	111.7	114.1	113.0	26.0	27.3	27.3	136.8	133.8	132.5
Houston .....	9.2	9.2	8.4	4.9	4.6	4.6	14.2	13.6	13.8
Killeen-Temple .....	155.8	147.7	147.7	95.5	91.5	91.6	362.6	349.4	349.4
Laredo .....	8.9	8.4	8.7	2.8	2.8	2.7	16.2	16.2	16.2
Longview-Marshall .....	1.9	1.8	1.9	4.0	4.0	4.0	10.5	9.8	9.9
Lubbock .....	15.2	14.9	14.9	3.1	3.1	3.1	17.3	17.0	17.0
McAllen-Edinburg-Mission .....	7.4	7.3	7.4	4.7	4.4	4.4	27.6	27.3	27.9
Midland .....	12.1	12.7	12.3	2.8	2.9	2.9	26.6	25.9	25.8
Odessa .....	3.5	2.9	3.0	2.3	2.2	2.2	10.9	10.6	10.6
San Angelo .....	4.0	3.6	3.7	2.1	2.0	2.1	13.4	13.0	13.0
San Antonio .....	5.6	5.8	5.8	3.4	3.2	3.1	9.4	9.3	9.3
Sherman-Denison .....	48.9	45.7	46.2	18.7	17.9	18.1	128.2	130.1	131.0
Texarkana .....	11.8	11.0	11.1	2.1	2.1	2.0	8.6	8.6	8.8
Tyler .....	7.3	7.2	7.2	1.9	1.8	1.8	10.7	10.9	10.9
Victoria .....	11.5	10.7	10.8	2.9	2.7	2.7	16.3	16.1	16.2
Waco .....	3.0	3.0	2.9	1.5	1.5	1.4	8.0	8.0	7.9
Wichita Falls .....	15.6	14.6	14.9	3.4	3.3	3.3	19.0	19.2	19.1
Wichita Falls .....	8.2	8.2	8.1	2.6	2.6	2.6	12.2	12.4	12.6
<b>Utah</b>									
Provo-Orem .....	92.7	92.0	92.8	37.5	37.2	37.3	150.5	153.6	154.9
Salt Lake City-Ogden .....	11.5	10.2	10.3	2.4	2.6	2.6	15.3	16.0	16.1
Salt Lake City-Ogden .....	61.9	61.4	61.7	29.0	28.6	28.7	110.3	113.0	113.9
<b>Vermont</b>									
Barre-Montpelier .....	49.4	49.7	49.3	9.6	10.1	10.2	51.7	54.0	54.1
Burlington .....	4.2	4.5	4.5	.9	.8	.8	6.4	6.8	6.8
Burlington .....	16.7	16.5	16.6	3.0	3.1	3.2	15.9	16.5	16.5

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	7.1	7.7	7.8	28.4	29.6	29.8	17.0	17.2	17.3
Scranton-Wilkes-Barre .....	11.9	12.5	12.6	66.8	67.5	68.7	41.5	41.7	41.0
Sharon .....	1.4	1.4	1.4	10.5	11.3	11.3	5.3	5.3	5.3
State College .....	1.6	1.6	1.7	8.9	9.2	9.4	20.5	22.1	21.5
Williamsport .....	2.2	2.2	2.3	9.1	9.6	9.6	6.5	6.6	6.7
York .....	4.7	5.1	5.1	29.4	31.3	31.6	18.2	18.3	18.2
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	24.9	25.1	25.4	110.9	111.4	113.1	58.4	58.8	59.2
Providence .....	3.5	3.6	3.7	23.8	24.0	24.4	9.7	9.9	10.0
	20.8	21.5	21.6	80.1	80.3	81.4	43.6	43.7	43.8
<b>South Carolina</b>									
Charleston .....	61.0	64.3	64.9	224.8	235.0	236.7	259.0	265.9	265.4
Columbia .....	8.5	8.7	8.8	36.0	37.6	37.6	49.7	49.7	49.8
Greenville-Spartanburg .....	17.0	17.6	17.6	39.5	40.1	40.2	59.4	57.8	58.0
	11.5	11.5	11.6	47.8	49.9	49.7	39.5	41.4	40.7
<b>South Dakota</b>									
Rapid City .....	14.3	14.2	14.3	60.6	60.6	61.7	59.9	59.9	60.7
Sioux Falls .....	1.7	1.6	1.7	8.2	7.9	8.3	6.6	6.7	6.9
	6.0	5.8	5.8	17.3	17.7	17.9	7.4	7.6	7.6
<b>Tennessee</b>									
Chattanooga .....	93.7	94.3	95.6	383.0	408.8	411.5	316.8	330.7	330.2
Johnson City-Kingsport-Bristol .....	10.9	12.0	12.1	35.2	35.0	35.2	32.3	33.6	33.2
Knoxville .....	4.9	4.9	4.9	26.6	26.6	26.9	24.2	26.2	26.2
Memphis .....	8.5	8.4	8.5	49.2	50.1	50.8	48.0	51.0	51.0
Nashville .....	22.8	23.3	23.4	93.9	98.5	99.1	69.3	70.7	69.5
	30.3	30.0	30.4	106.4	108.8	108.6	65.0	67.7	67.6
<b>Texas</b>									
Abilene .....	449.5	440.5	440.7	1,376.9	1,365.9	1,371.9	1,140.9	1,152.1	1,152.6
Amarillo .....	2.6	2.6	2.6	13.3	13.3	13.1	8.4	8.3	8.4
Austin .....	4.4	4.3	4.3	16.0	16.2	16.5	14.1	13.5	13.5
Beaumont-Port Arthur .....	25.6	25.5	25.3	83.3	84.1	84.2	97.3	100.9	100.3
Brazoria .....	5.8	5.4	5.4	27.7	27.9	28.2	19.9	20.1	20.0
Brownsville-Harlingen .....	2.2	2.1	2.0	7.7	8.0	8.0	11.2	11.6	11.6
Bryan-College Station .....	3.6	3.4	3.4	13.4	13.7	13.7	15.7	15.5	15.4
Corpus Christi .....	1.8	1.7	1.7	8.0	7.9	7.9	19.9	20.3	20.4
Dallas .....	7.0	6.9	6.8	27.3	27.7	27.7	27.8	27.6	27.5
El Paso .....	132.8	130.7	130.7	289.1	285.9	285.3	142.1	149.6	149.9
Ft. Worth-Arlington .....	9.8	10.0	9.9	34.7	35.8	35.8	39.0	40.0	40.2
Galveston-Texas City .....	28.8	28.7	28.7	109.3	112.1	112.9	63.3	64.4	63.9
Houston .....	4.5	4.3	4.3	13.1	13.2	13.6	20.9	20.8	20.9
Killeen-Temple .....	105.2	100.4	100.4	338.3	345.4	348.1	191.1	191.4	190.9
Laredo .....	3.2	3.0	3.0	13.6	14.1	14.4	19.8	19.9	20.1
Longview-Marshall .....	1.6	1.6	1.6	5.8	6.0	6.0	8.1	8.5	8.4
Lubbock .....	3.3	3.2	3.1	11.2	11.3	11.1	8.2	8.3	8.3
McAllen-Edinburg-Mission .....	5.5	5.3	5.4	20.5	20.7	20.5	21.7	21.7	21.6
Midland .....	4.0	3.8	3.8	13.8	13.7	13.6	23.4	23.9	24.0
Odessa .....	2.9	2.9	2.8	9.3	8.8	8.8	6.3	6.5	6.4
San Angelo .....	1.7	1.7	1.6	7.4	7.2	7.3	7.6	7.7	7.7
San Antonio .....	1.8	1.8	1.8	7.7	7.7	7.8	6.6	6.6	6.6
Sherman-Denison .....	38.4	39.1	39.3	114.9	118.2	118.2	108.6	110.1	110.4
Texarkana .....	1.5	1.5	1.5	7.3	7.6	7.7	5.1	5.1	5.2
Tyler .....	2.0	1.8	1.9	8.7	9.0	9.0	12.1	12.6	12.5
Victoria .....	3.8	3.6	3.7	13.3	13.4	13.4	8.9	8.9	8.9
Waco .....	1.6	1.5	1.5	6.0	5.8	5.8	4.4	4.6	4.6
Wichita Falls .....	4.8	4.9	4.8	19.1	19.7	19.5	12.3	12.4	12.5
	2.4	2.4	2.5	11.1	11.1	11.1	9.5	9.5	9.5
<b>Utah</b>									
Provo-Orem .....	32.9	33.8	33.9	133.9	141.8	139.1	144.9	144.7	145.6
Salt Lake City-Ogden .....	2.3	2.4	2.4	22.6	26.7	23.8	13.9	13.9	14.1
	27.2	27.7	27.9	93.4	96.5	96.6	95.3	95.9	95.9
<b>Vermont</b>									
Barre-Montpelier .....	10.8	11.7	11.9	54.4	55.3	54.4	38.6	40.7	40.7
Burlington .....	2.8	3.0	3.0	6.4	6.8	6.7	8.1	8.1	8.1
	3.2	3.4	3.4	16.9	18.2	18.5	11.0	11.7	11.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Virginia</b> .....	2,559.3	2,615.0	2,632.6	16.7	15.5	15.6	169.3	171.1	174.2
Bristol .....	29.9	31.0	31.1	.1	.1	.1	.9	.8	.8
Charlottesville .....	62.9	63.8	64.4	.1	.1	.1	3.5	3.5	3.7
Danville .....	38.9	38.9	39.2	.1	.1	.1	1.5	1.2	1.2
Lynchburg .....	70.0	71.3	71.4	.1	.1	.1	3.1	3.2	3.2
Norfolk-Virginia Beach-Newport News .....	531.9	539.5	544.7	.1	.1	.1	37.8	36.4	36.4
Northern Virginia .....	654.1	672.1	678.3	.5	.4	.4	47.7	45.9	47.5
Richmond-Petersburg .....	417.2	426.6	427.8	.4	.3	.4	25.6	26.2	26.5
Roanoke .....	118.2	119.9	121.3	.1	.1	.1	6.9	6.7	7.1
<b>Washington</b> .....	1,775.0	1,810.8	1,829.7	3.0	2.9	3.0	85.6	86.3	89.4
Seattle .....	886.3	910.5	917.7	.7	.6	.6	44.6	44.3	44.5
<b>West Virginia</b> .....	613.2	597.7	602.8	40.7	36.8	36.7	23.6	23.1	25.0
Charleston .....	109.9	107.2	107.8	2.4	2.3	2.4	4.5	4.6	4.9
Huntington-Ashland .....	102.3	101.0	101.7	1.1	1.0	1.0	3.8	3.6	3.9
Parkersburg-Marietta .....	59.3	59.6	60.2	.8	.8	.8	2.9	2.7	3.0
Wheeling .....	58.3	56.8	57.5	2.4	2.4	2.3	1.9	1.5	1.7
<b>Wisconsin</b> .....	2,020.0	2,036.2	2,057.8	2.2	2.1	2.3	66.4	61.2	66.0
Appleton-Oshkosh-Neenah .....	139.9	140.8	143.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	5.3	5.7
Eau Claire .....	53.3	56.1	56.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.4	1.4
Green Bay .....	90.8	91.2	91.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	2.6	2.8
Janesville-Beloit .....	53.7	53.0	53.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.1	1.2
Kenosha .....	37.2	39.4	40.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	.9	.9	1.0
La Crosse .....	48.2	50.2	50.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.2	1.1
Madison .....	191.7	195.2	196.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	5.6	5.7
Milwaukee .....	674.5	683.9	686.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	20.0	20.0	20.7
Racine .....	68.1	68.4	68.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.2	2.2
Sheboygan .....	44.3	45.3	45.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.0	1.1
Wausau .....	44.7	46.0	46.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.3
<b>Wyoming</b> .....	203.6	187.5	192.3	19.6	17.5	17.7	19.6	12.7	14.3
<b>Puerto Rico</b> .....	714.6	729.2	734.6	.7	.8	.8	27.4	32.9	33.8
Caguas .....	43.4	44.2	44.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	51.3	50.8	52.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	45.5	46.4	46.2	.1	.1	.1	2.4	3.6	3.4
San Juan .....	442.8	448.8	452.7	.4	.5	.5	21.8	25.2	25.9
<b>Virgin Islands</b> .....	37.1	38.3	37.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	1.8	1.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Virginia</b> .....	422.3	422.2	422.2	137.1	141.1	141.2	575.7	595.0	601.4
Bristol .....	9.4	9.7	9.8	1.1	1.2	1.2	7.9	8.4	8.5
Charlottesville .....	8.5	8.5	8.5	2.1	2.2	2.2	11.9	11.8	11.9
Danville .....	16.2	16.4	16.6	1.0	1.0	1.0	8.0	8.0	8.1
Lynchburg .....	23.7	24.2	24.2	3.0	2.9	3.0	13.2	13.5	13.4
Norfolk-Virginia Beach-Newport News .....	69.2	66.2	65.7	25.8	25.7	25.8	127.8	135.2	137.5
Northern Virginia .....	34.3	34.0	33.8	45.5	48.0	48.2	152.3	155.5	156.8
Richmond-Petersburg .....	62.6	63.0	62.7	22.1	22.3	22.4	100.9	101.1	101.5
Roanoke .....	20.7	20.7	20.7	9.1	8.8	8.8	31.2	33.0	33.4
<b>Washington</b> .....	305.3	306.1	310.1	95.1	96.7	97.6	433.2	443.9	450.7
Seattle .....	170.4	177.2	178.8	57.5	57.4	57.9	217.8	225.2	227.7
<b>West Virginia</b> .....	87.3	86.9	86.6	37.3	36.0	35.9	137.7	137.1	138.8
Charleston .....	12.5	12.1	12.0	8.2	8.2	8.2	28.5	28.1	28.4
Huntington-Ashland .....	19.6	19.2	19.3	7.5	7.3	7.3	25.8	25.8	25.9
Parkersburg-Marietta .....	14.3	14.3	14.3	2.0	2.0	2.0	14.0	14.1	14.3
Wheeling .....	7.2	6.9	7.0	3.1	2.9	2.9	15.3	15.6	15.9
<b>Wisconsin</b> .....	508.3	511.3	513.6	94.6	92.5	94.1	475.8	481.5	490.6
Appleton-Oshkosh-Neenah .....	49.0	48.3	49.1	5.4	5.3	5.4	29.4	30.0	30.5
Eau Claire .....	10.0	10.2	10.3	2.9	3.1	3.2	14.8	16.5	16.7
Green Bay .....	24.1	23.5	23.6	6.5	6.6	6.7	23.3	24.0	24.3
Janesville-Beloit .....	17.6	16.4	16.8	1.9	1.9	1.9	13.4	13.6	13.7
Kenosha .....	10.9	12.9	13.2	1.4	1.4	1.5	8.4	8.4	8.6
La Crosse .....	10.3	10.2	10.1	2.4	2.2	2.4	13.2	14.1	14.3
Madison .....	20.6	21.6	22.0	6.4	6.6	6.7	41.1	42.9	43.1
Milwaukee .....	166.9	166.2	165.7	35.0	35.1	35.1	154.3	158.4	161.2
Racine .....	24.4	24.1	23.9	2.4	2.3	2.4	15.9	16.3	16.6
Sheboygan .....	18.5	19.1	18.9	1.4	1.4	1.5	8.5	8.8	8.9
Wausau .....	11.8	12.5	12.6	2.7	2.8	2.9	11.2	11.6	11.7
<b>Wyoming</b> .....	7.8	7.7	7.8	14.0	13.9	13.9	45.3	43.1	43.9
<b>Puerto Rico</b> .....	150.5	150.7	150.8	17.2	14.6	14.8	125.6	126.5	129.0
Caguas .....	14.8	15.5	15.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	8.0	8.1
Mayaguez .....	20.3	19.3	20.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.9	6.9	7.0
Ponce .....	9.8	8.8	8.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.3	7.7	7.8
San Juan .....	65.4	64.6	64.8	13.4	10.5	10.7	86.4	87.2	89.1
<b>Virgin Islands</b> .....	1.7	1.9	1.9	2.4	2.5	2.5	8.4	8.9	8.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Virginia</b> .....	130.1	135.5	137.5	580.7	600.4	604.8	527.3	534.3	535.8
Bristol .....	.9	.9	.9	4.5	4.6	4.5	5.1	5.3	5.4
Charlottesville .....	3.0	3.2	3.2	11.0	11.1	11.4	22.9	23.5	23.6
Danville .....	1.2	1.1	1.1	5.7	5.8	5.7	5.2	5.3	5.3
Lynchburg .....	3.3	3.3	3.3	14.0	14.5	14.6	9.7	9.6	9.6
Norfolk-Virginia Beach-Newport News .....	24.0	24.7	25.0	120.7	124.3	126.9	126.4	126.9	127.3
Northern Virginia .....	39.5	42.2	43.1	197.2	205.0	206.7	137.2	141.0	141.8
Richmond-Petersburg .....	32.8	34.6	34.9	84.3	88.7	89.1	88.4	90.3	90.4
Roanoke .....	8.0	8.1	8.2	26.7	26.8	27.2	15.4	15.6	15.7
<b>Washington</b> .....	105.3	107.3	107.5	393.9	408.1	410.6	353.6	359.5	360.8
Seattle .....	66.1	66.9	67.0	200.3	208.5	209.7	128.9	130.4	131.5
<b>West Virginia</b> .....	23.9	24.2	24.4	122.5	124.5	126.0	140.2	129.1	129.4
Charleston .....	6.0	6.0	6.0	24.6	24.9	24.8	23.0	21.0	21.1
Huntington-Ashland .....	4.2	4.3	4.4	20.0	20.5	20.6	20.3	19.3	19.3
Parkersburg-Marietta .....	2.2	2.1	2.1	13.1	13.6	13.6	10.0	10.0	10.1
Wheeling .....	2.7	2.6	2.6	15.6	15.6	15.5	10.1	9.3	9.6
<b>Wisconsin</b> .....	107.2	110.4	111.3	431.7	441.8	445.8	333.8	335.4	334.2
Appleton-Oshkosh-Neenah .....	6.9	7.2	7.3	25.8	27.5	27.7	17.3	17.0	17.3
Eau Claire .....	1.8	1.9	1.9	11.1	12.4	12.3	11.0	10.7	10.7
Green Bay .....	3.2	3.3	3.3	19.4	20.2	20.3	10.6	10.9	10.7
Janesville-Beloit .....	1.6	1.7	1.7	10.8	11.4	11.2	6.9	7.0	6.9
Kenosha .....	1.1	1.1	1.1	8.4	8.3	8.4	6.1	6.3	6.2
La Crosse .....	1.4	1.4	1.5	12.7	13.4	13.5	7.2	7.6	7.4
Madison .....	16.8	17.3	17.5	40.4	41.3	41.7	60.0	59.7	59.3
Milwaukee .....	46.1	47.3	47.7	169.4	174.8	174.5	82.4	81.8	81.5
Racine .....	2.1	2.1	2.2	13.0	13.2	13.2	8.3	8.1	8.2
Sheboygan .....	2.0	2.0	2.0	7.1	7.3	7.5	5.4	5.6	5.5
Wausau .....	3.3	3.4	3.4	7.9	7.9	8.1	6.3	6.2	6.1
<b>Wyoming</b> .....	8.0	7.9	7.9	33.7	31.7	33.1	55.5	53.0	53.7
<b>Puerto Rico</b> .....	32.4	33.4	33.5	98.3	102.9	103.9	262.6	267.5	268.1
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.9	14.9	14.9
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16.2	16.2	16.2
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	7.7	7.7	15.3	15.6	15.6
San Juan .....	26.3	27.1	27.3	72.0	74.4	74.7	157.3	159.4	159.7
<b>Virgin Islands</b> .....	1.5	1.6	1.6	7.8	9.0	8.7	13.1	12.6	12.6

<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 1986 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	12.44	524.97	37.4	12.47	466.38
Monthly data, not seasonally adjusted									
<b>1986:</b>									
June .....	34.9	\$8.72	\$304.33	41.9	\$12.49	\$523.33	37.8	\$12.34	\$466.45
July .....	34.9	8.70	303.63	41.4	12.49	517.09	38.2	12.34	471.39
August .....	35.1	8.70	305.37	42.3	12.51	529.17	38.3	12.44	476.45
September .....	34.8	8.82	306.94	42.1	12.52	527.09	38.5	12.59	484.72
October .....	34.7	8.82	306.05	42.1	12.50	526.25	37.9	12.68	480.57
November .....	34.7	8.88	308.14	41.4	12.57	520.40	36.5	12.66	462.09
December .....	34.8	8.86	308.33	42.4	12.63	535.51	36.8	12.77	469.94
<b>1987:</b>									
January .....	34.4	8.90	306.16	42.5	12.66	538.05	37.2	12.58	467.98
February .....	34.5	8.92	307.74	42.0	12.56	527.52	36.8	12.51	460.37
March .....	34.6	8.92	308.63	41.8	12.51	522.92	37.4	12.59	470.87
April .....	34.6	8.91	308.29	41.8	12.43	519.57	37.4	12.55	469.37
May <sup>a</sup> .....	34.8	8.93	310.76	42.4	12.42	526.61	38.6	12.61	486.75
June <sup>b</sup> .....	35.0	8.93	312.55	41.9	12.48	522.91	38.2	12.61	481.70

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	38.4	9.35	359.04
<b>Monthly data, not seasonally adjusted</b>										
<b>1986:</b>										
June .....	40.8	\$9.71	\$9.32	\$396.17	39.4	\$11.63	\$458.22	38.5	\$9.33	\$359.21
July .....	40.2	9.74	9.35	391.55	39.4	11.67	459.80	38.5	9.30	358.05
August .....	40.7	9.68	9.27	393.98	39.4	11.67	459.80	38.5	9.32	358.82
September .....	41.0	9.73	9.31	398.93	39.2	11.77	461.38	38.3	9.37	358.87
October .....	40.7	9.72	9.32	395.60	39.1	11.77	460.21	38.4	9.36	359.42
November .....	41.0	9.78	9.37	400.98	39.3	11.90	467.67	38.4	9.47	363.65
December .....	41.5	9.85	9.42	408.78	39.1	11.90	465.29	38.4	9.47	363.65
<b>1987:</b>										
January .....	40.8	9.84	9.44	401.47	38.5	11.89	457.77	38.1	9.49	361.57
February .....	40.8	9.84	9.44	401.47	39.0	11.93	465.27	37.9	9.55	361.95
March .....	40.9	9.85	9.44	402.87	38.9	11.90	462.91	37.9	9.53	361.19
April .....	40.4	9.87	9.48	398.75	38.8	11.94	463.27	38.1	9.53	363.09
May <sup>a</sup> .....	40.9	9.86	9.45	403.27	38.9	11.92	463.69	38.3	9.57	366.53
June <sup>b</sup> .....	41.1	9.88	9.45	406.07	39.3	12.01	471.99	38.4	9.56	367.10

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	8.35	303.94	32.5	8.16	265.20
<b>Monthly data, not seasonally adjusted</b>									
<b>1986:</b>									
June .....	29.5	\$6.00	\$177.00	36.5	\$8.37	\$305.51	32.6	\$8.10	\$264.06
July .....	29.9	5.98	178.80	36.3	8.30	301.29	32.8	8.04	263.71
August .....	29.9	5.97	178.50	36.5	8.34	304.41	32.8	8.04	263.71
September .....	29.1	6.06	176.35	36.2	8.39	303.72	32.4	8.19	265.36
October .....	29.0	6.06	175.74	36.4	8.39	305.40	32.4	8.23	266.65
November .....	29.0	6.08	176.32	36.5	8.57	312.81	32.4	8.33	269.89
December .....	29.4	6.07	178.46	36.5	8.48	309.52	32.4	8.32	269.57
<b>1987:</b>									
January .....	28.3	6.09	172.35	36.3	8.60	312.18	32.2	8.37	269.51
February .....	28.7	6.09	174.78	36.4	8.75	318.50	32.4	8.43	273.13
March .....	28.9	6.08	175.71	36.3	8.72	316.54	32.4	8.41	272.48
April .....	29.2	6.09	177.83	36.3	8.71	316.17	32.3	8.40	271.32
May <sup>p</sup> .....	29.3	6.09	178.44	36.3	8.71	316.17	32.4	8.38	271.51
June <sup>p</sup> .....	29.7	6.07	180.28	36.5	8.68	316.82	32.6	8.37	272.86

<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 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 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 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Total private ..</b>		34.7	34.9	34.6	34.8	35.0					
<b>Mining ..</b>		41.8	41.9	41.8	42.4	41.9					
Metal mining ..	10	40.9	41.1	41.7	41.7						
Iron ores .....	101	40.4	40.9	40.1	41.1						
Copper ores ..	102	41.0	42.0	43.3	42.3						
Coal mining .....	11,12	40.2	40.4	40.9	41.7						
Bituminous coal and lignite mining ..	12	40.2	40.4	41.0	41.8						
Oil and gas extraction .....	13	41.8	41.7	41.3	41.6						
Crude petroleum, natural gas, and natural gas liquids ..	131,2	41.6	42.1	40.4	40.8						
Oil and gas field services .....	138	41.9	41.5	41.8	42.0						
Nonmetallic minerals, except fuels .....	14	45.3	45.1	44.6	46.3						
Crushed and broken stone ..	142	46.8	46.9	45.4	47.9						
<b>Construction ..</b>		37.9	37.8	37.4	38.6	38.2					
General building contractors .....	15	37.5	37.3	37.3	38.1						
Residential building construction ..	152	36.9	36.7	36.8	37.8						
Operative builders .....	153	39.6	39.5	38.1	38.8						
Nonresidential building construction ..	154	37.9	37.9	37.8	38.4						
Heavy construction contractors .....	16	41.6	41.5	40.7	42.8						
Highway and street construction .....	161	41.7	42.3	40.3	43.8						
Heavy construction, except highway ..	162	41.6	41.1	40.9	42.1						
Special trade contractors .....	17	37.0	36.8	36.5	37.5						
Plumbing, heating, and air conditioning ..	171	38.0	38.2	37.7	38.4						
Painting, paper hanging, and decorating ..	172	35.1	35.2	35.7	36.3						
Electrical work .....	173	38.5	38.6	38.2	38.6						
Masonry, stonework, and plastering ..	174	35.5	35.0	34.4	35.4						
Carpentering and flooring .....	175	34.3	34.5	34.5	35.6						
Roofing and sheet metal work ..	176	34.3	34.1	32.8	34.7						
<b>Manufacturing ..</b>		40.6	40.8	40.4	40.9	41.1	3.3	3.4	3.3	3.6	3.7
<b>Durable goods ..</b>		41.2	41.4	41.1	41.5	41.7	3.3	3.5	3.4	3.7	3.8
Lumber and wood products .....	24	40.7	40.8	40.6	41.4	41.5	3.6	3.8	3.6	4.0	
Logging camps and logging contractors ..	241	41.0	41.2	40.0	40.8	-	3.9	4.1	3.8	4.5	
Sawmills and planing mills .....	242	41.8	41.6	41.6	42.5	4.2	4.5	4.4	4.7		
Sawmills and planing mills, general ..	2421	42.0	41.8	42.0	42.7	4.5	4.7	4.7	4.9		
Hardwood dimension and flooring .....	2426	41.0	41.0	40.4	42.0	3.2	3.6	3.4	4.1		
Millwork, plywood, and structural members ..	243	40.8	41.1	41.0	41.8	3.6	3.9	3.5	4.0		
Millwork .....	2431	40.8	41.2	41.1	42.2	3.1	3.6	2.8	3.8		
Wood kitchen cabinets .....	2434	39.3	40.6	40.3	40.2	3.0	3.5	3.3	3.3		
Hardwood veneer and plywood ..	2435	40.8	40.6	40.8	41.0	3.5	3.2	4.0	3.8		
Softwood veneer and plywood ..	2436	42.2	41.6	42.6	43.4	4.8	4.7	5.0	4.9		
Wood containers .....	244	38.4	38.5	38.0	38.4	2.4	2.5	2.8	2.9		
Wood buildings and mobile homes ..	245	38.3	39.3	38.4	39.7	2.2	2.6	2.1	2.9		
Mobile homes .....	2451	38.3	39.3	37.9	38.9	1.8	2.2	1.8	2.3		
Miscellaneous wood products ..	249	40.2	40.3	40.0	40.6	3.2	3.3	3.2	3.2		
Furniture and fixtures ..	25	39.2	39.8	38.8	39.4	39.7	2.3	2.5	2.2	2.5	
Household furniture .....	251	38.5	38.9	38.8	39.0	-	2.1	2.1	2.3	2.4	
Wood household furniture .....	2511	39.3	39.3	39.2	39.6	2.4	2.3	2.5	2.4		
Upholstered household furniture ..	2512	36.8	38.1	37.9	38.1	1.1	1.5	1.8	1.8		
Metal household furniture .....	2514	39.7	39.4	40.8	40.9	3.1	2.6	3.6	4.1		
Mattresses and bedsprings ..	2515	38.5	39.1	37.4	37.3	2.0	2.2	1.9	2.3		
Office furniture .....	252	40.1	41.4	39.0	40.0	2.6	3.1	2.1	2.8		
Public building and related furniture ..	253	39.3	40.1	39.3	40.0	2.4	3.2	2.4	2.6		
Partitions and fixtures .....	254	41.4	41.7	39.0	40.1	3.0	3.6	2.0	2.9		
Miscellaneous furniture and fixtures ..	259	39.9	40.4	38.4	39.7	2.2	2.5	2.1	2.2		
Stone, clay, and glass products ..	32	42.6	42.6	42.1	42.7	42.7	5.0	5.1	4.9	5.3	
Flat glass .....	321	44.6	43.9	45.7	46.4	-	6.1	6.2	6.5	7.1	
Glass and glassware, pressed or blown ..	322	41.8	41.5	41.3	41.1	4.7	4.6	4.5	4.6		

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Total private</b> .....		\$8.73	\$8.72	\$8.91	\$8.93	\$8.93	\$302.93	\$304.33	\$308.29	\$310.76	\$312.55
<b>Mining</b> .....		12.42	12.49	12.43	12.42	12.48	519.16	523.33	519.57	526.61	522.91
Metal mining .....	10	13.40	13.50	13.16	13.00		548.06	554.85	548.77	542.10	
Iron ores .....	101	13.75	14.02	15.25	14.36		555.50	573.42	611.53	590.20	
Copper ores .....	102	12.92	13.18	11.49	11.64		529.72	553.56	497.52	492.37	
Coal mining .....	11,12	15.20	15.26	15.52	15.58		611.04	616.50	634.77	649.69	
Bituminous coal and lignite mining .....	12	15.26	15.32	15.58	15.64		613.45	618.93	638.78	653.75	
Oil and gas extraction .....	13	11.62	11.70	11.47	11.47		485.72	487.89	473.71	477.15	
Crude petroleum, natural gas, and natural gas liquids .....	131,2	13.66	13.78	13.93	13.92		568.26	580.14	562.77	567.94	
Oil and gas field services .....	138	10.38	10.35	10.00	10.06		434.92	429.53	418.00	422.52	
Nonmetallic minerals, except fuels .....	14	10.35	10.38	10.52	10.57		468.86	468.14	469.19	489.39	
Crushed and broken stone .....	142	9.86	9.87	9.83	10.04		461.45	462.90	446.28	480.92	
<b>Construction</b> .....		12.37	12.34	12.55	12.61	12.61	468.82	466.45	469.37	486.75	481.70
General building contractors .....	15	11.35	11.28	11.58	11.64		425.63	420.74	431.93	443.48	
Residential building construction .....	152	10.80	10.71	10.92	10.98		398.52	393.06	401.86	415.04	
Operative builders .....	153	9.64	9.57	10.12	10.07		381.74	378.02	385.57	390.72	
Nonresidential building construction .....	154	12.04	12.02	12.38	12.47		456.32	455.56	467.96	478.85	
Heavy construction contractors .....	16	12.00	11.99	11.85	12.04		499.20	497.59	482.30	515.31	
Highway and street construction .....	161	11.55	11.77	11.52	11.91		481.64	497.87	464.26	521.66	
Heavy construction, except highway .....	162	12.25	12.12	12.03	12.14		509.60	498.13	492.03	511.09	
Special trade contractors .....	17	12.95	12.93	13.16	13.19		479.15	475.82	480.34	494.63	
Plumbing, heating, and air conditioning .....	171	13.08	13.08	13.44	13.47		497.04	499.66	506.69	517.25	
Painting, paper hanging, and decorating .....	172	12.14	12.33	12.40	12.58		426.11	434.02	442.68	456.65	
Electrical work .....	173	14.32	14.37	14.58	14.64		551.32	554.68	556.96	565.10	
Masonry, stonework, and plastering .....	174	13.15	13.08	13.28	13.44		466.83	457.80	456.83	475.78	
Carpentering and flooring .....	175	12.50	12.60	12.58	12.66		428.75	434.70	434.01	450.70	
Roofing and sheet metal work .....	176	11.47	11.39	11.38	11.43		393.42	388.40	373.26	396.62	
<b>Manufacturing</b> .....		9.72	9.71	9.87	9.86	9.88	394.63	396.17	398.75	403.27	406.07
<b>Durable goods</b> .....		10.28	10.26	10.39	10.39	10.42	423.54	424.76	427.03	431.19	434.51
Lumber and wood products .....	24	8.35	8.40	8.34	8.36	8.45	339.85	342.72	338.60	346.10	350.68
Logging camps and logging contractors .....	241	11.04	11.06	10.74	10.76	-	452.64	455.67	429.60	439.01	-
Sawmills and planing mills .....	242	8.62	8.67	8.54	8.49		360.32	360.67	355.26	360.83	
Sawmills and planing mills, general .....	2421	9.05	9.10	8.91	8.85		380.10	380.38	374.22	377.90	
Hardwood dimension and flooring .....	2426	6.46	6.55	6.74	6.78		264.86	268.55	272.30	284.76	
Millwork, plywood, and structural members .....	243	8.19	8.21	8.30	8.32		334.15	337.43	340.30	347.78	
Millwork .....	2431	8.45	8.44	8.57	8.63		344.76	347.73	352.23	364.19	
Wood kitchen cabinets .....	2434	7.46	7.53	7.65	7.63		293.18	305.72	308.30	306.73	
Hardwood veneer and plywood .....	2435	6.80	6.76	6.79	6.80		277.44	274.46	277.03	278.80	
Softwood veneer and plywood .....	2436	9.76	9.74	9.70	9.65		411.87	405.18	413.22	418.81	
Wood containers .....	244	5.93	5.90	6.07	6.12		227.71	227.15	230.66	235.01	
Wood buildings and mobile homes .....	245	7.53	7.60	7.87	7.85		288.40	298.68	302.21	311.65	
Mobile homes .....	2451	7.56	7.67	7.96	7.92		289.55	301.43	301.68	308.09	
Miscellaneous wood products .....	249	7.28	7.26	7.26	7.30		292.66	292.58	290.40	296.38	
Furniture and fixtures .....	25	7.39	7.47	7.58	7.63	7.61	289.69	297.31	294.10	300.62	302.12
Household furniture .....	251	6.79	6.85	6.99	7.04	-	261.42	266.47	271.21	274.56	-
Wood household furniture .....	2511	6.33	6.33	6.51	6.51		248.77	248.77	255.19	257.80	
Upholstered household furniture .....	2512	7.38	7.48	7.68	7.71		271.58	284.99	291.07	293.75	
Metal household furniture .....	2514	6.93	6.99	6.85	7.03		275.12	275.41	279.48	287.53	
Mattresses and bedsprings .....	2515	7.21	7.30	7.43	7.57		277.59	285.43	277.88	282.36	
Office furniture .....	252	8.32	8.45	8.64	8.65		333.63	349.83	336.96	346.00	
Public building and related furniture .....	253	7.93	7.86	8.02	8.11		311.65	315.19	315.19	324.40	
Partitions and fixtures .....	254	8.82	8.89	9.10	9.10		365.15	370.71	354.90	364.91	
Miscellaneous furniture and fixtures .....	259	7.73	7.84	8.02	7.96		308.43	316.74	307.97	316.01	
Stone, clay, and glass products .....	32	10.03	10.04	10.23	10.24	10.22	427.28	427.70	430.68	437.25	436.39
Flat glass .....	321	14.19	13.90	14.34	14.47	-	632.87	610.21	655.34	671.41	-
Glass and glassware, pressed or blown .....	322	10.91	11.00	11.44	11.33		456.04	456.50	472.47	465.66	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	42.5	42.0	41.9	41.9		5.8	5.8	5.5	5.9	
Pressed and blown glass, nec .....	3229	41.0	40.9	40.7	40.2		3.4	3.3	3.3	3.1	
Products of purchased glass .....	323	41.8	42.1	41.3	41.7		3.1	3.1	3.6	3.5	
Cement, hydraulic .....	324	40.8	41.0	41.5	41.2		3.0	2.8	3.5	3.3	
Structural clay products .....	325	41.4	41.8	42.0	41.9		3.8	4.1	4.1	4.1	
Pottery and related products .....	326	40.2	40.1	39.9	40.5		2.8	2.5	2.8	2.7	
Concrete, gypsum, and plaster products .....	327	44.5	44.7	43.3	44.9		7.0	7.2	6.3	7.3	
Concrete block and brick .....	3271	46.5	46.3	46.0	46.9		8.4	8.6	8.4	9.1	
Concrete products, nec .....	3272	44.1	43.8	42.6	43.4		6.3	6.2	5.3	5.9	
Ready-mixed concrete .....	3273	43.6	44.3	42.3	45.0		6.9	7.4	6.2	7.5	
Misc. nonmetallic mineral products .....	329	41.5	41.4	41.7	41.5		3.8	3.7	4.2	4.3	
Abrasive products .....	3291	41.2	41.1	40.1	40.5		2.6	2.6	2.6	3.2	
Asbestos products .....	3292	42.9	43.4	43.4	43.3		4.4	4.6	6.0	5.4	
Primary metal industries .....	33	41.7	41.8	42.5	42.9	43.3	3.9	4.0	4.4	4.7	
Blast furnaces and basic steel products .....	331	41.7	41.7	42.9	43.4	44.0	3.5	3.7	4.5	4.7	
Blast furnaces and steel mills .....	3312	41.6	41.6	42.9	43.5		3.5	3.6	4.5	4.7	
Steel pipe and tubes .....	3317	40.9	41.8	42.7	42.9		2.7	3.6	4.4	4.7	
Iron and steel foundries .....	332	41.2	41.5	42.1	42.7		3.8	4.0	4.5	5.0	
Gray iron foundries .....	3321	41.1	41.5	41.8	42.2		4.2	4.5	4.8	5.3	
Malleable iron foundries .....	3322	39.5	38.8	41.8	41.7		2.1	2.5	3.2	3.1	
Steel foundries, nec .....	3325	41.4	41.9	41.5	43.0		3.0	3.2	3.6	4.6	
Primary nonferrous metals .....	333	41.9	41.4	43.4	43.6		3.3	3.4	4.5	4.6	
Primary aluminum .....	3334	42.2	40.9	44.2	45.0		3.4	3.2	4.6	5.0	
Nonferrous rolling and drawing .....	335	42.6	42.4	42.9	43.3		5.2	5.1	5.0	5.4	
Copper rolling and drawing .....	3351	42.5	42.4	42.6	42.5		4.2	4.7	5.5	5.4	
Aluminum sheet, plate, and foil .....	3353	44.1	42.5	44.0	44.2		7.2	5.9	7.0	6.7	
Nonferrous wire drawing and insulating .....	3357	42.0	42.0	42.2	42.6		4.8	5.0	4.1	4.8	
Nonferrous foundries .....	336	41.1	41.6	40.9	41.3		3.3	3.3	3.1	3.3	
Aluminum foundries .....	3361	41.5	42.0	41.2	41.5		3.6	3.7	3.4	3.4	
Fabricated metal products .....	34	41.0	41.3	40.9	41.4	41.6	3.2	3.4	3.2	3.7	
Metal cans and shipping containers .....	341	43.9	44.4	43.8	44.2		5.5	6.0	5.5	5.9	
Metal cans .....	3411	44.2	44.5	43.8	44.0		5.6	6.0	5.6	5.7	
Cutlery, hand tools, and hardware .....	342	40.6	40.8	40.2	41.0		2.5	2.5	2.5	3.0	
Hand and edge tools, and hand saws and blades .....	3423,5	40.4	40.5	40.7	41.4		2.0	2.1	2.5	2.9	
Hardware, nec .....	3429	40.7	40.9	39.7	40.6		2.8	2.7	2.4	3.1	
Plumbing and heating, except electric .....	343	39.6	40.2	39.6	40.8		2.2	2.4	2.2	3.2	
Plumbing fittings and brass goods .....	3432	39.9	40.6	40.3	41.7		2.1	2.2	1.9	3.2	
Heating equipment, except electric .....	3433	38.1	38.8	38.5	39.8		1.3	1.5	2.1	2.5	
Fabricated structural metal products .....	344	40.7	40.7	40.1	40.6		3.0	3.2	2.7	3.2	
Fabricated structural metal .....	3441	41.3	41.7	41.2	41.8		3.5	3.8	3.0	3.7	
Metal doors, sash, and trim .....	3442	40.8	40.6	39.2	40.2		3.2	3.4	2.3	3.1	
Fabricated plate work (boiler shops) .....	3443	41.2	41.3	41.0	41.2		2.7	2.7	3.2	3.3	
Sheet metal work .....	3444	39.5	39.7	39.3	39.7		2.4	2.6	2.4	2.8	
Architectural metal work .....	3446	40.1	40.1	40.2	40.6		3.1	3.7	3.0	2.9	
Screw machine products, bolts, etc .....	345	42.3	42.4	42.2	42.9		4.1	4.3	4.4	4.9	
Screw machine products .....	3451	40.9	40.6	40.8	40.9		3.2	3.1	3.0	3.2	
Bolts, nuts, rivets, and washers .....	3452	43.7	44.2	43.7	44.9		5.0	5.5	5.8	6.7	
Metal forgings and stampings .....	346	41.9	42.7	42.0	42.1		4.0	4.6	4.2	4.5	
Iron and steel forgings .....	3462	41.7	41.9	41.0	41.7		3.3	3.6	3.2	3.3	
Automotive stampings .....	3465	43.2	44.8	43.8	43.0		4.9	6.1	5.5	5.5	
Metal stampings, nec .....	3469	40.6	40.6	40.1	40.9		3.1	3.1	3.1	3.5	
Metal services, nec .....	347	40.7	40.7	40.3	40.9		3.3	3.4	3.1	3.4	
Plating and polishing .....	3471	40.2	40.4	40.4	40.5		3.0	3.2	3.1	3.3	
Metal coating and allied services .....	3479	41.6	41.4	40.2	41.7		4.0	3.9	3.2	3.7	
Ordnance and accessories, nec .....	348	40.3	40.3	40.9	41.0		2.2	2.2	2.7	3.0	
Ammunition, except for small arms, nec .....	3483	39.1	39.0	39.9	40.1		1.9	1.9	2.2	2.4	
Misc. fabricated metal products .....	349	40.1	40.2	40.4	41.2		2.4	2.4	2.8	3.3	
Valves and pipe fittings .....	3494	39.3	39.6	40.6	41.4		2.0	2.2	2.8	3.4	
Misc. fabricated wire products .....	3496	40.8	40.9	40.2	41.0		2.5	2.6	2.4	3.2	
Machinery, except electrical .....	35	41.5	41.7	41.6	42.0	42.2	3.2	3.4	3.4	3.7	
Engines and turbines .....	351	42.2	42.7	42.8	42.1	-	3.6	3.8	5.7	4.5	
Turbines and turbine generator sets .....	3511	40.1	40.6	39.0	39.4		4.0	4.2	3.3	3.5	
Internal combustion engines, nec .....	3519	43.0	43.5	44.1	43.0		3.5	3.7	6.6	4.9	
Farm and garden machinery .....	352	40.7	40.8	41.0	41.5		2.6	2.3	3.3	3.5	
Farm machinery and equipment .....	3523	40.9	40.8	40.8	42.0		2.6	2.4	3.4	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 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	\$11.26	\$11.39	\$12.00	\$11.83		\$478.55	\$478.38	\$502.80	\$495.68	
Pressed and blown glass, nec .....	3229	10.49	10.53	10.80	10.74		430.09	430.68	439.56	431.75	
Products of purchased glass .....	323	8.82	8.76	9.05	8.93		368.68	368.80	373.77	372.38	
Cement, hydraulic .....	324	13.33	13.32	13.50	13.45		543.86	546.12	560.25	554.14	
Structural clay products .....	325	8.17	8.20	8.49	8.45		338.24	342.76	356.58	354.06	
Pottery and related products .....	326	8.86	8.83	8.91	8.90		356.17	354.08	355.51	360.45	
Concrete, gypsum, and plaster products .....	327	9.80	9.81	9.90	10.03		436.10	438.51	428.67	450.35	
Concrete block and brick .....	3271	8.74	8.78	8.83	8.87		406.41	406.51	406.18	416.00	
Concrete products, nec .....	3272	8.55	8.55	8.72	8.82		377.06	374.49	371.47	382.79	
Ready-mixed concrete .....	3273	10.79	10.76	10.76	10.89		470.44	476.67	455.15	490.05	
Misc. nonmetallic mineral products .....	329	10.17	10.23	10.33	10.31		422.06	423.52	430.76	427.87	
Abrasive products .....	3291	9.65	9.62	9.73	9.76		397.58	395.38	390.17	395.28	
Asbestos products .....	3292	10.23	10.24	10.36	10.28		438.87	444.42	449.62	445.12	
Primary metal industries .....	33	11.98	11.89	11.96	11.93	\$11.93	499.57	497.00	508.30	511.80	\$516.57
Blast furnaces and basic steel products .....	331	13.85	13.86	13.84	13.73	13.72	577.55	577.96	593.74	595.88	603.68
Blast furnaces and steel mills .....	3312	14.58	14.60	14.55	14.41	-	606.53	607.36	624.20	626.84	-
Steel pipe and tubes .....	3317	10.80	10.83	11.05	11.16		441.72	452.69	471.84	478.76	
Iron and steel foundries .....	332	10.55	10.55	10.71	10.75		434.66	437.83	450.89	459.03	
Gray iron foundries .....	3321	11.00	11.00	11.15	11.18		452.10	456.50	466.07	471.80	
Malleable iron foundries .....	3322	11.28	11.21	11.60	11.59		445.56	434.95	484.88	483.30	
Steel foundries, nec .....	3325	9.72	9.77	10.10	10.19		402.41	409.36	419.15	438.17	
Primary nonferrous metals .....	333	13.79	13.50	12.90	12.92		577.80	558.90	559.86	563.31	
Primary aluminum .....	3334	14.38	13.76	13.23	13.25		606.84	562.78	584.77	596.25	
Nonferrous rolling and drawing .....	335	11.34	11.04	11.33	11.38		483.08	468.10	486.06	492.75	
Copper rolling and drawing .....	3351	10.15	10.23	10.55	10.57		431.38	433.75	449.43	449.23	
Aluminum sheet, plate, and foil .....	3353	14.35	13.62	13.77	13.96		632.84	578.85	605.88	617.03	
Nonferrous wire drawing and insulating .....	3357	10.96	10.76	11.20	11.30		460.32	451.92	472.64	481.38	
Nonferrous foundries .....	336	9.55	9.52	9.61	9.49		392.51	396.03	393.05	391.94	
Aluminum foundries .....	3361	9.85	9.82	9.95	9.74		408.78	412.44	409.94	404.21	
Fabricated metal products .....	34	9.87	9.90	9.98	9.97	10.03	404.67	408.87	408.18	412.76	417.25
Metal cans and shipping containers .....	341	13.43	13.37	13.14	13.12	-	589.58	593.63	575.53	579.90	-
Metal cans .....	3411	14.19	14.10	13.91	13.91		627.20	627.45	609.26	612.04	
Cutlery, hand tools, and hardware .....	342	9.79	9.74	9.91	9.89		397.47	397.39	398.38	405.49	
Hand and edge tools, and hand saws and blades .....	3423,5	8.99	8.97	9.15	9.11		363.20	363.29	372.41	377.15	
Hardware, nec .....	3429	10.21	10.14	10.30	10.29		415.55	414.73	408.91	417.77	
Plumbing and heating, except electric .....	343	8.88	8.91	9.14	9.16		351.65	358.18	361.94	373.73	
Plumbing fittings and brass goods .....	3432	8.58	8.55	8.65	8.74		342.34	347.13	348.60	364.46	
Heating equipment, except electric .....	3433	8.67	8.79	9.16	9.13		330.33	341.05	352.66	363.37	
Fabricated structural metal products .....	344	9.12	9.12	9.22	9.23		371.18	371.18	369.72	374.74	
Fabricated structural metal .....	3441	9.61	9.60	9.70	9.78		396.89	400.32	399.64	408.80	
Metal doors, sash, and trim .....	3442	7.49	7.51	7.68	7.68		305.59	304.91	301.06	308.74	
Fabricated plate work (boiler shops) .....	3443	10.15	10.20	10.25	10.20		418.18	421.26	420.25	420.24	
Sheet metal work .....	3444	9.51	9.48	9.54	9.58		375.65	376.36	374.92	380.33	
Architectural metal work .....	3446	8.70	8.76	8.80	8.79		348.87	351.28	353.76	356.87	
Screw machine products, bolts, etc .....	345	9.35	9.39	9.61	9.77		395.51	398.14	405.54	419.13	
Screw machine products .....	3451	8.76	8.80	8.88	9.01		358.28	357.28	362.30	368.51	
Bolts, nuts, rivets, and washers .....	3452	9.92	9.96	10.31	10.49		433.50	440.23	450.55	471.00	
Metal forgings and stampings .....	346	11.81	11.93	11.84	11.77		494.84	509.41	497.28	495.52	
Iron and steel forgings .....	3462	12.35	12.39	12.45	12.39		515.00	519.14	510.45	516.66	
Automotive stampings .....	3465	13.74	13.96	13.75	13.70		593.57	625.41	602.25	589.10	
Metal stampings, nec .....	3469	9.09	9.06	9.17	9.19		369.05	367.84	367.72	375.87	
Metal services, nec .....	347	7.89	7.91	8.04	7.96		321.12	321.94	324.01	325.56	
Plating and polishing .....	3471	7.72	7.79	7.96	7.92		310.34	314.72	321.58	320.76	
Metal coating and allied services .....	3479	8.21	8.15	8.18	8.03		341.54	337.41	328.84	334.85	
Ordnance and accessories, nec .....	348	10.68	10.67	10.86	10.86		430.40	430.00	444.17	445.26	
Ammunition, except for small arms, nec .....	3483	10.35	10.34	10.46	10.45		404.69	403.26	417.35	419.05	
Misc. fabricated metal products .....	349	9.04	9.01	9.25	9.30		362.50	362.20	373.70	383.16	
Valves and pipe fittings .....	3494	9.77	9.76	9.83	9.85		383.96	386.50	399.10	407.79	
Misc. fabricated wire products .....	3496	8.12	8.06	8.40	8.46		331.30	329.65	337.68	346.86	
Machinery, except electrical .....	35	10.58	10.58	10.70	10.69	10.76	439.07	441.19	445.12	448.98	454.07
Engines and turbines .....	351	13.00	12.95	13.51	13.28		548.60	552.97	578.23	559.09	
Turbines and turbine generator sets .....	3511	12.94	12.90	12.76	12.66		518.89	523.74	497.64	498.80	
Internal combustion engines, nec .....	3519	13.02	12.97	13.74	13.48		559.86	564.20	605.93	579.64	
Farm and garden machinery .....	352	10.30	10.41	10.12	10.12		419.21	424.73	414.92	419.98	
Farm machinery and equipment .....	3523	11.25	11.26	11.02	10.99		460.13	459.41	449.62	461.58	

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Durable goods—Continued</b>											
Machinery, except electrical—Continued											
Construction and related machinery .....	353	41.3	41.5	41.8	42.3		2.4	2.8	2.9	3.5	
Construction machinery .....	3531	43.0	42.2	42.6	42.7		2.3	2.5	2.5	2.8	
Mining machinery .....	3532	40.6	41.0	41.2	42.6		2.2	2.3	3.1	4.4	
Oil field machinery .....	3533	39.5	39.9	42.8	43.2		2.2	2.6	5.0	5.8	
Conveyors and conveying equipment .....	3535	41.7	42.6	41.8	42.2		3.2	3.8	3.4	3.7	
Industrial trucks and tractors .....	3537	39.8	40.4	39.7	40.1		2.4	2.9	2.0	2.3	
Metalworking machinery .....	354	42.3	42.2	41.9	42.1		4.5	4.4	4.0	4.3	
Machine tools, metal cutting types .....	3541	42.9	42.6	41.3	41.7		4.1	4.0	2.8	3.3	
Machine tools, metal forming types .....	3542	41.6	42.0	40.4	41.4		4.5	4.5	3.5	4.1	
Special dies, tools, jigs, and fixtures .....	3544	43.3	43.1	42.9	42.7		5.5	5.3	4.9	4.9	
Machine tool accessories .....	3545	40.4	40.6	40.7	41.2		3.3	3.6	3.3	3.6	
Power driven hand tools .....	3546	39.8	40.5	39.9	40.9		2.2	2.3	2.1	3.3	
Special industry machinery .....	355	41.6	41.7	41.2	42.0		3.3	3.3	3.3	3.8	
Food products machinery .....	3551	42.0	41.1	40.9	42.1		2.9	2.4	2.8	3.5	
Textile machinery .....	3552	41.6	42.0	42.4	43.2		3.2	3.5	3.7	4.2	
Printing trades machinery .....	3555	41.3	41.6	39.1	40.8		3.7	3.7	2.8	3.9	
General industrial machinery .....	356	41.5	41.7	41.6	42.0		3.0	3.2	3.1	3.4	
Pumps and pumping equipment .....	3561	41.0	41.4	41.2	42.5		2.1	2.1	2.7	3.5	
Ball and roller bearings .....	3562	43.0	43.3	43.6	43.3		4.8	5.0	4.8	4.6	
Air and gas compressors .....	3563	42.1	41.3	41.4	42.2		3.1	2.5	2.7	3.2	
Blowers and fans .....	3564	40.4	41.5	39.8	41.5		2.5	2.7	1.5	2.6	
Speed changers, drives, and gears .....	3566	42.9	42.3	43.0	41.9		3.7	3.6	3.9	3.4	
Power transmission equipment, nec .....	3568	41.0	40.6	41.0	40.9		3.1	3.2	3.6	3.5	
Office and computing machines .....	357	41.9	42.3	42.2	42.8		2.5	3.0	3.2	3.4	
Electronic computing equipment .....	3573	41.9	42.3	42.1	42.6		2.3	2.9	3.2	3.3	
Refrigeration and service machinery .....	358	41.0	41.4	40.9	41.4		2.9	3.2	2.7	3.2	
Refrigeration and heating equipment .....	3585	41.4	42.0	40.8	41.5		3.3	3.5	2.4	3.1	
Misc. machinery, except electrical .....	359	40.9	41.0	41.1	41.6		3.4	3.4	3.4	3.7	
Carburetors, pistons, rings, and valves .....	3592	40.9	41.0	41.4	41.1		3.5	3.6	3.6	3.4	
Machinery, except electrical, nec .....	3599	40.9	41.0	41.0	41.7		3.4	3.4	3.4	3.7	
Electrical and electronic equipment .....	36	40.8	40.9	40.3	40.6	40.9	2.6	2.7	2.5	2.7	
Electric distributing equipment .....	361	41.3	41.4	39.8	40.6	-	2.6	2.9	2.0	2.3	
Transformers .....	3612	42.8	42.9	40.4	41.4		2.7	3.1	1.8	2.5	
Switchgear and switchboard apparatus .....	3613	40.0	40.0	39.3	39.8		2.4	2.7	2.2	2.2	
Electrical industrial apparatus .....	362	40.3	40.9	40.5	41.0		2.3	2.8	2.5	3.0	
Motors and generators .....	3621	40.6	41.1	40.4	40.9		2.6	3.2	2.8	3.2	
Industrial controls .....	3622	39.6	40.3	39.9	40.1		1.8	2.2	1.8	2.0	
Household appliances .....	363	40.4	40.1	40.1	39.6		2.6	2.7	2.4	2.4	
Household refrigerators and freezers .....	3632	41.2	40.7	41.0	40.1		4.0	4.0	2.7	2.9	
Household laundry equipment .....	3633	40.2	40.0	40.5	40.8		2.0	1.8	2.1	2.5	
Electric housewares and fans .....	3634	40.7	39.5	40.5	40.0		2.3	2.1	2.4	2.4	
Electric lighting and wiring equipment .....	364	40.1	40.5	39.5	39.7		2.5	2.6	2.4	2.4	
Electric lamps .....	3641	41.1	41.1	40.1	40.0		2.6	2.7	2.6	2.7	
Current-carrying wiring devices .....	3643	40.8	40.8	39.3	39.7		2.5	2.7	2.4	2.4	
Noncurrent-carrying wiring devices .....	3644	39.5	39.9	40.8	40.7		1.3	2.0	2.5	2.8	
Residential lighting fixtures .....	3645	37.7	39.5	37.6	37.9		1.1	1.2	.9	1.2	
Radio and TV receiving equipment .....	365	40.2	40.6	40.3	40.4		2.6	2.7	2.0	1.9	
Radio and TV receiving sets .....	3651	40.5	40.7	40.6	40.4		2.4	2.6	1.4	1.4	
Communication equipment .....	366	41.2	41.3	41.0	41.3		2.5	2.5	2.3	2.5	
Telephone and telegraph apparatus .....	3661	41.1	40.5	41.2	42.2		2.1	1.8	1.8	2.5	
Radio and TV communication equipment .....	3662	41.3	41.6	40.9	41.0		2.7	2.7	2.4	2.5	
Electronic components and accessories .....	367	41.0	41.0	40.3	40.7		2.7	2.8	3.0	3.0	
Electronic tubes .....	3671-3	43.7	43.2	42.8	42.1		2.5	2.6	2.5	2.6	
Semiconductors and related devices .....	3674	40.7	41.2	40.3	40.5		3.0	3.2	4.1	3.3	
Electronic components, nec .....	3679	41.1	41.1	40.2	41.0		2.6	2.8	2.8	3.0	
Misc. electrical equipment and supplies .....	369	41.3	41.2	39.9	40.6		3.0	2.9	2.7	2.9	
Storage batteries .....	3691	40.9	41.0	38.9	41.0		1.8	2.3	1.8	3.1	
Engine electrical equipment .....	3694	42.7	41.9	40.7	41.2		4.2	3.8	3.8	3.7	

See footnotes at end of table.



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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	\$11.12	\$11.11	\$11.12	\$11.11		\$459.26	\$461.07	\$464.82	\$469.95	
Construction machinery .....	3531	12.25	12.28	12.43	12.36		526.75	518.22	529.52	527.77	
Mining machinery .....	3532	11.35	11.41	11.20	11.32		460.81	467.81	461.44	482.23	
Oil field machinery .....	3533	11.36	11.33	11.34	11.36		448.72	452.07	485.35	490.75	
Conveyors and conveying equipment .....	3535	10.01	9.98	9.70	9.71		417.42	425.15	405.46	409.76	
Industrial trucks and tractors .....	3537	9.52	9.59	9.66	9.69		378.90	387.44	383.50	388.57	
Metalworking machinery .....	354	10.97	10.95	11.08	11.08		464.03	462.09	464.25	466.47	
Machine tools, metal cutting types .....	3541	10.97	11.03	10.93	10.98		470.61	469.88	451.41	457.87	
Machine tools, metal forming types .....	3542	11.53	11.46	11.39	11.46		479.65	481.32	460.16	474.44	
Special dies, tools, jigs, and fixtures .....	3544	11.67	11.64	11.86	11.83		505.31	501.68	508.79	505.14	
Machine tool accessories .....	3545	9.83	9.81	9.94	9.96		397.13	398.29	404.56	410.35	
Power driven hand tools .....	3546	8.46	8.41	8.50	8.52		336.71	340.61	339.15	348.47	
Special industry machinery .....	355	10.41	10.41	10.54	10.59		433.06	434.10	434.25	444.78	
Food products machinery .....	3551	10.57	10.66	10.59	10.66		443.94	438.13	433.13	448.79	
Textile machinery .....	3552	8.43	8.48	8.60	8.76		350.69	356.16	364.64	378.43	
Printing trades machinery .....	3555	10.83	10.87	11.24	11.30		447.28	452.19	439.48	461.04	
General industrial machinery .....	356	10.24	10.22	10.30	10.34		424.96	426.17	428.48	434.28	
Pumps and pumping equipment .....	3561	10.83	10.82	11.02	11.11		444.03	447.95	454.02	472.18	
Ball and roller bearings .....	3562	10.77	10.72	10.88	10.91		463.11	464.18	474.37	472.40	
Air and gas compressors .....	3563	10.01	9.96	10.20	10.32		421.42	411.35	422.28	435.50	
Blowers and fans .....	3564	9.06	9.09	9.14	9.13		366.02	377.24	363.77	378.90	
Speed changers, drives, and gears .....	3566	10.45	10.48	10.02	10.12		448.31	443.30	430.86	424.03	
Power transmission equipment, nec .....	3568	10.24	10.15	10.54	10.50		419.84	412.09	432.14	429.45	
Office and computing machines .....	357	9.87	9.91	10.18	10.22		413.55	419.19	429.60	437.42	
Electronic computing equipment .....	3573	9.86	9.87	10.19	10.22		413.13	417.50	429.00	435.37	
Refrigeration and service machinery .....	358	10.23	10.24	10.26	10.24		419.43	423.94	419.63	423.94	
Refrigeration and heating equipment .....	3585	10.51	10.51	10.44	10.44		435.11	441.42	425.95	433.26	
Misc. machinery, except electrical .....	359	10.24	10.23	10.37	10.38		418.82	419.43	426.21	431.81	
Carburetors, pistons, rings, and valves .....	3592	12.59	12.59	12.59	12.67		514.93	516.19	521.23	520.74	
Machinery, except electrical, nec .....	3599	9.84	9.83	10.00	10.01		402.46	403.03	410.00	417.42	
Electrical and electronic equipment .....	36	9.63	9.59	9.82	9.83	\$9.82	392.90	392.23	395.75	399.10	\$401.64
Electric distributing equipment .....	361	8.90	8.90	9.11	9.10	-	367.57	368.46	362.58	369.46	-
Transformers .....	3612	8.78	8.75	8.95	8.93		375.78	375.38	361.58	369.70	
Switchgear and switchboard apparatus .....	3613	9.02	9.04	9.27	9.28		360.80	361.60	364.31	369.34	
Electrical industrial apparatus .....	362	9.65	9.71	9.72	9.75		388.90	397.14	393.66	399.75	
Motors and generators .....	3621	9.56	9.64	9.62	9.61		388.14	396.20	388.65	393.05	
Industrial controls .....	3622	9.43	9.57	9.57	9.60		373.43	385.67	381.84	384.96	
Household appliances .....	363	9.61	9.57	9.67	9.66		388.24	383.76	387.77	382.54	
Household refrigerators and freezers .....	3632	10.90	10.88	11.01	10.98		449.08	442.82	451.41	440.30	
Household laundry equipment .....	3633	11.17	11.16	11.41	11.50		449.03	446.40	462.11	469.20	
Electric housewares and fans .....	3634	7.36	7.21	7.34	7.36		299.55	284.80	297.27	294.40	
Electric lighting and wiring equipment .....	364	8.87	8.85	9.10	9.07		355.69	358.43	359.45	360.08	
Electric lamps .....	3641	9.79	9.80	10.11	10.20		402.37	402.78	405.41	408.00	
Current-carrying wiring devices .....	3643	8.36	8.34	8.64	8.60		341.09	340.27	339.55	341.42	
Noncurrent-carrying wiring devices .....	3644	9.18	9.30	9.36	9.35		362.61	371.07	381.89	380.55	
Residential lighting fixtures .....	3645	6.60	6.61	6.65	6.72		248.82	261.10	250.04	254.69	
Radio and TV receiving equipment .....	365	9.48	9.39	9.32	9.26		381.10	381.23	375.60	374.10	
Radio and TV receiving sets .....	3651	9.87	9.77	9.62	9.52		399.74	397.64	390.57	384.61	
Communication equipment .....	366	11.26	11.20	11.64	11.68		463.91	462.56	477.24	482.38	
Telephone and telegraph apparatus .....	3661	11.06	10.69	11.13	11.10		454.57	432.95	458.56	468.42	
Radio and TV communication equipment .....	3662	11.34	11.34	11.82	11.90		468.34	471.74	483.44	487.90	
Electronic components and accessories .....	367	8.57	8.62	8.87	8.85		351.37	353.42	357.46	360.20	
Electronic tubes .....	3671-3	10.61	10.69	11.08	10.95		463.66	461.81	474.22	461.00	
Semiconductors and related devices .....	3674	9.99	10.13	10.51	10.52		406.59	417.36	423.55	426.06	
Electronic components, nec .....	3679	7.87	7.86	8.03	8.04		323.46	323.05	322.81	329.64	
Misc. electrical equipment and supplies .....	369	10.61	10.54	10.45	10.56		438.19	434.25	416.96	428.74	
Storage batteries .....	3691	10.88	10.99	10.96	11.04		444.99	450.59	426.34	452.64	
Engine electrical equipment .....	3694	11.42	11.26	11.05	11.22		487.63	471.79	449.74	462.26	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	42.1	42.3	41.9	42.2	42.0	4.1	4.1	4.0	4.2	
Motor vehicles and equipment .....	371	42.0	42.6	42.3	42.6	42.5	4.0	4.1	4.1	4.4	
Motor vehicles and car bodies .....	3711	41.5	41.7	42.1	42.2	-	3.7	3.6	4.1	4.2	
Truck and bus bodies .....	3713	41.0	41.0	41.4	42.0		3.5	3.7	3.5	3.9	
Motor vehicle parts and accessories .....	3714	42.7	43.8	42.7	43.1		4.5	4.7	4.4	4.7	
Truck trailers .....	3715	41.2	41.7	40.7	41.1		2.9	3.5	2.7	3.4	
Aircraft and parts .....	372	42.7	42.8	42.0	42.3		4.7	4.8	4.3	4.7	
Aircraft .....	3721	42.1	42.3	41.6	42.1		4.4	4.3	3.9	4.3	
Aircraft engines and engine parts .....	3724	42.4	42.6	41.8	42.2		4.7	5.0	4.2	4.6	
Aircraft equipment, nec .....	3728	43.7	43.5	42.6	42.8		5.0	5.3	5.0	5.2	
Ship and boat building and repairing .....	373	41.2	40.5	40.5	40.8		3.5	3.2	2.7	3.0	
Ship building and repairing .....	3731	41.2	40.4	40.4	40.5		3.5	3.3	2.5	2.8	
Boat building and repairing .....	3732	41.2	40.7	40.7	41.3		3.5	2.9	3.1	3.6	
Railroad equipment .....	374	39.5	40.0	39.9	40.1		1.4	1.7	2.0	1.3	
Guided missiles, space vehicles, and parts .....	376	42.2	42.2	42.3	42.0		4.1	4.2	4.2	3.9	
Guided missiles and space vehicles .....	3761	42.6	42.5	42.5	42.1		4.5	4.7	4.5	4.0	
Miscellaneous transportation equipment .....	379	40.9	40.0	40.1	39.5		3.5	3.0	3.5	3.3	
Travel trailers and campers .....	3792	39.1	38.6	38.1	37.7		2.6	2.6	2.1	1.9	
Instruments and related products .....	38	40.6	40.9	40.8	41.2	41.5	2.4	2.5	2.5	2.8	
Engineering and scientific instruments .....	381	41.6	41.3	40.9	41.2		2.9	2.9	2.4	3.2	
Measuring and controlling devices .....	382	40.2	40.9	40.8	41.0		1.9	2.1	2.3	2.5	
Environmental controls .....	3822	39.0	40.1	39.6	40.3		1.4	1.9	2.5	2.7	
Process control instruments .....	3823	40.4	41.2	42.3	42.2		2.4	2.6	2.8	2.9	
Instruments to measure electricity .....	3825	40.0	41.0	39.8	40.0		1.8	1.9	1.9	2.1	
Optical instruments and lenses .....	383	41.8	41.8	40.8	41.5		2.8	3.0	2.6	2.5	
Medical instruments and supplies .....	384	40.7	40.9	40.3	40.9		2.6	2.7	2.5	2.9	
Surgical and medical instruments .....	3841	40.6	41.2	41.0	41.7		2.6	2.7	2.9	3.3	
Surgical appliances and supplies .....	3842	40.9	40.8	39.6	40.0		2.8	2.8	2.1	2.4	
Ophthalmic goods .....	385	39.8	39.9	40.1	40.4		2.3	2.2	2.6	2.6	
Photographic equipment and supplies .....	386	41.4	40.8	43.0	42.8		2.9	2.9	3.5	3.4	
Watches, clocks, and watchcases .....	387	39.0	39.9	39.3	41.0		1.2	1.5	1.8	2.6	
Miscellaneous manufacturing .....	39	39.4	39.6	38.8	39.1	39.2	2.1	2.2	2.2	2.4	
Jewelry, silverware, and plated ware .....	391	38.2	38.1	37.9	38.3	-	1.7	1.6	1.9	1.9	
Jewelry, precious metal .....	3911	37.1	37.1	36.9	37.3		1.4	1.3	1.5	1.4	
Musical instruments .....	393	39.7	41.3	40.5	40.7		2.5	3.3	2.9	3.3	
Toys and sporting goods .....	394	39.8	39.8	38.8	39.0		2.1	2.0	2.0	2.1	
Dolls, games, toys, and children's vehicles .....	3942,4	38.9	39.0	38.3	38.3		1.9	2.0	1.8	1.9	
Sporting and athletic goods, nec .....	3949	40.6	40.4	39.1	39.7		2.3	2.0	2.1	2.3	
Pens, pencils, office, and art supplies .....	395	39.4	39.9	40.0	39.9		1.6	2.1	1.9	2.3	
Costume jewelry and notions .....	396	38.6	39.2	36.2	37.1		2.0	2.1	2.2	2.8	
Costume jewelry .....	3961	37.9	38.4	33.7	34.8		1.7	1.8	1.7	2.5	
Miscellaneous manufactures .....	399	39.8	39.8	39.8	40.0		2.3	2.5	2.4	2.7	
Signs and advertising displays .....	3993	40.0	40.2	39.6	39.8		2.4	2.5	2.3	2.5	
<b>Nondurable goods</b> .....		39.8	39.9	39.5	40.1	40.3	3.2	3.2	3.1	3.5	3.6
Food and kindred products .....	20	40.1	40.0	39.3	40.1	40.2	3.8	3.8	3.4	3.8	-
Meat products .....	201	40.0	39.8	38.5	39.4	-	3.9	3.8	2.9	3.6	
Meat packing plants .....	2011	42.1	41.3	40.7	41.2		4.9	4.6	3.9	4.5	
Sausages and other prepared meats .....	2013	40.9	40.2	39.9	40.4		3.9	3.5	3.1	3.7	
Poultry dressing plants .....	2016	38.1	38.4	36.4	37.9		3.2	3.2	2.2	3.0	
Dairy products .....	202	41.4	41.6	41.3	41.6		4.5	4.6	4.5	4.8	
Cheese, natural and processed .....	2022	39.5	39.8	38.9	39.5		3.6	3.7	3.9	4.0	
Fluid milk .....	2026	42.2	42.3	42.6	42.7		5.0	5.2	5.2	5.2	
Preserved fruits and vegetables .....	203	38.7	38.6	37.9	38.9		2.7	3.3	2.7	2.9	
Canned specialties .....	2032	37.4	39.8	37.2	38.1		3.3	4.4	1.4	1.9	
Canned fruits and vegetables .....	2033	38.9	36.9	37.7	39.2		3.1	3.3	2.8	3.1	
Frozen fruits and vegetables .....	2037	37.3	37.6	36.5	38.9		2.3	3.1	2.8	2.9	
Grain mill products .....	204	43.2	43.4	43.0	43.5		4.7	5.3	5.3	5.4	
Flour and other grain mill products .....	2041	45.0	45.2	46.2	46.8		4.1	4.5	6.0	5.9	
Prepared feeds, nec .....	2048	42.3	42.9	43.0	43.0		4.6	5.4	5.6	5.8	
Bakery products .....	205	39.7	39.9	40.0	40.1		3.6	3.8	3.9	4.0	
Bread, cake, and related products .....	2051	39.1	39.3	39.1	39.4		3.8	4.0	4.0	4.2	
Cookies and crackers .....	2052	41.4	41.6	42.5	41.8		3.1	3.4	3.8	3.5	

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 1986	June 1986	Apr. 1987	May 1987 <sup>a</sup>	June 1987 <sup>a</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>a</sup>	June 1987 <sup>a</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$12.73	\$12.72	\$12.80	\$12.83	\$12.94	\$535.93	\$538.06	\$536.32	\$541.43	\$543.48
Motor vehicles and equipment .....	371	13.39	13.33	13.40	13.41	13.52	562.38	567.86	566.82	571.27	574.60
Motor vehicles and car bodies .....	3711	14.99	14.78	15.06	15.08	-	622.09	616.33	634.03	636.38	
Truck and bus bodies .....	3713	10.70	10.72	11.36	11.47		438.70	439.52	470.30	481.74	
Motor vehicle parts and accessories .....	3714	12.67	12.69	12.61	12.61		541.01	555.82	538.45	543.49	
Truck trailers .....	3715	9.45	9.58	9.37	9.38		389.34	399.49	381.36	385.52	
Aircraft and parts .....	372	12.74	12.79	13.02	13.09		544.00	547.41	546.84	553.71	
Aircraft .....	3721	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )		-	-	-	-	
Aircraft engines and engine parts .....	3724	\$12.89	\$12.91	\$13.05	\$13.09		546.54	549.97	545.49	552.40	
Aircraft equipment, nec .....	3728	11.79	11.86	12.11	12.19		515.22	515.91	515.89	521.73	
Ship and boat building and repairing .....	373	10.59	10.50	10.19	10.27		436.31	425.25	412.70	419.02	
Ship building and repairing .....	3731	11.77	11.67	11.42	11.58		484.92	471.47	461.37	468.99	
Boat building and repairing .....	3732	8.03	7.99	7.94	7.96		330.84	325.19	323.16	328.75	
Railroad equipment .....	374	12.19	12.11	12.17	11.87		481.51	484.40	485.58	475.99	
Guided missiles, space vehicles, and parts .....	376	12.03	12.05	12.42	12.52		507.67	508.51	525.37	525.84	
Guided missiles and space vehicles .....	3761	12.26	12.35	12.79	12.88		522.28	524.88	543.58	542.25	
Miscellaneous transportation equipment .....	379	10.60	10.50	10.65	10.68		433.54	420.00	427.07	421.86	
Travel trailers and campers .....	3792	9.09	9.04	8.79	8.95		355.42	348.94	334.90	337.42	
Instruments and related products .....	38	9.40	9.40	9.67	9.68	9.68	381.64	384.46	394.54	398.82	401.72
Engineering and scientific instruments .....	381	10.18	10.16	10.55	10.67	-	423.49	419.61	431.50	439.60	
Measuring and controlling devices .....	382	9.15	9.25	9.48	9.56		367.83	378.33	386.78	391.96	
Environmental controls .....	3822	8.66	8.70	9.06	8.90		337.74	348.87	358.78	358.67	
Process control instruments .....	3823	9.35	9.39	9.41	9.60		377.74	386.87	398.04	405.12	
Instruments to measure electricity .....	3825	9.28	9.45	9.60	9.74		371.20	387.45	382.08	389.60	
Optical instruments and lenses .....	383	10.35	10.38	10.60	10.53		432.63	433.88	432.48	437.00	
Medical instruments and supplies .....	384	8.40	8.38	8.66	8.63		341.88	342.74	349.00	352.97	
Surgical and medical instruments .....	3841	8.58	8.56	8.76	8.69		348.35	352.67	359.16	362.37	
Surgical appliances and supplies .....	3842	8.26	8.24	8.55	8.55		337.83	336.19	338.58	342.00	
Ophthalmic goods .....	385	7.21	7.21	7.29	7.29		286.96	287.68	292.33	294.52	
Photographic equipment and supplies .....	386	12.51	12.43	13.12	13.07		517.91	507.14	564.16	559.40	
Watches, clocks, and watchcases .....	387	7.10	7.05	7.16	7.16		276.90	281.30	281.39	293.56	
Miscellaneous manufacturing .....	39	7.52	7.53	7.67	7.73	7.73	296.29	298.19	297.60	302.24	303.02
Jewelry, silverware, and plated ware .....	391	8.11	8.12	8.32	8.28		309.80	309.37	315.33	317.12	-
Jewelry, precious metal .....	3911	8.11	8.14	8.46	8.40		300.88	301.99	312.17	313.32	
Musical instruments .....	393	7.26	7.21	7.35	7.36		288.22	297.77	297.68	299.55	
Toys and sporting goods .....	394	6.88	6.90	7.06	7.18		273.82	274.62	273.93	280.02	
Dolls, games, toys, and children's vehicles .....	3942,4	6.77	6.84	6.95	7.01		263.35	266.76	266.19	268.48	
Sporting and athletic goods, nec .....	3949	6.96	6.94	7.14	7.30		282.58	280.38	279.17	289.81	
Pens, pencils, office, and art supplies .....	395	7.66	7.66	7.69	7.84		301.80	305.63	307.60	312.82	
Costume jewelry and notions .....	396	6.03	6.02	6.05	6.18		232.76	235.98	219.01	229.28	
Costume jewelry .....	3961	5.58	5.50	5.45	5.66		211.48	211.20	183.67	196.97	
Miscellaneous manufactures .....	399	8.26	8.30	8.47	8.51		328.75	330.34	337.11	340.40	
Signs and advertising displays .....	3993	8.59	8.68	8.76	8.85		343.60	348.94	346.90	352.23	
<b>Nondurable goods</b> .....		8.92	8.92	9.14	9.12	9.12	355.02	355.91	361.03	365.71	367.54
Food and kindred products .....	20	8.78	8.74	8.95	8.96	8.93	352.08	349.60	351.74	359.30	358.99
Meat products .....	201	7.36	7.33	7.40	7.43	-	294.40	291.73	284.90	292.74	-
Meat packing plants .....	2011	8.27	8.29	8.28	8.29		348.17	342.38	337.00	341.55	
Sausages and other prepared meats .....	2013	8.83	8.72	8.85	8.94		361.15	350.54	353.12	361.18	
Poultry dressing plants .....	2016	5.92	5.95	6.07	6.14		225.55	228.48	220.95	232.71	
Dairy products .....	202	9.44	9.39	9.62	9.66		390.82	390.62	397.31	401.86	
Cheese, natural and processed .....	2022	8.86	8.83	8.94	8.98		349.97	351.43	347.77	354.71	
Fluid milk .....	2026	9.91	9.87	10.14	10.09		418.20	417.50	431.96	430.84	
Preserved fruits and vegetables .....	203	8.12	8.01	8.52	8.49		314.24	309.19	322.91	330.26	
Canned specialties .....	2032	9.91	10.10	10.28	10.28		370.63	401.98	382.42	391.67	
Canned fruits and vegetables .....	2033	8.09	8.06	8.54	8.56		314.70	297.41	321.96	335.55	
Frozen fruits and vegetables .....	2037	7.44	7.28	7.96	7.73		277.51	273.73	290.54	300.70	
Grain mill products .....	204	10.60	10.65	10.48	10.60		457.92	462.21	450.64	461.10	
Flour and other grain mill products .....	2041	10.03	10.14	10.27	10.28		451.35	458.33	474.47	481.10	
Prepared feeds, nec .....	2048	8.06	7.96	8.35	8.34		340.94	341.48	359.05	358.62	
Bakery products .....	205	9.83	9.88	10.02	10.00		390.25	394.21	400.80	401.00	
Bread, cake, and related products .....	2051	9.76	9.78	9.90	9.95		381.62	384.35	387.09	392.03	
Cookies and crackers .....	2052	10.03	10.13	10.27	10.13		415.24	421.41	436.48	423.43	

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 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	39.5	39.0	39.1	39.4		2.3	2.4	2.5	2.4	
Cane and beet sugar .....	2061-3	41.5	41.1	41.4	40.3		3.2	3.4	4.3	3.2	
Confectionery products .....	2065	38.1	37.5	38.0	38.4		1.6	1.8	1.7	1.9	
Fats and oils .....	207	42.4	42.4	41.2	41.2		4.6	4.7	4.5	4.6	
Beverages .....	208	41.7	41.5	40.1	41.7		4.4	4.4	3.6	4.8	
Malt beverages .....	2082	44.0	43.3	42.1	43.9		6.1	6.0	4.8	5.9	
Bottled and canned soft drinks .....	2086	41.3	41.2	40.0	42.0		4.3	4.5	3.5	5.3	
Misc. food and kindred products .....	209	38.1	38.2	37.9	39.0		3.8	3.6	3.6	3.9	
Tobacco manufactures .....	21	37.2	38.1	37.6	39.3	39.7	1.9	1.7	1.7	3.1	
Cigarettes .....	211	36.4	37.6	38.1	39.9	-	2.0	1.8	1.9	3.7	
Textile mill products .....	22	40.9	41.1	40.9	41.9	42.4	3.9	4.0	3.8	4.4	
Weaving mills, cotton .....	221	41.2	40.7	41.9	42.7	-	4.9	4.5	5.6	5.6	
Weaving mills, synthetics .....	222	40.4	41.2	41.9	42.1		3.5	3.8	4.1	4.6	
Weaving and finishing mills, wool .....	223	41.7	42.5	41.0	43.0		3.7	4.4	4	1.8	
Narrow fabric mills .....	224	40.4	40.8	39.5	40.2		2.3	2.7	2.8	3.1	
Knitting mills .....	225	39.8	39.8	39.0	40.2		3.4	3.4	2.6	3.6	
Women's hosiery, except socks .....	2251	39.8	39.2	37.9	39.9		3.6	2.7	2.2	3.4	
Hosiery, nec .....	2252	38.9	39.5	37.3	38.6		2.7	2.8	1.7	2.5	
Knit outerwear mills .....	2253	38.6	38.6	38.1	39.4		3.1	3.3	2.2	3.2	
Knit underwear mills .....	2254	39.7	40.5	39.4	39.7		2.4	2.9	2.1	2.6	
Circular knit fabric mills .....	2257	41.9	41.8	42.8	43.4		5.2	5.1	5.3	6.0	
Textile finishing, except wool .....	226	41.5	41.5	41.1	42.0		4.1	4.2	4.1	4.9	
Finishing plants, cotton .....	2261	41.6	41.8	42.0	42.4		4.2	4.5	4.3	4.9	
Finishing plants, synthetics .....	2262	41.1	41.3	40.6	41.7		4.1	4.2	3.6	4.3	
Floor covering mills .....	227	40.3	41.0	41.3	44.1		3.3	3.7	3.4	4.7	
Yarn and thread mills .....	228	42.5	42.6	42.0	42.5		4.6	4.7	4.7	5.1	
Yarn mills, except wool .....	2281	43.0	43.3	42.8	43.4		5.0	5.1	5.2	5.6	
Throwing and winding mills .....	2282	40.2	39.7	38.5	37.8		3.9	4.0	2.9	2.7	
Miscellaneous textile goods .....	229	42.4	42.7	42.3	42.9		4.1	4.2	4.1	4.4	
Apparel and other textile products .....	23	36.6	36.9	35.8	37.0	37.3	1.4	1.5	1.3	1.7	
Men's and boys' suits and coats .....	231	35.7	35.7	34.5	35.5	-	.8	.9	.6	.9	
Men's and boys' furnishings .....	232	37.1	37.7	35.8	37.5		1.2	1.3	1.0	1.5	
Men's and boys' shirts and nightwear .....	2321	37.5	38.0	36.5	37.7		1.5	1.6	1.3	1.5	
Men's and boys' separate trousers .....	2327	35.9	36.9	35.3	37.0		.8	.9	.8	1.4	
Men's and boys' work clothing .....	2328	36.3	37.0	35.1	37.0		1.2	1.2	1.0	1.5	
Women's and misses' outerwear .....	233	34.8	35.1	34.6	35.4		1.1	1.2	1.3	1.4	
Women's and misses' blouses and waists .....	2331	35.4	36.2	34.6	35.0		1.1	1.3	.9	1.1	
Women's and misses' dresses .....	2335	33.6	33.1	34.1	35.1		.9	.9	1.3	1.3	
Women's and misses' suits and coats .....	2337	34.6	35.4	33.4	35.9		1.0	1.1	1.1	2.2	
Women's and misses' outerwear, nec .....	2339	35.3	35.6	35.1	35.5		1.3	1.5	1.5	1.3	
Women's and children's undergarments .....	234	36.9	37.7	35.9	37.3		1.2	1.3	.6	1.1	
Women's and children's underwear .....	2341	37.2	38.2	36.1	37.5		1.2	1.4	.5	1.0	
Brassieres and allied garments .....	2342	35.4	35.3	34.9	36.2		1.3	1.0	1.2	1.9	
Children's outerwear .....	236	37.6	38.0	35.8	37.4		2.0	2.1	.9	1.5	
Children's dresses and blouses .....	2361	36.0	36.5	35.2	36.7		1.7	1.8	.7	1.1	
Misc. apparel and accessories .....	238	37.0	37.3	37.9	38.9		1.2	1.2	1.7	2.3	
Misc. fabricated textile products .....	239	38.9	39.0	38.2	39.2		2.5	2.7	2.5	2.9	
Curtains and draperies .....	2391	37.9	37.0	36.3	37.7		1.6	1.6	1.5	1.6	
House furnishings, nec .....	2392	37.7	38.2	37.7	38.6		1.9	2.1	2.0	2.4	
Automotive and apparel trimmings .....	2396	41.2	42.0	40.4	41.5		5.2	5.6	5.0	5.5	
Paper and allied products .....	26	43.0	43.1	42.8	43.3	43.4	4.6	4.6	4.7	5.0	
Paper and pulp mills .....	261,2,6	45.3	45.2	45.7	45.6	-	6.5	6.2	6.5	6.8	
Paper mills, except building paper .....	262	45.4	45.3	45.8	45.4		6.6	6.3	6.6	6.8	
Paperboard mills .....	263	44.1	43.9	43.9	43.9		6.9	6.7	7.1	7.1	
Misc. converted paper products .....	264	41.7	41.9	41.3	41.9		3.1	3.3	3.4	3.6	
Paper coating and glazing .....	2641	43.0	43.6	43.5	44.0		3.3	3.4	3.8	4.2	
Envelopes .....	2642	41.4	41.4	40.9	41.5		2.6	2.8	2.5	2.9	
Bags, except textile bags .....	2643	41.1	41.6	40.7	41.5		3.5	3.6	3.5	3.6	
Paperboard containers and boxes .....	265	41.9	42.1	41.6	42.4		3.8	4.0	3.8	4.4	
Folding paperboard boxes .....	2651	41.9	42.0	41.6	42.5		3.5	3.6	3.8	4.5	
Corrugated and solid fiber boxes .....	2653	42.8	43.1	42.3	42.9		4.0	4.3	4.1	4.5	
Sanitary food containers .....	2654	39.8	40.0	40.4	42.1		4.6	5.0	3.5	4.4	

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	\$8.94	\$8.92	\$9.31	\$9.34		\$353.13	\$347.88	\$364.02	\$368.00	
Cane and beet sugar .....	2061-3	10.65	10.65	11.08	11.01		441.98	437.72	458.71	443.70	
Confectionery products .....	2065	7.61	7.59	8.02	8.04		289.94	284.63	304.76	308.74	
Fats and oils .....	207	8.77	8.90	9.19	9.17		371.85	377.36	378.63	377.80	
Beverages .....	208	11.67	11.64	11.89	11.92		486.64	483.06	476.79	497.06	
Malt beverages .....	2082	16.21	16.12	16.65	16.62		713.24	698.00	700.97	729.62	
Bottled and canned soft drinks .....	2086	9.12	9.15	9.50	9.57		376.66	376.98	380.00	401.94	
Misc. food and kindred products .....	209	8.00	7.92	8.22	8.14		304.80	302.54	311.54	317.46	
Tobacco manufactures .....	21	13.49	13.79	14.28	14.51	\$15.46	501.83	525.40	536.93	570.24	\$613.76
Cigarettes .....	211	15.67	15.80	16.34	16.65	-	570.39	594.08	622.55	664.34	-
Textile mill products .....	22	6.87	6.86	7.12	7.13	7.15	280.98	281.95	291.21	298.75	303.16
Weaving mills, cotton .....	221	7.17	7.11	7.45	7.42		295.40	289.38	312.16	316.83	-
Weaving mills, synthetics .....	222	7.36	7.33	7.64	7.69		297.34	302.00	320.12	323.75	
Weaving and finishing mills, wool .....	223	7.33	7.46	7.62	7.61		305.66	317.05	312.42	327.23	
Narrow fabric mills .....	224	6.53	6.53	6.76	6.63		263.81	266.42	267.02	266.53	
Knitting mills .....	225	6.36	6.33	6.47	6.51		253.13	251.93	252.33	261.70	
Women's hosiery, except socks .....	2251	6.32	6.16	6.23	6.28		251.54	241.47	236.12	250.57	
Hosiery, nec .....	2252	6.01	5.99	6.12	6.19		233.79	236.61	228.28	238.93	
Knit outerwear mills .....	2253	6.35	6.36	6.48	6.47		245.11	245.50	246.89	254.92	
Knit underwear mills .....	2254	5.83	5.88	6.01	6.15		231.45	238.14	236.79	244.16	
Circular knit fabric mills .....	2257	6.87	6.88	7.11	7.16		287.85	287.58	304.31	310.74	
Textile finishing, except wool .....	226	7.19	7.22	7.43	7.43		298.39	299.63	305.37	312.06	
Finishing plants, cotton .....	2261	7.21	7.22	7.40	7.40		299.94	301.80	310.80	313.76	
Finishing plants, synthetics .....	2262	7.57	7.58	7.69	7.72		311.13	313.05	312.21	321.92	
Floor covering mills .....	227	7.09	7.10	7.54	7.60		285.73	291.10	311.40	335.16	
Yarn and thread mills .....	228	6.42	6.42	6.71	6.72		272.85	273.49	281.82	285.60	
Yarn mills, except wool .....	2281	6.41	6.42	6.73	6.72		275.63	277.99	288.04	291.65	
Throwing and winding mills .....	2282	6.45	6.41	6.66	6.73		259.29	254.48	256.41	254.39	
Miscellaneous textile goods .....	229	7.81	7.89	8.14	8.13		331.14	336.90	344.32	348.78	
Apparel and other textile products .....	23	5.81	5.83	5.94	5.89	5.95	212.65	215.13	212.65	217.93	221.94
Men's and boys' suits and coats .....	231	6.56	6.57	6.85	6.74	-	234.19	234.55	236.33	239.27	-
Men's and boys' furnishings .....	232	5.36	5.36	5.47	5.42		198.86	202.07	195.83	203.25	
Men's and boys' shirts and nightwear .....	2321	5.11	5.11	5.27	5.20		191.63	194.18	192.36	196.04	
Men's and boys' separate trousers .....	2327	5.23	5.26	5.34	5.34		187.76	194.09	188.50	197.58	
Men's and boys' work clothing .....	2328	5.48	5.46	5.59	5.51		198.92	202.02	196.21	203.87	
Women's and misses' outerwear .....	233	5.58	5.62	5.71	5.66		194.18	197.26	197.57	200.36	
Women's and misses' blouses and waists .....	2331	5.07	5.03	5.02	5.00		179.48	182.09	173.69	175.00	
Women's and misses' dresses .....	2335	5.77	5.90	6.01	5.98		193.87	195.29	204.94	209.90	
Women's and misses' suits and coats .....	2337	6.43	6.44	6.51	6.41		222.48	227.98	217.43	230.12	
Women's and misses' outerwear, nec .....	2339	5.42	5.44	5.60	5.49		191.33	193.66	196.56	194.90	
Women's and children's undergarments .....	234	5.38	5.35	5.49	5.47		198.52	201.70	197.09	204.03	
Women's and children's underwear .....	2341	5.23	5.21	5.31	5.29		194.56	199.02	191.69	198.38	
Brassieres and allied garments .....	2342	6.17	6.12	6.43	6.42		218.42	216.04	224.41	232.40	
Children's outerwear .....	236	5.15	5.13	5.23	5.18		193.64	194.94	187.23	193.73	
Children's dresses and blouses .....	2361	4.93	4.95	5.01	4.99		177.48	180.68	176.35	183.13	
Misc. apparel and accessories .....	238	5.53	5.55	5.60	5.62		204.61	207.02	212.24	218.62	
Misc. fabricated textile products .....	239	7.20	7.21	7.26	7.19		280.08	281.19	277.33	281.85	
Curtains and draperies .....	2391	5.54	5.57	5.84	5.77		209.97	206.09	211.99	217.53	
House furnishings, nec .....	2392	5.94	5.96	6.07	6.03		223.94	227.67	228.84	232.76	
Automotive and apparel trimmings .....	2396	11.41	11.30	11.19	11.06		470.09	474.60	452.08	458.99	
Paper and allied products .....	26	11.15	11.17	11.37	11.39	11.41	479.45	481.43	486.64	493.19	495.19
Paper and pulp mills .....	261,2,6	13.53	13.56	13.88	13.99	-	612.91	612.91	634.32	637.94	-
Paper mills, except building paper .....	262	13.61	13.64	13.95	14.08		617.89	617.89	638.91	639.23	
Paperboard mills .....	263	13.98	13.90	14.28	14.22		616.52	610.21	626.89	624.26	
Misc. converted paper products .....	264	9.59	9.62	9.87	9.86		399.90	403.08	407.63	413.13	
Paper coating and glazing .....	2641	10.92	10.85	11.06	11.03		469.56	473.06	481.11	485.32	
Envelopes .....	2642	8.70	8.71	9.03	9.15		360.18	360.59	369.33	379.73	
Bags, except textile bags .....	2643	9.01	9.02	9.18	9.01		370.31	375.23	373.63	373.92	
Paperboard containers and boxes .....	265	9.53	9.57	9.62	9.66		399.31	402.90	400.19	409.58	
Folding paperboard boxes .....	2651	9.86	9.86	10.10	10.15		413.13	414.12	420.16	431.38	
Corrugated and solid fiber boxes .....	2653	9.80	9.85	9.75	9.82		419.44	424.54	412.43	421.28	
Sanitary food containers .....	2654	9.14	9.18	9.30	9.31		363.77	367.20	375.72	391.95	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	37.8	37.6	37.6	37.7	37.8	2.6	2.4	2.7	2.9	
Newspapers .....	271	33.9	33.5	33.6	33.8	-	1.7	1.5	1.5	1.7	
Periodicals .....	272	37.6	37.2	38.5	38.4		2.3	2.1	3.0	2.9	
Books .....	273	40.7	39.6	38.6	38.8		4.0	3.2	3.8	4.4	
Book publishing .....	2731	40.1	38.2	38.1	38.8		3.6	2.4	3.5	4.2	
Book printing .....	2732	41.7	41.9	39.6	38.8		4.6	4.6	4.3	4.7	
Miscellaneous publishing .....	274	36.3	35.9	36.5	36.2		1.9	1.7	2.8	2.8	
Commercial printing .....	275	38.9	38.8	39.1	39.1		2.9	2.7	3.2	3.3	
Commercial printing, letterpress .....	2751	38.4	38.5	38.8	38.9		2.5	2.3	2.8	2.8	
Commercial printing, lithographic .....	2752	39.1	38.8	39.1	39.0		3.1	2.8	3.3	3.4	
Manifold business forms .....	276	40.7	40.7	40.3	40.7		3.2	3.0	2.6	3.0	
Blankbooks and bookbinding .....	278	38.3	38.5	37.4	37.8		1.7	1.9	1.7	1.8	
Printing trade services .....	279	38.3	38.8	37.6	38.3		3.1	3.4	2.8	3.1	
Chemicals and allied products .....	28	41.9	41.9	42.2	42.1	42.1	3.5	3.6	3.8	3.8	
Industrial inorganic chemicals .....	281	41.6	41.7	42.2	41.8	-	3.3	3.3	4.0	3.7	
Industrial inorganic chemicals, nec .....	2819	42.1	42.4	42.8	42.4		3.2	3.3	3.8	3.6	
Plastics materials and synthetics .....	282	42.6	41.7	43.1	42.4		4.0	3.8	4.1	4.2	
Plastics materials and resins .....	2821	43.5	42.9	43.8	43.3		4.5	4.5	4.5	4.6	
Organic fibers, noncellulosic .....	2824	42.6	41.3	42.6	41.9		3.8	3.5	3.8	3.9	
Drugs .....	283	40.8	41.9	41.5	41.3		2.7	3.1	2.8	2.8	
Pharmaceutical preparations .....	2834	41.2	42.1	41.3	41.0		2.8	3.2	2.9	2.8	
Soap, cleaners, and toilet goods .....	284	41.1	41.1	40.5	40.9		3.0	3.0	2.7	2.9	
Soap and other detergents .....	2841	44.2	44.5	42.3	43.3		4.5	4.5	4.2	4.9	
Polishing, sanitation, and finishing preparations .....	2842,3	41.5	42.0	40.9	40.7		2.6	3.3	2.3	2.3	
Toilet preparations .....	2844	39.0	38.7	39.3	39.6		2.2	2.0	2.0	2.1	
Paints and allied products .....	285	42.1	41.9	41.4	42.4		3.8	3.5	3.2	4.1	
Industrial organic chemicals .....	286	43.5	43.8	44.0	44.4		4.4	4.6	5.3	5.5	
Cyclic crudes and intermediates .....	2865	43.0	43.1	43.8	43.3		4.5	4.9	5.3	5.7	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	43.7	44.0	44.1	44.7		4.3	4.5	5.3	5.4	
Agricultural chemicals .....	287	42.3	42.8	43.4	43.0		4.7	4.1	5.4	4.9	
Miscellaneous chemical products .....	289	41.2	41.0	41.2	41.1		3.4	3.4	3.2	3.2	
Petroleum and coal products .....	29	43.4	44.2	43.8	43.9	43.4	4.0	4.4	5.0	5.0	
Petroleum refining .....	291	43.3	44.3	43.9	43.6	-	3.4	3.7	4.7	4.3	
Paving and roofing materials .....	295	44.8	45.3	44.6	45.7		7.0	7.2	7.1	8.3	
Rubber and misc. plastics products .....	30	41.1	41.2	40.9	41.5	41.9	3.6	3.7	3.5	3.8	
Tires and inner tubes .....	301	42.7	42.9	42.9	43.9		4.9	4.8	4.1	4.7	
Rubber and plastics footwear .....	302	38.6	39.9	40.8	41.4		1.0	1.8	1.5	2.0	
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	42.5	42.5	40.4	40.9		3.3	3.1	2.4	3.6	
Fabricated rubber products, nec .....	306	41.0	41.5	40.3	41.5		3.0	3.3	3.0	3.4	
Miscellaneous plastics products .....	307	41.0	40.9	40.7	41.2		3.6	3.6	3.5	3.8	
Leather and leather products .....	31	36.8	37.6	36.7	38.7	39.6	1.2	1.5	1.6	2.0	
Leather tanning and finishing .....	311	41.3	40.7	41.5	41.6	-	3.6	3.5	4.5	4.2	
Footwear, except rubber .....	314	35.7	36.9	35.8	38.6		.8	1.3	1.4	1.9	
Men's footwear, except athletic .....	3143	35.4	36.1	36.2	38.7		.8	1.0	1.4	1.7	
Women's footwear, except athletic .....	3144	35.8	37.8	35.0	38.9		.9	1.6	1.5	2.2	
Luggage .....	316	39.8	39.6	39.4	39.3		2.1	2.4	1.3	1.6	
Handbags and personal leather goods .....	317	36.5	36.8	34.9	36.8		.4	.6	1.0	1.8	
<b>Transportation and public utilities .....</b>		<b>39.0</b>	<b>39.4</b>	<b>38.8</b>	<b>38.9</b>	<b>39.3</b>					
Railroad transportation:											
Class I railroads <sup>2</sup> .....	4011	43.2	43.9	42.5	42.7						
Local and interurban passenger transit .....	41	34.3	34.0	33.6	34.3						
Local and suburban transportation .....	411	38.4	38.2	38.6	38.5						
Intercity highway transportation .....	413	38.8	38.8	40.6	38.7						
Trucking and warehousing .....	42	38.0	38.4	38.1	38.5						
Trucking and trucking terminals .....	421,3	38.1	38.5	38.1	38.5						
Public warehousing .....	422	37.9	38.2	37.9	37.9						
Pipe lines, except natural gas .....	46	40.8	41.9	41.2	42.3						

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$9.94	\$9.91	\$10.14	\$10.19	\$10.16	\$375.73	\$372.62	\$381.26	\$384.16	\$384.05
Newspapers .....	271	10.04	9.97	10.08	10.12	-	340.36	334.00	338.69	342.06	-
Periodicals .....	272	10.60	10.66	10.70	10.65	-	398.56	396.55	411.95	408.96	-
Books .....	273	8.89	9.01	9.13	9.24	-	361.82	356.80	352.42	358.51	-
Book publishing .....	2731	8.40	8.55	8.70	8.89	-	336.84	326.61	331.47	344.93	-
Book printing .....	2732	9.65	9.71	9.82	9.80	-	402.41	406.85	388.87	380.24	-
Miscellaneous publishing .....	274	8.94	9.02	9.13	9.19	-	324.52	323.82	333.25	332.68	-
Commercial printing .....	275	10.21	10.14	10.45	10.53	-	397.17	393.43	408.60	411.72	-
Commercial printing, letterpress .....	2751	9.80	9.75	10.08	10.15	-	376.32	375.38	391.10	394.84	-
Commercial printing, lithographic .....	2752	10.36	10.26	10.61	10.67	-	405.08	398.09	414.85	416.13	-
Manifold business forms .....	276	10.30	10.33	10.59	10.72	-	419.21	420.43	426.78	436.30	-
Blankbooks and bookbinding .....	278	7.85	7.84	8.00	8.03	-	300.66	301.84	299.20	303.53	-
Printing trade services .....	279	11.87	11.90	12.44	12.23	-	454.62	461.72	467.74	468.41	-
Chemicals and allied products .....	28	11.90	11.95	12.30	12.30	12.24	498.61	500.71	519.06	517.83	515.30
Industrial inorganic chemicals .....	281	13.05	13.10	13.51	13.47	-	542.88	546.27	570.12	563.05	-
Industrial inorganic chemicals, nec .....	2819	13.11	13.16	13.59	13.59	-	551.93	557.98	581.65	576.22	-
Plastics materials and synthetics .....	282	12.02	12.12	12.47	12.45	-	512.05	505.40	537.46	527.88	-
Plastics materials and resins .....	2821	13.12	13.08	13.49	13.54	-	570.72	561.13	590.86	586.28	-
Organic fibers, noncellulosic .....	2824	11.53	11.76	11.90	11.89	-	491.18	485.69	506.94	498.19	-
Drugs .....	283	11.16	11.22	11.54	11.59	-	455.33	470.12	478.91	478.67	-
Pharmaceutical preparations .....	2834	10.85	10.95	11.26	11.27	-	447.02	461.00	465.04	462.07	-
Soap, cleaners, and toilet goods .....	284	10.73	10.70	10.88	10.89	-	441.00	439.77	440.64	445.40	-
Soap and other detergents .....	2841	13.74	13.70	14.04	14.10	-	607.31	609.65	593.89	610.53	-
Polishing, sanitation, and finishing preparations .....	2842,3	9.97	10.02	9.99	9.99	-	413.76	420.84	408.59	406.59	-
Toilet preparations .....	2844	9.04	9.00	9.36	9.32	-	352.56	348.30	367.85	369.07	-
Paints and allied products .....	285	10.42	10.33	10.79	10.83	-	438.68	432.83	446.71	459.19	-
Industrial organic chemicals .....	286	14.28	14.39	14.82	14.78	-	621.18	630.28	652.08	656.23	-
Cyclic crudes and intermediates .....	2865	14.06	14.19	14.54	14.69	-	604.58	611.59	636.85	636.08	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	14.35	14.45	14.90	14.80	-	627.10	635.80	657.09	661.56	-
Agricultural chemicals .....	287	10.91	11.34	11.54	11.66	-	461.49	485.35	500.84	501.38	-
Miscellaneous chemical products .....	289	11.08	10.94	11.32	11.30	-	456.50	448.54	466.38	464.43	-
Petroleum and coal products .....	29	14.00	14.12	14.50	14.50	14.29	607.60	624.10	635.10	636.55	620.19
Petroleum refining .....	291	15.20	15.30	15.69	15.72	-	658.16	677.79	688.79	685.39	-
Paving and roofing materials .....	295	10.88	10.99	11.29	11.43	-	487.42	497.85	503.53	522.35	-
Rubber and misc. plastics products .....	30	8.71	8.71	8.82	8.84	8.85	357.98	358.85	360.74	366.86	370.82
Tires and inner tubes .....	301	13.78	13.69	13.75	13.76	-	588.41	587.30	589.88	604.06	-
Rubber and plastics footwear .....	302	5.94	5.91	5.94	5.99	-	229.28	235.81	242.35	247.99	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	8.45	8.48	8.88	8.90	-	359.13	360.40	358.75	364.01	-
Fabricated rubber products, nec .....	306	8.47	8.46	8.52	8.51	-	347.27	351.09	343.36	353.17	-
Miscellaneous plastics products .....	307	8.07	8.07	8.22	8.24	-	330.87	330.06	334.55	339.49	-
Leather and leather products .....	31	5.90	5.91	6.12	6.04	6.07	217.12	222.22	224.60	233.75	240.37
Leather tanning and finishing .....	311	7.72	7.69	8.12	8.12	-	318.84	312.98	336.98	337.79	-
Footwear, except rubber .....	314	5.58	5.59	5.82	5.69	-	199.21	206.27	208.36	219.63	-
Men's footwear, except athletic .....	3143	5.94	5.97	6.26	6.05	-	210.28	215.52	226.61	234.14	-
Women's footwear, except athletic .....	3144	5.29	5.31	5.41	5.40	-	189.38	200.72	189.35	210.06	-
Luggage .....	316	6.15	6.11	6.29	6.42	-	244.77	241.96	247.83	252.31	-
Handbags and personal leather goods .....	317	5.67	5.71	5.86	5.94	-	206.96	210.13	204.51	218.59	-
<b>Transportation and public utilities .....</b>		<b>11.58</b>	<b>11.63</b>	<b>11.94</b>	<b>11.92</b>	<b>12.01</b>	<b>451.62</b>	<b>458.22</b>	<b>463.27</b>	<b>463.69</b>	<b>471.99</b>
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	13.79	13.77	14.23	14.23	-	595.73	604.50	604.78	607.62	-
Local and interurban passenger transit .....	41	7.86	7.95	8.24	8.13	-	269.60	270.30	276.86	278.86	-
Local and suburban transportation .....	411	8.34	8.47	8.85	8.75	-	320.26	323.55	341.61	336.88	-
Intercity highway transportation .....	413	11.55	11.62	11.62	11.62	-	448.14	450.86	471.77	449.69	-
Trucking and warehousing .....	42	10.75	10.72	10.83	10.87	-	408.50	411.65	412.62	418.50	-
Trucking and trucking terminals .....	421,3	10.92	10.88	11.01	11.05	-	416.05	418.88	419.48	425.43	-
Public warehousing .....	422	8.47	8.42	8.35	8.42	-	321.01	321.64	316.47	319.12	-
Pipe lines, except natural gas .....	46	15.00	15.05	15.24	15.33	-	612.00	630.60	627.89	648.46	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	39.8	40.2	39.8	39.6						
Telephone communication .....	481	41.1	41.7	41.0	40.7						
Radio and television broadcasting .....	483	36.3	36.6	36.3	36.3						
Electric, gas, and sanitary services .....	49	41.8	41.7	41.2	41.3						
Electric services .....	491	41.8	41.7	41.0	41.1						
Gas production and distribution .....	492	40.9	40.8	40.6	40.5						
Combination utility services .....	493	41.8	41.9	42.1	42.1						
Sanitary services .....	495	43.4	43.6	41.8	42.6						
<b>Wholesale trade .....</b>		<b>38.4</b>	<b>38.5</b>	<b>38.1</b>	<b>38.3</b>	<b>38.4</b>					
Durable goods .....	50	38.8	38.9	38.5	38.7						
Motor vehicles and automotive equipment .....	501	38.5	38.6	38.1	38.3						
Furniture and home furnishings .....	502	36.9	36.9	36.8	36.9						
Lumber and construction materials .....	503	39.9	39.7	39.1	39.7						
Sporting goods, toys, and hobby goods .....	504	36.7	36.6	36.2	36.2						
Metals and minerals, except petroleum .....	505	40.3	40.4	40.2	40.3						
Electrical goods .....	506	38.2	38.3	38.3	38.5						
Hardware, plumbing, and heating equipment .....	507	38.5	38.6	38.2	38.3						
Machinery, equipment, and supplies .....	508	39.4	39.5	38.9	39.0						
Miscellaneous durable goods .....	509	37.4	37.4	37.7	38.0						
Nondurable goods .....	51	37.8	37.9	37.4	37.7						
Paper and paper products .....	511	37.1	37.2	36.7	37.2						
Drugs, proprietaries, and sundries .....	512	37.0	36.8	37.1	36.9						
Apparel, piece goods, and notions .....	513	36.1	36.3	36.0	36.3						
Groceries and related products .....	514	38.2	38.5	37.9	38.1						
Chemicals and allied products .....	516	39.3	39.4	38.9	38.8						
Petroleum and petroleum products .....	517	39.0	39.5	38.8	39.3						
Beer, wine, and distilled beverages .....	518	36.2	36.4	35.9	35.8						
Miscellaneous nondurable goods .....	519	37.7	37.6	37.2	37.5						
<b>Retail trade .....</b>		<b>29.1</b>	<b>29.5</b>	<b>29.2</b>	<b>29.3</b>	<b>29.7</b>					
Building materials and garden supplies .....	52	36.4	36.8	36.5	36.9						
Lumber and other building materials .....	521	38.4	38.9	38.2	38.6						
Hardware stores .....	525	32.6	33.2	33.1	33.3						
General merchandise stores .....	53	28.5	28.9	28.4	28.4						
Department stores .....	531	28.4	28.7	28.2	28.2						
Variety stores .....	533	29.3	29.6	29.3	29.3						
Misc. general merchandise stores .....	539	29.2	30.0	29.9	29.5						
Food stores .....	54	29.9	30.6	30.1	29.9						
Grocery stores .....	541	30.1	30.8	30.4	30.2						
Retail bakeries .....	546	28.9	29.1	27.4	27.1						
Automotive dealers and service stations .....	55	36.6	36.9	36.5	36.6						
New and used car dealers .....	551.2	37.3	37.5	37.3	37.3						
Auto and home supply stores .....	553	39.5	39.9	39.2	39.6						
Gasoline service stations .....	554	34.0	34.4	34.0	34.1						
Apparel and accessory stores .....	56	26.6	26.9	27.0	26.6						
Men's and boys' clothing and furnishings .....	561	29.4	30.4	30.1	29.5						
Women's ready-to-wear stores .....	562	25.4	25.6	25.9	25.7						
Family clothing stores .....	565	27.0	27.3	27.2	26.5						
Shoe stores .....	566	26.9	27.8	28.4	26.8						
Furniture and home furnishings stores .....	57	32.5	32.8	32.7	32.7						
Furniture and home furnishings stores .....	571	32.6	32.7	32.6	32.8						
Household appliance stores .....	572	33.7	34.0	33.4	34.1						
Radio, television, and music stores .....	573	32.0	32.7	32.8	32.2						
Eating and drinking places <sup>d</sup> .....	58	25.4	25.9	25.7	26.0						

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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.04	\$12.06	\$12.28	\$12.26		\$479.19	\$484.81	\$488.74	\$485.50	
Telephone communication .....	481	12.72	12.82	13.03	13.01		522.79	534.59	534.23	529.51	
Radio and television broadcasting .....	483	10.62	10.73	10.80	10.81		385.51	392.72	392.04	392.40	
Electric, gas, and sanitary services .....	49	13.30	13.31	13.65	13.66		555.94	555.03	562.38	564.16	
Electric services .....	491	13.41	13.39	13.73	13.78		560.54	558.36	562.93	566.36	
Gas production and distribution .....	492	12.41	12.49	12.95	12.92		507.57	509.59	525.77	523.26	
Combination utility services .....	493	15.50	15.53	15.84	15.83		647.90	650.71	666.86	666.44	
Sanitary services .....	495	9.65	9.67	9.99	10.07		418.81	421.61	417.58	428.98	
<b>Wholesale trade .....</b>		<b>9.30</b>	<b>9.33</b>	<b>9.53</b>	<b>9.57</b>	<b>\$9.56</b>	<b>357.12</b>	<b>359.21</b>	<b>363.09</b>	<b>366.53</b>	<b>\$367.10</b>
Durable goods .....	50	9.42	9.44	9.65	9.68		365.50	367.22	371.53	374.62	
Motor vehicles and automotive equipment .....	501	8.38	8.39	8.59	8.59		322.63	323.85	327.28	329.00	
Furniture and home furnishings .....	502	8.59	8.65	8.92	8.94		316.97	319.19	328.26	329.89	
Lumber and construction materials .....	503	8.95	8.95	9.15	9.17		357.11	355.32	357.77	364.05	
Sporting goods, toys, and hobby goods .....	504	9.64	9.69	9.81	9.67		353.79	354.65	355.12	350.05	
Metals and minerals, except petroleum .....	505	10.16	10.21	10.28	10.32		409.45	412.48	413.26	415.90	
Electrical goods .....	506	9.66	9.63	9.91	10.07		369.01	368.83	379.55	387.70	
Hardware, plumbing, and heating equipment .....	507	8.95	8.94	9.17	9.22		344.58	345.08	350.29	353.13	
Machinery, equipment, and supplies .....	508	10.02	10.08	10.30	10.33		394.79	398.16	400.67	402.87	
Miscellaneous durable goods .....	509	7.56	7.64	7.67	7.69		282.74	285.74	289.16	292.22	
Nondurable goods .....	51	9.14	9.16	9.37	9.42		345.49	347.16	350.44	355.13	
Paper and paper products .....	511	9.95	9.81	10.01	10.19		369.15	364.93	367.37	379.07	
Drugs, proprietaries, and sundries .....	512	10.48	10.54	10.77	10.95		387.76	387.87	399.57	404.06	
Apparel, piece goods, and notions .....	513	8.82	8.83	9.23	9.26		318.40	320.53	332.28	336.14	
Groceries and related products .....	514	9.23	9.24	9.48	9.49		352.59	355.74	359.29	361.57	
Chemicals and allied products .....	516	11.34	11.44	12.10	12.07		445.66	450.74	470.69	468.32	
Petroleum and petroleum products .....	517	9.69	9.77	9.63	9.71		377.91	385.92	373.64	381.60	
Beer, wine, and distilled beverages .....	518	11.00	11.04	10.97	11.12		398.20	401.86	393.82	398.10	
Miscellaneous nondurable goods .....	519	7.43	7.45	7.66	7.69		280.11	280.12	284.95	288.38	
<b>Retail trade .....</b>		<b>6.01</b>	<b>6.00</b>	<b>6.09</b>	<b>6.09</b>	<b>6.07</b>	<b>174.89</b>	<b>177.00</b>	<b>177.83</b>	<b>178.44</b>	<b>180.28</b>
Building materials and garden supplies .....	52	6.75	6.73	6.94	6.92		245.70	247.66	253.31	255.35	
Lumber and other building materials .....	521	7.12	7.09	7.29	7.26		273.41	275.80	278.48	280.24	
Hardware stores .....	525	5.76	5.73	5.93	5.91		187.78	190.24	196.28	196.80	
General merchandise stores .....	53	6.29	6.27	6.45	6.45		179.27	181.20	183.18	183.18	
Department stores .....	531	6.58	6.56	6.75	6.75		186.87	188.27	190.35	190.35	
Variety stores .....	533	4.71	4.70	4.81	4.77		138.00	139.12	140.93	139.76	
Misc. general merchandise stores .....	539	4.89	4.91	5.03	5.08		142.79	147.30	150.40	149.86	
Food stores .....	54	7.08	7.03	6.97	6.95		211.69	215.12	209.80	207.81	
Grocery stores .....	541	7.26	7.20	7.12	7.09		218.53	221.76	216.45	214.12	
Retail bakeries .....	546	5.45	5.44	5.56	5.58		157.51	158.30	152.34	151.22	
Automotive dealers and service stations .....	55	7.68	7.71	7.73	7.78		281.09	284.50	282.15	284.75	
New and used car dealers .....	551,2	9.40	9.49	9.41	9.49		350.62	355.88	350.99	353.98	
Auto and home supply stores .....	553	6.58	6.54	6.62	6.67		259.91	260.95	259.50	264.13	
Gasoline service stations .....	554	5.41	5.44	5.47	5.49		183.94	187.14	185.98	187.21	
Apparel and accessory stores .....	56	5.37	5.39	5.53	5.57		142.84	144.99	149.31	148.16	
Men's and boys' clothing and furnishings .....	561	6.27	6.35	6.63	6.72		184.34	193.04	199.56	198.24	
Women's ready-to-wear stores .....	562	5.08	5.08	5.22	5.21		129.03	130.05	135.20	133.90	
Family clothing stores .....	565	5.30	5.38	5.43	5.50		143.10	146.87	147.70	145.75	
Shoe stores .....	566	5.40	5.38	5.56	5.60		145.26	149.56	157.90	150.08	
Furniture and home furnishings stores .....	57	7.27	7.30	7.47	7.48		236.28	239.44	244.27	244.60	
Furniture and home furnishings stores .....	571	7.31	7.33	7.56	7.54		238.31	239.69	246.46	247.31	
Household appliance stores .....	572	7.41	7.42	7.35	7.38		249.72	252.28	245.49	251.66	
Radio, television, and music stores .....	573	7.14	7.22	7.35	7.41		228.48	236.09	241.08	238.60	
Eating and drinking places <sup>4</sup> .....	58	4.34	4.33	4.38	4.39		110.24	112.15	112.57	114.14	

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 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>P</sup>	June 1987 <sup>P</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	30.3	30.4	30.1	30.2						
Drug stores and proprietary stores .....	591	28.3	28.8	28.0	27.9						
Miscellaneous shopping goods stores .....	594	28.3	28.9	28.5	28.5						
Nonstore retailers .....	596	32.8	32.9	33.2	33.0						
Fuel and ice dealers .....	598	37.9	38.1	37.6	37.9						
Retail stores, nec .....	599	33.0	32.0	32.5	33.0						
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>36.2</b>	<b>36.5</b>	<b>36.3</b>	<b>36.3</b>	<b>36.5</b>					
Banking .....	60	36.2	36.6	36.0	36.1						
Commercial and stock savings banks .....	602	36.2	36.6	36.0	36.1						
Credit agencies other than banks .....	61	36.6	37.2	36.8	36.7						
Savings and loan associations .....	612	35.8	36.5	36.1	36.1						
Personal credit institutions .....	614	36.1	36.1	36.5	36.5						
Insurance carriers .....	63	37.3	37.6	37.4	37.4						
Life insurance .....	631	36.7	37.1	37.0	37.0						
Medical service and health insurance .....	632	37.8	37.8	38.1	38.2						
Fire, marine, and casualty insurance .....	633	37.5	37.7	37.2	37.2						
<b>Services</b> .....		<b>32.5</b>	<b>32.6</b>	<b>32.3</b>	<b>32.4</b>	<b>32.6</b>					
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	30.5	31.0	30.2	31.0						
Personal services:											
Laundry, cleaning, and garment services .....	721	34.3	34.1	34.4	34.7						
Beauty shops <sup>4</sup> .....	723	29.9	29.8	29.7	29.8						
Business services .....	73	33.7	33.8	33.3	33.4						
Advertising .....	731	36.1	36.4	36.4	36.3						
Services to buildings .....	734	28.9	29.0	28.6	28.6						
Computer and data processing services .....	737	38.1	37.9	37.3	37.3						
Auto repair, services, and garages .....	75	37.5	37.6	36.9	37.0						
Automotive repair shops .....	753	38.7	38.7	38.4	38.3						
Miscellaneous repair services .....	76	37.9	37.9	37.7	37.7						
Motion pictures .....	78	26.7	27.4	28.0	28.1						
Motion picture production and services .....	781	35.2	35.7	35.2	36.3						
Amusement and recreation services .....	79	28.0	28.8	28.3	28.1						
Health services .....	80	32.2	32.5	32.2	32.2						
Offices of physicians .....	801	30.7	31.0	30.7	30.8						
Offices of dentists .....	802	28.1	27.9	28.2	28.0						
Nursing and personal care facilities .....	805	31.0	31.5	31.2	31.2						
Hospitals .....	806	34.1	34.3	34.0	34.0						
Legal services .....	81	34.6	35.0	34.5	34.6						
Miscellaneous services .....	89	38.5	38.5	39.2	38.3						
Engineering and architectural services .....	891	39.7	39.8	39.4	39.5						
Accounting, auditing, and bookkeeping .....	893	37.2	37.0	39.9	36.7						

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.10	\$6.13	\$6.31	\$6.32		\$184.83	\$186.35	\$189.93	\$190.86	
Drug stores and proprietary stores .....	591	5.61	5.62	5.85	5.85		158.76	161.86	163.80	163.22	
Miscellaneous shopping goods stores .....	594	5.74	5.73	5.87	5.88		162.44	165.60	167.30	167.58	
Nonstore retailers .....	596	6.89	7.00	7.19	7.24		225.99	230.30	238.71	238.92	
Fuel and ice dealers .....	598	8.61	8.57	8.98	8.89		326.32	326.52	337.65	336.93	
Retail stores, nec .....	599	6.28	6.41	6.46	6.48		207.24	205.12	209.95	213.84	
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		8.31	8.37	8.71	8.71	\$8.68	300.82	305.51	316.17	316.17	\$316.82
Banking .....	60	7.14	7.19	7.46	7.50		258.47	263.15	268.56	270.75	
Commercial and stock savings banks .....	602	6.95	7.00	7.20	7.25		251.59	256.20	259.20	261.73	
Credit agencies other than banks .....	61	7.51	7.64	7.87	7.88		274.87	284.21	289.62	289.20	
Savings and loan associations .....	612	6.92	6.97	7.32	7.31		247.74	254.41	264.25	263.89	
Personal credit institutions .....	614	7.15	7.25	7.36	7.38		258.12	261.73	268.64	269.37	
Insurance carriers .....	63	9.01	9.05	9.54	9.55		336.07	340.28	356.80	357.17	
Life insurance .....	631	8.53	8.55	9.11	9.12		313.05	317.21	337.07	337.44	
Medical service and health insurance .....	632	9.03	9.08	9.34	9.33		341.33	343.22	355.85	356.41	
Fire, marine, and casualty insurance .....	633	9.42	9.43	9.86	9.92		353.25	355.51	366.79	369.02	
<b>Services</b> .....		8.10	8.10	8.40	8.38	8.37	263.25	264.06	271.32	271.51	272.86
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	5.95	5.87	6.10	6.08		181.48	181.97	184.22	188.48	
Personal services:											
Laundry, cleaning, and garment services .....	721	5.96	5.99	6.08	6.11		204.43	204.26	209.15	212.02	
Beauty shops <sup>4</sup> .....	723	6.19	6.31	6.38	6.34		185.08	188.04	189.49	188.93	
Business services .....	73	8.41	8.44	8.62	8.62		283.42	285.27	287.05	287.91	
Advertising .....	731	11.26	11.60	11.63	11.81		406.49	422.24	423.33	428.70	
Services to buildings .....	734	6.48	6.59	6.71	6.71		187.27	191.11	191.91	191.91	
Computer and data processing services .....	737	11.52	11.70	11.95	11.97		438.91	443.43	445.74	446.48	
Auto repair, services, and garages .....	75	7.52	7.53	7.76	7.78		282.00	283.13	286.34	287.86	
Automotive repair shops .....	753	8.15	8.15	8.37	8.39		315.41	315.41	321.41	321.34	
Miscellaneous repair services .....	76	8.80	8.79	8.98	9.04		333.52	333.14	338.55	340.81	
Motion pictures .....	78	11.53	10.91	11.90	11.63		307.85	298.93	333.20	326.80	
Motion picture production and services .....	781	16.10	15.56	15.96	15.24		566.72	555.49	561.79	553.21	
Amusement and recreation services .....	79	6.91	6.43	7.34	7.05		193.48	185.18	207.72	198.11	
Health services .....	80	8.29	8.31	8.60	8.60		266.94	270.08	276.92	276.92	
Offices of physicians .....	801	8.13	8.17	8.29	8.29		249.59	253.27	254.50	255.33	
Offices of dentists .....	802	8.25	8.29	8.45	8.47		231.83	231.29	238.29	237.16	
Nursing and personal care facilities .....	805	5.78	5.78	5.93	5.93		179.18	182.07	185.02	185.02	
Hospitals .....	806	9.27	9.29	9.72	9.73		316.11	318.65	330.48	330.82	
Legal services .....	81	11.02	11.40	11.69	11.68		381.29	399.00	403.31	404.13	
Miscellaneous services .....	89	11.68	11.77	11.81	12.01		449.68	453.15	462.95	459.98	
Engineering and architectural services .....	891	12.65	12.56	12.88	12.88		502.21	499.89	507.47	508.76	
Accounting, auditing, and bookkeeping .....	893	9.76	10.11	9.93	10.19		363.07	374.07	396.21	373.97	

<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 the aircraft industry (SIC 3721).

<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 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

## A Note on Average Hourly Earnings in Aircraft Manufacturing

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

As a service to aircraft companies and other interested parties, BLS has calculated an average hourly earnings series for SIC 3721 which includes lump-sum payments. This series is presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. The series begins in October 1983, the effective date of the first aircraft bargaining agreement using lump-sum payments.

The general practice in the industry has been to make this payment at the beginning of the contract year "in lieu of a wage increase" and to base the amount of the payment on the workers' earnings during the preceding year. As a result, the Bureau considered three approaches to the method for calculating an average hourly earnings series which includes lump-sum payments:

1. The entire payment could be included in the month in which the payment was made.
2. The payments could be prorated backward to payroll periods used to determine the amount of the lump-sum payment.
3. The payments could be prorated forward as an advance

payment for payroll periods in the year following the payment.

The first approach, attractive because it includes the payment in the month in which it is received by the worker, creates 1-month "spikes" and a series which would not be useful for escalation purposes. The second approach, which prorates the payments backward, places emphasis on the determination of the amount of the payment from workers' earnings in the previous year. This approach generally relates the payments to the workers who receive them. However, the Bureau has received statements from both union and company officials who negotiated the agreements covering a majority of the workers in the industry. These statements make clear that the intent of the bargainers was to make an advance payment for the upcoming contract year in lieu of an increase in wage rates for that following year.

Because BLS has a longstanding policy of leaving the interpretation of collective bargaining agreements to the parties involved, the Bureau calculated the inclusion of lump-sum payments using the third method, prorating the payments forward through the years covered by the contract. Because the payments prorated forward under this approach may include payments to workers no longer on the payroll, data provided by the aircraft companies have been used to adjust for this difference.

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 plans to conduct 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 manufacturing (SIC 3721)**

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average hourly earnings, excluding lump-sum payments													
1983 .....											\$12.76	\$12.83	\$12.93
1984 .....	\$12.91	\$12.82	\$12.88	\$12.85	\$12.81	\$12.78	\$12.87	\$12.89	\$12.87	\$12.97	13.04	13.05	13.13
1985 .....	13.18	13.01	13.12	13.11	13.04	13.06	13.11	13.05	13.16	13.26	13.35	13.37	13.48
1986 .....	13.48	13.38	13.44	13.46	13.45	13.38	13.42	13.41	13.44	13.48	13.52	13.67	13.65
1987 .....		13.61	13.61	13.66	13.63	<sup>P</sup> 13.71							
Average hourly earnings, including lump-sum payments													
1983 .....											\$12.83	\$12.92	\$13.03
1984 .....	\$13.11	\$12.95	\$13.02	\$13.02	\$12.98	\$12.97	\$13.06	\$13.11	\$13.09	\$13.19	13.26	13.28	13.37
1985 .....	13.40	13.26	13.36	13.33	13.26	13.27	13.33	13.29	13.39	13.48	13.54	13.57	13.68
1986 .....	13.80	13.58	13.64	13.66	13.68	13.60	13.64	13.61	13.63	13.67	14.19	14.31	14.26
1987 .....		14.21	14.25	14.29	14.36	<sup>P</sup> 14.40							

<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 1986	June 1986	Apr. 1987	May 1987 <sup>o</sup>	June 1987 <sup>p</sup>
<b>Manufacturing</b> .....	\$9.34	\$9.32	\$9.48	\$9.45	\$9.45
<b>Durable goods</b> .....	9.88	9.85	9.98	9.95	9.97
Lumber and wood products .....	8.00	8.03	7.99	7.98	(°)
Furniture and fixtures .....	7.18	7.24	7.37	7.39	(°)
Stone, clay, and glass products ..	9.48	9.48	9.67	9.65	(°)
Primary metal industries .....	11.45	11.35	11.37	11.31	(°)
Fabricated metal products .....	9.50	9.51	9.60	9.54	(°)
Machinery, except electrical .....	10.18	10.17	10.27	10.24	(°)
Electrical and electronic equipment .....	9.33	9.28	9.52	9.51	(°)
Transportation equipment .....	12.15	12.13	12.22	12.23	(°)
Instruments and related products .....	9.13	9.12	9.38	9.36	(°)
Miscellaneous manufacturing .....	7.32	7.33	7.46	7.50	(°)
<b>Nondurable goods</b> .....	8.57	8.57	8.79	8.75	\$8.73
Food and kindred products .....	8.38	8.34	8.58	8.55	(°)
Tobacco manufactures .....	13.16	13.48	13.96	13.95	(°)
Textile mill products .....	6.56	6.54	6.80	6.78	(°)
Apparel and other textile products .....	5.70	5.71	5.84	5.75	(°)
Paper and allied products .....	10.58	10.60	10.77	10.76	(°)
Printing and publishing .....	9.61	9.60	9.79	9.82	(°)
Chemicals and allied products .....	11.41	11.46	11.77	11.77	(°)
Petroleum and coal products .....	13.38	13.45	13.72	13.72	(°)
Rubber and misc. plastics products .....	8.34	8.34	8.46	8.45	(°)
Leather and leather products .....	5.81	5.79	5.99	5.89	(°)

<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>o</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 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 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>	May 1986	June 1986	Apr. 1987	May 1987 <sup>p</sup>	June 1987 <sup>p</sup>
<b>Total private:</b>										
Current dollars .....	\$8.73	\$8.72	\$8.91	\$8.93	\$8.93	\$302.93	\$304.33	\$308.29	\$310.76	\$312.55
Constant (1977) dollars .....	4.93	4.90	4.87	4.86	( <sup>2</sup> )	171.05	170.97	171.78	169.17	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	12.42	12.49	12.43	12.42	\$12.48	519.16	523.33	519.57	526.61	\$522.91
Constant (1977) dollars .....	7.01	7.02	6.79	6.76	( <sup>2</sup> )	293.15	294.01	283.76	286.67	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	12.37	12.34	12.55	12.61	\$12.61	468.82	466.45	469.37	486.75	\$481.70
Constant (1977) dollars .....	6.98	6.93	6.85	6.86	( <sup>2</sup> )	264.72	262.05	256.35	264.97	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	9.72	9.71	9.87	9.86	\$9.88	394.63	396.17	398.75	403.27	\$406.07
Constant (1977) dollars .....	5.49	5.46	5.39	5.37	( <sup>2</sup> )	222.83	222.57	217.78	219.53	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	11.58	11.63	11.94	11.92	\$12.01	451.62	458.22	463.27	463.69	\$471.99
Constant (1977) dollars .....	6.54	6.53	6.52	6.49	( <sup>2</sup> )	255.01	257.43	253.01	252.42	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	9.30	9.33	9.53	9.57	\$9.56	357.12	359.21	363.09	366.53	\$367.10
Constant (1977) dollars .....	5.25	5.24	5.20	5.21	( <sup>2</sup> )	201.65	201.80	198.30	199.53	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.01	6.00	6.09	6.09	\$6.07	174.89	177.00	177.83	178.44	\$180.28
Constant (1977) dollars .....	3.39	3.37	3.33	3.32	( <sup>2</sup> )	98.75	99.44	97.12	97.14	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	8.31	8.37	8.71	8.71	\$8.68	300.82	305.51	316.17	316.17	\$316.82
Constant (1977) dollars .....	4.69	4.70	4.76	4.74	( <sup>2</sup> )	169.86	171.63	172.68	172.11	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	8.10	8.10	8.40	8.38	\$8.37	263.25	264.06	271.32	271.51	\$272.86
Constant (1977) dollars .....	4.57	4.55	4.59	4.56	( <sup>2</sup> )	148.64	148.35	148.18	147.80	( <sup>2</sup> )

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1986 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	1986							1987					
	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	34.7	34.7	34.7	34.7	34.8	34.6	34.7	34.9	34.8	34.7	34.9	34.8
<b>Mining</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Construction</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Manufacturing</b> .....	40.6	40.6	40.8	40.8	40.7	40.8	40.8	40.9	41.1	40.9	40.6	41.0	41.0
<i>Overtime hours</i> .....	3.4	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.5	3.8	3.7
<b>Durable goods</b> .....	41.3	41.2	41.4	41.4	41.3	41.4	41.4	41.6	41.7	41.5	41.2	41.6	41.5
<i>Overtime hours</i> .....	3.5	3.5	3.6	3.6	3.5	3.5	3.6	3.7	3.7	3.7	3.6	3.9	3.8
Lumber and wood products .....	40.1	40.4	40.2	40.3	40.4	40.8	40.6	40.8	41.3	40.9	40.6	41.1	40.8
Furniture and fixtures .....	39.7	39.7	39.9	40.0	39.9	39.8	39.9	40.2	40.2	40.0	39.1	39.8	39.7
Stone, clay, and glass products .....	42.1	42.1	42.3	42.4	42.3	41.9	42.2	42.5	42.8	42.5	41.9	42.2	42.2
Primary metal industries .....	41.7	41.4	42.0	42.1	42.3	42.4	42.5	42.6	42.6	42.6	42.3	43.0	43.2
Blast furnaces and basic steel products ..	41.4	41.5	41.7	41.9	42.4	42.5	42.6	42.7	42.3	42.3	42.4	43.3	43.7
Fabricated metal products .....	41.1	41.1	41.3	41.5	41.3	41.4	41.2	41.6	41.6	41.5	41.2	41.6	41.4
Machinery, except electrical .....	41.7	41.3	41.6	41.7	41.7	41.7	41.7	42.0	42.2	42.0	41.8	42.2	42.1
Electrical and electronic equipment .....	40.9	41.1	41.1	41.2	41.0	41.0	41.0	41.0	41.1	40.9	40.6	40.8	40.9
Transportation equipment .....	42.3	42.2	42.4	42.4	42.1	42.2	42.1	42.3	42.5	42.3	41.9	42.2	42.0
Motor vehicles and equipment .....	42.4	42.5	42.5	42.7	42.1	42.4	42.4	42.9	43.0	42.9	42.1	42.5	42.4
Instruments and related products .....	40.9	40.7	40.9	40.7	40.9	41.1	41.1	41.2	41.3	41.3	41.0	41.5	41.5
Miscellaneous manufacturing .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Nondurable goods</b> .....	39.8	39.8	40.0	39.9	39.9	40.0	40.0	40.1	40.3	40.1	39.7	40.2	40.3
<i>Overtime hours</i> .....	3.2	3.4	3.4	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.3	3.7	3.6
Food and kindred products .....	39.9	39.9	40.2	39.8	39.8	40.0	39.8	40.0	40.1	40.0	39.8	40.1	40.2
Tobacco manufactures .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Textile mill products .....	40.8	41.0	41.2	41.4	41.4	41.4	41.6	41.6	42.0	42.1	41.4	42.0	42.1
Apparel and other textile products .....	36.6	36.6	36.6	36.8	36.8	36.9	37.0	37.0	37.4	37.0	36.1	37.0	37.0
Paper and allied products .....	43.1	43.2	43.4	42.9	43.1	43.2	43.2	43.4	43.3	43.0	43.0	43.5	43.4
Printing and publishing .....	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.9	38.1	37.9	37.7	37.9	38.2
Chemicals and allied products .....	41.8	41.8	42.0	41.8	42.0	42.3	42.1	42.2	42.2	42.0	42.2	42.1	42.0
Petroleum and coal products .....	44.1	43.7	44.2	43.5	43.7	43.8	43.6	44.6	44.0	44.1	43.9	44.3	43.4
Rubber and misc. plastics products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Leather and leather products .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Transportation and public utilities</b> .....	39.1	39.2	39.1	39.1	39.1	39.2	38.9	39.0	39.2	39.0	39.0	39.1	39.0
<b>Wholesale trade</b> .....	38.4	38.3	38.4	38.2	38.3	38.3	38.2	38.3	38.3	38.1	38.2	38.3	38.2
<b>Retail trade</b> .....	29.1	29.2	29.2	29.1	29.1	29.2	28.9	29.0	29.3	29.3	29.5	29.4	29.3
<b>Finance, insurance, and real estate</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Services</b> .....	32.5	32.5	32.4	32.4	32.4	32.5	32.4	32.4	32.6	32.5	32.4	32.5	32.5

<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 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 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	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>Total private</b> .....	116.8	117.3	117.6	117.6	117.7	118.2	117.9	118.7	119.7	119.6	119.6	120.2	120.1
<b>Goods-producing</b> .....	97.2	97.2	97.8	97.8	97.6	97.8	97.8	98.8	99.3	98.9	98.0	99.2	99.0
<b>Mining</b> .....	83.4	83.6	82.6	80.7	81.0	79.5	79.5	78.9	79.9	80.0	81.3	83.4	81.4
<b>Construction</b> .....	129.5	130.5	132.0	132.3	131.6	131.1	130.7	136.2	136.2	135.5	132.8	134.5	132.8
<b>Manufacturing</b> .....	91.6	91.4	91.9	91.9	91.8	92.2	92.3	92.5	93.1	92.8	92.1	93.1	93.3
<b>Durable goods</b> .....	89.7	89.3	89.9	89.8	89.5	89.8	89.8	90.0	90.6	90.2	89.6	90.5	90.6
Lumber and wood products .....	97.2	97.1	97.9	98.7	99.2	100.9	101.0	101.5	103.3	102.5	102.0	103.6	102.4
Furniture and fixtures .....	105.7	105.7	106.5	107.1	106.8	106.3	106.5	107.9	107.9	107.9	105.7	108.9	108.7
Stone, clay, and glass products .....	86.5	86.1	86.3	86.7	86.1	85.5	86.5	87.3	88.3	87.5	86.3	86.9	86.7
Primary metal industries .....	61.6	60.8	60.6	60.4	60.7	60.9	61.1	60.4	61.2	61.9	62.1	62.9	63.6
Blast furnaces and basic steel products .....	50.8	50.7	47.9	46.6	47.7	47.1	46.9	46.1	46.8	47.7	49.6	50.7	51.1
Fabricated metal products .....	88.5	87.7	88.4	88.9	88.3	88.5	88.3	89.1	89.1	88.9	88.4	89.0	89.1
Machinery, except electrical .....	87.0	85.6	86.0	85.0	84.4	84.1	83.8	84.2	85.1	84.7	84.8	86.1	86.4
Electrical and electronic equipment .....	98.8	101.2	101.3	101.3	100.8	101.1	101.5	100.8	100.8	99.9	99.0	99.6	99.7
Transportation equipment .....	97.2	96.0	97.5	97.5	96.8	97.9	97.2	97.5	98.9	98.2	96.6	97.3	97.5
Motor vehicles and equipment .....	87.1	85.3	86.8	87.1	84.9	87.0	86.3	87.5	89.0	88.0	85.6	86.1	86.6
Instruments and related products .....	102.4	101.3	102.1	101.9	101.8	102.1	102.1	101.8	102.0	101.7	101.0	102.0	102.2
Miscellaneous manufacturing .....	80.2	79.7	79.7	79.3	79.0	80.2	81.0	81.0	81.1	81.1	79.9	80.8	80.6
<b>Nondurable goods</b> .....	94.5	94.6	95.0	95.0	95.3	95.8	96.0	96.3	96.7	96.5	95.7	97.0	97.2
Food and kindred products .....	97.8	97.7	98.3	97.6	97.6	98.7	98.5	98.8	99.3	99.4	99.3	99.8	99.6
Tobacco manufactures .....	77.6	78.6	72.8	76.5	76.9	76.7	75.9	76.3	76.0	77.7	77.3	80.1	77.3
Textile mill products .....	77.6	78.2	78.8	79.2	79.6	80.1	80.8	81.2	82.3	82.9	81.3	82.9	83.2
Apparel and other textile products .....	84.4	84.6	84.6	85.0	85.1	85.2	86.3	85.8	86.1	85.3	83.5	85.4	85.9
Paper and allied products .....	99.1	99.2	99.2	98.9	99.7	100.1	100.5	100.6	100.6	99.7	99.5	100.6	100.2
Printing and publishing .....	127.5	128.0	128.1	128.4	128.9	129.1	129.4	129.5	130.2	129.4	128.7	129.8	131.5
Chemicals and allied products .....	92.3	92.5	93.1	92.5	92.8	93.4	92.7	93.2	93.4	93.1	93.4	93.7	93.3
Petroleum and coal products .....	83.3	82.6	83.5	81.4	81.8	82.0	81.6	84.3	83.1	83.3	82.9	84.5	83.5
Rubber and misc. plastics products .....	109.8	108.9	110.7	111.6	112.0	112.4	112.7	112.9	113.5	113.5	112.6	114.4	115.5
Leather and leather products .....	56.1	55.5	55.8	55.2	55.4	55.5	56.7	57.4	57.8	57.8	57.4	59.7	60.0
<b>Service-producing</b> .....	127.6	128.4	128.6	128.5	128.8	129.6	129.0	129.8	131.0	131.0	131.5	131.8	131.8
<b>Transportation and public utilities</b> .....	103.5	105.8	104.8	106.1	106.1	107.0	106.5	107.0	107.8	107.7	107.9	108.2	108.2
<b>Wholesale trade</b> .....	116.9	117.1	117.5	116.8	116.9	116.8	116.4	117.1	117.4	116.9	117.4	117.6	117.3
<b>Retail trade</b> .....	117.6	118.3	118.6	118.4	118.6	119.2	118.0	118.9	120.4	120.3	121.6	121.2	120.8
<b>Finance, insurance, and real estate</b> .....	137.1	137.3	138.6	137.8	139.0	140.3	139.8	140.4	141.0	141.5	142.0	142.5	143.0
<b>Services</b> .....	145.8	146.5	146.5	146.7	146.9	147.9	147.8	148.6	150.1	150.2	150.3	151.0	151.4

<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>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.



**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

**C-7. The Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1986							1987					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
Hourly Earnings Index <sup>2</sup> (1977 = 100)													
<b>Total private</b> (in current dollars) .....	169.2	169.1	169.5	169.8	170.2	171.2	171.1	171.2	171.8	172.2	172.6	172.7	173.1
<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> .....	151.9	151.5	152.0	151.9	153.2	154.7	154.3	152.8	152.4	153.8	153.7	154.2	154.9
<b>Manufacturing</b> .....	172.2	172.4	172.7	172.7	173.0	173.2	173.4	173.4	173.7	174.3	175.0	174.3	174.7
<b>Transportation and public utilities</b> ..	171.3	171.0	171.2	171.7	171.9	172.9	173.5	173.6	174.3	174.6	175.2	175.9	176.7
<b>Wholesale trade</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>Retail trade</b> .....	158.0	158.1	158.6	159.0	159.3	159.3	159.3	158.9	158.9	159.0	159.8	160.1	160.1
<b>Finance, insurance, and real estate</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>Services</b> .....	174.1	174.0	174.6	174.7	175.7	177.1	176.6	177.5	178.4	179.0	179.4	179.6	180.2
<b>Total private</b> (in constant dollars) <sup>4</sup> .....	95.2	95.1	95.2	95.0	95.1	95.5	95.3	94.7	94.6	94.4	94.2	94.0	( <sup>5</sup> )
Average hourly earnings													
<b>Total private</b> .....	\$8.75	\$8.74	\$8.77	\$8.78	\$8.82	\$8.86	\$8.84	\$8.86	\$8.88	\$8.91	\$8.91	\$8.94	\$8.96
<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> .....	\$12.46	\$12.44	\$12.48	\$12.48	\$12.57	\$12.70	\$12.65	\$12.51	\$12.48	\$12.62	\$12.61	\$12.66	\$12.72
<b>Manufacturing</b> .....	9.72	9.74	9.75	9.75	9.77	9.78	9.79	9.79	9.81	9.83	9.86	9.87	9.89
<b>Transportation and public utilities</b> ..	11.69	11.70	11.71	11.73	11.77	11.82	11.83	11.86	11.89	11.92	11.96	12.02	12.07
<b>Wholesale trade</b> .....	9.34	9.32	9.37	9.35	9.40	9.48	9.42	9.47	9.50	9.53	9.52	9.59	9.57
<b>Retail trade</b> .....	6.02	6.02	6.03	6.05	6.06	6.07	6.09	6.05	6.04	6.05	6.08	6.09	6.09
<b>Finance, insurance, and real estate</b> ..	8.37	8.35	8.41	8.39	8.43	8.59	8.46	8.59	8.66	8.67	8.69	8.73	8.68
<b>Services</b> .....	8.15	8.14	8.17	8.18	8.22	8.29	8.25	8.30	8.35	8.38	8.39	8.41	8.42
Average weekly earnings													
<b>Total private:</b>													
In current dollars .....	303.63	303.28	304.32	304.67	306.05	308.33	305.86	307.44	309.91	310.07	309.18	312.01	311.81
In constant (1977) dollars <sup>4</sup> .....	170.77	170.57	170.97	170.59	171.07	171.96	170.40	170.04	170.75	170.09	170.01	169.76	( <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> Excludes the effects of two types of changes that are unrelated to underlying wage rate movements: Fluctuations in overtime in manufacturing and interindustry employment shifts.

<sup>3</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>4</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<sup>5</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Alabama</b> .....	41.0	40.6	41.1	\$8.64	\$8.74	\$8.73	\$354.24	\$354.84	\$358.80
Birmingham .....	41.7	40.2	40.2	8.74	8.95	8.94	364.46	359.79	359.39
Mobile .....	41.3	41.9	41.6	10.27	9.92	10.00	424.15	415.65	416.00
<b>Alaska</b> .....	41.3	42.8	44.0	12.03	11.83	11.35	496.84	506.32	499.40
<b>Arizona</b> .....	40.9	40.0	40.9	9.76	9.95	9.91	399.18	398.00	405.32
<b>Arkansas</b> .....	40.4	40.5	40.8	7.75	7.91	7.96	313.10	320.36	324.77
Fayetteville-Springdale .....	40.9	40.4	40.8	6.85	7.11	7.21	280.17	287.24	294.17
Fort Smith .....	40.0	40.6	39.8	8.10	8.30	8.22	324.00	336.98	327.16
Little Rock-North Little Rock .....	41.0	40.5	40.7	8.44	8.33	8.52	346.04	337.37	346.76
Pine Bluff .....	42.4	42.4	42.4	10.02	10.58	10.62	424.85	448.59	450.29
<b>California</b> .....	40.2	39.5	40.4	10.26	10.68	10.71	412.45	421.86	432.68
<b>Colorado</b> .....	40.2	39.9	40.6	9.77	10.02	10.06	392.75	399.80	408.44
Denver .....	40.3	40.5	42.3	10.72	10.86	10.75	432.02	439.83	454.73
<b>Connecticut</b> .....	41.6	41.6	41.8	10.01	10.28	10.32	416.42	427.65	431.38
Bridgeport-Milford .....	41.0	41.9	42.2	10.28	10.77	10.83	421.48	451.26	457.03
Hartford .....	41.6	41.5	41.5	10.23	10.57	10.63	425.57	438.66	441.15
New Britain .....	41.6	42.9	43.3	10.50	10.59	10.69	436.80	454.31	462.88
New Haven-Meriden .....	40.5	40.3	40.6	9.49	10.05	10.05	384.35	405.02	408.03
Stamford .....	40.2	40.2	40.3	10.74	11.31	11.28	431.75	454.66	454.58
Waterbury .....	42.2	41.1	42.7	8.38	8.87	8.87	353.64	364.56	378.75
<b>Delaware</b> .....	41.2	40.2	41.5	10.01	10.41	10.43	412.41	418.48	432.85
Wilmington .....	40.4	41.0	41.3	11.66	12.21	12.39	471.06	500.61	511.71
<b>District of Columbia:</b>									
Washington MSA .....	38.0	39.4	40.9	10.21	9.56	8.93	387.98	376.66	365.24
<b>Florida</b> .....	40.6	40.3	40.6	7.94	8.10	8.10	322.36	326.43	328.86
Fort Lauderdale-Hollywood-Pompano Beach .....	41.2	42.0	42.3	7.90	7.96	8.10	325.48	334.32	342.63
Jacksonville .....	40.0	39.9	40.3	8.32	8.92	8.71	332.80	355.91	351.01
Lakeland-Winter Haven .....	39.1	42.2	41.8	7.56	7.84	7.81	295.60	330.85	326.46
Miami-Hialeah .....	38.7	37.6	38.9	6.99	7.18	7.08	270.51	269.97	275.41
Orlando .....	41.9	40.1	40.3	8.32	8.48	8.47	348.61	340.05	341.34
Pensacola .....	42.5	42.0	41.1	9.90	10.13	10.05	420.75	425.46	413.06
Tampa-St. Petersburg-Clearwater .....	39.8	39.7	40.2	7.46	7.63	7.65	296.91	302.91	307.53
West Palm Beach-Boca Raton-Delray Beach .....	39.5	40.3	39.8	8.56	9.20	9.20	338.12	370.76	366.16
<b>Georgia</b> .....	40.7	40.3	41.7	8.38	8.42	8.40	341.07	339.33	350.28
Atlanta .....	40.2	40.9	41.6	10.12	9.97	9.97	406.82	407.77	414.75
Savannah .....	44.9	44.2	45.4	10.56	10.74	11.02	474.14	474.71	500.31
<b>Hawaii</b> .....	37.8	39.4	39.5	8.74	9.16	9.29	330.37	360.90	366.96
Honolulu .....	38.1	39.3	39.7	8.86	9.34	9.29	337.57	367.06	368.81
<b>Idaho</b> .....	38.0	37.8	38.9	9.59	9.44	9.37	364.42	356.83	364.49
<b>Illinois</b> .....	40.5	41.2	41.3	10.66	10.86	10.87	431.73	447.43	448.93
Aurora-Elgin .....	39.0	41.4	41.0	9.90	10.28	10.23	386.10	425.59	419.43
Bloomington-Normal .....	40.4	38.4	40.3	10.94	10.55	10.72	441.98	405.12	432.02
Champaign-Urbana-Rantoul .....	41.6	40.7	40.4	8.85	9.15	8.93	368.16	372.41	360.77
Chicago .....	41.3	41.5	41.6	10.41	10.56	10.59	429.93	438.24	440.54
Davenport-Rock Island-Moline .....	40.1	40.2	40.0	12.73	12.92	12.75	510.47	519.38	510.00
Decatur .....	42.0	41.8	42.1	13.48	13.82	13.74	566.16	577.68	578.45
Joliet .....	42.8	41.8	42.3	11.73	11.71	11.74	502.04	489.48	496.60
Kankakee .....	38.9	39.3	38.4	10.40	10.05	9.90	404.56	394.97	380.16
Lake County .....	40.2	39.3	39.5	10.41	10.77	10.71	418.48	423.26	423.05
Peoria .....	44.7	42.8	42.9	12.93	12.92	12.87	577.97	552.98	552.12
Rockford .....	42.5	41.7	42.3	11.27	10.68	10.88	478.98	445.36	460.22
Springfield .....	41.6	41.3	41.7	11.70	11.52	11.53	486.72	475.78	480.80

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Indiana</b> .....	41.4	41.2	41.7	\$10.86	\$11.02	\$11.03	\$449.60	\$454.02	\$459.95
<b>Iowa</b> .....	40.4	40.4	41.4	10.53	10.65	10.50	425.41	430.26	434.70
Cedar Rapids .....	40.5	39.5	40.1	11.40	11.67	11.31	461.70	460.97	453.53
Des Moines .....	40.7	43.7	41.9	11.56	11.92	11.68	470.49	520.90	489.39
Dubuque .....	40.1	41.6	42.0	11.77	12.65	12.31	471.98	526.24	517.02
Sioux City .....	43.9	38.4	39.0	8.66	8.43	8.34	380.17	323.71	325.26
<b>Kansas</b> .....	40.5	40.6	41.0	9.63	9.99	9.97	390.02	405.59	408.77
Topeka .....	41.9	43.2	43.0	10.95	10.69	10.70	458.81	461.81	460.10
Wichita .....	39.0	39.5	39.6	9.95	10.90	11.08	388.05	430.55	438.77
<b>Kentucky</b> .....	39.6	39.3	40.5	9.90	10.08	10.06	392.04	396.14	407.43
Lexington-Fayette .....	37.5	36.3	37.7	10.36	10.96	10.79	388.50	397.85	406.78
Louisville .....	41.1	41.1	40.8	10.92	11.21	11.14	448.81	460.73	454.51
<b>Louisiana</b> .....	41.4	41.5	41.7	10.57	10.84	10.85	437.60	449.86	452.45
Baton Rouge .....	42.5	41.7	41.1	12.42	12.36	12.60	527.85	515.41	517.86
New Orleans .....	39.6	40.7	40.7	10.69	10.72	10.73	423.32	436.30	436.71
Shreveport .....	40.7	38.3	38.6	11.11	11.12	11.26	452.18	425.90	434.64
<b>Maine</b> .....	40.5	41.3	41.6	8.57	8.75	8.69	347.09	361.38	361.50
Lewiston-Auburn .....	38.6	40.4	40.3	7.07	7.35	7.30	272.90	296.94	294.19
Portland .....	38.4	40.0	40.5	9.32	9.18	9.18	357.89	367.20	371.79
<b>Maryland</b> .....	40.4	40.4	40.6	10.00	10.16	10.06	404.00	410.46	408.44
Baltimore MSA .....	41.2	41.3	41.3	10.56	10.86	10.79	435.07	448.52	445.63
<b>Massachusetts</b> .....	41.1	40.2	41.0	9.20	9.66	9.65	378.12	388.33	395.65
Boston .....	40.4	40.1	40.9	10.09	10.55	10.60	407.64	423.06	433.54
Springfield .....	42.4	41.7	42.2	8.94	9.11	9.14	379.06	379.89	385.71
Worcester .....	40.4	40.7	41.0	9.39	9.54	9.57	379.36	388.28	392.37
<b>Michigan</b> .....	42.3	42.1	42.1	12.79	12.94	12.88	541.02	544.77	542.25
Ann Arbor .....	43.1	45.8	44.3	13.83	14.20	13.85	596.07	650.36	613.55
Battle Creek .....	41.9	41.7	43.0	13.61	13.78	13.69	570.26	574.63	588.67
Detroit .....	43.5	43.4	43.0	13.74	13.80	13.80	597.69	598.92	593.40
Flint .....	42.9	43.3	42.9	14.55	14.94	14.90	624.19	646.90	639.21
Grand Rapids .....	40.2	39.0	39.5	10.76	11.06	11.07	432.55	431.34	437.26
Jackson .....	41.9	40.9	42.1	10.25	10.17	10.02	429.47	415.95	421.84
Kalamazoo .....	42.8	42.5	42.5	11.93	12.07	11.85	510.60	512.97	503.62
Lansing-East Lansing .....	41.1	42.8	42.7	14.26	14.04	14.03	586.09	600.91	599.08
Muskegon .....	40.7	40.7	41.0	11.50	11.68	11.44	468.05	475.38	469.04
Saginaw-Bay City-Midland .....	43.4	42.0	42.9	13.86	14.40	14.40	601.52	604.80	617.76
<b>Minnesota</b> .....	40.5	39.8	40.4	10.19	10.44	10.47	412.70	415.51	422.99
Duluth .....	39.8	37.4	37.9	10.76	10.72	11.11	428.25	400.93	421.07
Minneapolis-St. Paul .....	40.8	40.2	40.6	10.94	11.14	11.21	446.35	447.83	455.13
St. Cloud .....	40.1	38.4	39.0	9.37	9.22	9.06	375.74	354.05	353.34
<b>Mississippi</b> .....	40.2	39.4	39.9	7.45	7.55	7.56	299.49	297.47	301.64
Jackson .....	41.1	39.5	39.9	8.24	8.46	8.45	338.66	334.17	337.16
<b>Missouri</b> .....	40.2	39.7	40.6	9.90	9.74	9.73	397.98	386.68	395.04
Kansas City .....	40.4	40.0	40.8	11.14	11.22	11.02	450.06	448.80	449.62
St. Joseph .....	39.7	37.5	39.0	9.13	9.39	9.76	362.46	352.13	380.64
St. Louis .....	40.5	40.6	41.2	11.32	11.37	11.41	458.46	461.62	470.09
Springfield .....	43.3	38.7	38.8	8.96	8.61	8.58	387.97	333.21	332.90
<b>Montana</b> .....	39.4	38.8	40.1	11.22	10.88	10.48	442.07	422.14	420.25
<b>Nebraska</b> .....	40.9	39.6	40.0	9.28	9.29	9.31	379.55	367.88	372.40
Lincoln .....	40.3	38.6	39.3	9.52	9.68	9.67	383.66	373.65	380.03
Omaha .....	40.3	39.9	40.3	9.80	9.91	9.95	394.94	395.41	400.99
<b>Nevada</b> .....	40.6	40.7	40.8	9.33	9.77	9.75	378.80	397.64	397.80
Las Vegas .....	39.9	41.5	40.3	11.29	12.45	11.86	450.47	516.68	477.96

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 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>	May 1986	Apr. 1987	May 1987 <sup>a</sup>
<b>New Hampshire</b> .....	40.9	40.8	41.1	\$8.78	\$9.21	\$9.19	\$359.10	\$375.77	\$377.71
Nashua .....	41.2	42.1	42.2	10.48	11.37	11.34	431.78	478.68	478.55
<b>New Jersey</b> .....	41.1	40.9	41.0	10.06	10.38	10.41	413.47	424.54	426.81
<b>New Mexico</b> .....	39.7	39.8	40.9	8.67	8.73	8.65	344.20	347.45	353.79
Albuquerque .....	40.0	39.9	39.9	8.76	9.17	9.12	350.40	365.88	363.89
<b>New York</b> .....	39.6	39.2	39.6	9.91	10.08	9.96	392.44	395.14	394.42
Albany-Schenectady-Troy .....	40.5	39.4	39.8	10.28	10.53	10.45	416.34	414.88	415.91
Binghamton .....	40.0	39.1	39.9	8.91	9.32	8.95	356.40	364.41	357.11
Buffalo .....	41.5	41.6	40.8	12.21	12.07	11.91	506.72	502.11	485.93
Elmira .....	40.9	40.6	40.9	9.38	9.62	9.34	383.64	390.57	382.01
Glens Falls .....	39.5	( <sup>1</sup> )	( <sup>1</sup> )	9.79	( <sup>1</sup> )	( <sup>1</sup> )	386.71	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	40.0	39.8	39.8	10.02	10.61	10.54	400.80	422.28	419.49
New York PMSA .....	37.2	37.2	37.5	9.12	9.41	9.30	339.26	350.05	348.75
New York City .....	36.9	36.9	37.2	8.96	9.33	9.21	330.62	344.28	342.61
Niagara Falls .....	41.3	40.7	40.7	12.57	12.70	12.71	519.14	516.89	517.30
Orange County .....	39.1	38.0	38.2	7.91	7.89	7.92	309.28	299.82	302.54
Poughkeepsie .....	42.8	42.3	41.3	8.87	9.21	9.28	379.64	389.58	383.26
Rochester .....	40.9	40.8	41.0	11.96	11.93	11.94	489.16	486.74	489.54
Rockland County .....	41.5	40.1	40.0	9.54	10.23	10.30	395.91	410.22	412.00
Syracuse .....	40.3	40.1	40.8	11.19	11.20	10.97	450.96	449.12	447.58
Utica-Rome .....	41.7	41.0	41.4	9.32	9.59	9.60	388.64	393.19	397.44
Westchester County .....	38.4	38.8	39.7	10.25	9.79	9.63	393.60	379.85	382.31
<b>North Carolina</b> .....	40.5	40.4	41.1	7.52	7.73	7.78	304.56	312.29	319.76
Asheville .....	41.7	41.3	41.9	7.62	7.78	7.78	317.75	321.31	325.98
Charlotte-Gastonia-Rock Hill .....	41.2	41.5	42.7	7.66	8.02	7.99	315.59	332.83	341.17
Greensboro-Winston-Salem-High Point .....	40.5	40.0	41.2	8.38	8.59	8.66	339.39	343.60	356.79
Raleigh-Durham .....	41.5	41.2	42.0	8.57	8.74	8.81	355.66	360.09	370.02
<b>North Dakota</b> .....	38.2	37.8	40.1	8.23	8.46	8.51	314.39	319.79	341.25
Fargo-Moorhead .....	37.0	36.3	37.8	8.51	8.41	8.46	314.87	305.28	319.79
<b>Ohio</b> .....	41.8	42.1	42.5	11.49	11.71	11.71	480.28	492.99	497.68
Akron .....	43.0	43.0	43.0	11.06	11.25	11.26	475.58	483.75	484.18
Canton .....	39.9	41.5	42.3	11.13	11.35	11.49	444.09	471.03	486.03
Cincinnati .....	41.9	41.8	42.3	10.61	10.99	11.01	444.56	459.38	465.72
Cleveland .....	41.5	42.7	42.8	11.39	11.59	11.58	472.69	494.89	495.62
Columbus .....	41.2	41.1	41.7	11.20	11.35	11.39	461.44	466.49	474.96
Dayton-Springfield .....	42.8	41.3	41.4	12.04	11.77	11.76	515.31	486.10	486.86
Toledo .....	42.2	42.4	41.9	12.43	12.67	12.67	524.55	537.21	530.87
Youngstown-Warren .....	40.5	43.1	42.9	13.18	13.27	13.28	533.79	571.94	569.71
<b>Oklahoma</b> .....	41.0	40.7	41.5	9.84	10.01	9.85	403.44	407.41	408.78
Oklahoma City .....	39.7	39.8	40.8	10.86	11.05	11.02	431.14	439.79	449.62
Tulsa .....	39.8	40.3	40.7	10.56	10.59	10.59	420.29	426.78	431.01
<b>Oregon</b> .....	39.4	39.3	40.2	10.76	10.55	10.60	423.94	414.62	426.12
Eugene-Springfield .....	40.7	40.7	41.2	11.05	10.62	10.55	449.74	432.23	434.66
Portland .....	39.1	39.2	40.0	10.92	10.75	10.89	426.97	421.40	435.60
Salem .....	37.4	38.7	38.6	9.78	9.56	9.55	365.77	369.97	368.63

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Pennsylvania</b>	39.9	40.2	40.7	\$9.71	\$9.92	\$9.93	\$387.43	\$398.78	\$404.15
Allentown-Bethlehem	38.6	38.6	39.0	10.24	10.33	10.43	395.26	398.74	406.77
Altoona	38.7	39.0	39.5	8.31	8.80	8.65	321.60	343.20	341.68
Beaver County	41.1	41.6	41.9	11.73	10.83	11.01	482.10	450.53	461.32
Erie	41.8	40.8	41.8	10.17	10.20	10.17	425.11	416.16	425.11
Harrisburg-Lebanon-Carlisle	39.7	39.3	39.7	9.25	9.35	9.30	367.23	367.46	369.21
Johnstown	37.4	38.4	38.5	8.24	8.39	8.40	308.18	322.18	323.40
Lancaster	39.9	39.8	39.5	9.43	9.73	9.67	376.26	387.25	381.97
Philadelphia PMSA	39.9	40.4	40.5	10.39	10.69	10.72	414.56	431.88	434.16
Pittsburgh	40.8	41.1	41.8	11.15	11.13	11.12	454.92	457.44	464.82
Reading	40.1	39.9	40.5	9.89	9.99	9.99	396.59	398.60	404.60
Scranton-Wilkes-Barre	38.0	38.2	38.6	8.54	8.63	8.66	324.52	329.67	334.28
Sharon	40.7	40.8	41.1	11.12	11.19	11.25	452.58	456.55	462.38
State College	39.5	39.1	39.1	7.98	8.22	8.19	315.21	321.40	320.23
Williamsport	39.8	40.6	42.0	8.56	8.60	8.53	340.69	349.16	358.26
York	41.1	41.6	42.7	9.18	9.30	9.40	377.30	386.88	401.38
<b>Rhode Island</b>	40.5	40.7	40.2	7.89	8.18	8.20	319.55	332.93	329.64
Pawtucket-Woonsocket-Attleboro	40.4	40.5	40.3	7.38	7.65	7.66	298.15	309.83	308.70
Providence	40.1	40.3	39.9	7.91	8.12	8.15	317.19	327.24	325.19
<b>South Carolina</b>	40.8	41.4	41.6	7.87	8.06	8.06	321.10	333.68	335.30
Charleston	41.5	41.6	41.5	9.12	9.00	8.98	378.48	374.40	372.67
Columbia	39.7	40.7	40.6	7.68	7.87	7.83	304.90	320.31	317.90
Greenville-Spartanburg	40.7	41.5	41.5	7.71	7.97	7.97	313.80	330.76	330.76
<b>South Dakota</b>	42.3	41.6	41.3	7.69	8.01	7.73	325.29	333.22	319.25
Sioux Falls	46.3	45.6	41.5	8.01	8.27	7.31	370.86	377.11	303.37
<b>Tennessee</b>	41.4	40.6	41.5	8.44	8.89	8.78	349.42	360.93	364.37
Chattanooga	42.4	40.2	40.8	7.51	7.90	7.88	318.42	317.58	321.50
Johnson City-Kingsport-Bristol	44.0	42.8	43.5	8.95	9.00	8.99	393.80	385.20	391.07
Knoxville	40.7	38.2	39.6	8.95	9.07	9.08	364.26	346.47	359.57
Memphis	44.4	41.1	41.6	8.68	8.94	8.89	385.39	367.43	369.82
Nashville	39.1	39.9	40.0	9.31	10.12	10.03	364.02	403.79	401.20
<b>Texas</b>	41.4	41.0	41.6	9.55	9.89	9.86	395.37	405.49	410.18
Dallas	42.4	41.6	41.9	9.37	9.66	9.61	397.29	401.86	402.66
Ft. Worth-Arlington	41.9	40.6	41.7	9.52	9.76	9.87	398.89	396.26	411.58
Houston	42.2	43.2	43.5	11.13	11.17	11.17	469.69	482.54	485.90
San Antonio	41.6	40.7	40.4	7.39	7.67	7.71	307.42	312.17	311.48
<b>Utah</b>	39.7	39.1	39.6	10.15	9.97	9.95	402.96	389.83	394.02
Salt Lake City-Ogden	40.4	39.8	40.6	9.84	9.94	9.94	397.54	395.61	403.56
<b>Vermont</b>	40.6	39.9	40.3	8.76	8.97	9.06	355.66	357.90	365.12
Burlington	42.0	41.1	40.7	9.62	9.86	9.93	404.04	405.25	404.15
<b>Virginia</b>	40.5	40.7	41.1	8.81	9.09	9.09	356.81	369.96	373.60
Bristol	39.9	40.2	39.1	7.54	7.63	7.58	300.85	306.73	296.38
Charlottesville	40.7	40.3	40.7	7.42	7.48	7.56	301.99	301.44	307.69
Danville	41.0	41.8	44.0	8.07	8.07	8.37	330.87	337.33	368.28
Lynchburg	41.0	41.8	42.0	8.28	8.34	8.41	339.48	348.61	353.22
Northern Virginia	40.2	39.9	41.0	9.38	9.76	9.95	377.08	389.42	407.95
Richmond-Petersburg	39.6	40.8	41.6	10.93	11.47	11.54	432.83	467.98	480.06
Roanoke	40.4	40.2	41.1	8.30	8.70	8.69	335.32	349.74	357.16

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 1986	Apr. 1987	May 1987 <sup>p</sup>	May 1986	Apr. 1987	May 1987 <sup>p</sup>	May 1986	Apr. 1987	May 1987 <sup>p</sup>
<b>Washington</b> .....	39.7	39.8	40.1	\$11.80	\$11.73	\$11.62	\$468.46	\$466.85	\$465.96
<b>West Virginia</b> .....	40.2	40.4	40.6	10.38	10.78	10.58	417.28	435.51	429.55
Charleston .....	42.4	44.6	44.1	12.70	12.07	12.62	538.48	538.32	556.54
Huntington-Ashland .....	39.2	38.9	38.8	12.09	12.08	12.17	473.92	469.91	472.20
Parkersburg-Marietta .....	41.8	41.8	40.3	12.17	11.93	11.98	508.71	498.67	482.79
Wheeling .....	42.9	40.8	40.9	12.13	12.12	11.38	520.38	494.50	465.44
<b>Wisconsin</b> .....	41.1	40.4	40.9	10.37	10.57	10.56	426.21	427.03	431.90
Appleton-Oshkosh .....	42.3	42.6	42.8	10.31	10.66	10.87	436.11	454.12	465.24
Eau Claire .....	40.5	39.1	40.1	10.39	11.07	10.64	420.80	432.84	426.66
Green Bay .....	41.5	41.7	41.8	11.25	11.34	11.45	466.88	472.88	478.61
Janesville-Beloit .....	38.6	38.0	38.2	11.83	12.18	12.32	456.64	462.84	470.62
Kenosha .....	39.9	38.9	39.1	11.03	11.99	11.92	440.10	466.41	466.07
La Crosse .....	38.7	39.0	39.6	9.49	9.16	9.35	367.26	357.24	370.26
Madison .....	41.9	40.5	40.1	10.13	9.98	10.02	424.45	404.19	401.80
Milwaukee .....	41.0	40.2	40.9	11.56	11.68	11.61	473.96	469.54	474.85
Racine .....	40.2	39.6	40.4	10.98	11.05	11.26	441.40	437.58	454.90
Sheboygan .....	39.7	40.2	40.5	9.62	9.66	9.74	381.91	388.33	394.47
Wausau .....	41.0	41.7	41.7	9.67	9.79	9.85	396.47	408.24	410.75
<b>Wyoming</b> .....	38.9	39.4	40.0	9.93	9.64	9.56	386.28	379.82	382.40
<b>Puerto Rico</b> ..	38.0	37.9	39.2	5.27	5.38	5.39	200.26	203.90	211.29
<b>Virgin Islands</b> ..	40.8	42.6	42.2	9.64	9.50	9.52	393.31	404.70	401.74

<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 1986 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. 1987 <sup>r</sup>	May 1987 <sup>r</sup>	June 1987 <sup>p</sup>	June 1986 to June 1987 <sup>p</sup>	Apr. 1987 to May 1987 <sup>r</sup>	May 1987 to June 1987 <sup>p</sup>
Total .....	187,716	189,628	189,555	2.7	1.0	0.0
Private sector .....	154,867	155,524	155,496	2.6	.4	.0
Mining .....	1,594	1,621	1,595	-4.8	1.7	-1.6
Construction .....	9,773	9,922	9,785	3.3	1.5	-1.4
Manufacturing .....	40,038	40,408	40,399	.9	.9	.0
Durable goods .....	23,815	24,003	23,984	.1	.8	-.1
Nondurable goods .....	16,223	16,405	16,415	2.2	1.1	.1
Transportation and public utilities .....	10,879	10,884	10,931	2.5	.0	.4
Wholesale trade .....	11,481	11,498	11,481	.8	.2	-.1
Retail trade .....	27,930	27,807	27,760	2.9	-.4	-.2
Finance, insurance, and real estate .....	12,382	12,437	12,522	4.8	.4	.7
Services .....	40,789	40,945	41,024	4.1	.4	.2
Government .....	32,849	34,104	34,058	3.0	3.8	-.1

<sup>1</sup> Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52.

<sup>p</sup> = preliminary.

<sup>r</sup> = revised.

NOTE: Data refer to hours of all employees—production workers,

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2134-1, chapter 13, Productivity Measures: Business Economy and Major Sectors. 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										
	1985	1986	1984		1985				1986				1987
			III	IV	I	II	III	IV	I	II	III	IV	I
<b>Business sector</b>													
Output per hour of all persons .....	106.4	107.1	105.5	105.5	105.7	106.4	107.3	106.4	107.3	107.4	107.3	106.8	106.9
Output .....	122.7	125.9	119.5	120.2	121.3	122.3	123.5	123.8	125.3	125.4	126.0	126.8	128.0
Hours .....	115.3	117.5	113.3	114.0	114.8	115.0	115.2	116.4	116.8	116.7	117.4	118.7	119.8
Compensation per hour .....	175.3	180.9	169.0	170.6	172.3	174.5	176.4	178.0	179.1	180.4	181.7	182.6	182.7
Real compensation per hour .....	98.8	100.0	98.1	98.2	98.4	98.6	99.0	99.0	99.2	100.2	100.4	100.2	99.0
Unit labor costs .....	164.8	168.8	160.2	161.7	163.1	164.0	164.4	167.3	167.0	168.0	169.3	171.0	170.9
Unit nonlabor payments .....	159.7	161.8	157.0	157.7	158.3	160.0	161.4	159.6	162.2	161.9	163.4	159.7	164.6
Implicit price deflator .....	163.0	163.3	159.0	160.3	161.4	162.6	163.4	164.6	165.3	165.8	167.2	167.0	168.7
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	104.8	105.5	104.4	104.3	104.4	104.9	105.4	104.5	105.6	105.7	105.7	105.3	105.4
Output .....	122.5	125.9	119.5	120.2	121.1	122.1	123.3	123.6	125.1	125.3	126.1	127.0	128.3
Hours .....	116.9	119.3	114.5	115.2	116.0	116.4	116.9	118.2	118.5	118.5	119.4	120.6	121.7
Compensation per hour .....	174.6	179.8	168.7	170.4	172.1	174.0	175.4	177.0	178.3	179.3	180.4	181.6	181.6
Real compensation per hour .....	98.4	99.4	97.9	98.1	98.3	98.3	98.5	98.4	98.8	99.7	99.6	99.6	98.4
Unit labor costs .....	166.7	170.4	161.5	163.3	164.8	165.9	166.3	169.3	168.8	169.6	170.7	172.5	172.2
Unit nonlabor payments .....	160.6	163.9	157.2	157.9	158.9	160.8	163.0	160.3	163.9	163.7	165.9	162.2	167.5
Implicit price deflator .....	164.6	168.1	160.0	161.4	162.7	164.1	165.2	166.2	167.1	167.5	169.0	168.9	170.6
<b>Manufacturing</b>													
Output per hour of all persons .....	121.7	126.0	117.5	118.0	119.1	121.8	122.9	123.2	124.4	125.7	127.0	127.1	127.7
Output .....	120.4	124.4	117.1	117.6	118.6	119.9	121.1	122.1	123.5	123.6	124.7	125.9	127.0
Hours .....	98.9	98.7	99.7	99.7	99.6	98.5	98.5	99.1	99.3	98.4	98.2	99.0	99.4
Compensation per hour .....	176.7	181.9	169.1	171.5	173.8	175.6	178.1	179.3	180.2	181.4	182.5	183.5	183.0
Real compensation per hour .....	99.5	100.5	98.1	98.7	99.2	99.2	100.0	99.7	99.8	100.8	100.8	100.7	99.1
Unit labor costs .....	145.1	144.3	143.9	145.4	145.9	144.3	144.9	145.6	144.9	144.3	143.7	144.4	143.3
<b>Durable goods</b>													
Output per hour of all persons .....	124.6	130.2	117.9	118.8	121.0	124.4	126.2	126.9	128.5	129.6	131.2	131.6	132.4
Output .....	124.7	128.8	118.7	120.2	122.2	124.1	125.5	127.0	128.4	127.8	128.8	130.1	131.2
Hours .....	100.1	98.9	100.7	101.2	100.9	99.8	99.5	100.0	99.9	98.7	98.2	98.8	99.0
Compensation per hour .....	174.9	180.7	167.2	169.4	172.0	173.2	176.5	178.0	178.9	180.2	181.3	182.6	181.5
Real compensation per hour .....	98.5	99.9	97.1	97.5	98.2	97.8	99.1	99.0	99.1	100.1	100.1	100.2	98.4
Unit labor costs .....	140.3	138.8	141.8	142.6	142.1	139.2	139.9	140.2	139.2	139.1	138.1	138.8	137.1
<b>Nondurable goods</b>													
Output per hour of all persons .....	117.3	119.8	116.8	116.6	116.2	117.7	118.0	117.4	118.1	119.9	120.8	120.4	120.8
Output .....	114.1	117.9	114.6	113.8	113.3	113.8	114.5	114.9	116.1	117.4	118.6	119.6	120.8
Hours .....	97.3	98.5	98.1	97.6	97.6	96.7	97.0	97.9	98.3	97.9	98.2	99.3	100.0
Compensation per hour .....	179.4	183.8	171.9	174.6	176.5	179.4	180.4	181.3	182.2	183.5	184.8	185.1	185.7
Real compensation per hour .....	101.0	101.6	99.8	100.5	100.8	101.3	101.3	100.8	100.9	102.0	102.1	101.6	100.6
Unit labor costs .....	152.9	153.5	147.1	149.7	151.9	152.5	152.9	154.4	154.3	153.1	153.0	153.7	153.7
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	106.8	106.9	105.5	105.8	106.0	106.5	107.8	107.0	106.9	106.8	106.9	107.2	107.2
Output .....	124.8	127.2	120.9	122.1	123.1	124.2	126.0	126.1	126.9	126.6	127.0	128.3	130.0
Hours .....	116.9	119.0	114.6	115.5	116.1	116.6	116.8	117.8	118.7	118.5	118.8	119.6	121.2
Compensation per hour .....	172.3	176.5	166.6	168.3	169.9	171.6	173.1	174.5	175.4	176.1	176.8	177.8	177.6
Real compensation per hour .....	97.0	97.5	96.7	96.9	97.0	96.9	97.2	97.0	97.1	97.8	97.7	97.6	96.2
Total unit costs .....	165.8	169.1	162.6	163.8	164.9	165.8	165.0	167.2	168.3	168.6	169.8	169.6	169.5
Unit labor costs .....	161.2	165.0	157.9	159.1	160.3	161.1	160.5	163.0	164.0	164.8	165.4	165.8	165.6
Unit nonlabor costs .....	179.1	181.2	176.4	177.5	178.5	179.8	178.3	179.8	181.1	179.9	182.6	180.9	181.0
Unit profits .....	133.1	134.1	130.3	130.5	129.3	130.2	141.7	131.2	131.7	132.3	135.8	136.8	147.8
Implicit price deflator .....	161.8	164.9	158.7	159.8	160.6	161.6	162.2	162.9	164.0	164.3	165.7	165.7	166.9

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 1985	I 1986	II 1986	III 1986	IV 1986	I 1987	IV 1985	I 1986	II 1986	III 1986	IV 1986	i 1987
<b>Business sector</b>												
Output per hour of all persons .....	-3.2	3.3	0.5	-0.4	-2.0	0.6	0.9	1.5	1.0	0.0	0.3	-0.3
Output .....	1.0	4.7	.3	2.0	2.4	4.1	3.0	3.3	2.5	2.0	2.4	2.2
Hours .....	4.3	1.4	-2	2.4	4.6	3.4	2.1	1.8	1.6	2.0	2.0	2.5
Compensation per hour .....	3.8	2.5	2.8	2.9	2.0	.3	4.4	3.9	3.4	3.0	2.6	2.0
Real compensation per hour .....	-1	.9	4.2	.4	-6	-4.7	.8	.8	1.7	1.3	1.2	-2
Unit labor costs .....	7.2	-7	2.3	3.3	4.2	-3	3.4	2.4	2.4	3.0	2.2	2.3
Unit nonlabor payments .....	-4.3	6.6	-7	3.7	-8.6	12.7	1.2	2.5	1.2	1.2	.1	1.5
Implicit price deflator .....	3.0	1.8	1.2	3.4	-4	4.0	2.7	2.4	2.0	2.4	1.5	2.0
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	-3.5	4.3	.5	-3	-1.5	.5	.2	1.2	.8	.2	.7	-2
Output .....	1.0	5.1	.6	2.6	2.7	4.3	2.8	3.3	2.7	2.3	2.8	2.6
Hours .....	4.6	.8	.1	2.9	4.3	3.8	2.6	2.1	1.8	2.1	2.0	2.8
Compensation per hour .....	3.7	3.1	2.3	2.3	2.7	.0	3.9	3.6	3.1	2.8	2.6	1.8
Real compensation per hour .....	-2	1.5	3.6	-1	.0	-5.0	.3	.5	1.4	1.2	1.2	-4
Unit labor costs .....	7.4	-1.2	1.8	2.6	4.2	-5	3.7	2.5	2.2	2.6	1.8	2.0
Unit nonlabor payments .....	-6.6	9.3	-6	5.5	-8.6	13.9	1.5	3.1	1.8	1.7	1.2	2.2
Implicit price deflator .....	2.4	2.3	1.0	3.6	-3	4.2	2.9	2.7	2.1	2.3	1.6	2.1
<b>Manufacturing</b>												
Output per hour of all persons .....	.8	4.0	4.3	4.3	.2	2.1	4.4	4.4	3.2	3.3	3.2	2.7
Output .....	3.5	4.5	.6	3.6	3.6	3.7	3.8	4.1	3.1	3.0	3.1	2.9
Hours .....	2.7	.4	-3.5	-6	3.4	1.6	-6	-3	-2	-3	-1	.2
Compensation per hour .....	2.8	2.1	2.7	2.4	2.1	-1.1	4.5	3.7	3.3	2.5	2.3	1.5
Real compensation per hour .....	-1.1	.5	4.1	.0	-6	-6.0	1.0	.6	1.6	.8	1.0	-7
Unit labor costs .....	2.0	-1.9	-1.5	-1.8	1.9	-3.1	.1	-7	.1	-8	-8	-1.1
<b>Durable goods</b>												
Output per hour of all persons .....	2.5	5.1	3.2	5.2	1.1	2.6	6.8	6.2	4.2	4.0	3.6	3.0
Output .....	4.8	4.5	-1.7	3.3	3.8	3.5	5.6	5.1	3.0	2.7	2.4	2.2
Hours .....	2.2	-6	-4.8	-1.8	2.6	.8	-1.1	-1.1	-1.1	-1.3	-1.2	-8
Compensation per hour .....	3.3	2.2	2.8	2.5	3.0	-2.3	5.0	4.1	4.0	2.7	2.6	1.5
Real compensation per hour .....	-5	.6	4.1	.0	.3	-7.2	1.5	.9	2.4	1.0	1.2	-8
Unit labor costs .....	.8	-2.8	-4	-2.6	1.8	-4.8	-1.7	-2.0	-1	-1.3	-1.0	-1.5
<b>Nondurable goods</b>												
Output per hour of all persons .....	-2.0	2.4	6.2	3.1	-1.3	1.3	.7	1.7	1.9	2.4	2.6	2.3
Output .....	1.3	4.5	4.5	4.3	3.2	4.1	.9	2.5	3.2	3.6	4.1	4.0
Hours .....	3.4	2.0	-1.6	1.2	4.6	2.7	.3	.8	1.3	1.2	1.5	1.7
Compensation per hour .....	1.9	2.2	2.9	2.7	.7	1.3	3.8	3.3	2.3	2.4	2.1	1.9
Real compensation per hour .....	-1.9	.6	4.2	.3	-1.9	-3.7	.3	.2	.6	.8	.8	-3
Unit labor costs .....	4.0	-2	-3.1	-3	2.0	.0	3.2	1.6	.4	.0	-4	-4
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-2.8	-5	-3	.2	1.4	.0	1.2	.9	.3	-9	.2	.3
Output .....	.5	2.6	-1.1	1.3	4.1	5.5	3.3	3.2	2.0	.8	1.7	2.4
Hours .....	3.4	3.1	-8	1.2	2.7	5.5	2.1	2.2	1.7	1.7	1.5	2.1
Compensation per hour .....	3.3	2.0	1.6	1.8	2.3	-6	3.7	3.2	2.6	2.2	1.9	1.3
Real compensation per hour .....	-5	.4	2.9	-6	-3	-5.6	.2	.1	1.0	.5	.6	-9
Total unit costs .....	5.5	2.7	.6	2.8	-3	-4	2.1	2.1	1.7	2.9	1.4	.7
Unit labor costs .....	6.3	2.5	1.9	1.6	.9	-6	2.4	2.3	2.3	3.1	1.7	.9
Unit nonlabor costs .....	3.3	3.1	-2.7	6.1	-3.6	.1	1.3	1.5	.0	2.4	.7	-1
Unit profits .....	-26.4	1.3	2.0	11.0	2.8	36.4	.6	1.8	1.6	-4.2	4.2	12.2
Implicit price deflator .....	1.7	2.5	.7	3.6	.0	2.9	2.0	2.1	1.7	2.1	1.7	1.8

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Alabama</b> .....	1,898.8	1,870.0	1,889.2	184.7	153.7	149.6	9.7	8.2	7.9
Birmingham .....	442.3	443.2	446.2	35.6	31.7	30.0	8.0	7.1	6.7
Huntsville .....	126.4	126.9	128.4	8.5	7.2	6.8	8.7	5.7	5.3
Mobile .....	213.4	209.9	211.3	23.1	20.2	19.3	10.8	9.6	9.2
Montgomery .....	136.2	134.5	136.5	10.8	9.0	9.4	7.9	6.7	6.9
Tuscaloosa .....	68.8	69.8	69.9	5.6	4.4	4.6	8.2	6.3	6.6
<b>Alaska</b> .....	263.0	253.4	258.1	28.9	29.0	28.6	11.0	11.5	11.1
<b>Arizona</b> .....	1,594.0	1,604.7	1,601.5	108.5	112.9	106.7	6.8	7.0	6.7
Phoenix .....	983.9	996.1	995.1	53.2	59.2	55.1	5.4	5.9	5.5
Tucson .....	312.4	308.0	307.1	17.5	17.3	15.6	5.8	5.6	5.1
<b>Arkansas</b> .....	1,079.5	1,068.8	1,079.5	86.3	85.9	83.9	8.0	8.0	7.8
Fayetteville-Springdale .....	54.5	56.4	56.2	2.3	2.4	2.2	4.3	4.3	3.9
Fort Smith .....	87.5	87.0	87.8	5.9	5.2	5.1	6.7	6.0	5.8
Little Rock-North Little Rock .....	251.8	252.5	254.2	15.6	18.1	17.8	6.2	7.2	7.0
Pine Bluff .....	37.8	36.4	36.3	2.9	3.3	3.1	7.8	9.1	8.5
<b>California<sup>1</sup></b> .....	13,187.8	13,689.7	13,806.9	806.9	790.1	767.1	6.1	5.8	5.6
Anaheim-Santa Ana .....	1,231.8	1,311.5	1,316.6	45.0	39.4	40.2	3.7	3.0	3.1
Bakersfield .....	220.1	225.3	225.4	24.1	23.9	20.3	10.9	10.6	9.0
Fresno .....	288.9	296.7	300.9	34.0	32.9	29.3	11.8	11.1	9.7
Los Angeles-Long Beach <sup>1</sup> .....	4,044.0	4,141.0	4,193.0	244.0	264.0	264.0	6.0	6.4	6.3
Modesto .....	142.8	147.0	149.9	21.3	19.8	19.3	14.9	13.5	12.9
Oakland .....	895.7	1,049.4	1,051.9	54.0	49.9	49.9	5.4	4.8	4.7
Oxnard-Ventura .....	318.0	335.8	338.9	18.5	15.7	15.3	5.8	4.7	4.5
Riverside-San Bernardino .....	843.4	897.9	908.7	48.1	45.8	47.0	5.7	5.1	5.2
Sacramento .....	634.9	667.7	674.3	36.6	35.0	34.9	5.8	5.2	5.2
Salinas-Seaside-Monterey .....	149.6	155.8	156.2	13.5	13.6	10.0	9.0	8.7	6.4
San Diego .....	1,002.7	1,055.7	1,063.5	45.8	44.2	45.3	4.6	4.2	4.3
San Francisco .....	859.3	884.2	885.7	36.3	32.8	32.4	4.2	3.7	3.7
San Jose .....	790.1	807.0	806.9	42.7	35.8	35.5	5.4	4.4	4.4
Santa Barbara-Santa Maria-Lompoc .....	175.9	180.5	181.2	8.1	7.9	7.1	4.6	4.4	3.9
Santa Rosa-Petaluma .....	177.4	183.9	186.6	9.2	8.7	8.4	5.2	4.7	4.5
Stockton .....	183.1	188.6	192.7	19.7	18.9	17.9	10.7	10.0	9.3
Vallejo-Fairfield-Napa .....	176.6	187.4	186.5	10.4	10.4	9.9	5.9	5.6	5.3
<b>Colorado</b> .....	1,692.9	1,696.8	1,698.3	126.7	151.4	142.1	7.5	8.9	8.4
Boulder-Longmont .....	129.8	129.7	129.7	7.7	8.4	7.8	6.0	6.5	6.0
Denver .....	897.4	900.7	907.3	58.0	71.8	68.6	6.5	8.0	7.6
<b>Connecticut</b> .....	1,734.9	1,739.0	1,745.7	61.8	56.4	54.1	3.6	3.2	3.1
Bridgeport-Milford .....	229.0	228.4	229.1	9.8	9.0	8.6	4.3	4.0	3.8
Hartford .....	416.1	421.5	422.5	12.6	12.4	11.7	3.0	3.0	2.8
New Britain .....	74.7	73.8	73.5	3.0	2.6	2.4	4.0	3.5	3.3
New Haven-Meriden .....	271.9	269.7	271.6	9.7	8.6	8.3	3.6	3.2	3.1
Stamford .....	115.8	117.3	117.6	3.0	2.8	2.7	2.6	2.4	2.3
Waterbury .....	102.7	101.6	101.7	5.1	4.7	4.3	5.0	4.6	4.2
<b>Delaware</b> .....	325.4	336.4	340.3	12.9	10.0	9.5	4.0	3.0	2.8
Wilmington .....	262.0	289.1	289.3	13.7	10.7	9.2	4.8	3.7	3.2
<b>District of Columbia</b> .....	322.8	335.6	336.7	24.0	23.2	21.0	7.4	6.9	6.2
Washington .....	2,029.8	2,099.1	2,117.5	69.4	71.9	68.6	3.4	3.4	3.2
<b>Florida<sup>1</sup></b> .....	5,562.3	5,767.9	5,878.7	294.0	296.7	297.3	5.3	5.2	5.1
Daytona Beach .....	138.2	144.0	147.3	5.9	6.5	6.5	4.2	4.5	4.4
Fort Lauderdale-Hollywood-Pompano Beach .....	579.1	597.3	606.9	24.5	26.0	25.2	4.2	4.4	4.2
Fort Myers-Cape Coral .....	120.3	135.0	137.0	4.5	4.7	4.7	3.7	3.5	3.4
Gainesville .....	99.5	102.6	105.6	3.0	3.2	4.1	3.0	3.1	3.9
Jacksonville .....	417.0	431.3	442.4	21.2	21.7	22.2	5.1	5.0	5.0
Lakeland-Winter Haven .....	170.2	176.6	180.1	16.2	13.6	13.4	9.5	7.8	7.5
Melbourne-Titusville-Palm Bay .....	169.9	168.2	171.8	9.4	9.9	9.0	5.5	5.9	5.3
Miami-Hialeah .....	888.5	897.7	909.0	56.9	52.0	51.5	6.4	5.8	5.7
Orlando .....	517.9	553.2	566.1	21.8	24.5	25.4	4.2	4.4	4.5
Pensacola .....	145.0	146.4	149.6	8.6	8.8	9.0	6.0	6.0	6.0
Sarasota .....	107.5	113.3	114.4	4.0	4.0	3.9	3.7	3.5	3.4
Tallahassee .....	115.5	121.8	125.1	3.9	4.5	4.9	3.4	3.7	3.9
Tampa-St. Petersburg-Clearwater .....	911.8	945.7	961.1	44.3	47.0	44.9	4.9	5.0	4.7
West Palm Beach-Boca Raton-Delray Beach .....	364.6	389.9	394.8	19.6	20.1	20.2	5.4	5.1	5.1

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 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Georgia</b> .....	3,004.7	3,082.5	3,088.7	172.0	181.2	149.9	5.7	5.2	4.9
Albany .....	56.6	56.5	56.6	6.4	5.2	5.2	11.3	9.2	9.2
Athens .....	72.1	74.0	74.5	3.3	2.9	2.6	4.6	3.9	3.5
Atlanta .....	1,392.8	1,463.5	1,470.9	61.2	63.5	60.1	4.4	4.3	4.1
Augusta .....	173.2	176.1	175.8	10.1	10.7	10.0	5.8	6.1	5.7
Columbus .....	98.9	99.7	99.3	7.4	6.6	5.9	7.5	6.7	5.9
Macon-Warner Robins .....	128.0	128.8	129.0	7.4	6.3	5.9	5.8	4.9	4.6
Savannah .....	107.7	110.4	110.3	6.8	6.4	5.7	6.3	5.8	5.2
<b>Hawaii</b> .....	488.5	500.8	505.3	24.0	19.9	20.5	4.9	4.0	4.1
Honolulu .....	367.0	376.3	378.9	18.1	13.4	13.5	4.4	3.6	3.6
<b>Idaho</b> .....	468.4	460.4	468.4	40.9	43.5	36.0	8.7	9.4	7.7
Boise City .....	100.4	102.5	103.3	5.8	6.7	5.7	5.8	6.5	5.5
<b>Illinois</b> <sup>1</sup> .....	5,695.8	5,612.3	5,686.7	467.8	462.1	466.0	8.2	8.2	8.2
Aurora-Elgin .....	168.7	170.3	172.7	11.7	10.7	10.5	6.9	6.3	6.1
Bloomington-Normal .....	63.1	63.3	63.9	3.8	3.2	3.5	6.1	5.1	5.4
Champaign-Urbana-Rantoul .....	86.9	86.5	87.0	3.9	4.3	4.3	4.5	5.0	4.9
Chicago .....	3,108.7	3,069.6	3,102.0	237.2	226.3	234.2	7.6	7.4	7.5
Davenport-Rock Island-Moline .....	182.8	179.9	180.1	16.7	13.7	13.1	9.2	7.6	7.3
Decatur .....	59.8	58.1	58.1	6.7	6.7	6.3	11.2	11.5	10.8
Joliet .....	190.8	185.8	186.5	14.0	15.6	15.5	7.3	8.4	8.2
Kankakee .....	44.7	43.9	44.5	4.8	4.5	4.5	10.8	10.2	10.1
Lake County .....	254.5	248.5	254.6	13.1	12.3	12.5	5.2	4.9	4.9
Peoria .....	154.1	151.1	152.3	14.1	14.0	13.9	9.1	9.3	9.1
Rockford .....	145.7	145.6	147.0	12.8	16.7	17.3	8.8	11.5	11.8
Springfield .....	104.2	102.5	103.6	5.7	5.9	5.9	5.5	5.8	5.7
<b>Indiana</b> .....	2,739.3	2,727.9	2,759.2	171.3	168.2	167.9	6.3	6.2	6.1
Anderson .....	61.1	59.0	59.4	3.6	3.6	3.8	5.9	6.2	6.4
Bloomington .....	56.4	60.6	58.8	2.2	3.5	2.6	4.0	5.8	4.4
Elkhart-Goshen .....	89.6	90.8	94.1	3.8	3.4	5.4	4.2	3.7	5.7
Evansville .....	143.0	141.8	142.9	9.2	10.3	10.7	6.4	7.3	7.5
Fort Wayne .....	188.7	189.4	192.0	9.3	9.6	9.6	5.0	5.1	5.0
Gary-Hammond .....	254.9	251.8	251.8	25.6	25.3	23.0	10.0	10.0	9.1
Indianapolis .....	645.8	646.5	657.9	32.1	29.9	31.8	5.0	4.6	4.8
Kokomo .....	50.3	48.6	49.1	5.1	4.1	4.0	10.0	8.4	8.1
Lafayette .....	62.5	64.9	62.9	2.6	2.1	2.2	4.2	3.2	3.5
Muncie .....	60.3	59.5	59.9	3.8	3.9	3.9	6.4	6.5	6.5
South Bend-Mishawaka .....	126.1	124.9	126.6	7.6	5.9	6.4	6.0	4.8	5.1
Terre Haute .....	59.5	58.9	58.0	3.9	3.8	3.6	6.5	6.4	6.2
<b>Iowa</b> .....	1,458.4	1,453.7	1,468.3	95.8	88.3	58.6	6.6	4.7	4.0
Cedar Rapids .....	89.5	89.7	89.5	5.4	4.2	3.6	6.1	4.7	4.0
Des Moines .....	213.8	218.6	220.0	11.9	8.2	7.4	5.6	3.8	3.4
Dubuque .....	43.6	44.0	44.0	3.1	2.1	1.8	7.1	4.7	4.1
Iowa City .....	58.0	58.1	58.5	1.5	1.0	.8	2.6	1.7	1.4
Sioux City .....	58.5	61.4	61.3	4.5	3.4	2.9	7.8	5.5	4.8
Waterloo-Cedar Falls .....	70.2	69.4	69.3	8.0	5.1	4.4	11.4	7.4	6.4
<b>Kansas</b> .....	1,234.8	1,253.8	1,264.6	67.9	56.1	55.1	5.5	4.5	4.4
Lawrence .....	37.8	39.7	39.4	1.5	1.3	1.2	3.9	3.3	3.1
Topeka .....	86.3	89.1	88.8	4.5	3.5	3.4	5.2	4.0	3.8
Wichita LMA .....	223.4	231.9	233.8	13.3	11.0	10.6	5.9	4.8	4.5
<b>Kentucky</b> .....	1,685.0	1,676.0	1,683.9	152.1	161.1	151.5	9.0	9.6	9.0
Lexington-Fayette .....	179.4	178.6	179.6	9.1	10.2	9.9	5.1	5.7	5.5
Louisville .....	490.6	487.6	491.7	34.3	36.6	35.7	7.0	7.5	7.3
Owensboro .....	45.4	43.8	43.7	4.9	5.4	5.0	10.7	12.3	11.4
<b>Louisiana</b> .....	2,010.3	1,928.1	1,932.0	261.1	233.4	216.3	13.0	12.1	11.2
Alexandria .....	60.7	60.5	60.8	6.3	6.0	5.7	10.3	9.9	9.3
Baton Rouge .....	266.1	260.2	260.3	28.4	25.0	23.7	10.7	9.6	9.1
Houma-Thibodaux .....	78.6	73.2	73.3	13.4	12.8	11.4	17.1	17.5	15.5
Lafayette .....	109.5	100.5	100.1	15.4	13.3	12.3	14.1	13.2	12.3
Lake Charles .....	78.8	74.1	74.8	11.2	9.5	9.2	14.6	12.8	12.3
Monroe .....	70.6	68.3	68.6	6.9	6.8	6.4	9.8	10.0	9.3
New Orleans .....	614.4	588.5	590.1	65.9	59.3	55.5	10.7	10.1	9.4
Shreveport .....	171.1	162.9	163.5	19.8	18.1	16.8	11.8	11.1	10.1
<b>Maine</b> .....	559.6	554.3	566.3	29.4	29.4	22.6	5.3	5.3	4.0
Lewiston-Auburn .....	40.4	40.0	40.4	2.5	2.4	1.9	6.2	6.1	4.8
Portland .....	115.9	116.2	118.2	2.9	3.0	2.6	2.5	2.6	2.2

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Maryland</b> .....	2,382.3	2,416.9	2,427.1	101.9	100.6	94.6	4.3	4.2	3.9
Baltimore .....	1,155.8	1,169.3	1,172.4	57.8	53.0	50.8	5.0	4.5	4.3
<b>Massachusetts</b> <sup>1</sup> .....	3,026.8	3,048.3	3,052.8	120.9	116.0	102.9	4.0	3.9	3.4
Boston .....	1,502.9	1,518.3	1,517.0	52.5	49.6	44.1	3.5	3.3	2.9
Brockton .....	94.5	95.8	95.6	4.4	4.2	3.7	4.7	4.4	3.9
Fall River .....	75.6	76.7	76.0	5.3	5.5	4.2	7.0	7.1	5.8
Fitchburg-Leominster .....	46.0	45.2	45.1	2.2	2.5	2.2	4.8	5.4	4.8
Lawrence-Haverhill .....	182.3	181.8	181.9	8.7	8.8	8.6	4.8	4.8	4.7
Lowell .....	148.0	147.2	146.6	8.1	5.9	5.3	4.1	4.0	3.6
New Bedford .....	82.9	83.0	82.5	5.1	5.3	4.5	6.1	6.4	5.4
Pittsfield .....	39.7	41.0	40.9	1.7	1.8	1.5	4.4	4.4	3.6
Springfield .....	245.2	248.3	249.4	10.5	9.5	8.2	4.3	3.8	3.3
Worcester .....	205.4	209.7	209.6	7.6	7.2	6.4	3.7	3.5	3.1
<b>Michigan</b> <sup>1</sup> .....	4,409.1	4,450.2	4,518.2	416.6	378.6	368.5	9.4	8.5	8.2
Ann Arbor .....	148.9	156.1	154.7	8.1	7.8	6.8	5.4	4.8	4.4
Battle Creek .....	61.8	61.4	62.6	6.1	4.7	4.8	9.8	7.7	7.6
Benton Harbor .....	76.2	75.8	77.1	7.1	6.2	5.9	9.4	8.2	7.6
Detroit .....	2,128.0	2,179.1	2,214.2	188.9	178.1	178.8	8.9	8.2	8.1
Flint .....	201.7	197.8	202.2	21.4	19.5	25.3	10.6	9.8	12.5
Grand Rapids .....	333.5	331.8	338.5	26.4	21.8	20.7	7.9	6.6	6.1
Jackson .....	61.9	61.8	62.3	6.1	5.2	4.9	9.9	8.5	7.9
Kalamazoo .....	109.6	113.0	112.4	7.3	5.9	5.7	6.7	5.2	5.1
Lansing-East Lansing .....	232.0	233.7	237.7	17.7	15.1	15.8	7.6	6.5	6.6
Muskegon .....	67.8	67.3	68.1	7.5	7.9	7.0	11.1	11.7	10.3
Saginaw-Bay City-Midland .....	183.4	183.7	186.0	19.9	18.8	17.2	10.9	10.2	9.3
<b>Minnesota</b> .....	2,223.8	2,235.0	2,258.8	109.7	108.6	100.4	4.9	4.9	4.4
Duluth .....	102.0	101.8	101.5	8.3	10.4	8.7	8.1	10.2	8.5
Minneapolis-St. Paul .....	1,305.1	1,326.1	1,333.9	52.6	49.2	48.4	4.0	3.7	3.6
Rochester .....	55.6	57.2	57.5	2.0	2.0	1.9	3.6	3.5	3.3
St. Cloud .....	88.9	91.9	93.0	4.6	5.0	4.7	5.2	5.5	5.1
<b>Mississippi</b> .....	1,176.4	1,147.5	1,156.9	137.6	106.9	102.9	11.7	9.3	8.9
Jackson .....	196.1	196.5	197.6	15.1	13.3	12.7	7.7	6.8	6.4
<b>Missouri</b> .....	2,537.4	2,582.0	2,596.9	142.6	157.2	149.0	5.6	6.1	5.7
Kansas City .....	793.3	816.6	816.9	35.6	38.8	41.5	4.5	4.8	5.1
St. Joseph .....	41.8	41.4	41.0	3.0	3.2	2.7	7.2	7.7	6.7
St. Louis .....	1,234.3	1,251.6	1,256.8	81.3	92.7	88.5	6.6	7.4	7.0
Springfield .....	116.1	120.2	120.1	5.2	5.4	5.0	4.5	4.5	4.2
<b>Montana</b> .....	412.6	406.3	404.9	32.3	29.4	23.8	7.8	7.2	5.9
<b>Nebraska</b> .....	816.6	814.4	821.6	37.3	38.2	35.9	4.6	4.7	4.4
Lincoln .....	119.4	118.4	119.2	3.4	3.6	3.6	2.8	3.0	3.0
Omaha .....	312.9	315.1	316.1	15.4	15.8	14.8	4.9	5.0	4.7
<b>Nevada</b> .....	538.4	582.3	564.9	29.2	33.1	31.9	5.4	5.9	5.7
Las Vegas .....	309.6	326.3	329.2	17.6	19.4	19.2	5.7	5.9	5.8
Reno .....	135.3	138.8	139.8	6.2	7.5	7.1	4.6	5.4	5.1
<b>New Hampshire</b> .....	559.9	572.8	583.4	13.8	13.4	13.8	2.5	2.3	2.4
Nashua .....	90.9	94.4	95.2	2.5	2.1	2.3	2.7	2.2	2.4
Portsmouth-Dover-Rochester .....	124.1	126.7	129.6	2.6	2.7	2.6	2.1	2.2	2.0
<b>New Jersey</b> <sup>1</sup> .....	3,917.9	3,933.9	4,029.3	205.9	149.1	167.2	5.3	3.8	4.2
Atlantic City .....	173.2	171.9	182.2	12.0	9.3	9.6	6.9	5.4	5.3
Bergen-Passaic .....	710.1	710.9	724.2	34.6	24.2	26.8	4.9	3.4	3.7
Jersey City .....	268.8	270.6	275.1	23.8	17.2	18.9	8.8	6.4	6.9
Middlesex-Somerset-Hunterdon .....	535.5	541.1	552.3	21.2	14.2	17.0	4.0	2.6	3.1
Monmouth-Ocean .....	455.4	457.8	474.0	18.7	13.7	15.6	4.1	3.0	3.3
Newark .....	970.0	984.9	987.2	55.0	37.7	43.4	5.7	3.9	4.4
Trenton .....	169.2	171.7	175.6	7.3	5.4	6.0	4.3	3.1	3.4
Vineland-Millville-Bridgeton .....	57.5	57.0	58.7	5.4	4.2	4.3	9.4	7.4	7.3
<b>New Mexico</b> .....	671.1	678.0	679.1	60.4	60.4	57.4	9.0	8.9	8.4
Albuquerque .....	251.6	261.0	258.5	15.2	16.2	15.1	6.0	6.2	5.8
Las Cruces .....	56.2	54.9	57.3	4.1	3.8	4.0	7.4	6.9	7.0
Santa Fe .....	83.7	64.8	65.8	3.1	3.8	3.7	4.9	5.8	5.6

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,258.7	8,336.7	8,318.0	568.3	402.8	381.0	6.9	4.8	4.6
Albany-Schenectady-Troy .....	404.9	408.9	409.6	23.3	17.4	15.2	5.8	4.3	3.7
Binghamton .....	123.9	124.0	124.3	8.6	5.8	5.0	6.9	4.7	4.0
Buffalo .....	431.7	433.2	435.7	34.5	25.1	22.9	8.0	5.8	5.3
Elmira .....	38.7	39.7	40.2	2.9	1.9	1.6	7.4	4.8	4.1
Glens Falls .....	50.5	50.2	51.5	3.6	3.0	2.2	7.1	6.1	4.3
Nassau-Suffolk .....	1,375.4	1,399.5	1,405.5	67.1	47.0	44.4	4.9	3.4	3.2
New York .....	3,822.6	3,860.9	3,823.0	280.2	187.6	189.9	7.3	4.9	5.0
New York City <sup>1</sup> .....	3,169.0	3,199.0	3,161.0	252.0	166.0	170.0	7.9	5.2	5.4
Orange County .....	123.1	125.7	126.1	6.7	5.2	4.6	5.4	4.1	3.6
Poughkeepsie .....	123.3	124.8	124.9	5.3	3.6	3.5	4.3	2.9	2.8
Rochester .....	483.3	485.5	486.1	30.7	23.0	20.9	6.3	4.7	4.3
Syracuse .....	311.3	313.8	312.6	26.7	20.1	18.9	8.6	6.4	6.1
Utica-Rome .....	132.3	132.1	132.7	9.8	7.9	6.8	7.4	6.0	5.1
<b>North Carolina<sup>1</sup></b> .....	3,156.0	3,225.5	3,250.4	171.5	140.0	135.9	5.4	4.3	4.2
Asheville .....	84.5	85.1	86.2	5.1	3.8	3.6	6.0	4.4	4.1
Charlotte-Gastonia-Rock Hill .....	590.1	609.6	614.3	28.4	22.0	22.6	4.8	3.6	3.7
Greensboro-Winston-Salem-High Point .....	494.1	506.3	509.1	23.9	17.9	18.4	4.8	3.5	3.6
Raleigh-Durham .....	373.4	393.0	390.6	12.9	10.8	11.3	3.5	2.7	2.9
<b>North Dakota</b> .....	341.3	332.5	339.7	20.5	17.4	13.6	6.0	5.2	4.0
Bismarck .....	45.2	44.4	45.1	3.1	2.2	1.7	6.8	5.0	3.8
Fargo-Moorhead .....	82.7	84.4	85.1	3.4	2.9	2.3	4.1	3.4	2.8
Grand Forks .....	35.2	36.0	36.3	1.2	1.3	1.0	3.4	3.5	2.9
<b>Ohio<sup>1</sup></b> .....	5,187.2	5,204.5	5,263.7	389.4	367.4	371.5	7.5	7.1	7.1
Akron .....	317.3	316.9	320.9	23.6	23.5	23.4	7.4	7.4	7.3
Canton .....	188.2	187.3	189.3	18.0	16.7	16.7	9.6	8.9	8.8
Cincinnati .....	721.6	732.2	740.5	48.3	40.7	41.5	6.7	5.6	5.6
Cleveland .....	919.8	923.1	931.2	62.4	58.0	56.0	6.8	6.3	6.2
Columbus .....	667.4	682.2	691.5	37.7	36.5	39.0	5.6	5.4	5.8
Dayton-Springfield .....	455.4	462.4	466.1	26.6	26.0	26.7	5.8	5.6	5.7
Toledo .....	306.0	310.9	314.6	25.9	23.0	22.9	8.4	7.4	7.3
Youngstown-Warren .....	221.9	221.0	225.4	20.6	19.3	21.6	9.3	8.7	9.6
<b>Oklahoma</b> .....	1,614.0	1,563.5	1,574.3	135.0	122.6	116.4	8.4	7.8	7.4
Enid .....	31.8	29.6	29.8	2.7	2.4	2.1	8.6	8.0	7.1
Lawton .....	48.9	47.8	48.1	2.4	2.5	2.3	4.9	5.2	4.7
Oklahoma City .....	522.6	501.2	505.0	34.3	31.9	30.0	6.6	6.4	5.9
Tulsa .....	359.7	356.0	357.3	31.0	30.0	28.5	8.6	8.4	8.0
<b>Oregon</b> .....	1,346.3	1,349.9	1,350.2	113.6	81.8	74.2	8.4	6.1	5.5
Eugene-Springfield .....	133.5	134.2	134.5	11.4	7.2	6.7	8.6	5.4	5.0
Portland .....	608.7	617.4	617.5	43.0	31.1	29.5	7.1	5.0	4.8
Salem .....	122.7	123.1	122.8	11.2	8.0	7.3	9.1	6.5	5.9
<b>Pennsylvania<sup>1</sup></b> .....	5,666.8	5,458.6	5,589.4	435.5	294.7	300.4	7.7	5.4	5.4
Allentown-Bethlehem .....	324.6	304.2	311.7	29.5	13.4	13.7	9.1	4.4	4.4
Altoona .....	59.0	56.0	57.7	6.1	3.9	4.1	10.3	6.9	7.1
Beaver County .....	65.5	60.0	61.6	9.1	5.8	5.8	13.9	9.4	9.3
Erie .....	129.6	122.8	126.8	12.3	8.9	9.7	9.5	7.3	7.7
Harrisburg-Lebanon-Carlisle .....	303.3	298.5	307.4	16.7	9.1	9.5	5.5	3.0	3.1
Johnstown .....	95.7	90.5	93.5	11.1	7.2	7.3	11.6	8.0	7.8
Lancaster .....	208.7	204.8	211.0	8.2	4.4	5.0	3.9	2.2	2.4
Philadelphia .....	2,371.8	2,339.0	2,390.8	140.8	98.3	107.6	5.9	4.2	4.5
Pittsburgh .....	957.1	921.1	941.0	81.2	62.5	61.9	8.5	6.8	6.6
Reading .....	171.4	164.4	168.9	14.3	7.6	8.3	8.3	4.6	4.9
Scranton-Wilkes-Barre .....	346.7	332.0	336.7	31.6	22.8	21.1	9.1	6.9	6.3
Sharon .....	50.1	48.2	49.3	4.3	3.2	3.3	8.5	6.7	6.6
State College .....	57.7	57.4	58.5	3.7	2.5	2.8	6.5	4.4	4.8
Williamsport .....	56.6	54.3	56.2	4.3	2.9	2.8	7.7	5.3	4.9
York .....	207.9	201.8	206.4	12.5	8.0	8.6	6.0	4.0	4.2
<b>Rhode Island</b> .....	512.9	512.3	518.8	20.0	21.9	19.9	3.9	4.3	3.8
Pawtucket-Woonsocket-Attleboro .....	185.8	185.9	167.3	7.7	8.4	7.5	4.7	5.1	4.5
Providence .....	333.1	333.9	337.3	12.8	13.6	12.5	3.8	4.1	3.7
<b>South Carolina</b> .....	1,813.1	1,815.8	1,631.0	97.2	96.8	96.8	6.0	6.0	5.9
Charleston .....	217.8	222.5	223.8	9.7	10.7	10.5	4.5	4.8	4.7
Columbia .....	221.8	223.1	225.6	7.8	9.2	9.3	3.5	4.1	4.1
Greenville-Spartanburg .....	318.5	322.6	325.4	16.8	16.4	16.4	5.3	5.1	5.0
<b>South Dakota</b> .....	349.7	351.1	357.7	14.5	12.9	12.5	4.1	3.7	3.5
Rapid City .....	38.0	38.0	39.0	1.5	1.4	1.4	4.0	3.8	3.5
Sioux Falls .....	68.2	69.4	70.5	2.4	1.9	2.3	3.5	2.7	3.2

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	May 1988	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>	May 1986	Apr. 1987	May 1987 <sup>P</sup>
<b>Tennessee</b> .....	2,288.4	2,323.2	2,324.9	175.2	159.4	146.7	7.7	6.9	6.3
Chattanooga .....	200.6	203.0	202.4	13.5	11.7	11.2	6.7	5.8	5.5
Johnson City-Kingsport-Bristol .....	208.2	211.7	211.9	15.5	14.8	14.6	7.5	7.0	8.9
Knoxville .....	273.1	277.1	275.6	20.4	19.8	18.4	7.5	7.1	8.0
Memphis LMA .....	429.6	437.8	438.5	28.0	24.7	24.7	6.5	5.7	5.6
Nashville .....	500.6	508.2	508.7	23.2	21.8	20.5	4.6	4.3	4.0
<b>Texas<sup>1</sup></b> .....	8,075.8	8,207.9	8,458.5	754.5	680.3	728.0	9.3	8.3	8.6
Abilene .....	55.0	55.5	57.2	5.2	4.6	5.0	9.5	8.2	8.7
Amarillo .....	97.8	98.9	102.6	6.8	6.0	6.5	7.0	6.0	6.4
Austin .....	416.7	435.3	448.1	24.0	26.1	29.4	5.8	6.0	6.6
Beaumont-Port Arthur .....	163.5	161.0	166.2	26.4	20.6	22.1	16.1	12.8	13.3
Brazoria .....	81.1	80.6	83.5	9.6	7.5	8.0	11.8	9.3	9.6
Brownsville-Harlingen .....	93.7	94.7	98.3	15.1	13.2	14.1	16.1	13.9	14.3
Bryan-College Station .....	57.7	57.7	59.7	3.9	3.3	3.6	6.7	5.7	6.0
Corpus Christi .....	165.4	167.0	171.1	22.1	19.2	20.7	13.3	11.5	12.1
Dallas .....	1,385.7	1,421.4	1,456.2	80.7	88.1	92.6	5.8	6.2	6.4
El Paso .....	220.4	228.3	237.7	26.4	23.5	25.8	12.0	10.3	10.9
Fort Worth-Arlington .....	639.9	671.6	686.3	44.4	46.1	47.3	6.9	6.9	6.9
Galveston-Texas City .....	107.6	106.5	111.3	13.1	10.7	12.1	12.2	10.0	10.9
Houston .....	1,601.0	1,586.6	1,638.3	175.7	143.3	155.5	11.0	9.0	9.5
Killeen-Temple .....	87.0	90.4	94.2	6.7	6.7	7.4	7.7	7.4	7.8
Laredo .....	43.3	45.5	46.5	7.1	7.2	7.2	16.4	15.8	15.4
Longview-Marshall .....	80.3	78.8	80.8	11.2	8.3	8.8	13.9	10.5	10.9
Lubbock .....	109.1	110.9	114.1	7.9	6.6	7.3	7.2	6.0	6.4
McAllen-Edinburg-Mission .....	141.0	143.7	148.3	24.3	23.9	24.0	17.2	16.6	16.2
Midland .....	52.7	50.8	52.3	6.1	4.8	5.1	11.6	9.4	9.7
Odessa .....	60.0	56.9	58.3	9.8	6.9	7.1	16.3	12.2	12.1
San Angelo .....	45.4	45.7	47.3	3.6	2.8	3.1	7.9	6.2	6.6
San Antonio .....	570.2	595.1	616.2	42.2	44.7	49.4	7.4	7.5	8.0
Sherman-Denison .....	47.4	49.2	50.8	3.4	3.6	4.1	7.3	7.4	8.1
Texarkana .....	56.4	56.5	57.5	5.7	4.8	4.7	10.1	8.5	8.2
Tyler .....	74.5	75.7	78.0	6.6	6.5	7.1	8.8	8.6	9.1
Victoria .....	38.1	38.0	39.3	4.4	3.3	3.8	11.6	8.7	9.3
Waco .....	89.7	92.5	95.4	7.6	7.0	7.6	8.5	7.6	8.0
Wichita Falls .....	56.3	57.3	59.3	5.0	4.3	4.8	9.0	7.6	8.1
<b>Utah</b> .....	752.2	758.0	758.5	43.3	50.6	49.7	5.8	6.7	6.6
Provo-Orem .....	95.4	98.8	95.7	5.3	7.4	7.1	5.6	7.5	7.4
Salt Lake City-Ogden .....	496.4	502.5	503.6	25.8	29.5	29.5	5.2	5.9	5.9
<b>Vermont</b> .....	290.8	290.7	288.8	14.3	12.9	10.0	4.9	4.4	3.5
Burlington .....	72.2	73.4	74.4	2.3	2.0	2.0	3.2	2.7	2.6
<b>Virginia</b> .....	2,883.4	2,927.7	2,970.2	141.6	138.8	138.0	4.9	4.7	4.6
Charlottesville .....	63.9	64.8	65.8	2.7	2.4	2.2	4.3	3.6	3.3
Danville .....	50.3	50.0	50.1	4.6	4.0	3.4	9.1	8.0	6.8
Lynchburg .....	69.6	89.9	71.0	4.9	3.6	4.0	7.1	5.1	5.6
Norfolk-Virginia Beach-Newport News .....	569.3	583.2	593.0	26.5	29.0	29.2	4.6	5.0	4.9
Richmond-Petersburg .....	409.6	419.6	425.3	18.1	16.8	18.0	4.4	4.0	4.2
Roanoke .....	116.6	118.7	121.0	5.2	4.8	4.9	4.4	4.1	4.1
<b>Washington</b> .....	2,183.1	2,185.2	2,205.4	173.2	183.7	170.5	7.9	8.4	7.7
Seattle .....	951.6	973.1	976.2	61.7	64.3	60.4	6.5	6.6	6.2
<b>West Virginia</b> .....	756.5	741.9	742.2	84.1	73.9	67.3	11.1	10.0	9.1
Charleston .....	118.5	117.6	117.4	10.7	9.7	9.0	9.0	8.2	7.6
Huntington-Ashland .....	127.8	127.0	125.8	13.6	14.1	12.5	10.7	11.1	9.9
Parkersburg-Marietta .....	72.4	72.5	72.5	7.3	6.2	5.8	10.0	8.5	8.0
Wheeling .....	73.4	71.0	70.8	8.2	6.8	6.2	11.2	9.5	8.7
<b>Wisconsin</b> .....	2,404.6	2,451.8	2,478.6	162.3	149.7	133.7	6.8	6.1	5.4
Appleton-Oshkosh-Neenah .....	158.4	161.7	164.4	10.3	10.0	9.0	6.5	6.2	5.5
Eau Claire .....	67.6	72.3	72.8	4.1	4.2	3.7	6.1	5.8	5.0
Green Bay .....	99.8	102.2	103.3	5.6	6.0	5.6	5.6	5.9	5.4
Janesville-Beloit .....	69.5	70.2	70.7	5.6	5.6	5.1	8.0	8.0	7.2
Kenosha .....	52.5	53.1	54.1	6.5	3.7	3.4	12.4	7.0	6.4
La Crosse .....	49.8	52.5	52.7	2.8	2.5	2.4	5.7	4.7	4.5
Madison .....	204.1	211.1	213.0	8.7	7.7	7.2	4.2	3.6	3.4
Milwaukee .....	709.6	727.7	730.8	44.3	38.2	35.5	6.2	5.3	4.9
Racine .....	84.1	85.4	85.3	6.8	6.0	5.2	8.0	7.1	6.1
Sheboygan .....	51.9	53.2	53.9	3.2	2.6	2.6	8.2	4.9	4.9
Wausau .....	57.2	59.5	60.1	4.0	4.0	3.5	7.0	6.8	5.9
<b>Wyoming</b> .....	252.0	241.6	241.3	21.0	21.9	19.0	8.3	9.1	7.9

<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 1986 have been

benchmarked to 1988 Current Population Survey annual averages. Except in the 11 States and 2 areas designated by footnote 1, estimates for 1987 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

# Explanatory Notes

## Introduction

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

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 59,500 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 290,000 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 14 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 59,500 occupied units are eligible for interview. About 2,500 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 59,500 occupied units, there are 11,000 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 sometime 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-

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. The reliability of national estimates is unaffected. 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.)

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 . . .	21,000	68	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956 . . .	21,000	230	500-1,000	3,000-3,500
May 1956 to Dec. 1959 . . .	33,500	1330	1,500	6,000
Jan. 1960 to Feb. 1963 . . .	33,500	2333	1,500	6,000
Mar. 1963 to Dec. 1966 . . .	33,500	357	1,500	6,000
Jan. 1967 to July 1971 . . .	48,000	449	2,000	8,500
Aug. 1971 to July 1972 . . .	45,000	449	2,000	8,000
Aug. 1972 to Dec. 1977 . . .	45,000	461	2,000	8,000
Jan. 1978 to Dec. 1979 . . .	53,500	614	2,500	10,000
Jan. 1980 to Apr. 1981 . . .	62,200	629	2,800	12,000
May 1981 to Dec. 1984 . . .	57,800	629	2,500	11,000
Jan. 1985 to present . . .	57,000	729	2,500	11,000

<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 from the April 1, 1980, census through the latest available July 1 estimate, 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 640 of that series. A description of the age estimates methodology is available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

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 . . . . .	244	187
Employed . . . . .	263	200
Unemployed . . . . .	131	134
Men, 20 years and over:		
Civilian labor force . . . . .	148	127
Employed . . . . .	162	141
Unemployed . . . . .	89	91
Women, 20 years and over:		
Civilian labor force . . . . .	189	140
Employed . . . . .	190	144
Unemployed . . . . .	82	85
Both sexes, 16 to 19 years:		
Civilian labor force . . . . .	83	91
Employed . . . . .	86	97
Unemployed . . . . .	57	63
Black, 16 years and over:		
Civilian labor force . . . . .	82	63
Employed . . . . .	92	70
Unemployed . . . . .	65	67
Men, 20 years and over:		
Civilian labor force . . . . .	49	43
Employed . . . . .	56	50
Unemployed . . . . .	43	46
Women, 20 years and over:		
Civilian labor force . . . . .	67	44
Employed . . . . .	67	48
Unemployed . . . . .	43	46
Both sexes, 16 to 19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	34
Unemployed . . . . .	30	32

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 159,000. The 68-percent confidence interval as shown by these data is from 11,841,000 to 12,159,000. 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 118,000.

*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 . . . . .	.17	.18			
Both sexes, 16 to 19 years . . . . .	.65	.77			
White workers . . . . .	.11	.12			
Black workers . . . . .	.52	.54			
Married men, spouse present . . . . .	.15	.16			
Married women, spouse present . . . . .	.21	.23			
Full-time workers . . . . .	.12	.12			
Part-time workers . . . . .	.34	.42			
Unemployed 15 weeks and over . . . . .	.06	.08			
			<b>Occupation—Continued</b>		
			Precision production, craft, and repair . . . . .	0.32	0.35
			Machine operators, assemblers, and inspectors . . . . .	.50	.57
			Transportation and material moving . . . . .	.57	.64
			Handlers, equipment cleaners, helpers, and laborers . . . . .	.70	.80
			Farming, forestry, and fishing . . . . .	.65	.73
			<b>Industry</b>		
			Nonagricultural private wage and salary workers . . . . .	.13	.14
			Mining . . . . .	1.37	1.56
			Construction . . . . .	.65	.74
			Manufacturing . . . . .	.27	.30
			Durable goods . . . . .	.34	.38
			Nondurable goods . . . . .	.42	.48
			Transportation, communications, and public utilities . . . . .	.41	.46
			Wholesale and retail trade . . . . .	.26	.29
			Finance and services . . . . .	.20	.22
			Government workers . . . . .	.18	.19
			Agricultural wage and salary workers . . . . .	1.22	1.40
<b>Occupation</b>					
Executive, administrative, and managerial . . . . .	.21	.24			
Professional specialty . . . . .	.18	.20			
Technicians and related support . . . . .	.49	.55			
Sales . . . . .	.29	.32			
Administrative support, including clerical . . . . .	.24	.26			
Private household . . . . .	1.07	1.20			
Protective service . . . . .	.67	.76			
Service, except private household and protective . . . . .	.38	.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 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. The standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 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 3.6 percent is then approximately  $0.09 \times 1.26 = 0.1$  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 6.9 percent, based on a total of 95,676,000 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 . . . . .	14	10	11	11	11	11	11	10	10
100 . . . . .	19	15	16	15	15	15	15	14	14
500 . . . . .	43	33	35	34	34	33	29	32	31
1,000 . . . . .	61	47	49	48	47	46	33	45	42
2,000 . . . . .	85	66	67	68	64	63	--	63	55
4,000 . . . . .	120	93	88	95	84	80	--	87	66
6,000 . . . . .	146	113	99	116	94	86	--	105	58
8,000 . . . . .	--	129	--	133	97	83	--	120	23
10,000 . . . . .	--	143	--	147	94	70	--	132	--
15,000 . . . . .	--	172	--	177	50	--	--	155	--
20,000 . . . . .	--	195	--	201	--	--	--	170	--
30,000 . . . . .	--	--	--	236	--	--	--	188	--
40,000 . . . . .	--	--	--	261	--	--	--	189	--
50,000 . . . . .	--	--	--	278	--	--	--	175	--
60,000 . . . . .	--	--	--	288	--	--	--	141	--
70,000 . . . . .	--	--	--	293	--	--	--	61	--
80,000 . . . . .	--	--	--	293	--	--	--	--	--
100,000 . . . . .	--	--	--	273	--	--	--	--	--
120,000 . . . . .	--	--	--	231	--	--	--	--	--

<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 . . . . .	12	13	12	12	8	8	13	13
100 . . . . .	16	18	17	18	11	11	18	18
500 . . . . .	37	40	38	35	25	25	39	34
1,000 . . . . .	51	54	52	37	36	35	54	36
2,000 . . . . .	72	70	69		50	47	72	
4,000 . . . . .	99	78	85		70	62	88	
6,000 . . . . .	118	60	87		86	70	88	
8,000 . . . . .	132	-			98	73	71	
10,000 . . . . .	143				109	71		
15,000 . . . . .	160				131	42		
20,000 . . . . .	165				148			
30,000 . . . . .					174			
40,000 . . . . .					191			
50,000 . . . . .					203			
60,000 . . . . .					210			
70,000 . . . . .					212			
80,000 . . . . .					211			
100,000 . . . . .					193			
120,000 . . . . .					153			

<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 6.1 percent, based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table F (0.12 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  $0.12 \times 1.40 \doteq 0.17$  percentage point.

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

Standard error of year-to-year change =

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

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

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

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

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(.30) (216,000) (221,000)}$$

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 . . . . .	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.05	9.87	10.21
100 . . . . .	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 . . . . .	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 . . . . .	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 . . . . .	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 . . . . .	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 . . . . .	.19	.27	.42	.57	.68	.76	.82	.87	.90	.93
10,000 . . . . .	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 . . . . .	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 . . . . .	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.22

**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 . . . . .	2.32	3.28	5.14	7.18	8.69	9.90	10.93	11.81	12.58	14.48
100 . . . . .	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 . . . . .	.73	1.04	1.63	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 . . . . .	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 . . . . .	.37	.52	.81	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 . . . . .	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 . . . . .	.21	.30	.47	.65	.78	.89	.98	1.05	1.11	-
10,000 . . . . .	.16	.23	.36	.50	.60	.68	.75	.80	-	-
20,000 . . . . .	.12	.16	.25	.35	.42	.47	.51	.54	-	-
60,000 . . . . .	.07	.09	.14	.19	.22	.23	.24	-	-	-
100,000 . . . . .	.05	.07	.11	.14	.15	.15	-	-	-	-

**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 . . . . .	2.14	3.01	4.69	6.46	7.68	8.61	9.32	9.86	10.27	10.76
100 . . . . .	1.51	2.13	3.32	4.57	5.43	6.09	6.59	6.97	7.26	7.61
500 . . . . .	.68	.95	1.48	2.04	2.43	2.72	2.95	3.12	3.25	3.40
1,000 . . . . .	.48	.67	1.05	1.44	1.72	1.92	2.08	2.21	2.30	2.41
2,000 . . . . .	.34	.48	.74	1.02	1.22	1.36	1.47	1.56	1.62	1.70
4,000 . . . . .	.24	.34	.52	.72	.86	.96	1.04	1.10	1.15	1.20
6,000 . . . . .	.20	.28	.43	.59	.70	.79	.85	.90	.94	.98
10,000 . . . . .	.15	.21	.33	.46	.54	.61	.66	.70	.73	.76
20,000 . . . . .	.11	.15	.23	.32	.38	.43	.47	.49	.51	.54
40,000 . . . . .	.08	.11	.17	.23	.27	.30	.33	.35	.36	.38
60,000 . . . . .	.06	.09	.14	.19	.22	.25	.27	.28	.30	.31
80,000 . . . . .	.05	.08	.12	.16	.19	.22	.23	.25	.26	.27
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
160,000 . . . . .	.04	.05	.08	.11	.13	.15	.16	.17	.18	.19

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 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		127	-
10,000 .	149	165	102	144	157	155		145	
15,000 .	180	198	-	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		236	201	174		242	
50,000 .	296	301		-	-			-	
75,000 .	331	304							
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 changes in number of employees on nonagricultural payrolls.* These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 185 seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December issue of *Employment and Earnings*.

### 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 differ-

ent 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.* This series is compiled only for aircraft manufactur-

ing, SIC 3721. The same concepts and estimation methods apply to this series as apply to the average hourly earnings series described above; the one difference between the two 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 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 establishment and/or by region, and the stratified production or non-supervisory worker data are used to weight the hours and earnings for aggregation into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

### Benchmark adjustments

Employment estimates are compared periodically with benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1986 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

**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.

from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1986 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

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1986**

Industry	Benchmark	Estimate	Percent difference
Total . . . . .	98,150	98,617	-0.5
Mining . . . . .	832	842	-1.2
Construction . . . . .	4,415	4,441	-.6
Manufacturing . . . . .	18,945	19,148	-1.1
Transportation and public utilities . . . . .	5,200	5,215	-.3
Wholesale trade . . . . .	5,695	5,803	-1.9
Retail trade . . . . .	17,327	17,418	-.5
Finance, insurance, and real estate . . . . .	6,140	6,144	-.1
Services . . . . .	22,650	22,593	.3
Government . . . . .	16,946	17,013	-.4

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

in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS establishment survey program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat 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 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. Approximate size and coverage of BLS employment and payrolls sample, March 1986<sup>1</sup>**

Industry	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total . . . . .	249,800	37,762,000	38
Mining . . . . .	3,700	319,000	38
Construction . . . . .	23,100	840,000	19
Manufacturing . . . . .	51,100	10,018,000	53
Transportation and public utilities . . . . .	11,600	2,380,000	46
Wholesale trade . . . . .	21,900	978,000	17
Retail trade . . . . .	42,900	3,352,000	19
Finance, insurance, and real estate . . . . .	17,700	2,135,000	35
Services . . . . .	53,300	5,362,000	24
Government:			
Federal <sup>2</sup> . . . . .	5,000	2,908,000	100
State . . . . .	4,800	3,194,000	80
Local . . . . .	14,700	6,276,000	62

<sup>1</sup> Since a few establishments do not report payroll and hours information, hours and earnings estimates may be based on a slightly smaller sample than employment estimates.

<sup>2</sup> National estimates of Federal employment by agency 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 62 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 . . . . .	2.7	1.0	1.3
Construction . . . . .	1.2	.2	.5
Manufacturing . . . . .	.7	.1	.2
Durable goods . . . . .	.8	.1	.3
Nondurable goods . . . . .	.7	.1	.2
Transportation and public utilities . . . . .	.4	.7	.6
Wholesale trade . . . . .	.7	.2	.4
Retail trade . . . . .	1.0	.2	.4
Finance, insurance, and real estate . . . . .	.2	.2	.4
Services . . . . .	.2	.4	.6
Government <sup>3</sup> . . . . .	.4	—	—

<sup>1</sup> The average percent revision in employment for the 1982-86 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 at 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 . . . . .	110,800	104,900	Nondurable goods—Continued		
Total private <sup>1</sup> . . . . .	67,400	61,600	Chemicals and allied products . . . . .	2,400	2,300
Goods producing . . . . .	29,300	24,100	Petroleum and coal products . . . . .	1,300	1,300
Mining . . . . .	5,300	5,100	Rubber and misc. plastics products . . . . .	2,100	2,000
Oil and gas extraction . . . . .	4,200	4,100	Leather and leather products . . . . .	2,300	2,200
Construction . . . . .	18,100	14,000	Service-producing industries . . . . .	100,500	98,400
General building contractors . . . . .	6,500	4,900	Transportation and public utilities . . . . .	15,700	13,800
Manufacturing . . . . .	22,800	22,800	Transportation . . . . .	18,200	17,400
Durable goods . . . . .	18,500	17,500	Communication and public utilities . . . . .	6,600	6,200
Lumber and wood products . . . . .	3,100	2,600	Wholesale trade . . . . .	9,000	8,000
Furniture and fixtures . . . . .	2,000	1,800	Durable goods . . . . .	5,800	5,100
Stone, clay, and glass products . . . . .	2,200	2,100	Nondurable goods . . . . .	5,300	4,500
Primary metal industries . . . . .	6,100	5,900	Retail trade . . . . .	37,500	34,600
Blast furnaces and basic steel products . . . . .	4,900	4,600	General merchandise stores . . . . .	20,700	18,700
Fabricated metal products . . . . .	3,300	2,900	Food stores . . . . .	6,400	5,800
Machinery, except electrical . . . . .	7,200	6,400	Automotive dealers and service stations . . . . .	3,200	3,000
Electrical and electronic equipment . . . . .	5,600	6,000	Eating and drinking places . . . . .	17,600	15,200
Transportation equipment . . . . .	9,200	8,800	Finance, insurance, and real estate . . . . .	8,400	7,400
Motor vehicles and equipment . . . . .	8,100	8,600	Finance . . . . .	4,500	3,800
Instruments and related products . . . . .	2,100	2,200	Insurance . . . . .	3,000	2,300
Miscellaneous manufacturing . . . . .	2,000	2,000	Real estate . . . . .	4,800	4,100
Nondurable goods . . . . .	9,900	9,500	Services . . . . .	33,200	30,500
Food and kindred products . . . . .	6,300	6,400	Business services . . . . .	12,200	10,800
Tobacco manufactures . . . . .	1,700	1,600	Health services . . . . .	10,600	10,400
Textile mill products . . . . .	2,200	2,300	Government . . . . .	73,700	68,400
Apparel and other textile products . . . . .	6,300	5,600	Federal . . . . .	17,400	11,300
Paper and allied products . . . . .	1,500	1,300	State . . . . .	24,600	23,000
Printing and publishing . . . . .	2,200	2,100	Local . . . . .	35,200	32,800

NOTE: Data are based on differences from December 1981 through December 1986.

## 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 of determining eligibility of an area for benefits under Federal programs such as the Job Training Partnership Act and the Public Works and Economic Development Act.

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

### ESTIMATING METHODS

The civilian labor force and unemployment estimates in 11 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts,

North Carolina, and Florida; and two areas: Los Angeles—Long Beach metropolitan area and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts, see “Household Data,” above.

Monthly labor force and unemployment estimates in the remaining 39 States, the District of Columbia, and over 2,600 labor market areas are prepared in several stages. The civilian labor force is the sum of the employment and unemployment levels, which are estimated in accordance with the BLS *Manual for Developing Local Area Unemployment Statistics*.

1. *Preliminary estimate—employment*: The total civilian employment estimate is based on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate 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 the several categories of employment on the basis of employment relationships which existed at the time of the 1980 decennial census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates to which are added estimates for employment not covered by unemployment insurance (UI).

2. *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. This is referred to below as the UI-based estimate.

An estimate for those previously employed in covered industries is derived from a count of current employment insurance claimants, plus estimates of claimants whose benefits have been exhausted, those persons disqualified from receiving benefits for nonmonetary reasons (because they quit, were discharged for cause, etc., but would otherwise have been eligible), and persons who either filed claims late or not at all.

The estimate of those previously employed in industries not covered by UI is derived by applying to the employment estimate for each noncovered industry or class of worker subgroup in the State, the ratio of covered unemployment to covered employment weighted by factors reflecting national historical relationships.

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of

the experienced unemployed; (c) the level of the experienced labor force; and (d) the proportion of the working age population that is considered “youth.”

3. *Monthly reconciliation with the CPS*. Each month correction factors for employment and unemployment are applied at the State level to the UI-based estimates obtained above for each of the 39 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 6-month period ending in the current month (e.g., a 6-month moving average). The adjustment is necessary because the State-prepared estimates are not as reliable as the CPS data due to differences in the State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

4. *Substate adjustment for additivity*. Independent estimates of employment and unemployment are prepared for the State (obtained directly from the CPS in the 11 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the sub-State estimates of employment and unemployment add to the independent State totals. In California and New York, which also have sub-State areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures*. Once each year, monthly estimates prepared by the State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 39 States and the District of Columbia for which monthly CPS estimates are not used directly. This adjustment is made because the State-prepared monthly estimates are not as reliable as the CPS annual averages due to the limitations of the 6-month moving average adjustment procedure. Revisions to the inputs used in the UI-based estimates are also made at the time of the annual benchmark.

The State wide benchmarked estimates are produced in three stages. First the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the third-stage estimates are forced into agreement with CPS annual averages. In the 11 States for which CPS estimates are used monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal CPS annual averages.



## 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 regularly in *Employment and Earnings*.

The seasonal adjustment program used for these series is an adaptation of the standard ratio-to-moving-average method. It provides for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the method is given in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Beginning in January 1980, BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing 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. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal adjustment factors are calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a set of 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 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 the 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 methodology 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.

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current year's estimates are based on actual data through March 1987 and projected data through March 1988. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series since June 1981.

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, wholesale trade, retail trade, manufacturing, and durable and nondurable goods industries, 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 are used in the aggregation to broader level seasonally adjusted series, however.

Beginning in June 1983, seasonal adjustment factors for Federal Government employment are derived from unadjust-

ed data which include Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers was substantial, and at times varied greatly from year to year, based on administrative decisions of the Postal Service. Hence, it was considered desirable to exclude this group from the unadjusted data upon which the seasonal adjustment factors were based. In the past several years, the number of these workers has decreased to the point where their presence has no impact on seasonal adjustment. Temporary census takers for the 1980 decennial census are removed prior to the calculation of seasonal adjustment factors for Federal Government employment.

The revised seasonally adjusted series for the establishment data reflect experience through March 1987. Seasonal adjustment factors to be used for current adjustment appear in the June 1987 issue of *Employment and Earnings*.

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IX ARIZONA	-Department of Economic Security, 733-A, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, State Capitol Mall, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Data and Research Div., Employment Development Depart., P.O. Box 1679, Sacramento 95808.
VIII COLORADO	-Division of Employment and Training, 1330 Fox Street, Denver 80204
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