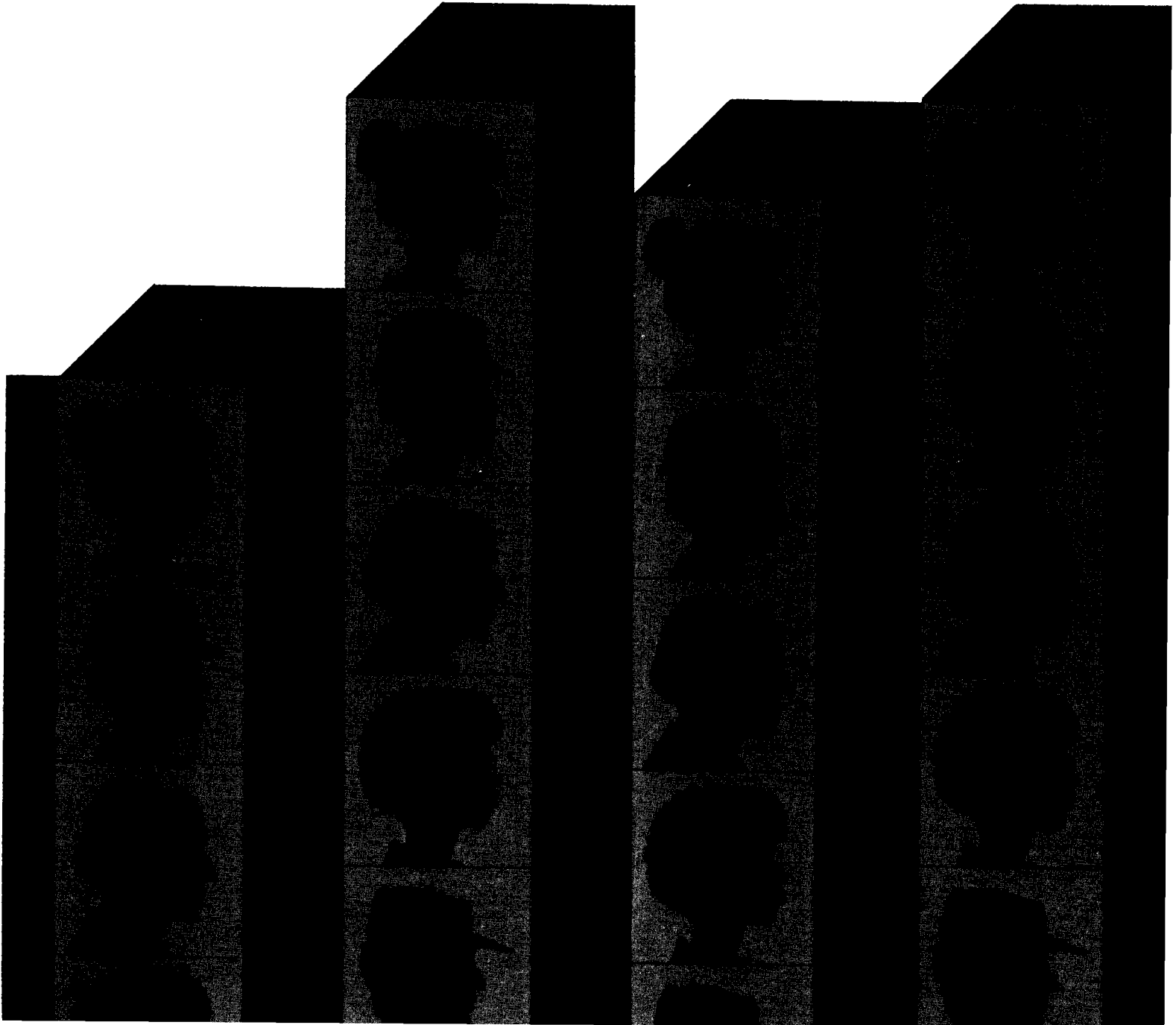




EMPLOYMENT AND EARNINGS

October 1987

U.S. Department of Labor
Bureau of Labor Statistics





U.S. DEPARTMENT OF LABOR

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BUREAU OF LABOR STATISTICS

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

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Calendar of Features

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

Household data

Annual averages	Jan.
Union affiliation	Jan.
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

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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 ¹
State and area annual averages	May
Area definitions	May

State and area labor force data

Annual averages	May
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¹ The latest supplement was published in July 1987.

Employment and Earnings

Vol. 34 No. 10 October 1987

Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, September 1987

Unemployment was little changed in September. The overall unemployment rate was 5.8 percent, and the rate for civilian workers was 5.9 percent. Both rates were 1.1 percentage points lower than a year earlier, with the improvement having been particularly strong since February.

The number of nonagricultural payroll jobs—as measured by the monthly survey of business establishments—edged up about 130,000, after seasonal adjustment. Total civilian employment—as measured by the monthly survey of households—declined by 310,000, following an increase of a similar magnitude in August. Over the past year, employment levels in the establishment and household series have advanced by 2.4 and 2.8 million, respectively.

Unemployment

Both the number of unemployed persons in September—7.1 million—and the civilian worker unemployment rate—5.9 percent—were little changed from August, after seasonal adjustment. Similarly, jobless rates for adult men (5.0 percent), adult women (5.4 percent), teenagers (16.3 percent), whites (5.1 percent), blacks (12.3 percent), and Hispanics (8.2 percent) showed little or no over-the-month change. (See tables A-33 and A-34.)

The mean duration of unemployment, at 14.2 weeks, was also little changed in September, while median duration declined to 5.7 weeks. In recent months, both measures have edged down below levels posted earlier this year. (See table A-40.)

Civilian employment and the labor force

Total civilian employment declined more than usual in September and, after adjustment for seasonality, was down 310,000 to 112.8 million, offsetting an increase of similar magnitude in August. The August increase and September decline can be largely traced to the pattern of youth employment this summer. Teenage employment normally declines markedly (before seasonal adjustment) during the months of August and especially September, as young workers leave summer jobs in preparation for their return to school. This year, however, an unusually large group of teenagers remained in their jobs through the August reference week. This resulted in the unusually large seasonally adjusted increase in youth employment in August and the decline of similar magnitude in September.

Reflecting these developments, the percentage of the total civilian population that is employed—the employment-population ratio—receded to 61.6 percent in September, the same as in July. (See table A-33.)

After seasonal adjustment, the civilian labor force declined by 440,000 in September to 119.9 million; this drop also was confined largely to teenagers. With this decline, the labor force participation rate fell to 65.4 percent, still high by historical standards. The labor force has grown by 1.6 million over the past year.

Discouraged workers

At 1.0 million in the third quarter, the number of discouraged workers—persons who report that they want to work but are not looking for jobs because they believe they cannot find any—was little changed from the level for the second quarter. Blacks and women continue to be disproportionately represented among the discouraged. (See table A-53.)

Industry payroll employment

The number of nonagricultural payroll jobs edged up 130,000 in September to 102.4 million, seasonally adjusted. The figures were dampened by the absence from payrolls of about 65,000 teachers and support workers due to labor disputes. (See table B-4.)

Manufacturing employment rose by 55,000 in September to 19.2 million, seasonally adjusted, as growth was widespread in both the durable and nondurable goods components. Job gains were particularly notable in primary metals and machinery. Factory employment increases have totaled 165,000 since June, raising the employment level to its highest point since August 1985.

Elsewhere in the goods sector, employment in mining continued its gradual recovery. Growth in the industry has totaled 40,000 since its January low, mostly in its oil and gas extraction component. In contrast, construction employment declined by 35,000 in September and was down by 60,000 so far this year.

In the service-producing sector, employment growth was generally moderate in September. Job gains were unusually slow in the services industry, which increased by 35,000, compared with an average increase of close to 90,000 over the current expansion. There was no increase at all in finance,

insurance, and real estate; wholesale trade; and government, where employment was held down by teacher strikes. In contrast, retail trade employment increased by 70,000, more than offsetting the small decline of the previous month.

Weekly hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was down 0.3 hour to 34.6 hours, seasonally adjusted. The manufacturing workweek dropped by 0.6 hour to 40.4, and factory overtime fell by 0.2 hour to 3.6 hours. These declines reflected the unusual occurrence of Labor Day in the survey period, as some employees were not paid for the holiday and others worked fewer overtime hours.

As a result of the decline in the average workweek, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls dropped by 0.8 percent to 120.2 (1977=100), seasonally adjusted. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings were unchanged in September, while average weekly earnings fell by 0.9 percent, seasonally adjusted, also reflecting the decline in the workweek. Prior to seasonal adjustment, hourly earnings increased by 12 cents to \$9.06, and weekly earnings were down \$1.20 to \$314.38. (See tables C-1 and C-7.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 174.7 (1977=100) in September, seasonally adjusted, an increase of 0.3 percent from August. For the 12 months ended in September, the increase was 2.9 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 1.6 percent during the 12-month period ended in August. (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>
October	November 6	January	February 5
November	December 4	February	March 4
December	January 8	March	April 1

**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 ¹	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 ¹	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 ¹	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	78,565	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 ¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 ¹	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 ¹	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 ¹	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 adjusted²												
1986:												
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	
1987:												
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	
July	184,605	121,672	65.9	114,447	1,720	112,727	3,219	109,508	7,224	5.9	62,933	
August	184,738	122,038	66.1	114,817	1,736	113,081	3,092	109,989	7,221	5.9	62,700	
September	184,904	121,604	65.8	114,515	1,743	112,772	3,170	109,602	7,089	5.8	63,300	

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

² 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.

**HOUSEHOLD DATA
HISTORICAL**

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				
Annual averages												
MEN												
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 ¹	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	59,098	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	63,488	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 ¹	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
Monthly data, seasonally adjusted²												
1986:												
September	87,556	67,128	76.7	62,528	1,560	60,968	2,495	58,473	4,800	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	
1987:												
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	88,186	67,644	76.7	63,282	1,575	61,707	2,639	59,068	4,362	6.4	20,542	
April	88,271	67,603	76.6	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	
July	88,534	67,656	76.4	63,715	1,561	62,154	2,556	59,597	3,941	5.8	20,878	
August	88,598	67,925	76.7	63,918	1,575	62,343	2,445	59,898	4,007	5.9	20,673	
September	88,683	67,736	76.4	63,939	1,581	62,358	2,550	59,807	3,798	5.6	20,947	
Annual averages												
WOMEN												
1976	82,476	39,069	47.4	35,701	86	35,615	588	35,027	3,369	8.6	43,408	
1977	83,932	40,705	48.5	37,381	92	37,289	612	36,677	3,324	8.2	43,227	
1978 ¹	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
1979	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 ¹	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
Monthly data, seasonally adjusted²												
1986:												
September	95,158	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	
1987:												
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	49,387	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	
July	96,071	54,016	56.2	50,733	159	50,574	663	49,911	3,283	6.1	42,055	
August	96,140	54,113	56.3	50,899	161	50,738	647	50,091	3,213	5.9	42,027	
September	96,221	53,868	56.0	50,576	162	50,414	820	49,794	3,291	6.1	42,353	

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

² The population and Armed Forces figures are not adjusted for seasonal variation.

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
Annual averages								
1953 ¹	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 ¹	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 ¹	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 ¹	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 ¹	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 ¹	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 ¹	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
Monthly data, seasonally adjusted ²								
1986:								
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
1987:								
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
July	182,885	119,952	65.6	112,727	7,224	6.0	6.0	6.1
August	183,002	120,302	65.7	113,081	7,221	6.0	6.0	6.0
September	183,161	119,861	65.4	112,772	7,089	5.9	5.7	6.1

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

Explanatory Notes.

² 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	September 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					
TOTAL											
16 years and over	183,161	119,884	65.5	113,027	6,857	5.7	63,277	28,476	8,642	3,144	23,016
16 to 19 years	14,637	7,545	51.5	6,305	1,240	16.4	7,092	453	5,816	33	788
16 to 17 years	7,511	3,136	41.8	2,614	522	16.6	4,375	136	3,870	13	355
18 to 19 years	7,126	4,409	61.9	3,691	718	16.3	2,717	317	1,947	20	433
20 to 24 years	18,868	14,786	78.4	13,438	1,348	9.1	4,082	1,493	1,805	122	661
25 to 54 years	99,647	82,483	82.8	78,897	3,786	4.6	17,165	12,151	983	1,141	2,890
25 to 34 years	42,358	35,352	83.5	33,454	1,898	5.4	7,006	5,012	707	285	1,002
25 to 29 years	21,360	17,827	83.5	16,807	1,020	5.7	3,534	2,430	473	97	533
30 to 34 years	20,997	17,526	83.5	16,647	878	5.0	3,471	2,581	234	187	469
35 to 44 years	33,979	28,817	84.8	27,557	1,259	4.4	5,162	3,753	219	361	829
35 to 39 years	18,522	15,696	84.7	14,949	748	4.8	2,824	2,065	135	169	450
40 to 44 years	15,457	13,120	84.9	12,608	512	3.9	2,337	1,682	84	191	379
45 to 54 years	23,311	18,315	78.6	17,686	629	3.4	4,997	3,386	57	495	1,059
45 to 49 years	12,377	10,101	81.6	9,732	369	3.7	2,276	1,589	39	207	440
50 to 54 years	10,935	8,214	75.1	7,955	259	3.2	2,721	1,797	18	288	618
55 to 64 years	21,784	11,870	54.5	11,476	394	3.3	9,914	4,969	25	706	4,214
55 to 59 years	10,999	7,206	65.5	6,964	242	3.4	3,793	2,157	19	365	1,252
60 to 64 years	10,785	4,664	43.2	4,513	152	3.3	6,121	2,812	5	341	2,962
65 years and over	28,224	3,199	11.3	3,110	89	2.8	25,026	9,409	12	1,142	14,463
65 to 69 years	9,790	1,948	19.9	1,893	55	2.8	7,842	3,113	3	265	4,460
70 to 74 years	7,574	790	10.4	769	21	2.7	6,784	2,565	4	203	4,012
75 years and over	10,860	460	4.2	447	13	2.8	10,400	3,732	5	674	5,990
Men											
16 years and over	87,102	66,058	75.8	62,622	3,437	5.2	21,043	572	4,345	1,788	14,337
16 to 19 years	7,362	3,902	53.0	3,248	653	16.7	3,460	34	2,981	16	429
16 to 17 years	3,831	1,596	41.7	1,320	276	17.3	2,235	13	2,003	8	210
18 to 19 years	3,531	2,306	65.3	1,928	377	16.0	1,226	20	978	8	219
20 to 24 years	9,134	7,710	84.4	7,062	848	8.4	1,424	38	946	81	358
25 to 54 years	48,677	45,620	93.7	43,746	1,874	4.1	3,058	201	400	798	1,659
25 to 34 years	20,816	19,675	94.5	18,766	909	4.6	1,141	73	316	193	559
25 to 29 years	10,479	9,846	94.0	9,366	480	4.9	634	40	228	74	291
30 to 34 years	10,337	9,830	95.1	9,400	429	4.4	507	32	88	119	268
35 to 44 years	16,583	15,741	94.9	15,144	597	3.8	842	66	70	235	470
35 to 39 years	9,063	8,640	95.3	8,301	340	3.9	422	38	36	113	236
40 to 44 years	7,520	7,100	94.4	6,843	257	3.6	419	28	35	122	234
45 to 54 years	11,278	10,204	90.5	9,835	369	3.6	1,075	61	14	370	630
45 to 49 years	6,009	5,576	92.8	5,368	208	3.7	433	26	8	155	244
50 to 54 years	5,270	4,628	87.8	4,468	160	3.5	642	36	6	215	386
55 to 64 years	10,240	6,887	67.3	6,669	218	3.2	3,353	93	15	431	2,814
55 to 59 years	5,229	4,134	79.1	4,002	132	3.2	1,095	38	14	227	817
60 to 64 years	5,011	2,753	54.9	2,666	86	3.1	2,258	55	1	205	1,997
65 years and over	11,888	1,940	16.6	1,897	43	2.2	9,748	207	3	461	9,077
65 to 69 years	4,429	1,165	26.3	1,140	25	2.1	3,284	73	2	145	3,044
70 to 74 years	3,253	474	14.6	463	11	2.3	2,779	41	1	102	2,636
75 years and over	4,006	301	7.5	284	7	2.5	3,705	93	1	214	3,397
Women											
16 years and over	96,059	53,825	56.0	50,405	3,420	6.4	42,234	27,903	4,297	1,355	8,679
16 to 19 years	7,275	3,643	50.1	3,057	587	16.1	3,631	419	2,835	17	360
16 to 17 years	3,680	1,540	41.9	1,294	246	16.0	2,140	123	1,866	6	145
18 to 19 years	3,595	2,103	58.5	1,762	341	16.2	1,491	297	969	11	214
20 to 24 years	9,735	7,077	72.7	6,377	700	9.9	2,658	1,455	860	41	303
25 to 54 years	50,970	36,863	72.3	34,952	1,912	5.2	14,107	11,950	583	343	1,231
25 to 34 years	21,541	15,677	72.8	14,688	989	6.3	5,864	4,939	391	92	443
25 to 29 years	10,881	7,981	73.3	7,441	540	6.8	2,900	2,390	245	23	242
30 to 34 years	10,660	7,696	72.2	7,247	449	5.8	2,964	2,549	146	68	201
35 to 44 years	17,396	13,076	75.2	12,413	863	5.1	4,320	3,687	149	126	359
35 to 39 years	9,459	7,056	74.6	6,648	408	5.8	2,402	2,033	99	56	214
40 to 44 years	7,937	6,020	75.8	5,765	255	4.2	1,918	1,654	49	69	145
45 to 54 years	12,033	8,111	67.4	7,851	260	3.2	3,922	3,325	43	125	429
45 to 49 years	6,366	4,525	71.1	4,364	161	3.8	1,843	1,563	31	52	196
50 to 54 years	5,665	3,588	63.3	3,487	99	2.8	2,079	1,781	12	73	232
55 to 64 years	11,544	4,963	43.2	4,806	176	3.5	6,560	4,876	10	274	1,400
55 to 59 years	5,769	3,072	53.2	2,962	110	3.6	2,696	2,119	6	138	435
60 to 64 years	5,774	1,912	33.1	1,846	66	3.4	3,863	2,757	4	136	965
65 years and over	16,536	1,258	7.6	1,212	46	3.7	15,278	9,203	9	661	5,385
65 to 69 years	5,361	783	14.6	753	30	3.9	4,578	3,040	1	120	1,416
70 to 74 years	4,321	316	7.3	306	10	3.2	4,005	2,524	4	101	1,376
75 years and over	6,854	159	2.3	153	6	4.0	6,695	3,639	4	460	2,593

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

(Numbers in thousands)

Age, sex, and race	September 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					
WHITE											
16 years and over	157,242	103,295	65.7	98,261	5,033	4.9	53,947	24,868	6,685	2,465	19,929
16 to 19 years	11,950	6,502	54.4	5,571	931	14.3	5,447	363	4,522	29	533
16 to 17 years	6,110	2,766	45.3	2,377	389	14.1	3,344	109	2,989	13	234
18 to 19 years	5,839	3,736	64.0	3,195	542	14.5	2,103	254	1,533	16	299
20 to 24 years	15,686	12,587	80.2	11,641	946	7.5	3,099	1,172	1,394	67	466
25 to 54 years	85,016	70,897	83.4	68,136	2,761	3.9	14,118	10,322	742	872	2,182
25 to 34 years	35,727	30,070	84.2	28,792	1,278	4.3	5,656	4,199	530	221	707
25 to 29 years	17,983	15,191	84.5	14,532	659	4.3	2,792	1,997	353	65	378
30 to 34 years	17,744	14,879	83.9	14,261	620	4.2	2,864	2,202	177	157	328
35 to 44 years	29,224	24,897	85.2	23,931	967	3.9	4,327	3,244	164	279	639
35 to 39 years	15,790	13,439	85.1	12,890	549	6.7	2,351	1,779	96	138	335
40 to 44 years	13,434	11,459	85.3	11,042	417	3.6	1,975	1,469	68	141	304
45 to 54 years	20,065	15,930	79.4	15,414	516	3.2	4,135	2,878	49	372	836
45 to 49 years	10,658	8,772	82.3	8,482	290	3.3	1,886	1,336	31	162	347
50 to 54 years	9,407	7,158	76.1	6,932	226	4.1	2,249	1,549	17	210	489
55 to 64 years	19,189	10,477	54.6	10,156	321	3.1	8,712	4,407	15	566	3,725
55 to 59 years	9,626	6,324	65.7	6,132	192	3.0	3,302	1,909	10	303	1,080
60 to 64 years	9,563	4,153	43.4	4,024	129	3.1	5,411	2,498	5	263	2,644
65 years and over	25,402	2,831	11.1	2,757	75	2.6	22,570	8,604	12	931	13,023
65 to 69 years	8,717	1,702	19.5	1,652	50	2.9	7,016	2,806	4	211	3,997
70 to 74 years	6,836	714	10.4	700	14	2.0	6,120	2,344	4	157	3,618
75 years and over	9,849	416	4.2	405	11	2.6	9,434	3,455	4	564	5,410
Men											
16 years and over	75,333	57,604	76.5	55,014	2,590	4.5	17,728	443	3,401	1,387	12,498
16 to 19 years	6,024	3,368	55.9	2,881	487	14.5	2,656	23	2,344	12	276
16 to 17 years	3,126	1,407	45.0	1,198	209	14.8	1,718	11	1,559	7	142
18 to 19 years	2,898	1,961	67.7	1,683	278	14.2	937	13	785	5	135
20 to 24 years	7,666	6,585	85.9	6,115	470	7.1	1,081	21	753	46	260
25 to 54 years	42,039	39,755	94.6	38,333	1,422	3.6	2,283	138	294	615	1,237
25 to 34 years	17,784	16,972	95.4	16,333	639	3.8	811	41	234	150	386
25 to 29 years	8,929	8,483	95.0	8,165	318	3.7	446	24	166	54	203
30 to 34 years	8,855	8,489	95.9	8,169	321	3.8	365	17	68	97	183
35 to 44 years	14,434	13,798	95.6	13,327	471	3.4	636	47	51	183	355
35 to 39 years	7,823	7,509	96.0	7,258	251	3.3	314	30	24	91	170
40 to 44 years	6,611	6,289	95.1	6,070	219	3.5	322	17	27	92	185
45 to 54 years	9,821	8,985	91.5	8,673	312	3.5	836	49	10	281	496
45 to 49 years	5,233	4,896	93.6	4,723	173	3.5	337	22	4	126	185
50 to 54 years	4,588	4,089	89.1	3,950	139	3.4	499	28	5	156	311
55 to 64 years	9,078	6,153	67.8	5,972	180	2.9	2,926	76	7	343	2,500
55 to 59 years	4,614	3,681	79.8	3,571	110	3.0	933	27	6	184	715
60 to 64 years	4,464	2,471	55.4	2,401	70	2.8	1,993	48	1	159	1,784
65 years and over	10,527	1,744	16.6	1,712	32	1.8	8,783	185	2	371	8,224
65 to 69 years	3,974	1,034	26.0	1,012	22	2.1	2,941	64	2	114	2,762
70 to 74 years	2,941	437	14.9	432	5	1.1	2,502	39	-	81	2,384
75 years and over	3,612	273	7.6	268	5	1.7	3,340	83	-	177	3,079
Women											
16 years and over	81,909	45,690	55.8	43,247	2,443	5.3	36,219	24,424	3,285	1,078	7,432
16 to 19 years	5,926	3,134	52.9	2,690	444	14.2	2,792	340	2,178	17	257
16 to 17 years	2,985	1,359	45.5	1,178	181	13.3	1,626	99	1,429	6	92
18 to 19 years	2,941	1,776	60.4	1,512	264	14.9	1,166	242	749	11	165
20 to 24 years	8,020	6,002	74.8	5,526	476	7.9	2,019	1,150	641	21	206
25 to 54 years	42,977	31,142	72.5	29,803	1,339	4.3	11,835	10,184	448	257	945
25 to 34 years	17,943	13,098	73.0	12,459	639	4.9	4,845	4,158	296	71	320
25 to 29 years	9,054	6,708	74.1	6,367	341	5.1	2,346	1,973	187	11	175
30 to 34 years	8,889	6,390	71.9	6,092	299	4.7	2,499	2,185	109	60	145
35 to 44 years	14,790	11,099	75.0	10,603	496	4.5	3,691	3,197	113	96	285
35 to 39 years	7,967	5,930	74.4	5,632	298	5.0	2,037	1,753	72	47	165
40 to 44 years	6,823	5,170	75.8	4,972	198	3.8	1,653	1,444	41	49	119
45 to 54 years	10,244	6,945	67.8	6,741	204	2.9	3,299	2,829	40	91	340
45 to 49 years	5,425	3,876	71.4	3,759	117	3.0	1,549	1,324	27	36	162
50 to 54 years	4,819	3,069	63.7	2,982	87	2.8	1,750	1,505	12	54	178
55 to 64 years	10,111	4,324	42.8	4,183	141	3.3	5,787	4,331	8	223	1,225
55 to 59 years	5,012	2,643	52.7	2,581	82	3.1	2,369	1,881	4	119	365
60 to 64 years	5,099	1,681	33.0	1,822	59	3.5	3,418	2,450	4	104	860
65 years and over	14,875	1,087	7.3	1,045	43	3.9	13,787	8,419	9	580	4,799
65 to 69 years	4,743	668	14.1	640	28	4.2	4,075	2,742	2	97	1,235
70 to 74 years	3,895	277	7.1	268	9	3.2	3,618	2,305	4	76	1,234
75 years and over	6,237	143	2.3	137	6	3.9	6,094	3,372	4	387	2,331

**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	September 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					
BLACK											
16 years and over	20,426	13,018	63.7	11,398	1,619	12.4	7,408	2,756	1,419	614	2,619
16 to 19 years	2,171	863	39.8	591	272	31.5	1,307	78	1,009	5	215
16 to 17 years	1,130	296	26.2	182	114	38.5	835	25	702	1	107
18 to 19 years	1,040	568	54.6	409	158	27.9	473	54	307	4	106
20 to 24 years	2,566	1,789	69.7	1,417	372	20.8	778	277	275	51	175
25 to 54 years	11,227	8,977	80.0	8,080	896	10.0	2,249	1,277	134	243	596
25 to 34 years	5,161	4,171	80.8	3,628	542	13.0	990	574	102	59	256
25 to 29 years	2,659	2,104	79.1	1,790	314	14.9	554	308	74	32	140
30 to 34 years	2,502	2,067	82.6	1,837	229	11.1	436	265	28	26	115
35 to 44 years	3,594	2,997	83.4	2,742	255	8.5	597	335	29	72	161
35 to 39 years	2,063	1,740	84.3	1,574	166	9.5	323	189	20	25	89
40 to 44 years	1,531	1,257	82.1	1,168	90	7.2	274	146	9	46	72
45 to 54 years	2,472	1,809	73.2	1,711	99	5.5	662	368	3	112	179
45 to 49 years	1,312	1,021	77.8	949	73	7.1	291	181	2	38	68
50 to 54 years	1,160	788	67.9	762	26	3.3	371	187	1	73	111
55 to 64 years	2,100	1,106	52.6	1,041	65	5.9	994	447	1	124	422
55 to 59 years	1,099	709	64.5	666	43	6.1	391	184	1	56	149
60 to 64 years	1,001	397	39.7	375	22	5.5	604	264		68	272
65 years and over	2,362	283	12.0	269	14	4.9	2,079	677		191	1,211
65 to 69 years	864	182	21.1	177	6	3.3	681	240		48	393
70 years and over	1,500	101	6.7	93	9	8.9	1,398	438		143	818
Men											
16 years and over	9,163	6,466	70.6	5,749	716	11.1	2,697	95	672	362	1,571
16 to 19 years	1,070	427	39.9	287	140	32.9	642	8	502	5	128
16 to 17 years	570	152	26.7	98	54	35.4	417	3	350	1	64
18 to 19 years	499	275	55.0	188	86	31.5	225	6	152	4	64
20 to 24 years	1,167	907	77.7	752	155	17.1	261	14	123	35	89
25 to 54 years	5,029	4,403	87.6	4,026	375	8.5	625	46	48	166	369
25 to 34 years	2,331	2,081	89.3	1,851	229	11.0	250	23	36	41	152
25 to 29 years	1,201	1,059	88.2	920	139	13.1	142	11	31	21	79
30 to 34 years	1,130	1,022	90.4	931	91	8.9	108	12	4	19	72
35 to 44 years	1,600	1,431	89.4	1,329	102	7.1	169	13	10	45	102
35 to 39 years	919	834	90.8	765	69	8.2	85	9	7	16	53
40 to 44 years	681	597	87.6	564	33	5.5	85	4	3	28	49
45 to 54 years	1,098	891	81.2	847	45	5.0	206	10	2	80	115
45 to 49 years	583	508	87.2	477	32	6.2	75	2	1	23	48
50 to 54 years	515	383	74.5	370	13	3.4	131	6	1	56	67
55 to 64 years	946	585	61.9	550	35	6.0	360	12	-1	76	273
55 to 59 years	497	368	74.0	347	21	5.6	129	8		38	84
60 to 64 years	449	217	48.5	203	15	6.7	231	5		38	188
65 years and over	951	144	15.1	133	11	7.4	807	15		80	712
65 to 69 years	376	95	25.3	92	3	2.9	281	7		29	245
70 years and over	576	49	8.5	41	8	(¹)	527	9		51	467
Women											
16 years and over	11,263	6,552	58.2	5,649	903	13.8	4,711	2,661	747	254	1,049
16 to 19 years	1,101	436	39.6	304	132	30.2	665	70	507	-	87
16 to 17 years	560	143	25.6	83	60	41.8	417	22	352		43
18 to 19 years	541	293	54.2	221	72	24.6	248	48	155		44
20 to 24 years	1,399	881	63.0	664	217	24.6	517	263	152	16	86
25 to 54 years	6,198	4,574	73.8	4,054	521	11.4	1,624	1,231	86	77	227
25 to 34 years	2,830	2,090	73.9	1,777	313	15.0	740	551	66	18	104
25 to 29 years	1,458	1,045	71.7	870	175	16.7	412	297	43	11	61
30 to 34 years	1,372	1,045	76.1	906	138	13.2	328	253	24	7	43
35 to 44 years	1,994	1,566	78.6	1,413	153	9.8	427	322	19	27	59
35 to 39 years	1,144	906	79.2	809	97	10.7	238	180	13	9	36
40 to 44 years	850	660	77.7	604	57	8.6	189	142	6	18	23
45 to 54 years	1,374	918	66.8	864	54	5.9	456	358	1	32	64
45 to 49 years	729	513	70.3	472	41	8.0	216	179	1	15	20
50 to 54 years	645	405	62.8	392	13	3.2	240	179		17	44
55 to 64 years	1,154	520	45.1	491	30	5.7	634	435	2	48	149
55 to 59 years	602	341	56.6	318	22	6.6	281	176	2	19	65
60 to 64 years	552	179	32.5	172	7	4.0	373	259		30	84
65 years and over	1,411	140	9.9	136	3	2.4	1,272	662		111	499
65 to 69 years	488	87	17.9	85	3	3.0	400	233		19	148
70 years and over	924	52	5.7	52	1	(¹)	871	429		92	351

¹ 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	September 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	
TOTAL									
16 years and over	25,919	16,589	64.0	14,766	260	14,506	1,824	11.0	9,330
16 to 19 years	2,687	1,043	38.8	734	15	719	309	29.6	1,644
16 to 17 years	1,401	370	26.4	238	6	232	132	35.8	1,031
18 to 19 years	1,286	673	52.3	496	9	487	177	26.3	614
20 to 24 years	3,183	2,200	69.1	1,797	29	1,768	402	18.3	983
25 to 54 years	14,632	11,586	79.2	10,560	172	10,389	1,028	8.9	3,045
25 to 34 years	6,631	5,282	79.7	4,662	79	4,583	620	11.7	1,349
25 to 29 years	3,377	2,636	78.1	2,275	39	2,236	361	13.7	741
30 to 34 years	3,253	1,414	43.5	2,387	40	2,347	259	18.3	608
35 to 44 years	4,755	3,919	82.4	3,627	46	3,580	293	7.5	836
35 to 39 years	2,732	2,258	82.7	2,060	27	2,034	198	8.8	473
40 to 44 years	2,023	1,661	82.1	1,567	20	1,547	95	5.7	363
45 to 54 years	3,246	2,385	73.5	2,272	46	2,226	112	4.7	861
45 to 49 years	1,719	1,329	77.3	1,250	19	1,231	79	5.9	390
50 to 54 years	1,527	1,056	69.2	1,029	27	996	33	3.1	472
55 to 64 years	2,595	1,394	53.7	1,321	30	1,291	73	5.2	1,201
55 to 59 years	1,373	882	64.2	832	18	814	50	5.7	491
60 to 64 years	1,222	512	41.9	489	12	477	23	4.4	710
65 years and over	2,823	367	13.0	353	14	339	14	3.9	2,458
65 to 69 years	1,073	247	23.0	242	7	235	6	2.4	828
70 to 74 years	737	75	10.2	70	5	65	5	6.7	664
75 years and over	1,012	46	4.5	42	3	39	4	(¹)	966
Men									
16 years and over	11,769	8,454	71.8	7,607	229	7,379	847	10.0	3,315
16 to 19 years	1,338	534	39.9	367	11	356	167	31.2	805
16 to 17 years	705	189	26.8	122	5	116	67	35.6	516
18 to 19 years	633	345	54.5	245	6	239	100	28.9	288
20 to 24 years	1,468	1,125	76.6	946	29	917	178	15.9	343
25 to 54 years	6,639	5,865	88.4	5,412	145	5,267	473	7.7	773
25 to 34 years	3,033	2,703	89.1	2,433	68	2,365	270	10.0	330
25 to 29 years	1,550	1,363	87.9	1,201	32	1,169	162	11.9	187
30 to 34 years	1,482	1,340	90.4	1,232	36	1,196	108	8.1	142
35 to 44 years	2,149	1,943	90.4	1,817	36	1,781	126	6.5	206
35 to 39 years	1,240	1,132	91.3	1,043	22	1,022	88	7.8	108
40 to 44 years	909	811	89.3	774	14	760	38	4.6	98
45 to 54 years	1,457	1,219	83.6	1,163	41	1,121	56	4.6	238
45 to 49 years	776	680	87.7	645	18	627	35	5.2	96
50 to 54 years	681	539	79.1	518	23	495	21	3.9	143
55 to 64 years	1,162	734	63.2	696	29	668	38	5.1	428
55 to 59 years	616	453	73.6	431	17	414	22	4.8	163
60 to 64 years	546	281	51.5	265	11	254	18	5.7	265
65 years and over	1,161	196	16.9	185	15	171	11	5.8	965
65 to 69 years	455	132	28.9	129	7	122	3	2.3	323
70 to 74 years	312	36	11.5	31	5	26	5	(¹)	277
75 years and over	394	29	7.4	26	3	23	3	(¹)	365
Women									
16 years and over	14,151	8,135	57.5	7,158	31	7,127	977	12.0	6,015
16 to 19 years	1,349	509	37.7	367	3	364	142	28.0	840
16 to 17 years	696	181	26.1	116	-	116	65	36.0	514
18 to 19 years	653	328	50.2	251	3	248	77	23.5	325
20 to 24 years	1,714	1,075	62.7	851	-	851	224	20.8	639
25 to 54 years	7,993	5,721	71.6	5,148	27	5,122	573	10.0	2,272
25 to 34 years	3,598	2,579	71.7	2,229	11	2,218	349	13.8	1,019
25 to 29 years	1,827	1,273	69.7	1,074	7	1,067	199	15.6	554
30 to 34 years	1,771	1,306	73.7	1,155	4	1,151	151	11.5	466
35 to 44 years	2,606	1,976	75.8	1,810	11	1,799	167	8.4	630
35 to 39 years	1,492	1,126	75.5	1,017	5	1,012	110	9.7	365
40 to 44 years	1,114	850	76.3	793	6	787	57	6.7	265
45 to 54 years	1,789	1,166	65.2	1,110	5	1,105	56	4.8	623
45 to 49 years	943	649	68.8	605	1	604	44	6.8	294
50 to 54 years	846	517	61.1	505	4	501	12	2.4	329
55 to 64 years	1,433	659	46.0	624	1	623	35	5.3	774
55 to 59 years	757	429	56.6	401	1	400	28	6.6	329
60 to 64 years	676	231	34.1	224	-	224	7	2.9	445
65 years and over	1,661	171	10.3	168	-	168	3	1.9	1,490
65 to 69 years	818	115	18.7	113	-	113	3	2.3	503
70 to 74 years	425	39	9.2	39	-	39	-	(¹)	387
75 years and over	618	17	2.8	16	-	16	1	(¹)	601

¹ Data not shown where base is less than 75,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
TOTAL								
Civilian noninstitutional population	180,997	183,161	78,722	79,740	87,779	88,785	14,496	14,637
Civilian labor force	118,244	119,884	61,466	62,157	49,217	50,182	7,561	7,545
Percent of population	65.3	65.5	78.1	77.9	56.1	56.5	52.2	51.5
Employed	110,229	113,027	58,036	59,373	46,051	47,349	6,143	6,305
Agriculture	3,266	3,277	2,374	2,433	646	615	246	229
Nonagricultural industries	106,963	109,750	55,662	56,941	45,405	46,734	5,897	6,076
Unemployed	8,015	6,857	3,430	2,783	3,167	2,833	1,418	1,240
Unemployment rate	6.8	5.7	5.6	4.5	6.4	5.6	18.8	16.4
Not in labor force	62,752	63,277	17,255	17,583	38,562	38,603	6,936	7,092
White								
Civilian noninstitutional population	155,723	157,242	68,548	69,309	75,286	75,983	11,889	11,950
Civilian labor force	102,138	103,295	53,757	54,236	41,804	42,556	6,577	6,502
Percent of population	65.6	65.7	78.4	78.3	55.5	56.0	55.3	54.4
Employed	96,262	98,261	51,204	52,133	39,523	40,557	5,535	5,571
Agriculture	3,035	3,018	2,200	2,215	601	587	234	215
Nonagricultural industries	93,227	95,244	49,005	49,918	38,922	39,970	5,301	5,357
Unemployed	5,876	5,033	2,553	2,103	2,281	1,999	1,042	931
Unemployment rate	5.8	4.9	4.7	3.9	5.5	4.7	15.8	14.3
Not in labor force	53,584	53,947	14,790	15,073	33,482	33,427	5,312	5,447
Black								
Civilian noninstitutional population	20,056	20,426	7,935	8,093	9,983	10,162	2,138	2,171
Civilian labor force	12,657	13,018	5,915	6,039	5,925	6,116	817	863
Percent of population	63.1	63.7	74.5	74.6	59.4	60.2	38.2	39.8
Employed	10,785	11,398	5,160	5,463	5,147	5,345	479	591
Agriculture	179	197	134	165	35	19	10	13
Nonagricultural industries	10,606	11,201	5,025	5,297	5,112	5,326	469	578
Unemployed	1,872	1,619	755	576	778	771	339	272
Unemployment rate	14.8	12.4	12.8	9.5	13.1	12.6	41.4	31.5
Not in labor force	7,399	7,408	2,020	2,054	4,058	4,046	1,321	1,307

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	September 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ²	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	14,439	6,682	46.3	5,805	1,201	4,605	876	100	776	13.1
16 to 19 years	10,138	4,229	41.7	3,563	404	3,159	667	49	618	15.8
20 to 24 years	4,301	2,452	57.0	2,243	797	1,446	210	51	158	8.5
High school	7,264	2,942	40.5	2,460	225	2,235	482	36	446	16.4
College	7,175	3,740	52.1	3,345	976	2,369	394	64	331	10.5
Full-time students	6,188	2,869	46.4	2,518	402	2,116	351	37	315	12.2
Part-time students	986	870	88.2	827	574	253	43	27	16	4.9
Men, 16 to 24 years	7,372	3,395	46.1	2,921	622	2,299	474	52	422	14.0
16 to 19 years	5,210	2,188	42.0	1,829	230	1,599	359	29	330	16.4
20 to 24 years	2,162	1,207	55.9	1,093	393	700	114	22	92	9.5
High school	3,830	1,562	40.8	1,283	130	1,153	279	27	252	17.9
College	3,542	1,833	51.8	1,638	492	1,147	195	24	170	10.8
Full-time students	3,113	1,451	46.8	1,270	243	1,027	181	12	169	12.5
Part-time students	429	383	89.1	369	249	120	14	12	2	3.7
Women, 16 to 24 years	7,067	3,286	46.5	2,884	579	2,305	402	48	354	12.2
16 to 19 years	4,927	2,042	41.4	1,734	174	1,560	307	19	288	15.1
20 to 24 years	2,140	1,245	58.2	1,150	404	745	95	29	66	7.6
High school	3,434	1,380	40.2	1,177	94	1,083	203	9	194	14.7
College	3,633	1,906	52.5	1,707	484	1,223	199	39	180	10.5
Full-time students	3,076	1,419	46.1	1,248	159	1,089	171	25	146	12.0
Part-time students	557	488	87.5	459	325	134	29	15	14	5.9
White										
Total, 16 to 24 years	11,894	5,850	49.2	5,175	1,028	4,148	675	51	623	11.5
16 to 19 years	8,276	3,685	44.5	3,185	337	2,848	501	23	477	13.6
20 to 24 years	3,617	2,165	59.8	1,990	691	1,300	174	28	146	8.0
Men	6,116	2,985	48.8	2,626	540	2,085	359	26	334	12.0
Women	5,777	2,865	49.6	2,550	487	2,062	316	26	290	11.0
High school	5,836	2,554	43.8	2,194	185	2,009	359	17	343	14.1
College	6,058	3,296	54.4	2,981	842	2,138	315	35	281	9.6
Full-time students	5,225	2,549	48.8	2,258	337	1,921	292	20	272	11.4
Part-time students	833	747	89.6	723	506	218	24	15	9	3.2
Black										
Total, 16 to 24 years	1,886	597	31.7	431	120	311	166	41	125	27.8
16 to 19 years	1,449	418	28.8	278	52	227	139	22	117	33.4
20 to 24 years	437	179	41.1	153	68	85	27	19	8	14.9
Men	927	287	31.0	199	57	142	88	20	68	30.7
Women	959	310	32.3	232	62	170	78	22	57	25.2
High school	1,144	309	27.0	204	29	175	105	18	87	34.0
College	742	288	38.9	227	91	137	61	23	38	21.2
Full-time students	639	213	33.3	163	48	115	50	15	35	23.3
Part-time students	102	76	73.8	64	43	21	11	8	4	15.1
Hispanic origin										
Total, 16 to 24 years	1,024	406	39.6	345	105	240	61	15	46	15.0
16 to 19 years	707	209	29.6	166	25	141	43	9	34	20.5
20 to 24 years	317	197	62.1	179	79	100	18	6	12	9.2
Men	566	246	43.5	212	59	153	34	11	23	13.9
Women	458	160	34.9	133	46	87	27	4	23	16.8
High school	582	154	26.6	123	24	99	31	9	22	20.3
College	442	251	56.9	222	81	141	30	6	23	11.8
Full-time students	347	174	50.2	143	33	111	31	7	24	17.6
Part-time students	95	77	81.1	78	49	30	-	-	-	-

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	September 1987									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL NOT ENROLLED										
Total, 16 to 24 years	19,066	15,650	82.1	13,938	11,713	2,225	1,712	1,502	210	10.9
16 to 19 years	4,499	3,316	73.7	2,742	1,938	804	573	503	70	17.3
20 to 24 years	14,567	12,334	84.7	11,196	9,775	1,420	1,139	999	140	9.2
Less than 4 years of high school	4,504	2,867	63.7	2,286	1,742	543	582	521	60	20.3
4 years of high school	9,608	8,170	85.0	7,334	6,196	1,138	836	723	113	10.2
1 to 3 years of college	3,242	2,966	91.5	2,761	2,342	419	205	174	31	6.9
4 years of college or more	1,712	1,647	96.2	1,557	1,433	124	90	83	6	5.4
Men, 16 to 24 years	9,124	8,216	90.0	7,388	6,583	805	828	783	45	10.1
16 to 19 years	2,152	1,714	79.6	1,420	1,098	322	294	272	22	17.2
20 to 24 years	6,972	6,502	93.3	5,969	5,485	483	534	511	23	8.2
Less than 4 years of high school	2,317	1,796	77.5	1,475	1,223	252	320	304	16	17.8
4 years of high school	4,612	4,307	93.4	3,905	3,535	369	402	376	26	9.3
1 to 3 years of college	1,402	1,343	95.8	1,268	1,126	143	75	73	2	5.6
4 years of college or more	793	771	97.2	740	699	41	31	30	1	4.0
Women, 16 to 24 years	9,942	7,434	74.8	6,550	5,130	1,420	884	719	165	11.9
16 to 19 years	2,347	1,602	68.2	1,322	840	483	279	231	48	17.4
20 to 24 years	7,595	5,832	76.8	5,227	4,290	937	605	488	117	10.4
Less than 4 years of high school	2,188	1,071	49.0	810	519	291	261	217	44	24.4
4 years of high school	4,996	3,863	77.3	3,429	2,660	769	434	347	87	11.2
1 to 3 years of college	1,840	1,623	88.2	1,493	1,217	276	130	102	29	8.0
4 years of college or more	918	876	95.4	817	734	84	59	54	5	6.7
White										
Total, 16 to 24 years	15,742	13,239	84.1	12,037	10,185	1,853	1,202	1,046	156	9.1
16 to 19 years	3,673	2,817	76.7	2,387	1,706	681	430	375	55	15.3
20 to 24 years	12,069	10,422	86.4	9,651	8,479	1,172	772	671	100	7.4
Men	7,573	6,968	92.0	6,371	5,730	641	597	588	30	8.6
Women	8,169	6,271	76.8	5,666	4,455	1,211	605	479	126	9.6
Less than 4 years of high school	3,591	2,436	67.8	2,009	1,547	462	427	385	42	17.5
4 years of high school	7,958	6,887	86.5	6,302	5,355	947	585	491	94	8.5
1 to 3 years of college	2,659	2,436	91.6	2,327	1,987	340	109	93	16	4.5
4 years of college or more	1,534	1,481	96.5	1,400	1,296	104	80	78	3	5.4
Black										
Total, 16 to 24 years	2,851	2,055	72.1	1,577	1,260	317	478	428	50	23.3
16 to 19 years	721	446	61.8	313	201	111	133	118	15	29.8
20 to 24 years	2,130	1,609	75.6	1,264	1,059	205	345	310	35	21.5
Men	1,310	1,047	79.9	840	710	130	207	195	12	19.8
Women	1,541	1,008	65.4	737	550	187	271	232	39	26.9
Less than 4 years of high school	792	369	46.6	224	148	76	144	127	18	39.1
4 years of high school	1,440	1,117	77.6	884	730	154	233	217	16	20.9
1 to 3 years of college	494	451	91.4	359	287	72	93	79	13	20.5
4 years of college or more	126	118	93.8	110	95	15	8	5	4	6.9
Hispanic origin										
Total, 16 to 24 years	2,212	1,625	73.5	1,374	1,174	200	251	222	29	15.4
16 to 19 years	630	392	62.1	272	213	60	119	99	20	30.5
20 to 24 years	1,582	1,233	78.0	1,102	961	141	132	123	9	10.7
Men	1,082	948	87.5	834	759	75	114	110	4	12.0
Women	1,129	677	60.0	540	415	125	137	112	25	20.2
Less than 4 years of high school	1,053	670	63.7	542	442	100	129	113	16	19.2
4 years of high school	849	687	81.0	584	524	70	94	82	12	13.6
1 to 3 years of college	254	214	84.2	188	162	26	26	25	1	12.4
4 years of college or more	56	53	(²)	51	46	6	2	2		(²)

¹ 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.

² 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.

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							
	Sept. 1986	Sept. 1987	Total		Employed		Unemployed			
			Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Number		Percent of labor force	
							Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,768	7,850	7,199	7,227	6,877	6,923	322	304	4.5	4.2
30 to 44 years	6,359	6,156	6,086	5,842	5,793	5,581	293	261	4.8	4.5
30 to 34 years	1,102	875	1,037	826	975	759	62	67	6.0	8.1
35 to 39 years	2,971	2,515	2,857	2,385	2,710	2,283	147	102	5.1	4.3
40 to 44 years	2,286	2,766	2,192	2,631	2,108	2,539	84	92	3.8	3.5
45 years and over	1,409	1,694	1,113	1,385	1,084	1,342	29	43	2.6	3.1
NONVETERANS										
Total, 30 to 44 years	19,148	19,666	18,176	18,693	17,302	17,977	874	716	4.8	3.8
30 to 34 years	8,935	8,935	8,520	8,515	8,096	8,178	424	337	5.0	4.0
35 to 39 years	6,015	6,304	5,711	6,020	5,441	5,796	270	224	4.7	3.7
40 to 44 years	4,198	4,427	3,945	4,158	3,765	4,003	180	155	4.6	3.7

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	September 1987							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time		
TOTAL								
Total, 16 years and over	93,771	92,327	1,444	19,256	15,763	3,493	5,228	1,629
16 to 19 years	2,342	2,232	110	3,964	3,546	418	552	688
16 to 17 years	319	298	21	2,297	2,218	79	106	416
18 to 19 years	2,023	1,934	89	1,667	1,328	339	446	272
20 years and over	91,429	90,095	1,334	15,293	12,218	3,075	4,676	941
20 to 24 years	10,573	10,295	278	2,866	2,170	696	1,050	298
25 years and over	80,858	79,801	1,057	12,427	10,048	2,379	3,626	643
25 to 54 years	69,680	68,764	916	9,017	7,074	1,943	3,278	508
55 years and over	11,176	11,036	140	3,411	2,975	436	348	135
Men, 16 years and over	56,381	55,542	839	6,240	4,810	1,430	2,846	591
16 to 19 years	1,328	1,269	59	1,921	1,742	179	301	352
20 years and over	55,054	54,273	781	4,320	3,069	1,251	2,544	239
20 to 24 years	5,878	5,708	170	1,184	852	332	533	115
25 years and over	49,176	48,565	611	3,136	2,217	919	2,011	124
25 to 54 years	42,006	41,483	523	1,739	990	749	1,802	72
55 years and over	7,170	7,082	88	1,397	1,227	170	209	52
Women, 16 years and over	37,390	36,785	605	13,016	10,953	2,063	2,382	1,038
16 to 19 years	1,014	963	51	2,043	1,804	239	250	336
20 years and over	36,376	35,822	554	10,973	9,149	1,824	2,132	702
20 to 24 years	4,695	4,587	108	1,682	1,318	364	517	183
25 years and over	31,682	31,235	447	9,289	7,830	1,459	1,614	519
25 to 54 years	27,675	27,281	394	7,277	6,083	1,194	1,476	436
55 years and over	4,007	3,954	53	2,012	1,747	265	139	83
White								
Men, 16 years and over	49,566	48,853	713	5,448	4,318	1,130	2,128	462
16 to 19 years	1,164	1,113	51	1,718	1,566	152	227	259
20 years and over	48,403	47,740	663	3,731	2,753	978	1,901	203
20 to 24 years	5,107	4,959	148	1,009	764	245	366	104
25 years and over	43,297	42,782	515	2,722	1,989	733	1,535	98
25 to 54 years	36,886	36,453	433	1,449	858	591	1,363	58
55 years and over	6,411	6,329	82	1,273	1,131	142	172	41
Women, 16 years and over	31,539	31,019	520	11,708	10,054	1,654	1,607	836
16 to 19 years	879	836	43	1,811	1,615	196	171	273
20 years and over	30,660	30,183	477	9,896	8,439	1,457	1,436	563
20 to 24 years	4,064	3,963	101	1,462	1,176	286	334	142
25 years and over	26,597	26,220	377	8,434	7,263	1,171	1,102	420
25 to 54 years	23,153	22,817	336	6,650	5,680	970	993	345
55 years and over	3,444	3,403	41	1,785	1,583	202	109	74
Black								
Men, 16 years and over	5,156	5,054	102	593	358	235	614	102
16 to 19 years	134	130	4	153	137	16	65	76
20 years and over	5,021	4,924	97	441	222	219	550	26
20 to 24 years	633	615	18	120	52	68	150	5
25 years and over	4,389	4,309	80	323	171	152	400	22
25 to 54 years	3,805	3,729	76	223	90	133	365	10
55 years and over	583	580	3	100	81	19	35	12
Women, 16 years and over	4,633	4,562	71	1,016	667	349	724	179
16 to 19 years	119	114	5	185	146	39	75	57
20 years and over	4,515	4,449	66	831	521	310	649	122
20 to 24 years	493	486	7	171	108	63	179	38
25 years and over	4,021	3,963	58	659	412	247	470	83
25 to 54 years	3,589	3,542	47	463	274	189	444	77
55 years and over	432	421	11	196	138	58	26	6

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

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

(Numbers in thousands)

Family relationship	September 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 ¹	97,403	65.9	91,802	5,601	5.8	50,504	23,179	7,906	2,317	17,102
Husbands	39,894	78.6	38,676	1,218	3.1	10,890	230	182	879	9,599
With employed wife	25,324	92.1	24,622	703	2.8	2,160	67	100	337	1,657
With unemployed wife	1,078	93.3	961	117	10.9	77	6	2	14	54
With wife not in labor force	13,491	60.9	13,093	398	3.0	8,653	158	80	528	7,888
Wives	28,640	56.4	27,484	1,155	4.0	22,144	18,200	347	371	3,226
With employed husband	25,583	66.1	24,622	961	3.8	13,093	11,685	303	135	970
With unemployed husband	820	67.3	703	117	14.3	398	352	7	10	30
With husband not in labor force	2,237	20.5	2,160	77	3.4	8,653	6,163	37	226	2,227
Relatives in married-couple families	12,973	61.6	11,472	1,502	11.6	8,104	776	5,377	368	1,583
16 to 19 years	4,880	50.5	4,171	709	14.5	4,783	117	4,177	21	468
20 to 24 years	4,656	75.5	4,211	445	9.6	1,511	144	1,065	54	248
25 years and over	3,438	65.5	3,090	348	10.1	1,810	515	135	293	867
Women who maintain families	6,583	62.2	5,964	618	9.4	3,998	2,791	178	208	819
Relatives in families maintained by women	5,607	60.3	4,772	834	14.9	3,698	782	1,539	303	1,073
16 to 19 years	1,419	48.5	1,092	327	23.1	1,508	87	1,212	8	201
20 to 24 years	1,605	74.0	1,382	223	13.9	564	133	265	39	127
25 years and over	2,582	61.4	2,298	284	11.0	1,626	562	62	256	745
Men who maintain families	2,030	75.6	1,913	117	5.8	655	46	25	102	482
Relatives in families maintained by men	1,676	62.3	1,521	155	9.2	1,016	354	258	86	318
16 to 19 years	287	53.8	239	48	16.6	247	19	172	1	54
20 to 24 years	464	75.4	410	54	11.6	151	44	67	7	33
25 years and over	925	59.9	872	53	5.7	618	291	19	78	231

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

NOTE: Estimates shown in this table for husbands, wives, and women

who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in aggregating the data.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-11. Unemployed persons by marital status, race, age, and sex

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
Total, 16 years and over	4,177	3,437	6.4	5.2	3,839	3,420	7.3	6.4
Married, spouse present	1,567	1,337	3.8	3.2	1,537	1,284	5.3	4.3
Widowed, divorced, or separated	514	395	8.1	6.1	820	811	7.9	7.6
Single (never married)	2,095	1,705	12.0	9.7	1,482	1,325	11.1	9.8
White, 16 years and over	3,104	2,590	5.4	4.5	2,772	2,443	6.2	5.3
Married, spouse present	1,306	1,121	3.5	3.0	1,269	1,039	4.9	4.0
Widowed, divorced, or separated	371	276	7.0	5.1	578	561	7.0	6.6
Single (never married)	1,426	1,193	9.8	8.1	926	843	8.6	7.7
Black, 16 years and over	929	716	14.7	11.1	943	903	14.9	13.8
Married, spouse present	197	170	6.4	5.3	197	206	8.5	8.6
Widowed, divorced, or separated	137	109	14.2	11.5	220	233	12.0	12.4
Single (never married)	595	437	25.9	18.9	527	464	24.2	20.2
Total, 25 years and over	2,551	2,135	4.8	3.9	2,393	2,133	5.7	4.9
Married, spouse present	1,422	1,211	3.6	3.0	1,224	1,043	4.6	3.8
Widowed, divorced, or separated	479	374	7.8	6.0	743	745	7.5	7.3
Single (never married)	650	551	8.3	6.8	426	345	7.7	5.9
White, 25 years and over	1,954	1,634	4.2	3.4	1,760	1,523	4.9	4.2
Married, spouse present	1,183	1,017	3.3	2.8	1,017	843	4.3	3.5
Widowed, divorced, or separated	348	264	6.9	5.1	514	515	6.5	6.4
Single (never married)	423	353	6.6	5.3	230	165	5.4	3.7
Black, 25 years and over	511	421	10.2	8.2	549	554	11.0	10.6
Married, spouse present	183	148	6.2	4.9	149	167	7.1	7.6
Widowed, divorced, or separated	129	100	13.7	10.8	212	214	11.9	11.7
Single (never married)	199	174	17.6	15.0	189	173	17.1	14.3

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
Total, 16 years and over	8,015	6,857	6.8	5.7	6.4	5.2	7.3	6.4
Managerial and professional specialty	735	689	2.7	2.4	2.4	2.0	3.0	2.9
Executive, administrative, and managerial	386	374	2.9	2.7	2.4	2.2	3.8	3.4
Professional specialty	350	315	2.4	2.1	2.4	1.7	2.5	2.6
Technical, sales, and administrative support	1,784	1,622	4.9	4.4	3.8	3.3	5.5	5.0
Technicians and related support	106	112	2.9	3.1	2.5	2.7	3.4	3.6
Sales occupations	744	670	5.3	4.7	3.6	3.0	7.2	6.6
Administrative support, including clerical	934	840	5.0	4.4	5.1	4.4	5.0	4.4
Service occupations	1,360	1,197	8.6	7.5	7.8	6.9	9.1	7.9
Private household	84	44	8.3	5.1	(¹)	(¹)	8.4	5.0
Protective service	97	102	5.5	5.2	4.2	4.5	14.6	9.2
Service, except private household and protective	1,179	1,051	9.1	8.0	9.1	7.8	9.1	8.1
Precision production, craft, and repair	864	742	6.0	5.1	5.8	5.0	7.8	6.0
Mechanics and repairers	199	162	4.3	3.4	4.4	3.4	2.4	3.1
Construction trades	401	393	7.3	7.2	7.2	7.2	13.0	10.1
Other precision production, craft, and repair	264	187	6.0	4.3	5.5	3.9	8.0	6.0
Operators, fabricators, and laborers	1,925	1,502	10.0	7.8	9.7	7.4	11.1	8.9
Machine operators, assemblers, and inspectors	857	657	9.7	7.4	8.8	6.4	11.0	8.9
Transportation and material moving occupations	325	277	6.6	5.5	6.7	5.5	5.8	5.6
Handlers, equipment cleaners, helpers, and laborers	743	568	13.7	10.5	13.7	10.5	13.7	10.4
Construction laborers	188	151	18.4	15.4	18.2	15.3	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	555	418	12.6	9.4	12.4	9.2	13.3	10.0
Farming, forestry, and fishing	260	219	6.7	5.8	5.9	5.5	10.9	7.3
No previous work experience	1,023	854						
16 to 19 years	665	565						
20 to 24 years	230	146						
25 years and over	127	142						

¹ Data not shown where base is less than 75,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
Total, 16 years and over	8,015	6,857	6.8	5.7	6.4	5.2	7.3	6.4
Nonagricultural private wage and salary workers	5,948	5,095	6.7	5.7	6.4	5.4	7.1	6.0
Mining	109	49	11.7	5.8	12.7	5.6	6.6	7.1
Construction	642	604	10.2	9.6	10.3	9.8	9.2	7.6
Manufacturing	1,482	1,191	6.7	5.4	5.8	4.9	8.6	6.4
Durable goods	818	680	6.2	5.2	5.6	5.0	7.8	5.8
Lumber and wood products	54	55	7.0	7.0	7.1	6.7	6.2	9.3
Furniture and fixtures	49	28	7.3	4.3	6.8	4.4	8.5	4.2
Stone, clay, and glass products	42	40	6.1	5.9	4.2	6.2	13.0	4.8
Primary metal industries	90	56	10.9	6.6	10.8	5.7	11.4	11.1
Fabricated metal products	90	75	6.6	5.6	6.2	5.3	8.1	6.9
Machinery, except electrical	144	129	5.7	5.0	5.8	4.6	5.3	6.1
Electrical machinery, equipment, and supplies	161	96	6.8	4.4	4.9	3.4	9.6	5.7
Transportation equipment	123	149	4.5	5.5	4.5	5.4	4.7	5.9
Automobiles	77	106	5.9	8.4	5.3	7.6	8.3	11.4
Other transportation equipment	46	44	3.2	3.1	3.7	3.5	1.3	1.6
Professional and photographic equipment	32	27	4.5	3.6	2.1	3.5	8.3	3.8
Other durable goods industries	34	24	6.5	4.6	4.5	5.6	8.7	3.4
Nondurable goods	665	511	7.5	5.8	6.2	4.8	9.3	7.0
Food and kindred products	196	139	9.9	7.2	8.6	6.2	12.6	9.0
Textile mill products	49	47	6.7	6.5	7.1	4.8	6.2	8.0
Apparel and other textile products	129	106	10.0	8.3	8.7	6.7	10.5	8.8
Paper and allied products	19	41	2.7	5.3	2.2	5.1	4.2	5.9
Printing and publishing	93	81	5.4	4.5	3.4	4.8	8.0	4.1
Chemicals and allied products	90	46	7.0	3.7	5.8	3.2	9.6	5.0
Rubber and miscellaneous plastics products	59	33	7.8	4.4	7.0	3.9	9.0	5.5
Other nondurable goods industries	31	18	8.2	4.5	7.8	3.0	7.3	8.0
Transportation and public utilities	287	240	4.6	3.8	4.3	3.6	5.3	4.5
Transportation	197	183	5.6	5.1	5.6	5.1	5.4	5.0
Communications and other public utilities	90	57	3.3	2.1	2.4	1.1	5.2	4.0
Wholesale and retail trade	1,674	1,428	7.5	6.3	6.4	5.3	8.6	7.3
Wholesale trade	212	173	5.0	3.9	4.8	3.8	5.4	4.4
Retail trade	1,462	1,255	8.1	6.9	7.0	5.9	9.1	7.7
Finance, insurance, and real estate	276	229	3.9	3.1	3.9	2.8	3.9	3.3
Service industries	1,478	1,354	6.3	5.6	6.0	5.3	6.5	5.8
Professional services	532	544	4.1	4.0	3.3	2.7	4.4	4.6
Other service industries	946	810	9.1	7.6	8.0	7.2	10.0	7.9
Agricultural wage and salary workers	203	132	11.4	7.3	10.3	6.8	15.2	9.5
Government, self-employed, and unpaid family workers	840	776	3.1	2.8	3.1	2.2	3.2	3.5
No previous work experience	1,023	854	-	-	-	-	-	-

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	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
NUMBER OF UNEMPLOYED												
Total unemployed	8,015	6,857	3,430	2,783	3,167	2,833	1,418	1,240	5,876	5,033	1,872	1,619
Job losers	3,619	2,942	2,218	1,789	1,182	969	218	184	2,649	2,210	847	667
On layoff	824	643	527	432	264	178	33	33	692	524	111	113
Other job losers	2,795	2,299	1,691	1,357	918	791	185	151	1,957	1,686	736	554
Job leavers	1,135	1,086	497	423	455	485	183	178	940	862	177	184
Reentrants	2,241	1,975	597	486	1,290	1,175	354	314	1,601	1,397	539	525
New entrants	1,021	854	118	85	240	205	663	565	686	564	308	244
PERCENT DISTRIBUTION												
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	42.9	64.7	64.3	37.4	34.2	15.4	14.8	45.1	43.9	45.3	41.2
On layoff	10.3	9.4	15.4	15.5	8.4	6.3	2.3	2.7	11.8	10.4	6.0	7.0
Other job losers	34.9	33.5	49.3	48.8	29.0	27.9	13.1	12.1	33.3	33.5	39.3	34.2
Job leavers	14.2	15.8	14.5	15.2	14.4	17.1	12.9	14.4	16.0	17.1	9.5	11.4
Reentrants	28.0	28.8	17.4	17.5	40.7	41.5	24.9	25.3	27.2	27.8	28.8	32.4
New entrants	12.7	12.5	3.4	3.0	7.6	7.2	46.8	45.5	11.7	11.2	16.5	15.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	3.1	2.4	3.7	2.9	2.4	2.0	2.8	2.4	2.6	2.1	6.7	5.1
Job leavers	1.0	.9	.8	.7	.9	1.0	2.4	2.4	.9	.8	1.4	1.4
Reentrants	1.9	1.6	1.0	.8	2.6	2.3	4.7	4.2	1.6	1.4	4.3	4.0
New entrants .....	.9	.7	.2	.1	.5	.4	8.8	7.5	.7	.5	2.4	1.9

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	September 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	6,857	100.0	49.5	25.7	24.8	10.9	14.0
Job losers	2,942	100.0	37.6	27.0	35.4	15.0	20.4
On layoff	643	100.0	59.9	21.0	19.1	10.8	8.3
Other job losers	2,299	100.0	31.3	28.7	40.0	16.2	23.8
Job leavers	1,086	100.0	59.7	21.7	18.6	6.1	12.5
Reentrants	1,975	100.0	58.1	26.0	15.9	7.4	8.6
New entrants	854	100.0	57.2	26.1	16.7	10.6	6.1
Men, 20 years and over	2,783	100.0	39.2	25.3	35.5	13.2	22.2
Job losers	1,789	100.0	34.2	25.0	40.8	15.7	25.1
On layoff	432	100.0	57.2	21.7	21.1	11.6	9.5
Other job losers	1,357	100.0	26.9	26.1	47.0	17.0	30.0
Job leavers	423	100.0	51.6	22.3	26.2	6.7	19.4
Reentrants	486	100.0	47.1	28.4	24.5	8.5	16.0
New entrants	85	100.0	37.9	29.0	33.1	20.3	12.9
Women, 20 years and over	2,833	100.0	51.3	27.4	21.3	10.5	10.9
Job losers	969	100.0	37.4	31.3	31.3	15.8	15.4
On layoff	178	100.0	61.0	21.4	17.6	10.7	6.8
Other job losers	791	100.0	32.1	33.6	34.3	17.0	17.4
Job leavers	485	100.0	61.0	22.0	17.0	6.8	10.2
Reentrants	1,175	100.0	57.6	27.2	15.2	7.5	7.7
New entrants	205	100.0	57.4	22.7	19.8	11.0	8.8
Both sexes, 16 to 19 years	1,240	100.0	68.3	22.9	8.8	6.4	2.4
Job losers	184	100.0	71.4	23.2	5.4	4.1	1.3
On layoff	33	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	151	100.0	67.4	26.3	6.4	4.8	1.6
Job leavers	178	100.0	75.6	19.4	5.0	2.6	2.4
Reentrants	314	100.0	77.3	17.6	5.2	4.9	.2
New entrants	565	100.0	60.0	26.9	13.1	9.1	4.1

¹ 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	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
Total, 16 years and over	8,015	6,857	100.0	100.0	6,321	5,228	100.0	100.0
Less than 5 weeks	3,594	3,391	44.8	49.5	2,456	2,253	38.9	43.1
5 to 14 weeks	2,323	1,764	29.0	25.7	1,954	1,442	30.9	27.6
5 to 10 weeks	1,675	1,250	20.9	18.2	1,414	1,036	22.4	19.8
11 to 14 weeks	648	515	8.1	7.5	540	407	8.5	7.8
15 weeks and over	2,097	1,701	26.2	24.8	1,911	1,532	30.2	29.3
15 to 26 weeks	908	744	11.3	10.9	802	649	12.7	12.4
27 weeks and over	1,190	957	14.8	14.0	1,109	884	17.5	16.9
27 to 51 weeks	474	411	5.9	6.0	444	384	7.0	7.3
52 weeks and over	715	546	8.9	8.0	665	500	10.5	9.6
Average (mean) duration, in weeks	15.0	13.9			17.0	16.0		
Median duration, in weeks	6.3	5.1			7.8	6.8		

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
	September 1987										
Total, 16 years and over	6,857	3,391	1,764	744	957	13.9	5.1	44.8	49.5	26.2	24.8
16 to 19 years	1,240	847	284	79	30	6.2	3.7	58.9	68.3	10.3	8.8
20 to 24 years	1,348	761	349	124	114	9.9	4.4	49.2	56.5	22.8	17.7
25 to 34 years	1,898	875	526	229	268	13.6	5.9	41.5	46.1	27.1	26.2
35 to 44 years	1,259	527	344	149	239	17.7	7.2	38.9	41.9	31.5	30.8
45 to 54 years	629	231	129	91	177	23.4	10.2	36.5	36.8	37.5	42.7
55 to 64 years	394	115	109	62	108	24.8	11.5	33.5	29.2	46.4	43.1
65 years and over	89	35	23	9	21	23.3	8.5	43.6	39.4	35.2	34.5
Men, 16 years and over	3,437	1,540	852	409	636	16.9	6.5	40.4	44.8	30.2	30.4
16 to 19 years	1,240	847	284	79	30	6.2	3.6	56.0	68.6	11.8	8.9
20 to 24 years	648	352	163	71	63	11.0	4.6	46.7	54.3	24.4	20.6
25 to 34 years	909	380	239	118	173	16.4	7.5	36.7	41.7	31.7	32.0
35 to 44 years	597	178	161	86	172	24.5	11.9	31.5	29.8	37.0	43.3
45 to 54 years	369	115	71	53	129	27.6	14.6	29.1	31.3	45.9	49.5
55 to 64 years	218	53	59	36	70	28.0	14.3	30.8	24.3	51.0	48.8
65 years and over	43	14	13	3	13	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,420	1,851	913	335	321	11.0	4.6	49.7	54.1	21.8	19.2
16 to 19 years	653	399	137	38	13	6.3	3.7	62.2	67.9	8.7	8.8
20 to 24 years	700	409	186	53	51	8.8	4.3	52.0	58.5	21.1	14.9
25 to 34 years	989	495	287	111	96	11.0	5.0	46.2	50.1	22.8	20.9
35 to 44 years	663	350	184	63	67	11.6	4.7	47.0	52.7	25.6	19.5
45 to 54 years	260	116	58	38	48	17.5	7.0	44.4	44.7	28.5	33.1
55 to 64 years	176	62	51	26	37	20.8	9.7	37.8	35.2	39.4	36.0
65 years and over	46	21	10	7	8	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,033	2,551	1,292	526	664	13.6	4.9	45.7	50.7	25.5	23.6
Men	2,590	1,177	644	317	452	16.7	6.3	41.1	45.4	29.6	29.7
Women	2,443	1,374	648	209	212	10.3	4.4	50.9	56.2	21.0	17.2
Black, 16 years and over	1,619	734	421	193	271	15.2	6.5	41.8	45.3	28.2	28.7
Men	716	292	181	77	167	18.2	8.7	37.8	40.7	32.5	34.0
Women	903	442	240	116	104	12.9	5.3	45.7	49.0	23.9	24.4
Men, 16 years and over:											
Married, spouse present	1,337	459	362	187	330	20.9	9.9	32.2	34.3	39.7	38.7
Widowed, divorced, or separated	395	119	98	58	119	24.5	12.7	38.3	30.2	31.9	45.0
Single (never married)	1,705	962	392	164	187	11.9	4.4	47.1	56.4	22.7	20.6
Women, 16 years and over:											
Married, spouse present	1,284	697	363	117	106	10.4	4.6	50.4	54.3	21.0	17.4
Widowed, divorced, or separated	811	370	218	99	124	14.8	6.2	41.1	45.7	32.0	27.5
Single (never married)	1,325	784	332	119	91	9.2	4.2	53.7	59.2	17.0	15.8

¹ 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	
	September 1987							Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
OCCUPATION											
Managerial and professional specialty	689	290	200	89	110	15.9	7.4	41.5	42.1	28.0	28.9
Technical, sales, and administrative support	1,622	806	470	176	170	11.8	5.1	47.8	49.7	23.6	21.3
Service occupations	1,197	680	271	91	154	12.5	4.4	46.6	56.9	26.1	20.5
Precision production, craft, and repair	742	328	176	79	158	17.5	6.8	38.4	44.3	31.5	32.0
Operators, fabricators, and laborers	1,502	668	361	187	286	17.2	6.6	42.5	44.5	31.5	31.5
Farming, forestry, and fishing	219	120	51	24	24	12.7	4.6	47.5	54.6	23.0	22.0
INDUSTRY*											
Agriculture	132	65	34	18	15	14.4	5.1	49.5	48.9	24.8	25.3
Construction	636	301	149	81	105	14.1	5.8	45.9	47.3	22.4	29.3
Manufacturing	1,193	537	252	162	242	18.3	6.7	36.4	45.0	36.4	33.9
Durable goods	683	288	158	98	138	18.2	7.6	33.5	42.2	41.4	34.6
Nondurable goods	510	249	93	64	104	18.4	5.4	40.0	48.7	30.3	32.9
Transportation and public utilities	290	126	82	28	55	17.3	6.5	44.5	43.4	33.3	28.5
Wholesale and retail trade	1,445	738	378	132	196	13.0	4.9	46.0	51.1	24.8	22.7
Finance and service industries	1,903	980	528	192	203	12.1	5.0	47.3	51.5	24.1	20.8
Public administration	225	91	67	27	41	16.5	7.5	44.6	40.2	27.3	29.9
No previous work experience	854	488	223	91	52	9.7	4.4	49.1	57.2	16.6	16.7

* Includes wage and salary workers only.

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

Sex, age, and race	September 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	6,857	6,035	20.9	5.9	75.2	34.9	15.7	5.6	1.58
16 to 19 years	1,240	1,180	11.9	3.3	79.7	27.5	13.9	5.1	1.41
20 to 24 years	1,348	1,182	18.9	6.3	74.0	33.2	12.9	3.0	1.48
25 to 34 years	1,898	1,660	25.0	5.3	75.1	38.4	14.2	5.1	1.63
35 to 44 years	1,259	1,088	26.7	7.1	74.8	39.0	17.9	6.9	1.72
45 to 54 years	629	520	24.4	9.2	72.1	37.5	20.6	8.3	1.72
55 to 64 years	394	323	16.1	7.4	75.9	33.7	23.8	9.6	1.67
65 years and over	89	83	14.5	9.6	51.8	30.1	19.3	7.2	1.33
Men, 16 years and over	3,437	2,889	21.6	5.1	76.2	32.8	18.9	6.6	1.61
16 to 19 years	653	607	11.4	1.5	80.4	26.9	17.0	4.8	1.42
20 to 24 years	648	549	20.9	6.7	73.2	33.2	16.4	2.9	1.53
25 to 34 years	909	740	25.3	4.1	78.2	35.0	16.6	5.0	1.64
35 to 44 years	597	477	29.8	6.7	75.9	37.1	21.0	9.2	1.80
45 to 54 years	369	294	25.9	8.2	74.1	34.0	27.2	12.2	1.82
55 to 64 years	218	183	15.8	7.7	69.9	32.2	24.0	15.8	1.66
65 years and over	43	39	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,420	3,147	20.1	6.7	74.4	36.9	12.7	4.5	1.55
16 to 19 years	587	573	12.4	5.2	78.7	28.3	10.6	5.4	1.41
20 to 24 years	700	633	17.1	5.8	74.7	33.5	9.8	3.0	1.44
25 to 34 years	989	920	24.8	6.4	72.6	41.1	12.3	5.1	1.62
35 to 44 years	663	610	24.4	7.4	74.3	40.7	15.6	5.2	1.68
45 to 54 years	260	226	22.6	10.6	69.9	42.5	12.4	2.7	1.61
55 to 64 years	176	141	16.3	7.1	83.0	35.5	22.7	2.1	1.67
65 years and over	46	44	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,033	4,373	19.9	6.6	75.1	36.7	15.8	6.1	1.60
Men	2,590	2,140	21.2	5.7	75.5	34.7	19.0	7.2	1.63
Women	2,443	2,232	18.7	7.4	74.6	38.6	12.7	5.0	1.57
Black, 16 years and over	1,619	1,477	24.1	4.3	75.5	30.3	14.2	4.1	1.52
Men	716	634	23.0	3.2	79.2	27.4	15.5	5.5	1.54
Women	903	843	24.9	5.1	72.7	32.6	13.0	3.2	1.52

¹ 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	September 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	6,857	6,035	20.9	5.9	75.2	34.9	15.7	5.6	1.58
Job losers ¹	2,942	2,305	27.2	6.6	77.4	35.7	17.4	5.8	1.70
Job leavers	1,086	1,073	17.7	6.0	74.9	40.3	14.8	5.2	1.59
Reentrants	1,975	1,821	19.8	5.5	70.4	34.7	15.0	6.2	1.52
New entrants	854	835	9.9	4.7	80.4	26.8	13.5	3.8	1.39
Men, 16 years and over	3,437	2,889	21.6	5.1	76.2	32.8	18.9	6.6	1.61
Job losers ¹	1,915	1,455	26.0	6.3	77.0	33.5	19.0	7.1	1.69
Job leavers	527	518	20.3	4.6	77.2	34.9	16.2	3.1	1.56
Reentrants	657	589	17.5	3.7	70.1	31.2	21.6	10.4	1.54
New entrants	338	328	11.6	3.4	81.1	29.6	17.4	3.4	1.46
Women, 16 years and over	3,420	3,147	20.1	6.7	74.4	36.9	12.7	4.5	1.55
Job losers ¹	1,026	850	29.1	7.2	77.8	39.5	14.6	3.6	1.72
Job leavers	559	556	15.3	7.2	72.7	45.1	13.5	7.2	1.61
Reentrants	1,318	1,232	20.9	6.5	70.5	36.2	11.8	4.1	1.50
New entrants	516	507	8.9	5.5	80.1	25.0	11.2	4.1	1.35

¹ Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.
NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within 30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
All industries	110,229	113,027	61,243	62,622	48,986	50,405
16 to 19 years	6,143	6,305	3,207	3,248	2,936	3,057
16 to 17 years	2,542	2,614	1,337	1,320	1,204	1,294
18 to 19 years	3,601	3,691	1,870	1,928	1,732	1,762
20 to 24 years	13,673	13,438	7,170	7,062	6,504	6,377
25 to 54 years	75,987	78,697	42,454	43,746	33,533	34,952
25 to 34 years	32,605	33,454	18,345	18,766	14,261	14,688
35 to 44 years	26,330	27,557	14,505	15,144	11,825	12,413
45 to 54 years	17,052	17,686	9,605	9,835	7,447	7,851
55 to 64 years	11,452	11,476	6,663	6,669	4,789	4,808
55 to 59 years	6,951	6,964	4,030	4,002	2,921	2,962
60 to 64 years	4,501	4,513	2,633	2,666	1,868	1,846
65 years and over	2,974	3,110	1,749	1,897	1,225	1,212
Agriculture	3,266	3,277	2,586	2,627	680	650
16 to 19 years	246	229	211	194	34	35
16 to 17 years	126	111	102	97	24	13
18 to 19 years	120	119	109	97	11	22
20 to 24 years	393	383	330	329	63	54
25 to 54 years	1,852	1,901	1,398	1,468	454	433
25 to 34 years	787	615	622	646	164	169
35 to 44 years	580	611	426	472	153	139
45 to 54 years	486	476	350	350	136	125
55 to 64 years	485	459	392	366	93	93
55 to 59 years	269	234	208	173	61	61
60 to 64 years	216	226	184	193	32	33
65 years and over	290	305	254	270	36	35
Nonagricultural industries	106,963	109,750	58,657	59,995	48,306	49,755
16 to 19 years	5,897	6,076	2,996	3,054	2,902	3,022
16 to 17 years	2,416	2,504	1,235	1,223	1,180	1,281
18 to 19 years	3,481	3,572	1,760	1,831	1,721	1,741
20 to 24 years	13,280	13,055	6,839	6,732	6,441	6,323
25 to 54 years	74,135	76,797	41,056	42,278	33,079	34,519
25 to 34 years	31,819	32,639	17,722	18,121	14,096	14,519
35 to 44 years	25,750	26,947	14,079	14,672	11,672	12,274
45 to 54 years	16,566	17,210	9,255	9,485	7,311	7,725
55 to 64 years	10,967	11,017	6,271	6,303	4,696	4,714
55 to 59 years	6,682	6,730	3,822	3,829	2,860	2,901
60 to 64 years	4,285	4,287	2,449	2,474	1,836	1,813
65 years and over	2,684	2,805	1,495	1,627	1,189	1,178

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	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
Total	110,229	113,027	61,243	62,622	58,036	59,373	48,986	50,405	46,051	47,349
Managerial and professional specialty	26,903	28,107	15,226	15,743	15,165	15,656	11,676	12,364	11,577	12,276
Executive, administrative, and managerial	12,888	13,692	8,151	8,577	8,130	8,545	4,737	5,116	4,695	5,074
Officials and administrators, public administration	550	568	314	334	313	332	237	234	236	234
Other executive, administrative, and managerial	8,959	9,476	6,025	6,372	6,007	6,346	2,934	3,104	2,899	3,072
Management-related occupations	3,379	3,648	1,813	1,871	1,809	1,667	1,566	1,777	1,559	1,768
Professional specialty	14,014	14,415	7,075	7,167	7,036	7,112	6,939	7,248	6,882	7,202
Engineers	1,784	1,722	1,666	1,610	1,664	1,608	118	112	117	112
Mathematical and computer scientists	616	656	380	406	379	407	236	249	232	250
Natural scientists	407	417	304	318	304	318	103	99	103	99
Health diagnosing occupations	721	842	618	690	618	690	103	152	104	152
Health assessment and treating occupations	2,026	2,203	278	294	278	290	1,748	1,909	1,747	1,909
Teachers, college and university	629	601	380	352	380	349	249	249	245	246
Teachers, except college and university	3,541	3,538	972	950	966	939	2,569	2,588	2,549	2,570
Lawyers and judges	644	665	538	541	535	541	106	124	106	125
Other professional specialty occupations	3,646	3,770	1,939	2,004	1,911	1,970	1,707	1,766	1,680	1,739
Technical, sales, and administrative support	34,414	35,080	12,053	12,308	11,484	11,673	22,361	22,771	20,816	21,200
Technicians and related support	3,532	3,432	1,909	1,741	1,870	1,714	1,624	1,692	1,607	1,676
Health technologists and technicians	1,166	1,223	194	213	191	205	972	1,010	962	1,000
Engineering and science technicians	1,182	1,063	963	842	942	829	219	221	216	219
Technicians, except health, engineering, and science	1,185	1,146	752	686	738	680	432	460	429	457
Sales occupations	13,171	13,470	6,791	7,007	6,420	6,620	6,380	6,463	5,469	5,518
Supervisors and proprietors	3,448	3,562	2,412	2,380	2,378	2,371	1,036	1,182	1,014	1,151
Sales representatives, finance and business services	2,275	2,295	1,342	1,348	1,326	1,338	933	947	908	912
Sales representatives, commodities, except retail	1,499	1,567	1,199	1,301	1,187	1,300	300	266	290	253
Sales workers, retail and personal services	5,903	5,985	1,823	1,954	1,515	1,591	4,080	4,031	3,228	3,165
Sales-related occupations	45	61	15	23	14	21	31	38	29	38
Administrative support, including clerical	17,711	18,177	3,353	3,561	3,194	3,339	14,358	14,616	13,739	14,005
Supervisors	713	767	291	312	291	310	422	455	420	451
Computer equipment operators	801	944	245	316	236	304	556	627	529	610
Secretaries, stenographers, and typists	5,124	4,930	79	87	75	82	5,045	4,843	4,837	4,662
Financial records processing	2,398	2,372	185	196	176	190	2,212	2,176	2,169	2,139
Mail and message distributing	931	964	638	622	613	595	292	343	287	327
Other administrative support, including clerical	7,745	8,200	1,914	2,028	1,802	1,858	5,831	6,172	5,496	5,816
Service occupations	14,426	14,754	5,533	5,783	4,647	4,879	8,893	8,972	7,845	7,859
Private household	933	816	22	26	22	22	911	790	735	654
Protective service	1,678	1,856	1,487	1,599	1,456	1,554	191	257	181	249
Service, except private household and protective	11,816	12,082	4,024	4,158	3,169	3,302	7,791	7,924	6,928	6,957
Food service	5,033	5,165	1,847	1,893	1,224	1,276	3,186	3,272	2,558	2,557
Health service	1,856	1,771	159	187	154	170	1,697	1,585	1,615	1,511
Cleaning and building service	2,831	2,828	1,610	1,622	1,429	1,479	1,221	1,206	1,163	1,145
Personal service	2,096	2,317	408	455	362	377	1,687	1,862	1,591	1,743
Precision production, craft, and repair	13,589	13,714	12,460	12,557	12,113	12,227	1,129	1,157	1,100	1,139
Mechanics and repairers	4,405	4,541	4,277	4,375	4,157	4,259	128	167	124	165
Construction trades	5,078	5,047	4,990	4,933	4,829	4,772	88	114	86	112
Other precision production, craft, and repair	4,106	4,126	3,193	3,249	3,126	3,196	913	876	890	862
Operators, fabricators, and laborers	17,285	17,796	12,932	13,189	11,882	12,189	4,353	4,606	4,177	4,377
Machine operators, assemblers, and inspectors	7,992	8,163	4,791	4,762	4,607	4,590	3,200	3,401	3,100	3,291
Manufacturing industries	6,744	6,812	4,012	3,930	3,872	3,813	2,732	2,881	2,651	2,811
Durable goods	3,736	3,811	2,600	2,594	2,525	2,529	1,137	1,216	1,109	1,191
Non durable goods	3,007	3,001	1,412	1,336	1,348	1,285	1,595	1,665	1,542	1,620
Nonmanufacturing industries	1,248	1,352	779	832	735	777	469	520	449	481
Transportation and material moving occupations	4,599	4,785	4,217	4,438	4,097	4,319	382	347	369	339
Motor vehicle operators	3,420	3,523	3,077	3,208	2,985	3,106	343	315	333	306
Other transportation and material moving occupations	1,179	1,262	1,139	1,230	1,112	1,213	39	32	35	32
Handlers, equipment cleaners, helpers, and laborers	4,694	4,847	3,924	3,989	3,178	3,279	770	858	709	747
Construction laborers	835	829	816	799	740	720	19	31	20	30
Other handlers, equipment cleaners, helpers, and laborers	3,859	4,018	3,108	3,190	2,437	2,559	751	827	689	717
Farming, forestry, and fishing	3,613	3,577	3,038	3,041	2,744	2,749	574	536	536	497
Farm operators and managers	1,385	1,336	1,180	1,119	1,171	1,114	205	217	204	211
Other farming, forestry, and fishing occupations	2,228	2,240	1,859	1,921	1,574	1,635	369	319	331	286

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
TOTAL						
Total, 16 years and over (thousands)	110,229	113,027	61,243	62,622	48,986	50,405
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.4	24.9	24.9	25.1	23.8	24.5
Executive, administrative, and managerial	11.7	12.1	13.3	13.7	9.7	10.1
Professional specialty	12.7	12.8	11.6	11.4	14.2	14.4
Technical, sales, and administrative support	31.2	31.0	19.7	19.7	45.6	45.2
Technicians and related support	3.2	3.0	3.1	2.8	3.3	3.4
Sales occupations	11.9	11.9	11.1	11.2	13.0	12.8
Administrative support, including clerical	16.1	16.1	5.5	5.7	29.3	29.0
Service occupations	13.1	13.1	9.0	9.2	18.2	17.8
Private household .....	.8	.7	(¹)	(¹)	1.9	1.6
Protective service	1.5	1.6	2.4	2.6	.4	.5
Service, except private household and protective	10.7	10.7	6.6	6.6	15.9	15.7
Precision production, craft, and repair	12.3	12.1	20.3	20.1	2.3	2.3
Operators, fabricators, and laborers	15.7	15.7	21.1	21.1	8.9	9.1
Machine operators, assemblers, and inspectors	7.3	7.2	7.8	7.6	6.5	6.7
Transportation and material moving occupations	4.2	4.2	6.9	7.1	.8	.7
Handlers, equipment cleaners, helpers, and laborers	4.3	4.3	6.4	6.4	1.6	1.7
Farming, forestry, and fishing	3.3	3.2	5.0	4.9	1.2	1.1
White						
Total, 16 years and over (thousands)	96,262	98,261	54,099	55,014	42,164	43,247
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.4	25.9	25.9	26.2	24.8	25.5
Executive, administrative, and managerial	12.4	12.8	14.1	14.5	10.2	10.7
Professional specialty	13.0	13.1	11.8	11.7	14.6	14.8
Technical, sales, and administrative support	31.8	31.5	20.1	20.0	46.8	46.1
Technicians and related support	3.2	3.0	3.2	2.8	3.3	3.3
Sales occupations	12.6	12.5	11.8	11.8	13.8	13.3
Administrative support, including clerical	15.9	16.0	5.2	5.3	29.7	29.5
Service occupations	11.9	11.9	8.1	8.3	16.8	16.5
Private household .....	.7	.6	(¹)	(¹)	1.5	1.3
Protective service	1.4	1.5	2.3	2.4	.3	.5
Service, except private household and protective	9.8	9.8	5.8	5.9	14.9	14.7
Precision production, craft, and repair	12.7	12.7	20.9	20.8	2.3	2.3
Operators, fabricators, and laborers	14.8	14.7	19.9	19.7	8.2	8.4
Machine operators, assemblers, and inspectors	6.8	6.7	7.5	7.2	5.9	6.1
Transportation and material moving occupations	4.0	4.0	6.5	6.6	.8	.7
Handlers, equipment cleaners, helpers, and laborers	4.0	4.0	5.9	5.8	1.5	1.6
Farming, forestry, and fishing	3.4	3.3	5.1	5.0	1.3	1.2
Black						
Total, 16 years and over (thousands)	10,785	11,398	5,404	5,749	5,381	5,649
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	14.9	14.8	13.1	12.7	16.6	17.0
Executive, administrative, and managerial	5.9	6.2	5.8	6.2	5.9	6.2
Professional specialty	9.0	8.6	7.3	6.5	10.7	10.9
Technical, sales, and administrative support	26.4	27.3	14.8	15.7	38.1	39.0
Technicians and related support	2.5	2.7	2.0	1.9	2.9	3.5
Sales occupations	6.4	7.2	5.0	5.1	7.9	9.4
Administrative support, including clerical	17.5	17.3	7.8	8.7	27.2	26.1
Service occupations	23.0	22.2	17.0	17.1	29.0	27.4
Private household	2.2	1.7	.1	.1	4.2	3.4
Protective service	2.4	2.7	3.9	4.3	.9	1.0
Service, except private household and protective	18.4	17.8	13.0	12.7	23.9	23.0
Precision production, craft, and repair	9.2	8.3	15.9	14.5	2.4	1.9
Operators, fabricators, and laborers	24.1	25.1	34.9	35.9	13.4	14.0
Machine operators, assemblers, and inspectors	10.8	11.0	11.5	11.3	10.2	10.7
Transportation and material moving occupations	6.1	6.7	11.4	12.5	.9	.9
Handlers, equipment cleaners, helpers, and laborers	7.2	7.4	12.0	12.2	2.4	2.5
Farming, forestry, and fishing	2.4	2.3	4.2	4.1	.5	.5

¹ Less than 0.05 percent.

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

(In thousands)

Age and sex	September 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	101,229	1,088	16,864	83,277	8,217	303	1,670	1,477	130
16 to 19 years	6,006	213	258	5,534	55	15	187	19	23
16 to 17 years	2,476	128	64	2,284	23	4	91	8	12
18 to 19 years	3,529	85	195	3,250	32	11	96	11	12
20 to 24 years	12,655	110	1,120	11,424	364	36	302	70	10
25 to 34 years	30,615	145	4,383	26,087	1,946	78	527	261	26
35 to 44 years	24,460	190	5,261	19,009	2,424	64	284	312	14
45 to 54 years	15,500	146	3,404	11,950	1,646	64	180	274	22
55 to 64 years	9,756	162	2,059	7,535	1,227	34	124	321	15
55 to 59 years	6,006	94	1,319	4,594	705	19	79	149	6
60 to 64 years	3,750	68	740	2,942	522	15	45	172	9
65 years and over	2,238	121	379	1,738	556	11	67	220	18
Men, 16 years and over	54,558	180	8,065	46,313	5,376	60	1,351	1,222	54
16 to 19 years	3,013	68	143	2,802	29	12	159	12	23
16 to 17 years	1,207	45	31	1,131	13	3	82	4	11
18 to 19 years	1,806	23	112	1,671	16	9	77	8	12
20 to 24 years	6,475	24	514	5,937	234	23	256	65	9
25 to 34 years	16,869	22	2,073	14,774	1,242	9	419	221	5
35 to 44 years	13,106	24	2,457	10,626	1,565	1	220	251	1
45 to 54 years	8,412	17	1,646	6,749	1,067	6	138	212	1
55 to 64 years	5,450	9	1,040	4,400	852	1	97	266	2
55 to 59 years	3,348	5	665	2,677	481	-	59	115	-
60 to 64 years	2,102	3	375	1,723	371	1	39	151	3
65 years and over	1,233	16	192	1,025	386	8	62	195	13
Women, 16 years and over	46,671	908	8,799	36,964	2,841	243	319	255	76
16 to 19 years	2,992	145	115	2,732	26	3	28	7	-
16 to 17 years	1,269	83	33	1,153	11	1	9	4	-
18 to 19 years	1,724	62	82	1,579	16	2	18	3	-
20 to 24 years	6,180	86	606	5,487	130	13	46	6	2
25 to 34 years	13,746	123	2,310	11,313	704	69	108	40	21
35 to 44 years	11,353	166	2,804	8,383	858	63	64	61	14
45 to 54 years	7,088	130	1,758	5,201	579	58	42	62	21
55 to 64 years	4,307	153	1,018	3,135	375	33	26	54	13
55 to 59 years	2,659	89	653	1,917	224	19	20	34	6
60 to 64 years	1,648	65	365	1,218	151	14	6	20	7
65 years and over	1,005	105	186	713	169	4	5	24	5

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	September 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 ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	3,277	80	84	25	16	97		15	29	24	73	10	2,824
Mining	816	125	94	33	14	75		16	258	20	127	51	2
Construction	7,668	966	157	62	57	454		29	4,354	75	564	929	22
Manufacturing	21,252	2,395	1,671	686	692	2,488		327	4,030	6,812	800	1,265	88
Durable goods	12,719	1,467	1,157	454	278	1,442		182	2,816	3,811	422	609	81
Nondurable goods	8,533	928	514	232	414	1,046		145	1,213	3,001	377	657	7
Transportation and public utilities	8,014	914	470	252	303	2,174		266	1,296	117	1,733	472	17
Wholesale and retail trade	23,351	1,993	368	104	9,709	2,285		4,343	1,507	337	930	1,730	45
Wholesale trade	4,639	539	65	42	1,828	786		33	339	142	483	367	15
Retail trade	18,711	1,454	303	61	7,881	1,499		4,311	1,168	195	447	1,362	30
Finance, insurance, and real estate	7,883	1,987	180	159	1,882	3,151	-	269	148	21	8	13	67
Services	35,537	4,083	10,698	1,898	781	6,003	816	7,409	1,845	722	490	344	449
Private households	1,090	2	5	10	2	6	816	100	13	-	2	5	129
Other service industries	34,447	4,081	10,693	1,889	779	5,996		7,309	1,831	722	487	338	320
Professional services	22,808	2,286	9,500	1,591	157	4,258		4,007	367	165	288	94	96
Public administration	5,229	1,149	693	215	15	1,450		1,266	248	36	60	33	63

¹ 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					
	Sept. 1986	Sept. 1987	Total		Wage and salary workers ¹			
			Sept. 1986	Sept. 1987	Paid absences		Unpaid absences	
					Sept. 1986	Sept. 1987	Sept. 1986	Sept. 1987
Total, 16 years and over	4,742	5,804	4,669	5,711	2,425	3,109	1,750	2,054
Vacation	2,500	3,344	2,472	3,308	1,785	2,366	456	678
Illness	1,166	1,254	1,138	1,228	393	484	644	665
Bad weather	33	31	31	22	(²)	(²)	(²)	(²)
Industrial dispute	85	89	85	89	(²)	(²)	(²)	(²)
All other reasons	958	1,085	943	1,065	248	259	650	712
Men, 16 years and over	2,443	2,930	2,384	2,850	1,302	1,694	817	865
Vacation	1,332	1,757	1,308	1,731	1,011	1,321	179	281
Illness	627	672	605	645	199	264	356	335
All other reasons ³	484	500	470	473	92	108	282	249
Women, 16 years and over	2,299	2,874	2,285	2,861	1,122	1,415	935	1,188
Vacation	1,168	1,588	1,163	1,576	773	1,045	278	395
Illness	538	582	533	583	194	220	288	330
All other reasons ³	592	705	587	703	155	150	368	462

¹ Excludes private household workers.

² Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

³ 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.

A-27. Persons at work by hours of work and type of industry

Hours of work	September 1987					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	107,223	3,185	104,038	100.0	100.0	100.0
1 to 34 hours	45,963	1,014	44,949	42.9	31.9	43.2
1 to 4 hours	684	41	643	.6	1.3	.6
5 to 14 hours	4,550	199	4,351	4.2	6.3	4.2
15 to 29 hours	14,539	438	14,101	13.6	13.8	13.6
30 to 34 hours	26,190	336	25,854	24.4	10.6	24.9
35 hours and over	61,260	2,169	59,091	57.1	68.1	56.8
35 to 39 hours	7,084	161	6,923	6.6	5.1	6.7
40 hours	28,663	530	28,133	26.7	16.7	27.0
41 hours and over	25,513	1,478	24,035	23.8	46.4	23.1
41 to 48 hours	8,265	202	8,063	7.7	6.3	7.7
49 to 59 hours	9,481	410	9,071	8.8	12.9	8.7
60 hours and over	7,767	866	6,901	7.2	27.2	6.6
Average hours, total at work	37.1	44.3	36.9			
Average hours, workers on full-time schedules	40.9	51.8	40.6			

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	September 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	45,963	27,986	17,977	44,949	27,601	17,348
Economic reasons	4,937	1,444	3,493	4,650	1,343	3,307
Slack work	2,070	1,075	995	1,899	998	901
Material shortages or repairs to plant and equipment	43	43	-	39	39	-
New job started during week	264	264	-	250	250	-
Job terminated during week	62	62	-	56	56	-
Could find only part-time work	2,497	-	2,497	2,405	-	2,405
Other reasons	41,025	26,540	14,485	40,299	26,258	14,041
Does not want, or unavailable for, full-time work	12,039	-	12,039	11,672	-	11,672
Vacation	1,610	1,610	-	1,584	1,584	-
Illness	886	729	157	866	716	150
Bad weather	282	282	-	219	219	-
Industrial dispute	35	35	-	35	35	-
Legal or religious holiday	22,667	22,667	-	22,534	22,534	-
Full time for this job	1,538	-	1,538	1,506	-	1,506
All other reasons	1,968	1,217	751	1,881	1,167	714
Average hours:						
Economic reasons	21.5	23.4	20.7	21.5	23.4	20.7
Other reasons	26.3	30.2	19.1	26.3	30.2	19.1
Worked 30 to 34 hours:						
Economic reasons	1,335	546	789	1,244	510	734
Other reasons	24,855	22,312	2,543	24,610	22,144	2,466

**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	September 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	104,038	4,650	14,041	85,347	61,312	8,063	15,972	36.9	40.6
Wage and salary workers	96,013	4,045	12,694	79,274	58,214	7,578	13,482	36.6	40.2
Mining	760	19	19	722	388	116	218	43.8	45.0
Construction	5,979	349	261	5,369	3,954	481	934	37.8	39.8
Manufacturing	19,820	415	611	18,794	13,970	2,037	2,787	38.6	39.6
Durable goods	11,862	156	283	11,423	8,606	1,195	1,622	38.7	39.3
Nondurable goods	7,957	260	327	7,370	5,362	843	1,165	38.6	40.0
Transportation and public utilities	7,107	191	392	6,524	4,675	632	1,217	39.3	41.0
Wholesale and retail trade	20,447	1,367	4,762	14,298	9,562	1,742	2,994	35.4	41.7
Finance, insurance, and real estate	6,863	128	637	6,098	4,828	438	832	36.3	38.4
Service industries	30,132	1,492	5,735	22,905	17,206	1,838	3,861	35.0	40.1
Private households	1,040	199	489	352	236	36	78	24.2	43.8
All other industries	29,092	1,293	5,246	22,553	16,968	1,802	3,783	35.4	40.0
Public administration	4,907	62	277	4,568	3,637	294	637	37.8	39.2
Self-employed workers	7,722	587	1,240	5,895	2,996	475	2,424	39.7	46.4
Unpaid family workers	303	18	107	178	102	10	66	35.7	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	September 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		
TOTAL								
Total, 16 years and over	104,038	4,650	14,041	85,347	61,312	24,035	36.9	40.6
16 to 19 years	5,906	509	3,320	2,077	1,710	367	24.9	38.3
16 to 17 years	2,439	92	2,077	270	244	26	18.1	35.7
18 to 19 years	3,467	416	1,242	1,809	1,467	342	29.7	38.7
20 years and over	98,132	4,141	10,721	83,270	59,603	23,667	37.6	40.7
20 to 24 years	12,605	914	2,033	9,658	7,285	2,373	35.4	39.9
25 years and over	85,527	3,228	8,689	73,610	52,317	21,293	37.9	40.7
25 to 44 years	56,674	2,122	4,841	49,711	34,903	14,808	38.4	40.9
45 to 64 years	26,319	999	2,658	22,662	16,505	6,157	37.8	40.6
65 years and over	2,534	107	1,189	1,238	911	327	28.4	40.2
Men, 16 years and over	57,145	2,049	4,150	50,946	33,433	17,513	39.7	42.2
16 to 19 years	2,961	223	1,586	1,152	913	239	26.0	38.9
16 to 17 years	1,189	34	997	158	140	18	18.8	35.8
18 to 19 years	1,772	189	590	993	772	221	30.8	39.3
20 years and over	54,184	1,826	2,564	49,794	32,520	17,274	40.5	42.2
20 to 24 years	6,538	449	800	5,289	3,686	1,603	37.4	41.3
25 years and over	47,646	1,377	1,763	44,506	28,835	15,671	40.9	42.4
25 to 44 years	31,377	920	641	29,816	18,937	10,879	41.5	42.6
45 to 64 years	14,804	408	499	13,897	9,347	4,550	40.6	42.0
65 years and over	1,465	49	623	793	551	242	30.5	41.4
Women, 16 years and over	46,894	2,601	9,891	34,402	27,881	6,521	33.4	38.3
16 to 19 years	2,945	286	1,733	926	798	128	23.8	37.7
16 to 17 years	1,250	58	1,081	111	102	9	17.5	35.5
18 to 19 years	1,695	228	653	814	693	121	28.4	38.0
20 years and over	43,948	2,316	8,158	33,474	27,081	6,393	34.0	38.3
20 to 24 years	6,067	465	1,233	4,369	3,598	771	33.2	38.1
25 years and over	37,881	1,851	6,925	29,105	23,483	5,622	34.1	38.4
25 to 44 years	25,297	1,201	4,200	19,896	15,969	3,927	34.6	38.4
45 to 64 years	11,516	591	2,161	8,764	7,156	1,608	34.0	38.3
65 years and over	1,069	58	565	446	361	85	25.6	38.0
RACE								
White, 16 years and over	90,322	3,768	12,859	73,695	51,763	21,932	36.9	40.8
Men	50,133	1,654	3,746	44,733	28,596	16,137	40.0	42.4
Women	40,189	2,115	9,112	28,962	23,167	5,795	33.1	38.4
Black, 16 years and over	10,563	726	864	8,973	7,506	1,467	36.2	39.0
Men	5,277	312	281	4,684	3,751	933	37.7	40.0
Women	5,285	414	583	4,288	3,756	532	34.6	38.0
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,073	890	1,217	34,966	22,321	12,645	41.3	42.6
Widowed, divorced, or separated	5,480	258	229	4,993	3,209	1,784	40.7	42.6
Single (never married)	14,592	901	2,705	10,986	7,901	3,085	35.4	40.7
Women, 16 years and over:								
Married, spouse present	26,008	1,272	5,899	18,837	15,540	3,297	33.0	37.9
Widowed, divorced, or separated	9,186	569	1,084	7,533	5,854	1,679	35.9	39.4
Single (never married)	11,699	759	2,908	8,032	6,487	1,545	32.3	38.5

**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	September 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 over¹	103,752	4,598	13,959	85,195	61,104	8,087	16,004	36.9	40.6
Managerial and professional specialty	26,601	433	2,315	23,853	15,673	2,070	6,110	39.5	41.8
Executive, administrative, and managerial	13,048	154	606	12,288	7,619	1,143	3,525	41.3	42.7
Professional specialty	13,552	279	1,708	11,565	8,054	927	2,585	37.7	41.0
Technical, sales, and administrative support	33,300	1,176	5,918	26,206	19,978	2,274	3,954	35.3	39.4
Technicians and related support	3,270	60	387	2,823	2,231	233	359	36.3	38.8
Sales occupations	12,853	620	2,638	9,595	5,824	1,079	2,692	37.4	43.2
Administrative support, including clerical	17,178	496	2,894	13,788	11,922	962	903	33.5	36.8
Service occupations	13,993	1,396	3,936	8,661	6,425	797	1,438	32.9	41.5
Private household	773	144	369	260	165	29	66	24.8	44.9
Protective service	1,729	50	150	1,529	931	191	407	42.2	45.4
Service, except private household and protective	11,491	1,202	3,418	6,871	5,329	577	965	32.1	40.5
Precision production, craft, and repair	13,001	610	387	12,005	8,570	1,340	2,095	39.0	40.5
Operators, fabricators, and laborers	16,856	984	1,403	14,470	10,458	1,606	2,406	37.8	40.5
Machine operators, assemblers, and inspectors	7,732	334	350	7,048	5,489	761	798	37.6	39.1
Transportation and material moving occupations	4,484	236	336	3,912	2,315	439	1,158	41.1	44.1
Handlers, equipment cleaners, helpers, and laborers	4,641	413	718	3,510	2,653	406	451	34.9	39.5
Men, 16 years and over¹	56,746	1,989	4,035	50,722	33,183	5,323	12,216	39.8	42.2
Managerial and professional specialty	15,015	191	649	14,175	8,355	1,284	4,536	42.1	43.5
Executive, administrative, and managerial	8,220	86	225	7,908	4,436	788	2,684	43.1	44.1
Professional specialty	6,796	105	423	6,267	3,919	496	1,852	40.9	42.9
Technical, sales, and administrative support	11,775	240	1,131	10,404	6,566	1,128	2,710	40.0	42.6
Technicians and related support	1,676	18	104	1,554	1,180	113	260	38.3	39.7
Sales occupations	6,742	139	656	5,947	3,116	743	2,087	42.1	45.0
Administrative support, including clerical	3,357	83	371	2,903	2,270	271	363	36.6	39.2
Service occupations	5,483	338	1,055	4,091	2,864	373	855	36.7	42.9
Private household	26	1	11	15	8	2	4	(²)	(²)
Protective service	1,490	34	100	1,355	807	164	385	43.3	45.9
Service, except private household and protective	3,967	303	943	2,721	2,049	207	465	34.3	41.4
Precision production, craft, and repair	11,947	552	290	11,105	7,838	1,282	1,984	39.3	40.7
Operators, fabricators, and laborers	12,525	668	910	10,947	7,560	1,256	2,131	38.8	41.4
Machine operators, assemblers, and inspectors	4,522	141	151	4,230	3,118	497	615	39.0	40.1
Transportation and material moving occupations	4,168	195	217	3,755	2,205	422	1,128	42.0	44.3
Handlers, equipment cleaners, helpers, and laborers	3,836	332	542	2,961	2,237	337	388	35.2	39.6
Women, 16 years and over¹	47,006	2,609	9,924	34,473	27,920	2,765	3,788	33.4	38.3
Managerial and professional specialty	11,585	241	1,666	9,678	7,318	786	1,574	36.0	39.4
Executive, administrative, and managerial	4,829	68	381	4,380	3,184	355	841	38.3	40.1
Professional specialty	6,757	174	1,285	5,298	4,134	431	733	34.4	38.7
Technical, sales, and administrative support	21,525	936	4,787	15,802	13,412	1,146	1,244	32.7	37.2
Technicians and related support	1,593	42	283	1,269	1,051	120	98	34.2	37.6
Sales occupations	6,111	481	1,982	3,649	2,708	335	605	32.3	40.3
Administrative support, including clerical	13,821	413	2,523	10,885	9,653	691	541	32.7	36.2
Service occupations	8,510	1,059	2,881	4,570	3,561	425	584	30.5	40.3
Private household	746	143	358	245	157	27	62	24.5	44.7
Protective service	240	16	49	174	124	27	23	34.8	41.9
Service, except private household and protective	7,524	899	2,474	4,150	3,280	370	500	31.0	39.9
Precision production, craft, and repair	1,055	58	97	900	731	58	111	36.0	38.7
Operators, fabricators, and laborers	4,331	316	493	3,523	2,898	350	275	34.7	37.8
Machine operators, assemblers, and inspectors	3,210	193	199	2,818	2,371	264	183	35.6	37.5
Transportation and material moving occupations	317	41	119	157	111	17	29	30.0	39.9
Handlers, equipment cleaners, helpers, and laborers	805	81	175	549	417	69	63	33.1	39.1

¹ Excludes farming, forestry, and fishing occupations.

² 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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Noninstitutional population ¹	182,713	182,935	183,114	183,297	183,575	183,738	183,915	184,079	184,259	184,421	184,605	184,738	184,904
Labor force ¹	119,988	120,163	120,426	120,336	120,782	121,089	120,958	121,070	121,719	121,235	121,672	122,038	121,604
Percent of population ²	65.7	65.7	65.8	65.7	65.8	65.9	65.8	65.8	66.1	65.7	65.9	66.1	65.8
Total employed ¹	111,703	111,941	112,183	112,387	112,759	113,122	113,104	113,570	114,173	113,975	114,447	114,817	114,515
Employment-population ratio ³	61.1	61.2	61.3	61.3	61.4	61.6	61.5	61.7	62.0	61.8	62.0	62.2	61.9
Resident Armed Forces	1,716	1,749	1,751	1,750	1,748	1,740	1,736	1,735	1,726	1,718	1,720	1,736	1,743
Civilian employed	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727	113,081	112,772
Agriculture	3,142	3,162	3,215	3,161	3,145	3,236	3,284	3,290	3,335	3,178	3,219	3,092	3,170
Nonagricultural industries	106,845	107,030	107,217	107,476	107,866	108,146	108,084	108,545	109,112	109,079	109,508	109,989	109,602
Unemployed	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260	7,224	7,221	7,089
Unemployment rate ⁴	6.9	6.8	6.8	6.6	6.6	6.6	6.5	6.2	6.2	6.0	5.9	5.9	5.8
Not in labor force	62,725	62,772	62,688	62,961	62,793	62,649	62,957	63,009	62,540	63,187	62,933	62,700	63,300
Men													
Noninstitutional population ¹	87,556	87,682	87,773	87,868	88,020	88,099	88,186	88,271	88,361	88,442	88,534	88,598	88,683
Labor force ¹	67,128	67,130	67,407	67,425	67,672	67,764	67,644	67,603	67,816	67,556	67,656	67,925	67,736
Percent of population ²	76.7	76.6	76.8	76.7	76.9	76.9	76.7	76.6	76.7	76.4	76.4	76.7	76.4
Total employed ¹	62,528	62,565	62,833	62,986	63,187	63,335	63,282	63,417	63,562	63,471	63,715	63,918	63,939
Employment-population ratio ³	71.4	71.4	71.6	71.7	71.8	71.9	71.8	71.8	71.9	71.8	72.0	72.1	72.1
Resident Armed Forces	1,560	1,590	1,592	1,593	1,591	1,584	1,575	1,575	1,566	1,559	1,561	1,575	1,581
Civilian employed	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996	61,912	62,154	62,343	62,358
Unemployed	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254	4,085	3,941	4,007	3,798
Unemployment rate ⁴	6.9	6.8	6.8	6.6	6.6	6.5	6.4	6.2	6.3	6.0	5.8	5.9	5.6
Not in labor force	20,428	20,552	20,366	20,443	20,348	20,335	20,542	20,668	20,545	20,886	20,878	20,673	20,947
Women													
Noninstitutional population ¹	95,156	95,253	95,341	95,429	95,556	95,639	95,729	95,808	95,898	95,979	96,071	96,140	96,221
Labor force ¹	52,860	53,033	53,019	52,911	53,110	53,325	53,314	53,467	53,903	53,679	54,016	54,113	53,868
Percent of population ²	55.6	55.7	55.6	55.4	55.6	55.8	55.7	55.8	56.2	55.9	56.2	56.3	56.0
Total employed ¹	49,175	49,376	49,350	49,401	49,572	49,787	49,822	50,153	50,611	50,504	50,733	50,899	50,576
Employment-population ratio ³	51.7	51.8	51.8	51.8	51.9	52.1	52.0	52.3	52.8	52.6	52.8	52.9	52.6
Resident Armed Forces	156	159	159	157	157	156	161	160	160	159	159	161	162
Civilian employed	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451	50,345	50,574	50,738	50,414
Unemployed	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292	3,175	3,283	3,213	3,291
Unemployment rate ⁴	7.0	6.9	6.9	6.6	6.7	6.6	6.6	6.2	6.1	5.9	6.1	5.9	6.1
Not in labor force	42,296	42,220	42,322	42,518	42,446	42,314	42,415	42,341	41,995	42,300	42,055	42,027	42,353

¹ Includes members of the Armed Forces stationed in the United States.

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ 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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Civilian noninstitutional population ¹	180,997	181,186	181,363	181,547	181,827	181,998	182,179	182,344	182,533	182,703	182,885	183,002	183,161
Civilian labor force	118,272	118,414	118,675	118,586	119,034	119,349	119,222	119,335	119,993	119,517	119,952	120,302	119,861
Percent of population	65.3	65.4	65.4	65.3	65.5	65.6	65.4	65.4	65.7	65.4	65.6	65.7	65.4
Employed	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727	113,081	112,772
Employment-population ratio ²	60.8	60.8	60.9	60.9	61.1	61.2	61.1	61.3	61.6	61.4	61.6	61.8	61.6
Unemployed	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260	7,224	7,221	7,089
Unemployment rate	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1	6.0	6.0	5.9
Men, 20 years and over													
Civilian noninstitutional population ¹	78,722	78,802	78,874	78,973	79,132	79,216	79,303	79,387	79,474	79,536	79,625	79,668	79,740
Civilian labor force	61,412	61,409	61,703	61,826	61,948	61,973	61,983	61,976	62,156	62,057	62,116	62,053	62,045
Percent of population	78.0	77.9	78.2	78.3	78.3	78.2	78.2	78.1	78.2	78.0	78.0	77.9	77.8
Employed	57,607	57,595	57,883	58,101	58,227	58,325	58,410	58,567	58,721	58,620	58,793	58,818	58,957
Employment-population ratio ²	73.2	73.1	73.4	73.6	73.6	73.6	73.7	73.8	73.9	73.7	73.8	73.8	73.9
Agriculture	2,286	2,297	2,303	2,289	2,254	2,300	2,411	2,411	2,441	2,307	2,343	2,254	2,355
Nonagricultural industries	55,321	55,298	55,580	55,812	55,974	56,024	55,999	56,155	56,280	56,313	56,450	56,564	56,601
Unemployed	3,805	3,814	3,820	3,725	3,720	3,648	3,573	3,409	3,436	3,437	3,323	3,235	3,089
Unemployment rate	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5	5.5	5.4	5.2	5.0
Not in labor force	17,310	17,393	17,171	17,147	17,184	17,243	17,320	17,411	17,318	17,479	17,509	17,615	17,695
Women, 20 years and over													
Civilian noninstitutional population ¹	87,779	87,856	87,933	88,016	88,150	88,237	88,321	88,395	88,464	88,546	88,632	88,685	88,785
Civilian labor force	48,920	49,014	49,043	48,923	49,161	49,348	49,355	49,466	49,774	49,714	49,971	49,989	49,882
Percent of population	55.7	55.8	55.8	55.6	55.8	55.9	55.9	56.0	56.3	56.1	56.4	56.4	56.2
Employed	45,905	46,020	46,067	46,058	46,261	46,475	46,498	46,751	47,094	47,126	47,288	47,324	47,179
Employment-population ratio ²	52.3	52.4	52.4	52.3	52.5	52.7	52.6	52.9	53.2	53.2	53.4	53.4	53.1
Agriculture	614	612	675	621	628	641	589	587	634	615	619	603	585
Nonagricultural industries	45,291	45,408	45,392	45,437	45,633	45,835	45,909	46,164	46,460	46,512	46,669	46,722	46,594
Unemployed	3,015	2,994	2,976	2,865	2,900	2,873	2,857	2,715	2,680	2,588	2,683	2,661	2,703
Unemployment rate	6.2	6.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4	5.2	5.4	5.3	5.4
Not in labor force	38,859	38,842	38,890	39,093	38,989	38,889	38,966	38,929	38,690	38,832	38,661	38,696	38,903
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,496	14,527	14,557	14,558	14,545	14,546	14,555	14,562	14,595	14,621	14,628	14,649	14,637
Civilian labor force	7,940	7,991	7,929	7,837	7,926	8,028	7,884	7,894	8,063	7,746	7,865	8,260	7,933
Percent of population	54.8	55.0	54.5	53.8	54.5	55.2	54.2	54.2	55.2	53.0	53.8	56.4	54.2
Employed	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633	6,511	6,647	6,939	6,636
Employment-population ratio ²	44.7	45.3	44.5	44.5	44.9	45.2	44.4	44.8	45.4	44.5	45.4	47.4	45.3
Agriculture	242	253	237	251	264	295	284	292	261	257	258	236	230
Nonagricultural industries	6,233	6,324	6,245	6,227	6,260	6,287	6,176	6,226	6,372	6,254	6,389	6,703	6,406
Unemployed	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430	1,235	1,218	1,321	1,297
Unemployment rate	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9	15.5	16.0	16.3
Not in labor force	6,556	6,536	6,628	6,721	6,619	6,518	6,671	6,668	6,532	6,875	6,763	6,389	6,704

¹ The population figures are not adjusted for seasonal variation.

² 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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
WHITE													
Civilian noninstitutional population ¹	155,723	155,856	155,979	156,111	156,313	156,431	156,561	156,676	156,811	156,930	157,058	157,134	157,242
Civilian labor force	102,158	102,297	102,455	102,503	102,746	102,893	102,797	102,894	103,573	103,106	103,272	103,614	103,278
Percent of population	65.6	65.6	65.7	65.7	65.7	65.8	65.7	65.7	66.1	65.7	65.8	65.9	65.7
Employed	96,000	96,147	96,281	96,533	96,717	96,995	96,998	97,340	98,050	97,716	97,958	98,299	97,995
Employment-population ratio ²	61.6	61.7	61.7	61.8	61.9	62.0	62.0	62.1	62.5	62.3	62.4	62.6	62.3
Unemployed	6,158	6,150	6,174	5,970	6,029	5,898	5,799	5,554	5,524	5,390	5,314	5,315	5,283
Unemployment rate	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3	5.2	5.1	5.1	5.1
Men, 20 years and over													
Civilian labor force	53,727	53,757	54,015	54,172	54,182	54,175	54,107	54,051	54,314	54,213	54,214	54,164	54,152
Percent of population	78.4	78.3	78.7	78.8	78.7	78.6	78.4	78.3	78.6	78.4	78.3	78.2	78.1
Employed	50,845	50,845	51,089	51,286	51,297	51,362	51,364	51,462	51,755	51,581	51,682	51,714	51,771
Employment-population ratio ²	74.2	74.1	74.4	74.6	74.5	74.5	74.5	74.6	74.9	74.6	74.7	74.7	74.7
Unemployed	2,882	2,912	2,926	2,886	2,885	2,813	2,743	2,589	2,558	2,632	2,532	2,449	2,382
Unemployment rate	5.4	5.4	5.4	5.3	5.3	5.2	5.1	4.8	4.7	4.9	4.7	4.5	4.4
Women, 20 years and over													
Civilian labor force	41,547	41,598	41,540	41,514	41,680	41,762	41,828	41,982	42,239	42,159	42,280	42,418	42,312
Percent of population	55.2	55.2	55.1	55.0	55.2	55.2	55.3	55.5	55.8	55.6	55.7	55.9	55.7
Employed	39,365	39,431	39,399	39,456	39,568	39,735	39,839	40,041	40,343	40,318	40,379	40,535	40,395
Employment-population ratio ²	52.3	52.3	52.3	52.3	52.4	52.6	52.7	52.9	53.2	53.2	53.2	53.4	53.2
Unemployed	2,182	2,167	2,141	2,058	2,111	2,028	1,989	1,941	1,895	1,841	1,902	1,882	1,917
Unemployment rate	5.3	5.2	5.2	5.0	5.1	4.9	4.8	4.6	4.5	4.4	4.5	4.4	4.5
Both sexes, 16 to 19 years													
Civilian labor force	6,884	6,942	6,900	6,817	6,885	6,955	6,862	6,861	7,021	6,734	6,778	7,033	6,814
Percent of population	57.9	58.4	58.0	57.3	57.8	58.4	57.5	57.4	58.7	56.3	56.6	58.8	57.0
Employed	5,790	5,871	5,793	5,791	5,852	5,898	5,795	5,837	5,951	5,817	5,898	6,049	5,829
Employment-population ratio ²	48.7	49.4	48.7	48.7	49.2	49.5	48.5	48.9	49.8	48.6	49.3	50.6	48.8
Unemployed	1,094	1,071	1,107	1,026	1,033	1,057	1,067	1,024	1,070	917	880	984	985
Unemployment rate	15.9	15.4	16.0	15.1	15.0	15.2	15.5	14.9	15.2	13.6	13.0	14.0	14.5
Men	16.6	15.7	16.3	15.5	16.1	16.0	17.1	16.7	17.3	14.5	13.0	15.4	15.3
Women	15.1	15.2	15.7	14.6	13.8	14.3	13.9	13.1	13.1	12.7	13.0	12.5	13.6
BLACK													
Civilian noninstitutional population ¹	20,056	20,089	20,120	20,152	20,187	20,218	20,249	20,279	20,312	20,341	20,373	20,396	20,426
Civilian labor force	12,652	12,720	12,719	12,707	12,831	12,957	12,844	12,743	12,860	12,863	13,047	13,194	13,027
Percent of population	63.1	63.3	63.2	63.1	63.6	64.1	63.4	62.8	63.3	63.2	64.0	64.7	63.8
Employed	10,799	10,895	10,910	10,968	10,997	11,101	11,053	11,090	11,080	11,223	11,401	11,563	11,427
Employment-population ratio ²	53.8	54.2	54.2	54.4	54.5	54.9	54.6	54.7	54.6	55.2	56.0	56.7	55.9
Unemployed	1,853	1,825	1,809	1,739	1,833	1,855	1,791	1,653	1,779	1,640	1,647	1,630	1,599
Unemployment rate	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8	12.7	12.6	12.4	12.3
Men, 20 years and over													
Civilian labor force	5,906	5,932	5,934	5,947	5,986	6,012	5,997	5,980	6,033	6,001	6,089	6,079	6,025
Percent of population	74.4	74.6	74.5	74.5	74.9	75.1	74.8	74.4	75.0	74.5	75.4	75.2	74.4
Employed	5,116	5,153	5,171	5,244	5,256	5,288	5,305	5,328	5,279	5,311	5,404	5,431	5,425
Employment-population ratio ²	64.5	64.8	65.0	65.7	65.7	66.0	66.1	66.3	65.6	65.9	66.9	67.2	67.0
Unemployed	790	779	763	703	730	724	692	652	754	690	686	647	600
Unemployment rate	13.4	13.1	12.9	11.8	12.2	12.0	11.5	10.9	12.5	11.5	11.3	10.7	10.0
Women, 20 years and over													
Civilian labor force	5,872	5,909	5,943	5,907	5,984	6,030	5,987	5,918	5,970	6,017	6,125	6,120	6,074
Percent of population	58.8	59.1	59.3	58.9	59.6	59.9	59.4	58.7	59.1	59.5	60.4	60.3	59.8
Employed	5,145	5,178	5,200	5,182	5,221	5,255	5,211	5,238	5,278	5,349	5,426	5,428	5,350
Employment-population ratio ²	51.5	51.8	51.9	51.7	52.0	52.2	51.7	51.9	52.2	52.9	53.5	53.5	52.7
Unemployed	727	731	743	725	763	775	776	680	691	669	699	692	723
Unemployment rate	12.4	12.4	12.5	12.3	12.8	12.9	13.0	11.5	11.6	11.1	11.4	11.3	11.9

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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	874	879	842	853	860	915	861	845	857	844	833	995	928
Percent of population	40.9	41.1	39.3	39.8	40.1	42.6	40.0	39.2	39.7	39.0	38.4	45.9	42.7
Employed	538	564	539	542	520	559	537	524	523	563	571	704	652
Employment-population ratio ²	25.2	26.3	25.1	25.3	24.2	26.0	24.9	24.3	24.2	26.0	26.3	32.5	30.0
Unemployed	336	315	303	311	340	356	324	321	334	281	262	291	276
Unemployment rate	38.4	35.8	36.0	36.5	39.5	38.9	37.6	38.0	39.0	33.3	31.5	29.2	29.7
Men	38.6	37.8	35.0	36.1	36.5	38.3	36.5	39.3	40.3	31.5	31.5	32.6	30.9
Women	38.3	33.8	37.0	36.9	43.2	39.5	38.8	36.5	37.6	35.1	31.4	25.3	28.7
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,432	12,469	12,505	12,540	12,653	12,692	12,732	12,770	12,809	12,848	12,887	12,925	12,965
Civilian labor force	8,179	8,200	8,226	8,320	8,431	8,457	8,392	8,484	8,586	8,452	8,411	8,544	8,568
Percent of population	65.8	65.8	65.8	66.3	66.6	66.6	65.9	66.4	67.0	65.8	65.3	66.1	66.1
Employed	7,286	7,345	7,437	7,446	7,538	7,644	7,639	7,701	7,838	7,730	7,744	7,864	7,869
Employment-population ratio ²	58.6	58.9	59.5	59.4	59.6	60.2	60.0	60.3	61.2	60.2	60.1	60.8	60.7
Unemployed	893	855	789	874	893	813	753	783	748	722	667	680	699
Unemployment rate	10.9	10.4	9.6	10.5	10.6	9.6	9.0	9.2	8.7	8.5	7.9	8.0	8.2

¹ The population figures are not adjusted for seasonal variation.

² 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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727	113,081	112,772
Married men, spouse present	39,691	39,780	39,952	40,093	40,102	39,913	40,100	39,967	40,029	40,057	40,241	40,260	40,370
Married women, spouse present	27,249	27,323	27,333	27,400	27,525	27,817	27,965	28,213	28,495	28,458	28,426	28,196	27,988
Women who maintain families	5,926	6,016	6,041	6,005	5,985	5,906	5,933	5,972	5,921	5,939	6,013	6,108	6,164
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,521	1,562	1,582	1,621	1,650	1,647	1,739	1,589	1,695	1,614	1,619	1,566	1,615
Self-employed workers	1,460	1,451	1,425	1,400	1,370	1,454	1,418	1,505	1,442	1,386	1,429	1,363	1,417
Unpaid family workers	159	164	198	152	136	126	150	175	170	165	154	159	134
Nonagricultural industries:													
Wage and salary workers	98,692	98,846	98,869	99,164	99,550	99,748	99,834	100,112	100,834	100,420	100,838	101,334	101,221
Government	16,333	16,264	16,457	16,443	16,412	16,532	16,568	16,484	16,710	16,956	16,931	16,760	16,915
Private industries	82,359	82,582	82,412	82,721	83,138	83,216	83,265	83,628	84,124	83,464	83,907	84,574	84,306
Private households	1,229	1,216	1,183	1,189	1,269	1,204	1,227	1,266	1,266	1,146	1,224	1,172	1,088
Other industries	81,130	81,366	81,229	81,532	81,869	82,012	82,038	82,362	82,858	82,318	82,683	83,402	83,218
Self-employed workers	7,939	7,993	8,179	8,056	8,192	8,187	8,050	8,117	8,142	8,328	8,205	8,216	8,184
Unpaid family workers	275	265	252	239	246	255	273	268	275	274	268	250	300
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,544	5,740	5,563	5,596	5,505	5,780	5,456	5,391	5,282	5,184	5,508	5,262	5,241
Slack work	2,472	2,481	2,510	2,444	2,473	2,535	2,440	2,322	2,223	2,317	2,456	2,515	2,212
Could only find part-time work	2,772	2,826	2,714	2,867	2,695	2,828	2,698	2,746	2,665	2,579	2,722	2,494	2,702
Voluntary part time	13,922	14,178	14,021	13,877	14,170	14,061	14,167	13,862	14,573	15,054	14,422	14,634	14,313
Nonagricultural industries:													
Part time for economic reasons	5,303	5,450	5,319	5,342	5,201	5,459	5,164	5,110	5,029	4,918	5,235	4,998	4,968
Slack work	2,314	2,314	2,366	2,286	2,281	2,340	2,218	2,137	2,071	2,155	2,295	2,306	2,038
Could only find part-time work	2,710	2,739	2,626	2,765	2,599	2,742	2,595	2,662	2,594	2,477	2,634	2,433	2,628
Voluntary part time	13,520	13,736	13,567	13,455	13,750	13,597	13,682	13,399	14,069	14,485	13,946	14,168	13,930

¹ 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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	109,987	110,192	110,432	110,637	111,011	111,382	111,368	111,835	112,447	112,257	112,727	113,081	112,772
16 to 24 years	20,163	20,263	20,201	20,093	20,237	20,293	20,113	20,111	20,215	19,988	20,197	20,549	20,102
16 to 19 years	6,475	6,577	6,482	6,478	6,524	6,582	6,460	6,518	6,633	6,511	6,647	6,939	6,636
16 to 17 years	2,670	2,714	2,648	2,717	2,713	2,727	2,688	2,619	2,689	2,661	2,774	2,898	2,745
18 to 19 years	3,804	3,877	3,843	3,771	3,816	3,844	3,809	3,876	3,932	3,843	3,858	4,019	3,896
20 to 24 years	13,688	13,686	13,719	13,615	13,713	13,711	13,652	13,593	13,582	13,477	13,550	13,610	13,466
25 years and over	89,796	89,899	90,221	90,524	90,725	91,104	91,290	91,660	92,257	92,319	92,615	92,602	92,675
25 to 54 years	75,582	75,714	75,889	76,247	76,281	76,680	76,844	77,338	77,663	77,766	78,077	78,155	78,265
55 years and over	14,269	14,223	14,341	14,349	14,450	14,363	14,426	14,345	14,450	14,574	14,473	14,510	14,432
Men, 16 years and over	60,968	60,975	61,241	61,393	61,596	61,751	61,707	61,842	61,996	61,912	62,154	62,343	62,358
16 to 24 years	10,528	10,587	10,546	10,449	10,526	10,608	10,452	10,427	10,369	10,288	10,452	10,628	10,470
16 to 19 years	3,361	3,380	3,358	3,292	3,369	3,426	3,297	3,275	3,276	3,292	3,360	3,525	3,401
16 to 17 years	1,399	1,391	1,353	1,373	1,395	1,425	1,355	1,336	1,350	1,355	1,434	1,442	1,380
18 to 19 years	1,965	2,003	2,009	1,933	1,974	2,000	1,945	1,936	1,919	1,930	1,916	2,055	2,027
20 to 24 years	7,167	7,207	7,188	7,157	7,156	7,182	7,155	7,152	7,094	6,996	7,092	7,103	7,069
25 years and over	50,419	50,348	50,705	50,943	51,053	51,207	51,278	51,396	51,648	51,598	51,729	51,747	51,887
25 to 54 years	42,124	42,049	42,278	42,485	42,569	42,702	42,729	42,925	42,997	43,065	43,180	43,260	43,406
55 years and over	8,323	8,329	8,428	8,507	8,458	8,470	8,546	8,476	8,561	8,573	8,510	8,499	8,475
Women, 16 years and over	49,019	49,217	49,191	49,244	49,415	49,631	49,661	49,993	50,451	50,345	50,574	50,738	50,414
16 to 24 years	9,635	9,676	9,655	9,644	9,711	9,685	9,661	9,683	9,845	9,700	9,744	9,921	9,632
16 to 19 years	3,114	3,197	3,124	3,186	3,154	3,155	3,163	3,242	3,357	3,219	3,286	3,414	3,235
16 to 17 years	1,271	1,323	1,295	1,344	1,318	1,302	1,333	1,283	1,339	1,306	1,340	1,456	1,365
18 to 19 years	1,839	1,874	1,834	1,838	1,842	1,844	1,864	1,940	2,013	1,913	1,942	1,964	1,869
20 to 24 years	6,521	6,479	6,531	6,458	6,557	6,529	6,498	6,441	6,489	6,482	6,458	6,507	6,397
25 years and over	39,377	39,551	39,516	39,581	39,672	39,897	40,012	40,264	40,609	40,721	40,886	40,856	40,788
25 to 54 years	33,458	33,665	33,611	33,762	33,712	33,978	34,116	34,412	34,666	34,700	34,896	34,895	34,859
55 years and over	5,946	5,894	5,913	5,842	5,992	5,893	5,879	5,869	5,888	6,000	5,963	6,011	5,957

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

(In thousands)

Sex and age	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	8,285	8,222	8,243	7,949	8,023	7,967	7,854	7,500	7,546	7,260	7,224	7,221	7,089
16 to 24 years	3,173	3,022	3,005	2,986	3,045	3,049	2,969	2,901	2,912	2,768	2,686	2,685	2,675
16 to 19 years	1,465	1,414	1,447	1,359	1,402	1,446	1,424	1,376	1,430	1,235	1,218	1,321	1,297
16 to 17 years	668	647	686	629	683	693	670	623	734	617	573	636	578
18 to 19 years	790	766	768	737	735	765	753	756	696	609	623	691	707
20 to 24 years	1,708	1,608	1,558	1,627	1,643	1,603	1,545	1,525	1,482	1,533	1,468	1,364	1,378
25 years and over	5,130	5,197	5,230	4,961	5,024	4,912	4,872	4,588	4,621	4,454	4,532	4,564	4,433
25 to 54 years	4,523	4,597	4,630	4,422	4,552	4,459	4,363	4,079	4,102	4,013	4,090	4,072	3,901
55 years and over	587	603	571	527	477	452	509	512	548	474	457	479	502
Men, 16 years and over	4,600	4,565	4,574	4,439	4,484	4,429	4,362	4,186	4,254	4,085	3,941	4,007	3,798
16 to 24 years	1,761	1,615	1,635	1,623	1,626	1,673	1,589	1,583	1,604	1,485	1,406	1,498	1,416
16 to 19 years	795	751	754	714	764	781	789	777	818	648	618	772	709
16 to 17 years	373	344	366	325	380	383	344	366	407	312	285	374	309
18 to 19 years	416	409	388	395	401	410	444	411	412	324	307	400	387
20 to 24 years	966	864	881	909	862	892	800	806	786	837	788	726	707
25 years and over	2,857	2,945	2,931	2,809	2,901	2,760	2,758	2,597	2,636	2,563	2,530	2,543	2,402
25 to 54 years	2,472	2,558	2,568	2,462	2,578	2,461	2,435	2,276	2,299	2,285	2,244	2,232	2,101
55 years and over	364	385	361	351	310	293	316	330	363	305	299	300	276
Women, 16 years and over	3,685	3,657	3,669	3,510	3,538	3,538	3,492	3,314	3,292	3,175	3,283	3,213	3,291
16 to 24 years	1,412	1,407	1,370	1,363	1,419	1,375	1,380	1,319	1,308	1,284	1,280	1,187	1,259
16 to 19 years	670	663	693	645	638	665	635	599	612	587	600	549	588
16 to 17 years	295	303	320	304	303	310	326	257	327	305	288	262	269
18 to 19 years	374	357	380	342	334	355	309	345	284	285	316	291	320
20 to 24 years	742	744	677	718	781	710	745	720	696	697	680	638	671
25 years and over	2,273	2,252	2,299	2,152	2,124	2,152	2,113	1,991	1,985	1,891	2,002	2,022	2,031
25 to 54 years	2,051	2,039	2,062	1,960	1,974	1,998	1,928	1,803	1,803	1,729	1,846	1,839	1,800
55 years and over	223	218	210	176	167	158	193	183	185	170	158	179	226

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1	6.0	6.0	5.9
16 to 24 years	13.6	13.0	12.9	12.9	13.1	13.1	12.9	12.6	12.6	12.2	11.7	11.6	11.7
16 to 19 years	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9	15.5	16.0	16.3
16 to 17 years	20.0	19.3	20.6	18.8	20.1	20.3	20.0	19.2	21.4	18.8	17.1	18.0	17.4
18 to 19 years	17.2	16.5	16.7	16.3	16.2	16.6	16.5	16.3	15.0	13.7	13.9	14.7	15.4
20 to 24 years	11.1	10.5	10.2	10.7	10.7	10.5	10.2	10.1	9.8	10.2	9.8	9.1	9.3
25 years and over	5.4	5.5	5.5	5.2	5.2	5.1	5.1	4.8	4.8	4.6	4.7	4.7	4.6
25 to 54 years	5.6	5.7	5.8	5.5	5.6	5.5	5.4	5.0	5.0	4.9	5.0	5.0	4.7
55 years and over	4.0	4.1	3.8	3.5	3.2	3.0	3.4	3.4	3.7	3.2	3.1	3.2	3.4
Men, 16 years and over	7.0	7.0	6.9	6.7	8.8	6.7	6.6	6.3	6.4	6.2	6.0	6.0	5.7
16 to 24 years	14.3	13.2	13.4	13.4	13.4	13.6	13.2	13.2	13.4	12.6	11.9	12.4	11.9
16 to 19 years	19.1	18.2	18.3	17.8	18.5	18.6	19.3	19.2	20.0	16.4	15.5	18.0	17.3
16 to 17 years	21.0	19.8	21.3	19.1	21.4	21.2	20.2	21.5	23.2	18.7	16.6	20.6	18.3
18 to 19 years	17.5	17.0	16.2	17.0	16.9	17.0	18.6	17.5	17.7	14.4	13.8	16.3	16.0
20 to 24 years	11.9	10.7	10.9	11.3	10.7	11.1	10.1	10.1	10.0	10.7	10.0	9.3	9.1
25 years and over	5.4	5.5	5.5	5.2	5.4	5.1	5.1	4.8	4.9	4.7	4.7	4.7	4.4
25 to 54 years	5.5	5.7	5.7	5.5	5.7	5.4	5.4	5.0	5.1	5.0	4.9	4.9	4.6
55 years and over	4.2	4.4	4.1	4.0	3.5	3.3	3.6	3.7	4.1	3.4	3.4	3.4	3.2
Women, 16 years and over	7.0	8.9	6.9	6.7	8.7	8.7	6.6	8.2	8.1	5.9	6.1	6.0	6.1
16 to 24 years	12.8	12.7	12.4	12.4	12.7	12.4	12.5	12.0	11.7	11.7	11.6	10.7	11.6
16 to 19 years	17.7	17.2	18.2	16.8	18.8	17.4	16.7	15.8	15.4	15.4	15.4	13.9	15.4
16 to 17 years	18.8	18.6	19.8	18.4	18.7	19.2	19.7	16.7	19.6	18.9	17.7	15.3	16.5
18 to 19 years	16.9	16.0	17.2	15.7	15.3	16.1	14.2	15.1	12.4	13.0	14.0	12.9	14.6
20 to 24 years	10.2	10.3	9.4	10.0	10.6	9.8	10.3	10.1	9.7	9.7	9.5	8.9	9.5
25 years and over	5.5	5.4	5.5	5.2	5.1	5.1	5.0	4.7	4.7	4.4	4.7	4.7	4.7
25 to 54 years	5.8	5.7	5.8	5.5	5.5	5.6	5.4	5.0	4.9	4.7	5.0	5.0	4.9
55 years and over	3.6	3.6	3.4	2.9	2.7	2.6	3.2	3.0	3.0	2.8	2.6	2.9	3.7

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total (all civilian workers)	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.3	6.3	6.1	6.0	6.0	5.9
Men, 20 years and over	6.2	6.2	6.2	6.0	6.0	5.9	5.8	5.5	5.5	5.5	5.4	5.2	5.0
Women, 20 years and over	6.2	8.1	6.1	5.9	5.9	5.8	5.8	5.5	5.4	5.2	5.4	5.3	5.4
Both sexes, 16 to 19 years	18.5	17.7	18.2	17.3	17.7	18.0	18.1	17.4	17.7	15.9	15.5	16.0	16.3
White	6.0	6.0	6.0	5.8	5.9	5.7	5.6	5.4	5.3	5.2	5.1	5.1	5.1
Black and other	13.1	12.7	12.7	12.3	12.6	12.8	12.5	11.7	12.2	11.4	11.3	11.3	10.8
Black	14.6	14.3	14.2	13.7	14.3	14.3	13.9	13.0	13.8	12.7	12.6	12.4	12.3
Hispanic origin	10.9	10.4	9.6	10.5	10.6	9.8	9.0	9.2	8.7	8.5	7.9	8.0	8.2
Married men, spouse present	4.3	4.6	4.5	4.3	4.2	4.2	4.1	4.1	3.9	4.0	3.8	3.7	3.6
Married women, spouse present	5.1	5.0	5.0	4.8	4.8	4.8	4.5	4.4	4.1	4.0	4.2	4.3	4.2
Women who maintain families	9.8	8.9	9.7	9.8	9.8	9.5	9.7	9.3	9.6	9.7	9.4	9.0	8.8
Full-time workers	6.6	6.6	6.8	6.3	6.4	6.3	6.2	5.9	5.9	5.9	5.7	5.6	5.4
Part-time workers	9.3	9.2	9.1	8.8	9.0	8.7	9.2	8.6	8.7	6.9	7.9	8.2	8.5
Unemployed 15 weeks and over ¹	2.0	1.8	1.9	1.8	1.8	1.8	1.7	1.7	1.8	1.7	1.6	1.8	1.6
Labor force time lost ²	7.9	7.8	7.7	7.8	7.6	7.6	7.4	7.3	7.2	7.1	6.9	6.8	6.7
INDUSTRY													
Nonagricultural private wage and salary workers	7.0	7.0	7.0	6.8	6.7	6.6	6.5	6.2	6.3	6.2	6.1	5.9	5.9
Mining	13.9	14.5	14.5	14.1	14.0	12.4	9.3	11.1	12.9	10.8	7.8	8.9	7.0
Construction	12.9	13.8	15.1	13.7	12.2	11.6	12.5	11.9	12.1	11.8	10.7	11.2	12.1
Manufacturing	7.0	7.3	7.1	6.9	6.8	6.6	6.9	6.2	6.4	5.6	6.0	5.5	5.7
Durable goods	6.5	7.2	6.6	6.4	6.6	6.8	6.7	6.2	6.3	5.3	6.1	5.5	5.8
Nondurable goods	7.7	7.3	7.9	7.7	6.6	6.9	7.3	6.2	6.6	6.0	5.9	5.5	5.9
Transportation and public utilities	4.7	5.2	4.4	4.6	4.6	4.0	4.6	4.8	4.4	5.0	4.4	4.3	4.0
Wholesale and retail trade	7.6	7.4	7.2	7.2	7.5	7.2	7.3	7.0	6.9	7.2	6.6	7.0	6.4
Finance and service industries	5.6	5.4	5.4	5.1	5.2	5.4	4.9	4.7	4.6	4.6	5.1	4.6	4.9
Agricultural wage and salary workers	12.9	11.9	10.1	11.5	11.6	11.2	10.7	9.0	8.7	8.8	11.3	10.8	8.3

¹ Unemployment as a percent of the civilian labor force.

² 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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
DURATION													
Less than 5 weeks	3,415	3,418	3,382	3,355	3,416	3,361	3,383	3,143	3,349	3,085	3,168	3,197	3,230
5 to 14 weeks	2,524	2,563	2,613	2,389	2,530	2,477	2,447	2,232	2,118	2,114	2,141	2,170	1,932
15 weeks and over	2,373	2,168	2,217	2,171	2,200	2,131	2,050	2,075	2,101	2,055	1,907	1,884	1,920
15 to 26 weeks	1,110	950	1,045	1,023	1,022	1,008	945	1,025	1,003	998	945	814	909
27 weeks and over	1,263	1,218	1,172	1,148	1,178	1,123	1,105	1,049	1,098	1,057	962	1,070	1,011
Average (mean) duration, in weeks	15.5	15.2	14.8	15.0	15.0	14.6	14.9	14.9	14.9	14.8	14.0	14.3	14.2
Median duration, in weeks	7.1	7.0	7.0	7.1	7.0	6.6	6.6	7.0	6.5	6.7	6.7	6.4	5.7
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.1	41.9	41.2	42.4	41.9	42.2	42.9	42.2	44.3	42.5	43.9	44.1	45.6
5 to 14 weeks	30.4	31.5	31.8	30.2	31.1	31.1	31.1	30.0	28.0	29.1	29.7	29.9	27.3
15 weeks and over	28.5	26.6	27.0	27.4	27.0	26.7	26.0	27.9	27.8	28.3	26.4	26.0	27.1
15 to 26 weeks	13.4	11.7	12.7	12.9	12.5	12.7	12.0	13.8	13.2	13.8	13.1	11.2	12.8
27 weeks and over	15.2	14.9	14.3	14.5	14.5	14.1	14.0	14.1	14.5	14.6	13.3	14.8	14.3

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

(Numbers in thousands)

Reasons for unemployment	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NUMBER OF UNEMPLOYED													
Job losers	4,044	3,984	3,947	3,890	3,971	3,839	3,822	3,732	3,611	3,565	3,522	3,339	3,321
On layoff	1,029	1,072	1,073	1,078	1,118	998	1,011	958	906	901	918	850	810
Other job losers	3,015	2,912	2,874	2,812	2,854	2,842	2,811	2,774	2,705	2,664	2,604	2,489	2,511
Job leavers	1,041	1,027	1,056	1,036	891	1,046	1,000	923	906	949	1,007	1,006	995
Reentrants	2,145	2,190	2,119	2,019	2,054	2,042	2,111	1,940	2,018	1,969	1,913	1,997	1,885
New entrants	1,038	972	1,076	1,015	1,084	1,040	956	911	1,018	798	801	829	883
PERCENT DISTRIBUTION													
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	48.9	48.7	48.1	48.9	49.6	48.2	48.4	49.7	47.8	49.0	48.6	46.6	46.9
On layoff	12.4	13.1	13.1	13.5	14.0	12.5	12.8	12.8	12.0	12.4	12.7	11.9	11.4
Other job losers	36.5	35.6	35.1	35.3	35.7	35.7	35.6	37.0	35.8	36.6	36.0	34.7	35.4
Job leavers	12.6	12.6	12.9	13.0	11.1	13.1	12.7	12.3	12.0	13.0	13.9	14.0	14.0
Reentrants	25.9	26.8	25.8	25.4	25.7	25.6	26.8	25.8	26.7	27.0	26.4	27.9	26.6
New entrants	12.6	11.9	13.1	12.8	13.6	13.1	12.1	12.1	13.5	11.0	11.1	11.6	12.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.0	3.0	2.9	2.8	2.8
Job leavers .....	.9	.9	.9	.9	.7	.9	.8	.8	.8	.8	.8	.8	.8
Reentrants	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.6	1.7	1.6	1.6	1.7	1.6
New entrants9	.8	.9	.9	.9	.9	.8	.8	.8	.7	.7	.7	.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
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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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Noninstitutional population ¹	178,305	178,834	179,222	179,649	180,135	180,641	181,517	182,008	182,530	183,115	183,743	184,253	184,749
Labor force ¹	115,514	115,960	116,728	116,878	117,188	117,867	118,699	119,315	119,866	120,308	120,943	121,341	121,771
Percent of population ²	64.8	64.8	65.1	65.1	65.1	65.3	65.4	65.6	65.7	65.7	65.8	65.9	65.9
Total employed ¹	107,069	107,638	108,321	108,531	108,914	109,673	110,444	110,936	111,675	112,170	112,995	113,906	114,593
Employment-population ratio ³	60.0	60.2	60.4	60.4	60.5	60.7	60.8	61.0	61.2	61.3	61.5	61.8	62.0
Resident Armed Forces	1,710	1,701	1,700	1,703	1,721	1,700	1,692	1,687	1,695	1,750	1,741	1,726	1,733
Civilian employed	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180	112,860
Agriculture	3,331	3,323	3,312	3,250	3,094	3,093	3,212	3,171	3,108	3,179	3,222	3,268	3,161
Nonagricultural industries	102,029	102,615	103,308	103,578	104,100	104,880	105,540	106,078	106,873	107,241	108,032	108,912	109,700
Unemployed	8,445	8,321	8,407	8,347	8,274	8,214	8,256	8,379	8,191	8,138	7,948	7,435	7,178
Unemployment rate 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	5.9
Not in labor force	62,791	62,874	62,494	62,771	62,947	62,754	62,817	62,693	62,664	62,807	62,800	62,912	62,978
Men													
Noninstitutional population ¹	85,263	85,523	85,695	85,899	86,133	86,376	86,957	87,201	87,463	87,775	88,101	88,358	88,605
Labor force ¹	65,487	65,709	65,774	65,887	65,998	66,220	66,732	66,854	67,002	67,321	67,693	67,858	67,773
Percent of population ²	76.8	76.8	76.8	76.7	76.6	76.7	76.7	76.7	76.6	76.7	76.8	76.6	76.5
Total employed ¹	60,838	61,143	61,202	61,353	61,511	61,742	62,252	62,257	62,471	62,795	63,268	63,483	63,857
Employment-population ratio 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	72.1
Resident Armed Forces	1,562	1,553	1,552	1,554	1,569	1,551	1,539	1,533	1,540	1,592	1,583	1,567	1,572
Civilian employed	59,276	59,590	59,650	59,799	59,942	60,191	60,712	60,724	60,931	61,203	61,685	61,917	62,285
Unemployed	4,649	4,566	4,572	4,535	4,486	4,479	4,480	4,596	4,531	4,526	4,425	4,175	3,915
Unemployment rate ⁴	7.1	6.9	7.0	6.9	6.8	6.6	6.7	6.9	6.8	6.7	6.5	6.2	5.8
Not in labor force	19,776	19,814	19,921	20,011	20,136	20,155	20,225	20,347	20,460	20,454	20,408	20,699	20,833
Women													
Noninstitutional population ¹	93,043	93,311	93,527	93,751	94,000	94,265	94,560	94,807	95,067	95,341	95,642	95,896	96,144
Labor force ¹	50,027	50,251	50,954	50,991	51,190	51,667	51,967	52,462	52,864	52,988	53,250	53,683	53,999
Percent of population ²	53.8	53.9	54.5	54.4	54.5	54.8	55.0	55.3	55.6	55.6	55.7	56.0	56.2
Total employed ¹	46,232	46,495	47,119	47,179	47,403	47,931	48,192	48,679	49,204	49,376	49,727	50,423	50,736
Employment-population ratio ³	49.7	49.8	50.4	50.3	50.4	50.8	51.0	51.3	51.8	51.8	52.0	52.6	52.8
Resident Armed Forces	148	148	146	149	151	149	152	154	155	158	158	160	161
Civilian employed	46,083	46,346	46,971	47,029	47,251	47,782	48,040	48,525	49,049	49,217	49,569	50,263	50,575
Unemployed	3,796	3,756	3,835	3,812	3,787	3,736	3,775	3,783	3,659	3,612	3,523	3,260	3,263
Unemployment rate ⁴	7.6	7.5	7.5	7.5	7.4	7.2	7.3	7.2	6.9	6.8	6.6	6.1	6.0
Not in labor force	43,016	43,060	42,573	42,761	42,810	42,598	42,593	42,346	42,204	42,354	42,392	42,213	42,145

¹ Includes members of the Armed Forces stationed in the United States.

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ 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
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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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Civilian noninstitutional population ¹	176,595	177,133	177,522	177,946	178,414	178,941	179,825	180,321	180,835	181,365	182,002	182,527	183,016
Civilian labor force	113,804	114,259	115,028	115,175	115,467	116,187	117,008	117,628	118,171	118,558	119,202	119,615	120,038
Percent of population	64.4	64.5	64.8	64.7	64.7	64.9	65.1	65.2	65.3	65.4	65.5	65.5	65.6
Employed	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180	112,860
Employment-population ratio ²	59.7	59.8	60.1	60.0	60.1	60.3	60.5	60.6	60.8	60.9	61.1	61.5	61.7
Unemployed	8,445	8,321	8,407	8,347	8,274	8,214	8,256	8,379	8,191	8,138	7,948	7,435	7,178
Unemployment rate	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.2	6.0
Men, 20 years and over													
Civilian noninstitutional population ¹	76,356	76,660	76,831	77,064	77,313	77,571	78,169	78,393	78,647	78,883	79,217	79,466	79,678
Civilian labor force	59,835	60,014	60,012	60,194	60,319	60,580	61,137	61,189	61,329	61,646	61,968	62,063	62,072
Percent of population	78.4	78.3	78.1	78.1	78.0	78.1	78.2	78.1	78.0	78.1	78.2	78.1	77.9
Employed	55,984	56,249	56,247	56,439	56,645	56,929	57,428	57,417	57,579	57,860	58,320	58,636	58,856
Employment-population ratio 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	73.9
Agriculture	2,434	2,433	2,364	2,314	2,223	2,228	2,330	2,302	2,249	2,296	2,322	2,386	2,317
Nonagricultural industries	53,550	53,816	53,883	54,125	54,422	54,701	55,098	55,115	55,330	55,563	55,999	56,249	56,539
Unemployed	3,851	3,765	3,765	3,756	3,675	3,651	3,710	3,772	3,750	3,786	3,647	3,427	3,216
Unemployment rate	6.4	6.3	6.3	6.2	6.1	6.0	6.1	6.2	6.1	6.1	5.9	5.5	5.2
Not in labor force	16,521	16,646	16,819	16,870	16,994	16,991	17,032	17,204	17,318	17,237	17,249	17,403	17,606
Women, 20 years and over													
Civilian noninstitutional population ¹	85,586	85,895	86,094	86,377	86,651	86,900	87,187	87,449	87,699	87,935	88,236	88,468	88,701
Civilian labor force	46,049	46,348	46,955	47,138	47,305	47,726	47,990	48,451	48,916	48,993	49,288	49,651	49,947
Percent of population	53.8	54.0	54.5	54.6	54.6	54.9	55.0	55.4	55.8	55.7	55.9	56.1	56.3
Employed	42,941	43,243	43,803	43,976	44,155	44,668	44,902	45,362	45,910	46,048	46,411	46,990	47,264
Employment-population ratio ²	50.2	50.3	50.9	50.9	51.0	51.4	51.5	51.9	52.3	52.4	52.6	53.1	53.3
Agriculture	591	577	603	607	578	598	619	591	614	636	619	612	602
Nonagricultural industries	42,350	42,666	43,200	43,368	43,577	44,070	44,283	44,771	45,296	45,412	45,792	46,379	46,662
Unemployed	3,107	3,105	3,152	3,162	3,151	3,058	3,088	3,089	3,006	2,945	2,877	2,661	2,684
Unemployment rate	6.7	6.7	6.7	6.7	6.7	6.4	6.4	6.4	6.1	6.0	5.8	5.4	5.4
Not in labor force	39,537	39,547	39,139	39,239	39,346	39,174	39,197	38,998	38,783	38,942	38,948	38,817	38,754
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,653	14,577	14,597	14,506	14,450	14,470	14,469	14,479	14,489	14,547	14,548	14,593	14,638
Civilian labor force	7,921	7,898	8,061	7,843	7,842	7,881	7,880	7,988	7,926	7,919	7,946	7,901	8,019
Percent of population	54.1	54.2	55.2	54.1	54.3	54.5	54.5	55.2	54.7	54.4	54.6	54.1	54.8
Employed	6,434	6,446	6,570	6,414	6,394	6,376	6,422	6,470	6,492	6,512	6,522	6,554	6,741
Employment-population ratio ²	43.9	44.2	45.0	44.2	44.2	44.1	44.4	44.7	44.8	44.8	44.8	44.9	46.0
Agriculture	306	313	346	329	293	266	263	278	245	247	281	270	241
Nonagricultural industries	6,128	6,133	6,225	6,085	6,101	6,110	6,159	6,191	6,247	6,265	6,241	6,284	6,499
Unemployed	1,487	1,451	1,490	1,429	1,448	1,505	1,458	1,518	1,434	1,407	1,424	1,347	1,279
Unemployment rate	18.8	18.4	18.5	18.2	18.5	19.1	18.5	19.0	18.1	17.8	17.9	17.0	15.9
Not in labor force	6,732	6,679	6,536	6,663	6,608	6,589	6,589	6,491	6,563	6,628	6,602	6,692	6,619

¹ The population figures are not adjusted for seasonal variation.

population.

² Civilian employment as a percent of the civilian noninstitutional

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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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
WHITE													
Civilian noninstitutional population ¹	152,386	152,666	153,196	153,491	153,825	154,204	154,893	155,245	155,609	155,982	156,435	156,806	157,145
Civilian labor force	98,492	98,812	99,595	99,684	99,888	100,536	101,126	101,571	102,098	102,418	102,812	103,191	103,388
Percent of population	64.6	64.7	65.0	64.9	64.9	65.2	65.3	65.4	65.6	65.7	65.7	65.8	65.8
Employed	92,257	92,608	93,331	93,435	93,705	94,472	94,945	95,366	96,013	96,320	96,903	97,702	98,084
Employment-population ratio ²	60.5	60.7	60.9	60.9	60.9	61.3	61.3	61.4	61.7	61.8	61.9	62.3	62.4
Unemployed	6,235	6,204	6,265	6,248	6,183	6,063	6,182	6,205	6,086	6,098	5,909	5,489	5,304
Unemployment rate	6.3	6.3	6.3	6.3	6.2	6.0	6.1	6.1	6.0	6.0	5.7	5.3	5.1
Men, 20 years and over													
Civilian labor force	52,495	52,606	52,679	52,838	52,917	53,145	53,543	53,542	53,650	53,981	54,155	54,193	54,176
Percent of population	78.8	78.7	78.5	78.5	78.4	78.6	78.6	78.4	78.3	78.6	78.6	78.4	78.2
Employed	49,612	49,725	49,814	49,964	50,082	50,390	50,703	50,684	50,818	51,073	51,341	51,600	51,722
Employment-population ratio ²	74.4	74.4	74.2	74.2	74.2	74.5	74.4	74.2	74.2	74.4	74.5	74.7	74.7
Unemployed	2,883	2,882	2,865	2,874	2,835	2,754	2,840	2,858	2,832	2,908	2,814	2,593	2,454
Unemployment rate	5.5	5.5	5.4	5.4	5.4	5.2	5.3	5.3	5.3	5.4	5.2	4.8	4.5
Women, 20 years and over													
Civilian labor force	39,127	39,337	39,939	40,042	40,203	40,565	40,767	41,139	41,590	41,551	41,757	42,127	42,337
Percent of population	53.1	53.3	53.9	53.9	54.0	54.3	54.4	54.8	55.3	55.1	55.2	55.6	55.8
Employed	36,862	37,083	37,625	37,725	37,909	38,354	38,473	38,895	39,400	39,429	39,714	40,234	40,437
Employment-population ratio 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	53.3
Unemployed	2,265	2,254	2,313	2,317	2,294	2,211	2,294	2,244	2,191	2,122	2,043	1,892	1,900
Unemployment rate	5.8	5.7	5.8	5.8	5.7	5.5	5.6	5.5	5.3	5.1	4.9	4.5	4.5
Both sexes, 16 to 19 years													
Civilian labor force	6,871	6,869	6,978	6,804	6,768	6,826	6,817	6,890	6,858	6,886	6,901	6,872	6,875
Percent of population	56.9	57.1	58.3	57.2	57.0	57.5	57.5	58.0	57.7	57.9	57.9	57.5	57.5
Employed	5,783	5,801	5,891	5,746	5,714	5,728	5,769	5,787	5,795	5,818	5,848	5,868	5,925
Employment-population ratio ²	47.9	48.3	49.2	48.3	48.2	48.3	48.6	48.7	48.8	48.9	49.1	49.1	49.5
Unemployed	1,088	1,068	1,087	1,057	1,054	1,098	1,048	1,103	1,063	1,068	1,052	1,004	950
Unemployment rate	15.8	15.5	15.6	15.5	15.6	16.1	15.4	16.0	15.5	15.5	15.2	14.6	13.8
Men	16.8	16.4	16.4	16.1	16.7	17.0	15.8	17.0	16.3	15.8	16.4	16.2	14.6
Women	14.8	14.6	14.7	14.9	14.3	15.1	14.9	14.9	14.6	15.2	14.0	13.0	13.0
BLACK													
Civilian noninstitutional population ¹	19,387	19,481	19,543	19,620	19,701	19,790	19,863	19,945	20,028	20,120	20,218	20,310	20,398
Civilian labor force	12,135	12,251	12,308	12,307	12,369	12,473	12,589	12,707	12,605	12,715	12,877	12,822	13,089
Percent of population	62.6	62.9	63.0	62.7	62.8	63.0	63.4	63.7	62.9	63.2	63.7	63.1	64.2
Employed	10,210	10,403	10,398	10,469	10,544	10,592	10,732	10,822	10,779	10,924	11,051	11,131	11,464
Employment-population ratio ²	52.7	53.4	53.2	53.4	53.5	53.5	54.0	54.3	53.8	54.3	54.7	54.8	56.2
Unemployed	1,925	1,848	1,910	1,838	1,824	1,881	1,857	1,885	1,826	1,791	1,827	1,691	1,626
Unemployment rate	15.9	15.1	15.5	14.9	14.7	15.1	14.7	14.8	14.5	14.1	14.2	13.2	12.4
Men, 20 years and over													
Civilian labor force	5,706	5,738	5,717	5,714	5,766	5,795	5,886	5,925	5,910	5,938	5,998	6,005	6,064
Percent of population	74.9	74.8	74.5	74.1	74.4	74.4	75.0	75.1	74.6	74.6	74.9	74.6	75.0
Employed	4,883	4,995	4,941	4,964	5,040	5,022	5,123	5,156	5,132	5,189	5,283	5,306	5,420
Employment-population ratio ²	84.1	85.1	84.4	84.4	85.0	84.4	85.3	85.4	84.8	85.2	86.0	85.9	87.1
Unemployed	823	744	776	751	726	773	763	770	778	748	715	698	644
Unemployment rate	14.4	13.0	13.6	13.1	12.6	13.3	13.0	13.0	13.2	12.6	11.9	11.6	10.6
Women, 20 years and over													
Civilian labor force	5,568	5,654	5,695	5,720	5,714	5,779	5,788	5,859	5,854	5,920	6,000	5,968	6,106
Percent of population	57.9	58.5	58.7	58.7	58.3	58.7	58.6	59.1	58.7	59.1	59.6	59.1	60.2
Employed	4,830	4,906	4,934	4,975	4,959	5,042	5,073	5,119	5,133	5,187	5,229	5,288	5,401
Employment-population ratio ²	50.2	50.7	50.9	51.0	50.6	51.2	51.4	51.6	51.5	51.8	52.0	52.3	53.2
Unemployed	738	748	761	745	755	736	715	740	721	733	771	680	705
Unemployment rate	13.3	13.2	13.4	13.0	13.2	12.7	12.4	12.6	12.3	12.4	12.9	11.4	11.5

See footnotes at end of table.

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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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	861	859	896	873	888	900	915	922	842	858	879	849	919
Percent of population	40.0	40.2	41.2	40.4	41.2	41.9	42.8	43.2	39.4	40.1	40.9	39.3	42.4
Employed	497	503	523	531	545	528	537	547	514	548	539	537	642
Employment-population ratio ²	23.1	23.5	24.1	24.5	25.3	24.6	25.1	25.6	24.1	25.6	25.1	24.8	29.6
Unemployed	364	356	373	342	343	372	378	375	327	310	340	312	276
Unemployment rate	42.3	41.5	41.6	39.2	38.6	41.3	41.3	40.7	38.9	36.1	38.7	36.8	30.1
Men	41.5	42.9	41.8	40.0	39.7	42.4	41.1	40.5	39.3	36.3	37.1	37.1	31.7
Women	43.1	39.9	41.4	38.3	37.3	40.2	41.6	40.9	38.4	35.9	40.4	36.4	28.3
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	11,533	11,643	11,753	11,862	11,969	12,075	12,184	12,290	12,397	12,504	12,692	12,809	12,926
Civilian labor force	7,503	7,612	7,572	7,623	7,787	7,802	7,881	8,020	8,143	8,249	8,427	8,508	8,508
Percent of population	65.1	65.4	64.4	64.3	65.1	64.6	64.7	65.3	65.7	66.0	66.4	66.4	65.6
Employed	6,716	6,813	6,797	6,816	6,968	6,960	7,027	7,163	7,268	7,409	7,607	7,756	7,825
Employment-population ratio ²	58.2	58.5	57.8	57.5	58.2	57.6	57.7	58.3	58.6	59.3	59.9	60.6	60.5
Unemployed	787	799	776	807	819	842	855	857	876	839	820	751	682
Unemployment rate	10.5	10.5	10.2	10.6	10.5	10.8	10.8	10.7	10.8	10.2	9.7	8.8	8.0

¹ The population figures are not adjusted for seasonal variation.

² 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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
EMPLOYED													
Full-time workers	86,967	87,461	88,040	88,461	88,422	89,252	89,786	90,131	90,892	91,276	92,020	92,548	93,348
Men, 16 years and over	53,336	53,526	53,580	53,855	53,869	54,151	54,545	54,518	54,757	54,925	55,383	55,549	55,950
Men, 20 years and over	51,888	52,083	52,127	52,362	52,461	52,749	53,181	53,136	53,367	53,585	54,036	54,268	54,500
Women, 16 years and over	33,638	33,947	34,418	34,591	34,564	35,118	35,218	35,615	36,154	36,388	36,580	37,017	37,460
Women, 20 years and over	32,543	32,857	33,327	33,535	33,492	34,059	34,194	34,541	35,122	35,378	35,538	35,977	36,317
Both sexes, 16 to 19 years	2,537	2,522	2,586	2,564	2,469	2,444	2,411	2,454	2,402	2,313	2,447	2,303	2,531
Part-time workers	18,376	18,490	18,590	18,372	18,736	18,767	18,957	19,102	19,027	19,187	19,234	19,611	19,424
Men, 16 years and over	5,952	6,067	6,018	5,956	6,082	6,056	6,137	6,215	6,178	6,299	6,258	6,374	6,339
Men, 20 years and over	4,085	4,166	4,114	4,089	4,163	4,183	4,247	4,291	4,186	4,277	4,288	4,367	4,336
Women, 16 years and over	12,441	12,441	12,562	12,395	12,664	12,729	12,814	12,869	12,856	12,910	12,971	13,219	13,085
Women, 20 years and over	10,381	10,422	10,496	10,405	10,637	10,662	10,717	10,786	10,744	10,733	10,891	10,995	10,900
Both sexes, 16 to 19 years	3,910	3,902	3,980	3,878	3,937	3,922	3,993	4,025	4,097	4,177	4,055	4,249	4,188
UNEMPLOYED													
Looking for full-time work	6,942	6,887	6,896	6,783	6,778	6,705	6,759	6,827	6,647	6,609	6,432	6,023	5,736
Men, 16 years and over	4,074	3,999	3,942	3,940	3,924	3,889	3,863	3,990	3,901	3,907	3,770	3,612	3,393
Men, 20 years and over	3,616	3,520	3,529	3,503	3,446	3,427	3,484	3,525	3,495	3,535	3,392	3,208	2,996
Women, 16 years and over	2,878	2,905	2,901	2,870	2,874	2,834	2,844	2,858	2,755	2,717	2,605	2,435	2,385
Women, 20 years and over	2,534	2,543	2,568	2,554	2,550	2,476	2,519	2,529	2,435	2,388	2,325	2,187	2,131
Both sexes, 16 to 19 years	792	825	799	726	782	802	755	772	717	685	716	648	609
Looking for part-time work	1,519	1,431	1,510	1,555	1,511	1,503	1,495	1,544	1,559	1,520	1,521	1,407	1,421
Men, 16 years and over	582	574	590	618	578	598	578	624	636	619	618	584	563
Men, 20 years and over	235	245	236	252	230	226	225	244	251	253	257	217	214
Women, 16 years and over	925	857	925	939	921	911	919	926	904	915	902	833	851
Women, 20 years and over	580	561	581	611	603	577	565	564	579	551	550	502	535
Both sexes, 16 to 19 years	704	626	693	692	678	700	706	736	728	715	715	688	673

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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180	112,860
Married men, spouse present	39,165	39,271	39,392	39,163	39,139	39,307	39,439	39,566	39,687	39,942	40,038	40,018	40,290
Married women, spouse present	25,717	25,928	26,090	26,134	26,375	26,718	26,759	27,086	27,370	27,352	27,769	28,389	28,203
Women who maintain families	5,528	5,418	5,561	5,639	5,601	5,590	5,727	5,751	5,857	6,021	5,942	5,944	6,095
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,554	1,603	1,581	1,579	1,484	1,514	1,603	1,512	1,511	1,588	1,679	1,633	1,600
Self-employed workers	1,563	1,517	1,507	1,472	1,445	1,415	1,459	1,477	1,427	1,425	1,414	1,444	1,403
Unpaid family workers	214	209	225	189	175	165	164	171	168	171	137	170	149
Nonagricultural industries:													
Wage and salary workers	93,912	94,591	95,262	95,517	95,968	96,747	97,638	98,073	98,530	98,960	99,710	100,455	101,131
Government	15,757	15,860	15,921	15,974	16,042	16,182	16,216	16,314	16,454	16,388	16,504	16,717	16,869
Private industries	78,154	78,732	79,341	79,543	79,926	80,566	81,422	81,759	82,076	82,572	83,207	83,739	84,262
Private households	1,200	1,243	1,297	1,223	1,266	1,211	1,227	1,279	1,239	1,196	1,233	1,226	1,162
Other industries	76,954	77,489	78,044	78,320	78,660	79,354	80,195	80,480	80,837	81,376	81,973	82,513	83,101
Self-employed workers	7,749	7,706	7,778	7,751	7,780	7,920	7,706	7,753	7,971	8,076	8,143	8,195	8,202
Unpaid family workers	322	341	328	297	280	251	258	241	268	252	258	272	273
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,673	5,722	5,581	5,646	5,635	5,493	5,515	5,739	5,486	5,633	5,580	5,286	5,337
Slack work	2,387	2,544	2,444	2,539	2,444	2,298	2,371	2,525	2,454	2,478	2,483	2,288	2,394
Could only find part-time work	2,870	2,842	2,795	2,771	2,833	2,881	2,834	2,859	2,725	2,802	2,740	2,663	2,639
Voluntary part time	13,148	13,191	13,449	13,299	13,566	13,653	13,818	13,965	13,957	14,025	14,133	14,496	14,456
Nonagricultural industries:													
Part time for economic reasons	5,440	5,498	5,319	5,370	5,369	5,271	5,269	5,486	5,265	5,370	5,275	5,019	5,067
Slack work	2,241	2,400	2,270	2,360	2,290	2,174	2,211	2,391	2,305	2,322	2,280	2,121	2,213
Could only find part-time work	2,794	2,768	2,709	2,693	2,735	2,784	2,753	2,761	2,666	2,710	2,645	2,578	2,565
Voluntary part time	12,691	12,731	12,984	12,836	13,129	13,212	13,364	13,518	13,568	13,586	13,676	13,985	14,014

¹ 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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	105,359	105,938	106,620	106,828	107,193	107,973	108,752	109,249	109,980	110,420	111,254	112,180	112,860
16 to 24 years	20,609	20,699	20,635	20,417	20,325	20,309	20,385	20,253	20,237	20,186	20,214	20,104	20,283
16 to 19 years	6,434	6,446	6,570	6,414	6,394	6,376	6,422	6,470	6,492	6,512	6,522	6,554	6,741
16 to 17 years	2,414	2,459	2,546	2,455	2,491	2,484	2,562	2,614	2,623	2,693	2,709	2,656	2,806
18 to 19 years	4,012	3,985	4,020	3,954	3,896	3,900	3,882	3,845	3,846	3,830	3,823	3,884	3,924
20 to 24 years	14,175	14,252	14,065	14,003	13,931	13,933	13,963	13,783	13,746	13,673	13,692	13,551	13,542
25 years and over	84,756	85,228	85,994	86,402	86,888	87,652	88,371	88,984	89,773	90,215	91,040	92,079	92,631
25 to 54 years	70,547	71,054	71,630	72,100	72,671	73,388	74,109	74,585	75,398	75,950	76,602	77,589	78,165
55 years and over	14,222	14,198	14,340	14,281	14,222	14,303	14,232	14,373	14,387	14,304	14,413	14,456	14,471
Men, 16 years and over	59,276	59,590	59,650	59,799	59,942	60,191	60,712	60,724	60,931	61,203	61,685	61,917	62,285
16 to 24 years	10,833	10,912	10,773	10,725	10,821	10,567	10,879	10,527	10,562	10,527	10,528	10,362	10,517
16 to 19 years	3,292	3,341	3,403	3,360	3,297	3,262	3,285	3,307	3,353	3,343	3,364	3,281	3,429
16 to 17 years	1,234	1,283	1,316	1,295	1,292	1,298	1,319	1,358	1,360	1,372	1,392	1,347	1,419
18 to 19 years	2,050	2,056	2,069	2,071	2,005	1,972	1,976	1,948	1,980	1,982	1,973	1,928	1,999
20 to 24 years	7,541	7,571	7,370	7,364	7,323	7,304	7,394	7,220	7,209	7,184	7,164	7,080	7,088
25 years and over	48,441	48,666	48,891	49,067	49,327	49,613	50,050	50,187	50,378	50,665	51,179	51,547	51,787
25 to 54 years	40,037	40,314	40,413	40,628	40,882	41,176	41,623	41,737	42,019	42,271	42,667	42,996	43,282
55 years and over	8,410	8,367	8,458	8,432	8,442	8,462	8,407	8,443	8,361	8,421	8,491	8,537	8,495
Women, 16 years and over	46,083	46,348	46,971	47,029	47,251	47,782	48,040	48,525	49,049	49,217	49,569	50,263	50,575
18 to 24 years	9,776	9,786	9,862	9,892	9,704	9,742	9,707	9,726	9,676	9,658	9,686	9,743	9,766
16 to 19 years	3,142	3,105	3,168	3,054	3,097	3,114	3,138	3,163	3,139	3,169	3,158	3,273	3,312
16 to 17 years	1,180	1,176	1,229	1,160	1,198	1,185	1,244	1,256	1,262	1,321	1,318	1,309	1,387
18 to 19 years	1,963	1,929	1,951	1,884	1,891	1,929	1,906	1,898	1,866	1,849	1,850	1,955	1,925
20 to 24 years	6,634	6,681	6,695	6,638	6,808	6,628	6,569	6,563	6,537	6,489	6,528	6,470	6,454
25 years and over	36,315	36,561	37,103	37,335	37,561	38,039	38,322	38,797	39,395	39,549	39,860	40,531	40,843
25 to 54 years	30,511	30,739	31,217	31,472	31,789	32,212	32,486	32,849	33,379	33,679	33,935	34,593	34,883
55 years and over	5,811	5,830	5,882	5,848	5,780	5,841	5,826	5,930	6,026	5,883	5,922	5,919	5,977

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

(In thousands)

Sex and age	1984		1985				1986				1987		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	8,445	8,321	8,407	8,347	8,274	8,214	8,256	8,379	8,191	8,138	7,948	7,435	7,178
16 to 24 years	3,311	3,222	3,261	3,186	3,159	3,216	3,129	3,206	3,082	3,004	3,021	2,861	2,682
16 to 19 years	1,487	1,451	1,490	1,429	1,448	1,505	1,458	1,518	1,434	1,407	1,424	1,347	1,279
16 to 17 years	645	618	666	657	639	685	672	684	650	654	682	658	596
18 to 19 years	828	838	832	771	797	825	795	832	772	757	751	687	674
20 to 24 years	1,825	1,771	1,771	1,757	1,710	1,711	1,671	1,688	1,647	1,596	1,597	1,514	1,403
25 years and over	5,128	5,102	5,153	5,147	5,119	4,999	5,133	5,157	5,122	5,129	4,936	4,554	4,510
25 to 54 years	4,482	4,427	4,551	4,527	4,502	4,401	4,521	4,611	4,544	4,550	4,458	4,065	4,021
55 years and over	654	652	604	637	625	577	612	567	574	567	479	512	479
Men, 16 years and over	4,649	4,586	4,572	4,535	4,486	4,479	4,480	4,596	4,531	4,526	4,425	4,175	3,915
16 to 24 years	1,825	1,772	1,780	1,744	1,727	1,746	1,662	1,745	1,682	1,624	1,629	1,557	1,440
16 to 19 years	798	801	807	779	812	827	771	824	781	740	778	748	700
16 to 17 years	341	334	363	371	352	368	363	356	356	345	369	362	323
18 to 19 years	447	469	451	406	451	462	416	465	417	397	418	382	365
20 to 24 years	1,027	971	974	965	915	919	891	920	901	885	851	809	740
25 years and over	2,827	2,789	2,803	2,773	2,768	2,728	2,628	2,633	2,863	2,895	2,806	2,599	2,491
25 to 54 years	2,414	2,389	2,438	2,419	2,402	2,373	2,480	2,502	2,497	2,529	2,491	2,287	2,193
55 years and over	409	395	357	374	364	352	361	352	357	366	307	332	292
Women, 16 years and over	3,796	3,756	3,835	3,812	3,787	3,738	3,775	3,783	3,659	3,612	3,523	3,260	3,263
16 to 24 years	1,486	1,451	1,481	1,442	1,432	1,470	1,467	1,461	1,400	1,380	1,391	1,304	1,242
16 to 19 years	688	651	684	650	637	678	687	694	653	667	646	599	579
16 to 17 years	304	284	303	285	288	317	309	328	294	309	313	296	273
18 to 19 years	381	368	381	365	346	363	378	368	355	360	333	305	309
20 to 24 years	798	800	797	792	795	792	780	767	747	713	745	704	663
25 years and over	2,301	2,312	2,350	2,374	2,352	2,271	2,304	2,324	2,259	2,234	2,130	1,956	2,016
25 to 54 years	2,068	2,038	2,113	2,108	2,100	2,028	2,061	2,108	2,047	2,020	1,967	1,778	1,828
55 years and over	246	257	247	263	261	225	251	215	217	201	173	179	186

**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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.2	6.0
16 to 24 years	13.8	13.5	13.6	13.5	13.5	13.7	13.3	13.7	13.2	13.0	13.0	12.5	11.7
16 to 19 years	18.8	18.4	18.5	18.2	18.5	19.1	18.5	19.0	18.1	17.8	17.9	17.0	15.9
16 to 17 years	21.1	20.1	20.7	21.1	20.4	21.6	20.8	20.7	19.9	19.5	20.1	19.9	17.5
18 to 19 years	17.1	17.4	17.2	16.3	17.0	17.5	17.0	17.8	16.7	16.5	16.4	15.0	14.7
20 to 24 years	11.4	11.1	11.2	11.1	10.9	10.9	10.7	10.9	10.7	10.5	10.4	10.0	9.4
25 years and over	5.7	5.6	5.7	5.6	5.6	5.4	5.5	5.5	5.4	5.4	5.1	4.7	4.6
25 to 54 years	6.0	5.9	6.0	5.9	5.8	5.7	5.7	5.8	5.7	5.7	5.5	5.0	4.9
55 years and over	4.4	4.4	4.0	4.3	4.2	3.9	4.1	3.8	3.8	3.8	3.2	3.4	3.2
Men, 16 years and over	7.3	7.1	7.1	7.0	7.0	6.9	6.9	7.0	6.9	6.9	6.7	6.3	5.9
16 to 24 years	14.4	14.0	14.2	14.0	14.0	14.2	13.5	14.2	13.7	13.4	13.4	13.1	12.0
16 to 19 years	19.5	19.3	19.2	18.8	19.8	20.2	19.0	20.0	18.9	18.1	18.8	18.6	16.9
16 to 17 years	21.7	20.7	21.6	22.3	21.4	22.1	21.6	20.8	20.7	20.1	21.0	21.2	18.5
18 to 19 years	17.9	18.6	17.9	16.4	18.4	19.0	17.4	19.3	17.4	16.7	17.5	18.5	15.4
20 to 24 years	12.0	11.4	11.7	11.6	11.1	11.2	10.8	11.3	11.1	11.0	10.6	10.3	9.5
25 years and over	5.5	5.4	5.4	5.3	5.3	5.2	5.3	5.3	5.4	5.4	5.2	4.8	4.6
25 to 54 years	5.7	5.6	5.7	5.6	5.5	5.4	5.6	5.7	5.6	5.6	5.5	5.0	4.8
55 years and over	4.6	4.5	4.1	4.2	4.1	4.0	4.1	4.0	4.1	4.2	3.5	3.7	3.3
Women, 16 years and over	7.6	7.5	7.5	7.5	7.4	7.3	7.3	7.2	6.9	6.8	6.6	6.1	6.1
16 to 24 years	13.2	12.9	13.1	12.9	12.9	13.1	13.1	13.1	12.6	12.5	12.6	11.8	11.3
16 to 19 years	18.0	17.3	17.8	17.6	17.1	17.9	18.0	18.0	17.2	17.4	17.0	15.5	14.9
16 to 17 years	20.5	19.5	19.8	19.7	19.4	21.1	19.9	20.7	18.9	19.0	19.2	18.5	16.4
18 to 19 years	16.3	16.0	16.4	16.2	15.5	15.8	16.6	16.2	16.0	16.3	15.2	13.5	13.8
20 to 24 years	10.7	10.7	10.6	10.7	10.7	10.7	10.6	10.5	10.3	9.9	10.2	9.8	9.3
25 years and over	6.0	5.9	6.0	6.0	5.9	5.6	5.7	5.7	5.4	5.3	5.1	4.6	4.7
25 to 54 years	6.3	6.2	6.3	6.3	6.2	5.9	6.0	6.0	5.8	5.7	5.5	4.9	5.0
55 years and over	4.1	4.2	4.0	4.3	4.3	3.7	4.1	3.5	3.5	3.3	2.8	2.9	3.0

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1984		1985				1986				1987		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total (all civilian workers)	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.9	6.9	6.7	6.2	6.0
Men, 20 years and over	6.4	6.3	6.3	6.2	6.1	6.0	6.1	6.2	6.1	6.1	5.9	5.5	5.2
Women, 20 years and over	6.7	6.7	6.7	6.7	6.7	6.4	6.4	6.4	6.1	6.0	5.8	5.4	5.4
Both sexes, 16 to 19 years	18.8	18.4	18.5	18.2	18.5	19.1	18.5	19.0	18.1	17.8	17.9	17.0	15.9
White	6.3	6.3	6.3	6.3	6.2	6.0	6.1	6.1	6.0	6.0	5.7	5.3	5.1
Black and other	14.3	13.7	14.1	13.5	13.3	13.7	13.3	13.5	13.0	12.6	12.7	11.8	11.2
Black	15.9	15.1	15.5	14.9	14.7	15.1	14.7	14.8	14.5	14.1	14.2	13.2	12.4
Hispanic origin	10.5	10.5	10.2	10.6	10.5	10.8	10.8	10.7	10.8	10.2	9.7	8.8	8.0
Married men, spouse present	4.5	4.5	4.4	4.3	4.3	4.3	4.4	4.4	4.3	4.5	4.2	4.0	3.7
Married women, spouse present	5.8	5.6	5.6	5.8	5.6	5.4	5.4	5.3	5.1	4.9	4.7	4.2	4.2
Women who maintain families	9.9	10.5	10.4	10.4	10.7	10.1	10.0	9.9	9.8	9.5	9.7	9.5	9.1
Full-time workers	7.1	7.0	7.0	6.8	6.8	6.7	6.7	6.8	6.6	6.5	6.3	5.9	5.6
Part-time workers	9.5	9.0	9.3	9.7	9.3	9.1	9.0	9.2	9.2	9.0	9.0	8.1	8.2
Unemployed 15 weeks and over ¹	2.3	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.6
Labor force time lost ²	8.4	8.4	8.2	8.2	8.1	7.9	8.0	8.1	7.8	7.7	7.5	7.2	6.7
INDUSTRY													
Nonagricultural private wage and salary workers	7.3	7.3	7.3	7.2	7.2	7.1	7.0	7.1	7.0	6.9	6.6	6.2	6.0
Mining	9.1	11.0	10.7	9.4	9.2	8.6	10.2	14.5	15.7	14.4	12.0	11.5	7.9
Construction	14.2	13.7	13.3	12.7	13.5	13.1	12.9	12.5	12.8	14.2	12.1	11.9	11.3
Manufacturing	7.4	7.2	7.7	7.8	7.8	7.5	7.2	7.2	6.9	7.1	6.9	6.1	5.7
Durable goods	6.8	7.0	7.4	7.8	7.8	7.4	7.1	7.1	6.7	6.7	6.8	5.9	5.7
Nondurable goods	8.2	7.5	8.0	7.8	7.8	7.6	7.3	7.3	7.3	7.6	7.0	6.3	5.8
Transportation and public utilities	5.8	5.3	5.1	5.2	5.1	5.2	5.2	5.4	5.0	4.7	4.4	4.7	4.2
Wholesale and retail trade	7.8	7.7	7.7	7.5	7.7	7.7	7.6	7.9	7.6	7.3	7.3	7.0	6.7
Finance and service industries	5.8	5.9	5.8	5.8	5.5	5.4	5.6	5.6	5.6	5.3	5.1	4.8	4.9
Agricultural wage and salary workers	13.5	12.6	14.0	12.5	13.4	12.3	12.4	14.0	12.5	11.2	11.2	8.8	10.2

¹ Unemployment as a percent of the civilian labor force.

² 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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
DURATION													
Less than 5 weeks	3,422	3,402	3,561	3,502	3,486	3,444	3,481	3,530	3,417	3,385	3,386	3,192	3,198
5 to 14 weeks	2,467	2,431	2,517	2,510	2,517	2,494	2,582	2,657	2,484	2,522	2,485	2,155	2,081
15 weeks and over	2,597	2,449	2,365	2,325	2,281	2,231	2,231	2,220	2,298	2,185	2,127	2,077	1,903
15 to 26 weeks	1,075	1,036	1,020	1,037	1,036	998	1,074	1,028	1,079	1,006	992	1,009	889
27 weeks and over	1,522	1,413	1,345	1,288	1,245	1,233	1,156	1,192	1,220	1,179	1,135	1,068	1,014
Average (mean) duration, in weeks	17.4	16.8	16.0	15.7	15.4	15.4	14.9	14.9	15.4	15.0	14.8	14.9	14.2
Median duration, in weeks	7.4	7.2	7.0	6.8	7.0	6.9	6.8	6.9	7.1	7.0	6.8	6.7	6.3
PERCENT DISTRIBUTION													
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	40.3	41.1	42.2	42.0	42.1	42.2	42.0	42.0	41.7	41.8	42.3	43.0	44.5
5 to 14 weeks	29.1	29.4	29.8	30.1	30.4	30.5	31.1	31.6	30.3	31.2	31.1	29.0	29.0
15 weeks and over	30.6	29.6	28.0	27.9	27.5	27.3	26.9	26.4	28.0	27.0	26.6	28.0	26.5
15 to 26 weeks	12.7	12.5	12.1	12.4	12.5	12.2	13.0	12.2	13.2	12.4	12.4	13.6	12.4
27 weeks and over	17.9	17.1	15.9	15.4	15.0	15.1	13.9	14.2	14.9	14.6	14.2	14.4	14.1

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

(Numbers in thousands)

Reasons for unemployment	1984		1985				1986				1987		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
NUMBER OF UNEMPLOYED													
Job losers	4,295	4,228	4,225	4,082	4,194	4,043	4,053	4,174	3,977	3,940	3,877	3,636	3,394
On layoff	1,164	1,109	1,178	1,136	1,155	1,154	1,141	1,083	1,041	1,074	1,042	922	859
Other job losers	3,131	3,119	3,047	2,947	3,040	2,889	2,912	3,091	2,936	2,866	2,835	2,714	2,535
Job leavers	844	862	858	893	878	883	984	1,020	1,019	1,040	979	926	1,002
Reentrants	2,227	2,192	2,258	2,306	2,233	2,228	2,181	2,165	2,183	2,109	2,069	1,976	1,931
New entrants	1,094	1,037	1,055	1,060	997	1,047	1,036	1,048	1,014	1,021	1,027	909	838
PERCENT DISTRIBUTION													
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	50.8	50.8	50.3	48.9	50.5	49.3	49.1	49.6	48.5	48.6	48.8	48.8	47.4
On layoff	13.8	13.3	14.0	13.6	13.9	14.1	13.8	12.9	12.7	13.2	13.1	12.4	12.0
Other job losers	37.0	37.5	36.3	35.3	36.6	35.2	35.3	36.8	35.8	35.3	35.7	36.4	35.4
Job leavers	10.0	10.4	10.2	10.7	10.6	10.8	11.9	12.1	12.4	12.6	12.3	12.4	14.0
Reentrants	26.3	26.3	26.9	27.6	26.9	27.2	26.4	25.8	26.6	26.0	26.0	26.5	27.0
New entrants	12.9	12.5	12.6	12.7	12.0	12.8	12.6	12.5	12.4	12.6	12.9	12.2	11.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.8	3.7	3.7	3.5	3.6	3.5	3.5	3.5	3.4	3.3	3.3	3.0	2.8
Job leavers .....	.7	.8	.7	.8	.8	.8	.8	.9	.9	.9	.8	.8	.8
Reentrants	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6
New entrants	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.8	.7

**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		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Total not in labor force	62,791	62,874	62,494	62,771	62,947	62,754	62,817	62,693	62,664	62,807	62,800	62,912	62,978
Do not want a job now	57,241	56,774	56,766	56,889	56,830	56,744	57,193	56,838	56,865	57,013	57,094	57,025	57,565
Current activity:													
Going to school	6,902	6,357	6,292	6,208	6,310	6,316	6,249	6,513	6,189	6,330	6,428	6,446	6,417
Ill, disabled	4,049	3,843	4,042	3,833	3,836	3,969	4,189	4,040	4,087	3,928	4,152	4,168	4,454
Keeping house	28,018	27,861	27,399	27,271	27,028	26,839	26,796	26,487	26,176	26,000	26,290	25,488	25,643
Retired	13,687	14,255	14,354	14,714	15,131	15,234	15,133	15,326	15,885	16,069	15,768	16,266	16,363
Other activity	4,585	4,458	4,679	4,863	4,525	4,386	4,826	4,471	4,528	4,686	4,456	4,657	4,687
Want a job now	5,917	6,041	5,880	5,808	6,020	5,961	5,789	5,882	5,980	5,808	5,823	5,924	5,854
Reason not looking:													
School attendance	1,478	1,483	1,446	1,460	1,417	1,483	1,416	1,379	1,578	1,427	1,342	1,473	1,598
Ill health, disability	809	819	763	813	780	854	835	898	903	746	842	948	843
Home responsibilities	1,449	1,347	1,231	1,265	1,395	1,360	1,365	1,311	1,203	1,347	1,222	1,351	1,266
Think cannot get a job	1,211	1,272	1,253	1,170	1,230	1,158	1,107	1,119	1,150	1,127	1,168	1,037	1,011
Job-market factors	867	928	858	822	813	792	765	761	736	851	756	688	628
Personal factors	344	344	395	348	417	365	343	358	414	277	412	349	383
Other reasons ¹	969	1,120	1,186	1,100	1,197	1,107	1,065	1,175	1,145	1,160	1,249	1,115	1,136
Men													
Total not in labor force	19,776	19,814	19,921	20,011	20,136	20,155	20,225	20,347	20,460	20,454	20,408	20,699	20,833
Do not want a job now	17,895	17,801	18,059	17,972	18,093	18,143	18,350	18,441	18,382	18,454	18,434	18,660	19,004
Want a job now	1,918	1,986	1,936	2,006	2,003	1,995	1,940	1,948	2,087	2,026	2,005	2,068	2,075
Reason not looking:													
School attendance	717	744	692	732	667	709	726	667	824	680	652	767	779
Ill health, disability	383	386	362	348	361	401	364	471	438	359	396	484	413
Think cannot get a job	475	476	507	513	499	492	438	392	425	497	490	409	434
Other reasons ¹	343	380	375	414	477	393	412	418	399	490	467	408	449
Women													
Total not in labor force	43,016	43,060	42,573	42,761	42,810	42,598	42,593	42,346	42,204	42,354	42,392	42,213	42,145
Do not want a job now	39,346	38,973	38,707	38,917	38,737	38,601	38,843	38,396	38,482	38,559	38,660	38,365	38,561
Want a job now	3,999	4,055	3,943	3,802	4,016	3,966	3,849	3,933	3,893	3,782	3,818	3,857	3,778
Reason not looking:													
School attendance	761	740	754	728	749	774	690	711	754	747	690	707	818
Ill health, disability	426	433	401	465	420	453	471	426	465	387	447	464	430
Home responsibilities	1,449	1,347	1,231	1,265	1,395	1,360	1,365	1,311	1,203	1,347	1,222	1,351	1,266
Think cannot get a job	736	795	746	658	731	666	669	727	725	630	678	628	577
Other reasons	626	740	811	686	721	713	653	757	746	670	782	707	687
White													
Total not in labor force	53,894	53,854	53,601	53,807	53,937	53,668	53,767	53,674	53,511	53,564	53,623	53,615	53,757
Do not want a job now	49,593	49,514	49,219	49,641	49,426	49,317	49,506	49,387	49,208	49,367	49,450	49,265	49,532
Want a job now	4,212	4,367	4,373	4,245	4,430	4,382	4,265	4,352	4,298	4,217	4,195	4,398	4,305
Reason not looking:													
School attendance	1,014	1,042	1,054	1,010	1,026	1,052	994	975	1,065	975	933	1,106	1,127
Ill health, disability	587	592	551	560	588	604	625	618	625	536	611	697	645
Home responsibilities	1,063	1,027	942	1,003	1,036	1,009	1,020	1,032	898	975	907	993	936
Think cannot get a job	774	781	878	764	790	808	749	741	780	817	800	702	631
Other reasons ¹	774	926	948	908	990	910	876	985	931	914	944	901	966
Black													
Total not in labor force	7,252	7,230	7,235	7,313	7,332	7,317	7,274	7,238	7,423	7,405	7,341	7,488	7,309
Do not want a job now	5,772	5,748	5,901	5,934	5,948	5,930	5,947	5,937	6,027	6,020	5,945	6,206	6,088
Want a job now	1,446	1,485	1,354	1,383	1,332	1,397	1,353	1,299	1,425	1,423	1,436	1,299	1,239
Reason not looking:													
School attendance	354	374	369	398	319	348	386	333	460	381	353	308	359
Ill health, disability	214	209	215	211	191	235	211	220	248	192	229	194	170
Home responsibilities	337	282	253	264	301	295	287	270	283	318	287	319	264
Think cannot get a job	368	459	351	355	350	345	321	296	275	291	342	304	313
Other reasons ¹	174	160	166	156	171	174	147	180	179	241	224	175	133

¹ 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							
	III 1986	III 1987	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
TOTAL										
Total not in labor force	61,496	61,815	5,625	5,686	3,692	3,574	21,501	21,362	30,678	31,194
Do not want a job now	55,875	56,366	4,602	4,678	2,857	2,813	18,343	18,232	30,068	30,644
Current activity:										
Going to school	3,433	3,521	2,083	2,129	794	837	551	539	4	16
Ill, disabled	4,084	4,423	46	33	104	163	1,998	2,283	1,935	1,943
Keeping house	26,110	25,588	460	463	1,247	1,163	12,594	12,192	11,807	11,771
Retired	16,029	16,550	-	-	-	-	462	413	15,567	16,137
Other activity	6,218	6,285	2,013	2,053	712	650	2,738	2,805	755	777
Want a job now	5,622	5,449	1,023	1,006	835	759	3,152	3,134	610	551
Reason for not looking:										
School attendance	885	882	482	481	205	144	196	256	3	1
Ill health, disability	896	834	34	37	72	40	614	590	175	167
Home responsibilities	1,323	1,388	74	82	210	256	1,012	993	28	57
Think cannot get a job	1,177	1,025	200	179	171	149	605	566	202	132
Job-market factors	763	651	103	109	140	102	430	389	89	51
Personal factors	414	374	98	70	31	48	177	177	112	80
Other reasons ¹	1,340	1,320	233	227	177	170	725	729	202	194
Men										
Total not in labor force	19,577	19,946	2,609	2,707	1,108	1,091	4,001	4,105	11,859	12,040
Do not want a job now	17,817	18,196	2,110	2,250	848	910	3,272	3,267	11,593	11,768
Current activity:										
Going to school	1,680	1,775	1,020	1,093	423	467	238	213	-	2
Ill, disabled	2,176	2,276	22	11	49	95	1,154	1,268	952	900
Keeping house	395	443	39	60	22	26	136	127	201	229
Retired	10,337	10,458	-	-	-	-	388	321	9,949	10,137
Other activity	3,229	3,245	1,029	1,086	354	322	1,356	1,338	491	500
Want a job now	1,760	1,750	496	456	259	180	729	841	266	274
Reason for not looking:										
School attendance	448	407	252	252	101	57	91	96	3	1
Ill health, disability	433	404	22	14	52	15	272	297	85	78
Think cannot get a job	430	433	107	88	52	57	191	201	79	89
Other reasons ¹	449	506	115	102	54	51	175	247	99	106
Women										
Total not in labor force	41,919	41,869	3,016	2,979	2,585	2,483	17,499	17,255	18,820	19,152
Do not want a job now	38,057	38,170	2,492	2,429	2,008	1,905	15,075	14,960	18,478	18,874
Current activity:										
Going to school	1,753	1,746	1,062	1,036	371	371	313	325	4	13
Ill, disabled	1,908	2,147	24	22	54	69	845	1,013	984	1,042
Keeping house	25,715	25,145	422	404	1,225	1,137	12,461	12,063	11,607	11,541
Retired	5,692	6,092	-	-	-	-	74	91	5,618	6,001
Other activity	2,989	3,040	984	967	358	328	1,382	1,468	265	277
Want a job now	3,862	3,699	524	549	576	577	2,422	2,294	342	279
Reason not looking:										
School attendance	437	475	230	229	104	86	105	160	-	-
Ill health, disability	463	430	12	23	20	24	341	294	90	89
Home responsibilities	1,323	1,388	74	82	210	256	1,012	993	28	57
Think cannot get a job	747	592	93	91	119	93	415	364	121	43
Other reasons	891	815	115	124	123	118	549	483	103	90

¹ 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			
	III 1986	III 1987	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
WHITE												
Total not in labor force	52,562	52,841	7,046	6,976	18,011	17,861	27,505	28,003	16,514	16,845	36,048	35,995
Do not want a job now	48,428	48,741	5,750	5,740	15,660	15,450	27,022	27,553	15,203	15,541	33,225	33,201
Current activity:												
Going to school	2,640	2,685	2,209	2,270	426	403	4	13	1,282	1,369	1,358	1,316
Ill, disabled	3,300	3,495	119	135	1,609	1,786	1,575	1,574	1,782	1,837	1,518	1,658
Keeping house	23,109	22,684	1,393	1,301	10,995	10,658	10,722	10,724	289	344	22,820	22,350
Retired	14,474	14,920	-	-	422	383	14,053	14,538	9,366	9,461	5,108	5,459
Other activity	4,905	4,958	2,029	2,034	2,208	2,220	668	704	2,484	2,540	2,421	2,418
Want a job now	4,135	4,099	1,292	1,237	2,352	2,413	484	449	1,312	1,305	2,822	2,794
Reason for not looking:												
School attendance	583	607	448	425	134	180	-	-	308	285	274	322
Ill health, disability	625	638	62	59	437	444	123	135	314	321	311	317
Home responsibilities	1,014	1,061	206	233	782	778	26	50	-	-	1,014	1,061
Think cannot get a job	821	664	242	194	414	375	164	95	312	282	509	381
Other reasons ¹	1,092	1,129	334	326	585	636	171	169	378	417	714	713
BLACK												
Total not in labor force	7,207	7,105	1,809	1,814	2,710	2,610	2,686	2,681	2,495	2,482	4,712	4,623
Do not want a job now	5,930	5,992	1,323	1,379	2,026	2,027	2,581	2,587	2,110	2,140	3,819	3,852
Current activity:												
Going to school	556	595	491	520	65	76	-	-	265	280	291	315
Ill, disabled	705	808	32	57	342	412	332	340	350	372	356	436
Keeping house	2,315	2,173	257	255	1,143	1,050	916	869	99	82	2,215	2,091
Retired	1,301	1,357	-	-	32	21	1,269	1,334	797	827	504	530
Other activity	1,053	1,059	543	547	444	468	64	44	599	579	453	480
Want a job now	1,277	1,113	490	436	686	582	105	94	385	343	893	771
Reason for not looking:												
School attendance	259	198	209	148	47	51	3	-	125	76	134	122
Ill health, disability	239	160	33	11	162	119	44	30	102	65	136	95
Home responsibilities	278	281	71	96	204	180	2	4	-	-	278	281
Think cannot get a job	296	318	116	124	155	159	27	34	100	126	197	193
Other reasons ¹	206	156	61	57	118	73	29	26	58	76	148	80
HISPANIC ORIGIN												
Total not in labor force	4,136	4,303	1,105	1,149	1,964	2,048	1,066	1,106	1,104	1,189	3,033	3,115
Do not want a job now	3,634	3,813	914	939	1,677	1,792	1,040	1,084	943	1,050	2,688	2,764
Current activity:												
Going to school	363	359	314	310	47	50	-	-	146	202	216	157
Ill, disabled	341	326	17	23	206	175	117	128	190	199	151	127
Keeping house	1,955	2,096	325	319	1,226	1,366	405	411	37	58	1,917	2,037
Retired	501	535	-	-	10	23	491	512	329	332	172	204
Other activity	474	497	258	287	188	178	27	33	241	259	232	239
Want a job now	504	490	192	211	287	257	26	23	160	140	345	351
Reason for not looking:												
School attendance	100	101	87	75	14	25	-	-	41	50	59	51
Ill health, disability	76	58	-	8	65	34	11	16	40	26	36	32
Home responsibilities	155	170	33	55	116	115	6	-	-	-	155	170
Think cannot get a job	87	77	36	45	45	28	7	6	35	24	52	54
Other reasons ¹	86	84	36	28	47	55	2	1	44	40	43	44

¹ 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	3rd 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
TOTAL								
Personal factors:								
Employers think too young or old	140	40	-	31	69	105	35	4
Lacks education or training	150	16	33	99	3	108	30	20
Other personal handicap	84	14	15	47	8	56	22	1
Job-market factors:								
Could not find work	374	75	77	199	23	222	144	43
Thinks no job available	277	34	25	190	28	172	88	10
Men								
Personal factors:								
Employers think too young or old	71	16	-	11	44	53	18	-
Lacks education or training	30	9	7	12	3	20	6	6
Other personal handicap	35	5	6	19	4	22	9	
Job-market factors:								
Could not find work	173	44	24	86	19	113	56	14
Thinks no job available	123	15	18	73	17	74	37	4
Women								
Personal factors:								
Employers think too young or old	69	24	-	21	24	52	16	4
Lacks education or training	120	8	26	87	-	88	25	15
Other personal handicap	49	9	8	28	4	34	13	1
Job-market factors:								
Could not find work	201	32	53	113	5	109	88	29
Thinks no job available	154	20	7	117	11	98	51	6

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			
	III 1986	III 1987	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
TOTAL												
Do not intend to seek work	53,201	53,492	5,564	5,506	17,485	17,344	30,154	30,644	46,112	46,238	5,656	5,740
Intend to seek work in the next 12 months	8,294	8,321	3,754	3,753	4,017	4,020	524	549	6,449	6,602	1,551	1,366
Never worked	1,285	1,229	1,097	1,102	181	126	7	-	842	828	349	316
Last worked over 5 years ago	1,209	1,254	66	58	1,002	1,052	141	143	885	929	278	279
Last worked 1 to 5 years ago	1,894	1,872	541	506	1,162	1,176	191	191	1,482	1,494	354	305
Worked during previous 12 months	3,906	3,966	2,051	2,086	1,670	1,664	186	214	3,240	3,351	570	466
Men												
Do not intend to seek work	16,901	17,176	2,146	2,230	3,141	3,190	11,613	11,756	14,402	14,656	2,039	2,039
Intend to seek work in the next 12 months	2,675	2,769	1,570	1,568	858	915	245	286	2,111	2,189	456	443
Never worked	527	503	480	481	45	23	3	-	334	340	154	126
Last worked over 5 years ago	198	270	6	10	126	182	65	78	131	178	47	79
Last worked 1 to 5 years ago	497	529	160	151	250	278	87	101	404	428	85	72
Worked during previous 12 months	1,453	1,467	924	927	439	434	90	107	1,242	1,244	170	167
Women												
Do not intend to seek work	36,299	36,316	3,416	3,276	14,342	14,153	18,541	18,888	31,710	31,582	3,617	3,701
Intend to seek work in the next 12 months	5,619	5,552	2,183	2,185	3,157	3,102	279	265	4,338	4,413	1,095	922
Never worked	758	726	618	622	136	102	4	-	508	488	195	190
Last worked over 5 years ago	1,010	984	59	49	876	870	75	65	754	751	231	199
Last worked 1 to 5 years ago	1,397	1,344	381	354	913	898	104	91	1,078	1,066	269	234
Worked during previous 12 months	2,454	2,498	1,126	1,159	1,232	1,230	96	108	1,998	2,107	399	299

**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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
TOTAL								
Civilian noninstitutional population	180,835	183,016	155,609	157,145	20,028	20,398	12,397	12,926
Civilian labor force	119,339	121,201	103,046	104,304	12,822	13,293	8,261	8,622
Percent of population	66.0	66.2	66.2	66.4	64.0	65.2	66.6	66.7
Employed	111,192	114,069	97,077	99,118	10,913	11,588	7,383	7,940
Agriculture	3,454	3,494	3,227	3,217	172	210	371	420
Nonagricultural industries	107,738	110,574	93,850	95,900	10,741	11,378	7,012	7,520
Unemployed	8,147	7,133	5,971	5,187	1,910	1,704	878	683
Unemployment rate	6.8	5.9	5.8	5.0	14.9	12.8	10.6	7.9
Not in labor force	61,496	61,815	52,562	52,841	7,207	7,105	4,137	4,303
Men, 16 years and over								
Civilian noninstitutional population	85,923	87,033	74,482	75,286	8,974	9,150	6,133	6,401
Civilian labor force	66,346	67,087	57,968	58,441	6,480	6,668	5,029	5,212
Percent of population	77.2	77.1	77.8	77.6	72.2	72.9	82.0	81.4
Employed	62,061	63,388	54,802	55,696	5,516	5,857	4,514	4,830
Agriculture	2,706	2,747	2,529	2,510	137	182	321	373
Nonagricultural industries	59,355	60,641	52,272	53,186	5,379	5,675	4,193	4,457
Unemployed	4,285	3,699	3,166	2,744	965	810	515	382
Unemployment rate	6.5	5.5	5.5	4.7	14.9	12.2	10.2	7.3
Not in labor force	19,577	19,946	16,514	16,845	2,495	2,482	1,104	1,189
Men, 20 years and over								
Civilian noninstitutional population	78,647	79,678	68,499	69,257	7,925	8,082	5,478	5,728
Civilian labor force	61,679	62,439	53,950	54,473	5,951	6,106	4,639	4,837
Percent of population	78.4	78.4	78.8	78.7	75.1	75.6	84.7	84.4
Employed	58,202	59,459	51,364	52,239	5,187	5,472	4,220	4,539
Agriculture	2,409	2,468	2,247	2,252	125	164	285	350
Nonagricultural industries	55,794	56,991	49,117	49,987	5,062	5,307	3,934	4,189
Unemployed	3,477	2,980	2,586	2,234	784	634	419	299
Unemployment rate	5.6	4.8	4.8	4.1	12.8	10.4	9.0	6.2
Not in labor force	16,968	17,238	14,549	14,784	1,975	1,975	839	891
Women, 16 years and over								
Civilian noninstitutional population	94,912	95,983	81,128	81,859	11,054	11,248	6,264	6,525
Civilian labor force	52,993	54,114	45,080	45,864	6,342	6,625	3,232	3,410
Percent of population	55.8	56.4	55.6	56.0	57.4	58.9	51.6	52.3
Employed	49,131	50,680	42,275	43,421	5,397	5,731	2,869	3,110
Agriculture	748	747	698	707	35	28	51	47
Nonagricultural industries	48,383	49,933	41,578	42,714	5,362	5,703	2,819	3,063
Unemployed	3,862	3,434	2,804	2,442	945	894	362	300
Unemployment rate	7.3	6.3	6.2	5.3	14.9	13.5	11.2	8.8
Not in labor force	41,919	41,869	36,048	35,995	4,712	4,623	3,033	3,115
Women, 20 years and over								
Civilian noninstitutional population	87,699	88,701	75,228	75,928	9,969	10,147	5,617	5,862
Civilian labor force	48,796	49,810	41,453	42,181	5,868	6,113	2,961	3,134
Percent of population	55.6	56.2	55.1	55.8	58.9	60.2	52.7	53.5
Employed	45,632	47,000	39,153	40,194	5,106	5,370	2,672	2,894
Agriculture	693	681	645	645	34	25	47	45
Nonagricultural industries	44,939	46,319	38,507	39,549	5,072	5,346	2,626	2,849
Unemployed	3,163	2,810	2,301	1,987	762	742	288	239
Unemployment rate	6.5	5.6	5.6	4.7	13.0	12.1	9.7	7.6
Not in labor force	38,903	38,891	33,774	33,747	4,101	4,035	2,657	2,729
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,489	14,838	11,882	11,959	2,134	2,169	1,301	1,335
Civilian labor force	8,864	8,952	7,644	7,650	1,004	1,074	661	651
Percent of population	61.2	61.2	64.3	64.0	47.0	49.5	50.8	48.8
Employed	7,357	7,610	6,560	6,685	620	746	491	506
Agriculture	352	345	334	320	12	21	39	25
Nonagricultural industries	7,006	7,265	6,226	6,364	607	725	452	481
Unemployed	1,507	1,342	1,084	965	384	328	170	145
Unemployment rate	17.0	15.0	14.2	12.6	38.3	30.6	25.7	22.2
Not in labor force	5,625	5,686	4,238	4,309	1,131	1,095	641	683

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-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 ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
TOTAL								
Civilian noninstitutional population	12,397	12,926	7,475	7,826	1,536	1,536	823	763
Civilian labor force	8,261	8,622	5,110	5,356	826	809	570	508
Percent of population	66.6	66.7	68.4	68.4	53.8	52.7	69.3	66.6
Employed	7,383	7,940	4,536	4,875	714	736	524	487
Agriculture	371	420	321	371	9	10	10	-
Nonagricultural industries	7,012	7,520	4,215	4,504	705	726	514	487
Unemployed	878	683	573	480	112	73	46	21
Unemployment rate	10.6	7.9	11.2	9.0	13.6	9.1	8.0	4.2
Not in labor force	4,137	4,303	2,366	2,471	709	727	253	255
Men, 16 years and over								
Civilian noninstitutional population	6,133	6,401	3,820	3,992	698	672	417	373
Civilian labor force	5,029	5,212	3,215	3,330	503	474	325	284
Percent of population	82.0	81.4	84.2	83.4	72.1	70.5	77.9	76.1
Employed	4,514	4,830	2,879	3,063	436	435	297	272
Agriculture	321	373	281	331	6	7	8	-
Nonagricultural industries	4,193	4,457	2,598	2,732	430	427	289	272
Unemployed	515	382	337	267	67	40	28	12
Unemployment rate	10.2	7.3	10.5	8.0	13.2	8.3	8.6	4.2
Not in labor force	1,104	1,189	605	662	195	198	92	90
Men, 20 years and over								
Civilian noninstitutional population	5,478	5,728	3,378	3,559	611	597	399	344
Civilian labor force	4,639	4,837	2,928	3,073	465	439	317	271
Percent of population	84.7	84.4	86.7	86.3	76.1	73.5	79.4	78.8
Employed	4,220	4,539	2,660	2,873	410	405	293	259
Agriculture	285	350	247	310	5	7	8	-
Nonagricultural industries	3,934	4,189	2,414	2,563	404	398	284	259
Unemployed	419	299	268	201	56	35	24	12
Unemployment rate	9.0	6.2	9.1	6.5	12.0	7.9	7.6	4.3
Not in labor force	839	891	450	486	145	157	82	7.4
Women, 16 years and over								
Civilian noninstitutional population	6,264	6,525	3,656	3,834	838	864	406	390
Civilian labor force	3,232	3,410	1,894	2,025	323	335	245	224
Percent of population	51.6	52.3	51.8	52.8	38.5	38.8	60.3	57.4
Employed	2,869	3,110	1,658	1,812	278	301	227	215
Agriculture	51	47	40	41	3	2	2	-
Nonagricultural industries	2,819	3,063	1,617	1,771	275	299	226	215
Unemployed	362	300	237	213	45	34	18	9
Unemployment rate	11.2	8.8	12.5	10.5	14.0	10.1	7.2	4.2
Not in labor force	3,033	3,115	1,761	1,809	514	530	161	165
Women, 20 years and over								
Civilian noninstitutional population	5,617	5,862	3,231	3,396	751	783	391	370
Civilian labor force	2,961	3,134	1,716	1,839	292	311	238	217
Percent of population	52.7	53.5	53.1	54.2	38.9	39.7	60.9	58.6
Employed	2,672	2,894	1,534	1,674	254	283	223	210
Agriculture	47	45	37	39	3	2	2	-
Nonagricultural industries	2,626	2,849	1,498	1,635	251	281	221	210
Unemployed	288	239	182	164	38	28	15	7
Unemployment rate	9.7	7.6	10.6	8.9	13.0	8.9	6.3	3.2
Not in labor force	2,657	2,729	1,515	1,558	459	473	153	153
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,301	1,335	866	871	174	156	33	49
Civilian labor force	661	651	465	443	69	59	15	21
Percent of population	50.8	48.8	53.7	50.9	39.7	37.8	(²)	(²)
Employed	491	506	342	328	51	48	8	18
Agriculture	39	25	38	23	1	1	-	-
Nonagricultural industries	452	481	304	305	50	47	8	18
Unemployed	170	145	123	115	18	11	6	3
Unemployment rate	25.7	22.2	26.5	26.0	26.4	(²)	(²)	(²)
Not in labor force	641	683	401	427	105	97	18	28

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

² 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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
CHARACTERISTIC								
Total (all civilian workers)	111,192	114,069	97,077	99,118	10,913	11,588	7,383	7,940
Men	62,061	63,388	54,802	55,696	5,516	5,857	4,514	4,830
Women	49,131	50,680	42,275	43,421	5,397	5,731	2,869	3,110
OCCUPATION								
Managerial and professional specialty	26,373	27,850	23,994	25,182	1,553	1,738	922	1,043
Executive, administrative, and managerial	12,750	13,726	11,794	12,588	621	754	470	539
Professional specialty	13,622	14,123	12,199	12,594	932	983	451	505
Technical, sales, and administrative support	34,697	35,224	30,815	31,050	2,924	3,122	1,880	1,939
Technicians and related support	3,489	3,476	3,080	2,997	272	324	144	123
Sales occupations	13,384	13,593	12,297	12,364	754	827	667	721
Administrative support, including clerical	17,824	18,155	15,438	15,689	1,898	1,970	1,068	1,094
Service occupations	14,780	15,120	11,772	11,990	2,492	2,636	1,254	1,347
Private household	994	926	727	687	237	220	110	97
Protective service	1,816	1,920	1,513	1,554	268	333	96	95
Service, except private household and protective	11,970	12,275	9,533	9,749	1,987	2,083	1,048	1,155
Precision production, craft, and repair	13,778	13,893	12,437	12,579	1,016	1,006	1,066	1,095
Mechanics and repairers	4,452	4,549	4,035	4,145	305	317	332	327
Construction trades	5,190	5,207	4,738	4,756	375	374	359	379
Other precision production, craft, and repair	4,137	4,137	3,664	3,679	336	315	375	390
Operators, fabricators, and laborers	17,666	18,019	14,503	14,717	2,668	2,798	1,864	2,018
Machine operators, assemblers, and inspectors	8,115	8,266	6,613	6,709	1,199	1,240	1,018	1,109
Transportation and material moving occupations	4,629	4,767	3,910	3,951	644	732	350	370
Handlers, equipment cleaners, helpers, and laborers	4,923	4,986	3,980	4,057	826	826	496	539
Construction laborers	898	877	747	737	139	125	131	116
Other handlers, equipment cleaners, helpers, and laborers	4,025	4,109	3,233	3,321	687	701	365	423
Farming, forestry, and fishing	3,898	3,962	3,556	3,600	259	289	397	497
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,717	1,806	1,551	1,605	130	154	325	356
Self-employed workers	1,532	1,507	1,477	1,436	37	53	43	58
Unpaid family workers	204	181	199	177	3	3	3	6
Nonagricultural industries:								
Wage and salary workers	99,403	102,000	86,065	87,957	10,420	11,019	6,579	7,102
Government	16,025	16,453	13,060	13,293	2,456	2,614	845	956
Private industries	83,378	85,547	73,005	74,664	7,964	8,405	5,734	6,146
Private households	1,323	1,238	976	933	309	274	137	120
Other industries	82,055	84,309	72,029	73,731	7,655	8,130	5,597	6,027
Self-employed workers	8,066	8,298	7,535	7,703	318	350	415	400
Unpaid family workers	270	276	250	240	4	8	18	17
FULL- AND PART-TIME STATUS¹								
Full-time schedules	91,328	93,863	79,629	81,336	9,000	9,684	6,183	6,621
Part time for economic reasons	5,774	5,617	4,631	4,594	984	853	563	635
Part time for noneconomic reasons	14,090	14,589	12,817	13,188	929	1,052	637	683

¹ 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 ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
CHARACTERISTIC								
Total (all civilian workers)	7,383	7,940	4,536	4,875	714	736	524	487
Men	4,514	4,830	2,879	3,063	436	435	297	272
Women	2,869	3,110	1,658	1,812	278	301	227	215
OCCUPATION								
Managerial and professional specialty	922	1,043	456	532	104	105	88	112
Executive, administrative, and managerial	470	539	236	281	54	53	52	69
Professional specialty	451	505	220	250	50	52	36	42
Technical, sales, and administrative support	1,680	1,939	1,056	1,110	199	201	185	173
Technicians and related support	144	123	77	71	14	11	15	9
Sales occupations	667	721	387	398	61	58	71	73
Administrative support, including clerical	1,068	1,094	592	641	124	132	98	91
Service occupations	1,254	1,347	746	784	140	135	69	54
Private household	110	97	58	59	2	3	4	1
Protective service	96	95	46	58	20	13	7	5
Service, except private household and protective	1,048	1,155	643	667	118	119	58	48
Precision production, craft, and repair	1,066	1,095	688	691	98	96	69	61
Mechanics and repairers	332	327	206	189	26	39	29	21
Construction trades	359	379	263	260	21	20	17	24
Other precision production, craft, and repair	375	390	218	242	51	37	23	16
Operators, fabricators, and laborers	1,864	2,018	1,252	1,333	160	186	105	81
Machine operators, assemblers, and inspectors	1,018	1,109	669	720	84	109	56	42
Transportation and material moving occupations	350	370	226	236	35	38	19	19
Handlers, equipment cleaners, helpers, and laborers	496	539	357	377	41	39	30	20
Construction laborers	131	116	103	82	6	8	8	2
Other handlers, equipment cleaners, helpers, and laborers	365	423	254	295	35	31	22	18
Farming, forestry, and fishing	397	497	338	426	13	14	9	6
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	325	356	287	318	9	8	6	
Self-employed workers	43	58	33	48		1	4	
Unpaid family workers	3	6	2	6				
Nonagricultural industries:								
Wage and salary workers	6,579	7,102	3,983	4,285	687	704	456	440
Government	845	956	504	569	138	140	31	36
Private industries	5,734	6,146	3,459	3,718	550	563	425	403
Private households	137	120	80	76	4	3	4	1
Other industries	5,597	6,027	3,379	3,640	546	560	421	402
Self-employed workers	415	400	238	211	18	23	57	41
Unpaid family workers	18	17	13	7			1	6
FULL- AND PART-TIME STATUS²								
Full-time schedules	6,183	6,621	3,756	4,001	622	631	460	425
Part time for economic reasons	563	635	395	470	43	40	17	14
Part time for noneconomic reasons	637	883	385	404	49	66	48	48

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

² 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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
Total, 16 years and over	111,192	114,069	97,077	99,118	10,913	11,588	7,383	7,940
16 to 19 years	7,357	7,610	6,560	6,685	620	746	491	506
16 to 17 years	3,131	3,306	2,821	2,923	246	299	178	167
18 to 19 years	4,227	4,304	3,739	3,761	373	447	313	340
20 to 24 years	14,162	13,932	12,371	12,078	1,461	1,480	1,205	1,311
25 years and over	89,672	92,526	78,147	80,355	8,831	9,362	5,688	6,123
25 to 54 years	75,275	78,036	65,259	67,498	7,637	8,065	5,152	5,528
55 years and over	14,398	14,490	12,888	12,857	1,194	1,298	536	597
Men, 16 years and over	62,061	63,388	54,802	55,696	5,516	5,857	4,514	4,830
16 to 19 years	3,859	3,930	3,437	3,457	328	385	294	291
16 to 17 years	1,656	1,711	1,486	1,505	135	166	97	89
18 to 19 years	2,203	2,219	1,951	1,952	193	219	197	202
20 to 24 years	7,509	7,368	6,593	6,402	730	771	772	812
25 years and over	50,693	52,091	44,772	45,838	4,457	4,701	3,448	3,727
25 to 54 years	42,292	43,556	37,163	38,171	3,843	4,017	3,119	3,369
55 years and over	8,400	8,535	7,609	7,667	615	686	329	357
Women, 16 years and over	49,131	50,680	42,275	43,421	5,397	5,731	2,869	3,110
16 to 19 years	3,498	3,680	3,123	3,228	292	361	197	216
16 to 17 years	1,474	1,595	1,335	1,418	111	133	81	78
18 to 19 years	2,024	2,085	1,788	1,809	181	228	116	138
20 to 24 years	6,652	6,564	5,778	5,677	731	709	432	499
25 years and over	38,980	40,436	33,375	34,517	4,374	4,661	2,240	2,395
25 to 54 years	32,983	34,481	28,096	29,327	3,794	4,048	2,033	2,157
55 years and over	5,997	5,955	5,279	5,190	579	612	207	239

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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
Total, 16 years and over	6.8	5.9	5.8	5.0	14.9	12.8	10.6	7.9
16 to 19 years	17.0	15.0	14.2	12.6	38.3	30.6	25.7	22.2
16 to 17 years	18.2	16.1	15.5	13.7	39.6	33.2	27.5	25.6
18 to 19 years	16.1	14.1	13.2	11.8	37.4	28.7	24.7	20.5
20 to 24 years	10.4	9.1	8.2	7.6	24.8	20.1	13.3	9.6
25 years and over	5.3	4.5	4.6	3.9	10.6	9.7	8.4	6.1
25 to 54 years	5.6	4.8	4.9	4.1	11.3	10.3	8.5	6.3
55 years and over	3.7	3.1	3.4	2.8	5.8	5.7	7.9	4.2
Men, 16 years and over	6.5	5.5	5.5	4.7	14.9	12.2	10.2	7.3
16 to 19 years	17.3	15.5	14.4	12.9	38.0	31.5	24.6	22.4
16 to 17 years	18.9	16.9	16.3	14.3	38.5	33.6	29.9	29.7
18 to 19 years	16.1	14.3	13.0	11.7	37.7	29.8	21.7	18.7
20 to 24 years	10.2	8.7	8.0	7.4	25.0	17.8	13.3	7.7
25 years and over	4.9	4.2	4.3	3.6	10.5	9.0	8.0	5.8
25 to 54 years	5.2	4.4	4.5	3.8	11.1	9.5	8.0	6.0
55 years and over	3.8	3.0	3.5	2.7	6.3	6.5	8.6	4.0
Women, 16 years and over	7.3	6.3	6.2	5.3	14.9	13.5	11.2	8.8
16 to 19 years	16.6	14.5	13.9	12.4	38.5	29.6	27.3	22.0
16 to 17 years	17.4	15.3	14.6	12.9	40.9	32.6	24.4	20.4
18 to 19 years	16.1	13.9	13.4	11.9	37.0	27.6	29.2	22.9
20 to 24 years	10.6	9.6	8.3	7.8	24.6	22.4	13.4	12.6
25 years and over	5.7	5.0	5.1	4.2	10.7	10.3	9.0	6.6
25 to 54 years	6.1	5.3	5.4	4.4	11.5	11.1	9.2	6.8
55 years and over	3.6	3.1	3.4	2.9	5.2	4.8	6.8	4.4

**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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
DURATION								
Total, 16 years and over	8,147	7,133	5,971	5,187	1,910	1,704	878	683
Less than 5 weeks	3,541	3,303	2,658	2,472	774	708	436	354
5 to 14 weeks	2,536	2,115	1,840	1,496	606	553	258	193
15 weeks and over	2,070	1,715	1,472	1,218	529	444	183	135
15 to 26 weeks	881	724	633	520	214	180	80	63
27 weeks and over	1,189	991	839	698	315	264	103	73
Average (mean) duration, in weeks	14.9	13.8	14.4	13.5	16.4	15.1	12.7	11.7
Median duration, in weeks	6.5	5.9	6.2	5.5	7.2	6.9	5.1	4.8
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	43.5	46.3	44.5	47.7	40.6	41.5	49.7	51.9
5 to 14 weeks	31.1	29.7	30.8	28.8	31.8	32.4	29.4	28.3
15 weeks and over	25.4	24.0	24.7	23.5	27.7	26.0	20.8	19.8
15 to 26 weeks	10.8	10.2	10.6	10.0	11.2	10.6	9.1	9.2
27 weeks and over	14.6	13.9	14.1	13.5	16.5	15.5	11.7	10.6

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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
NUMBER OF UNEMPLOYED								
Total, 16 years and over	8,147	7,133	5,971	5,187	1,910	1,704	878	683
Job losers	3,710	3,157	2,761	2,347	840	733	451	342
On layoff	902	737	740	587	135	138	98	73
Other job losers	2,808	2,420	2,021	1,760	705	596	353	268
Job leavers	1,089	1,072	896	861	168	173	90	89
Reentrants	2,214	1,959	1,572	1,373	555	516	194	141
New entrants	1,135	944	742	606	347	282	143	112
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	45.5	44.3	46.2	45.2	44.0	43.0	51.4	50.0
On layoff	11.1	10.3	12.4	11.3	7.1	8.1	11.2	10.7
Other job losers	34.5	33.9	33.8	33.9	36.9	35.0	40.2	39.3
Job leavers	13.4	15.0	15.0	16.6	8.8	10.2	10.2	13.0
Reentrants	27.2	27.5	26.3	26.5	29.1	30.3	22.1	20.6
New entrants	13.9	13.2	12.4	11.7	18.2	16.5	16.2	16.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	3.1	2.6	2.7	2.3	6.5	5.5	5.5	4.0
Job leavers .....	.9	.9	.9	.8	1.3	1.3	1.1	1.0
Reentrants	1.9	1.6	1.5	1.3	4.3	3.9	2.3	1.6
New entrants	1.0	.8	.7	.6	2.7	2.1	1.7	1.3

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-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							
	III 1986	III 1987	Total		Employed		Unemployed			
			III 1986	III 1987	III 1986	III 1987	Number		Percent of labor force	
							III 1986	III 1987	III 1986	III 1987
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,760	7,847	7,196	7,243	6,876	6,911	319	331	4.4	4.6
30 to 34 years	6,370	6,183	6,090	5,901	5,800	5,620	290	281	4.8	4.8
35 to 39 years	1,120	895	1,055	845	983	774	72	71	6.9	8.4
40 to 44 years	3,009	2,552	2,881	2,432	2,743	2,314	138	119	4.8	4.9
45 years and over	2,241	2,736	2,153	2,623	2,074	2,532	79	91	3.7	3.5
	1,390	1,663	1,106	1,342	1,076	1,292	30	50	2.7	3.8
NONVETERANS										
Total, 30 to 44 years	18,708	19,587	17,737	18,589	16,835	17,810	902	779	5.1	4.2
30 to 34 years	8,704	8,905	8,288	8,519	7,849	8,138	439	382	5.3	4.5
35 to 39 years	5,839	6,262	5,535	5,941	5,251	5,710	284	231	5.1	3.9
40 to 44 years	4,165	4,420	3,914	4,129	3,735	3,962	179	167	4.6	4.0

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	
	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987	III 1986	III 1987
TOTAL, 30 to 44 years												
Civilian noninstitutional population	5,667	5,501	604	581	314	293	15,942	16,833	1,851	1,980	1,564	1,741
Civilian labor force	5,437	5,275	556	529	295	274	15,245	16,089	1,642	1,792	1,453	1,624
Employed	5,203	5,059	511	471	267	258	14,593	15,505	1,442	1,636	1,328	1,518
Unemployed	234	216	45	58	28	16	652	584	200	156	125	106
Unemployment rate	4.3	4.1	8.0	11.0	9.4	6.0	4.3	3.6	12.2	8.7	8.6	6.5
30 to 34 years												
Civilian noninstitutional population	949	761	145	108	71	65	7,414	7,678	862	914	717	750
Civilian labor force	901	719	129	101	67	60	7,128	7,395	761	844	665	706
Employed	846	670	113	82	61	53	6,807	7,106	666	763	603	657
Unemployed	55	49	16	19	7	7	321	289	95	81	61	49
Unemployment rate	6.1	6.8	12.5	19.0	9.9	11.5	4.5	3.9	12.5	9.6	9.2	6.9
35 to 39 years												
Civilian noninstitutional population	2,689	2,257	277	257	152	127	4,959	5,357	570	625	481	540
Civilian labor force	2,586	2,165	253	233	139	119	4,740	5,115	514	567	447	507
Employed	2,477	2,076	232	207	122	111	4,545	4,950	444	521	400	477
Unemployed	110	89	21	26	17	8	195	165	70	46	46	30
Unemployment rate	4.2	4.1	8.2	11.1	12.2	6.9	4.1	3.2	13.6	8.1	10.3	5.9
40 to 44 years												
Civilian noninstitutional population	2,030	2,483	181	215	91	101	3,569	3,797	419	441	366	451
Civilian labor force	1,950	2,391	174	195	89	96	3,377	3,579	367	382	342	412
Employed	1,881	2,314	166	182	84	94	3,242	3,449	332	353	324	385
Unemployed	69	77	8	13	4	1	136	129	35	29	18	27
Unemployment rate	3.6	3.2	4.4	6.6	4.7	1.3	4.0	3.6	9.7	7.6	5.2	6.6

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	III 1986					III 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
TOTAL										
Total families	63,104	6,081	28.4	71.6	63.0	64,057	5,380	27.5	72.5	63.7
With children under 18 years of age	31,517	3,733	30.4	69.6	60.7	31,690	3,286	29.3	70.7	61.9
Married-couple families	50,195	4,243	19.3	80.7	72.3	50,691	3,698	17.7	82.3	73.7
With children under 18 years of age	24,214	2,634	18.1	81.9	73.1	24,286	2,285	16.3	83.7	75.2
Families maintained by women	10,405	1,501	51.5	48.5	38.5	10,637	1,366	51.4	48.6	38.9
With children under 18 years of age	6,347	962	60.9	39.1	29.4	6,373	879	60.3	39.7	29.9
Families maintained by men	2,504	337	40.1	59.9	54.3	2,729	316	38.8	61.2	53.0
With children under 18 years of age	956	136	52.9	47.1	43.4	1,031	123	49.6	50.4	43.1
White										
Total families	54,467	4,559	25.9	74.1	65.8	55,171	4,005	23.7	76.3	67.1
With children under 18 years of age	26,319	2,752	27.3	72.7	63.8	26,491	2,388	24.2	75.8	66.3
Married-couple families	45,371	3,501	19.7	80.3	72.2	45,753	3,063	17.4	82.6	73.5
With children under 18 years of age	21,424	2,141	18.7	81.3	72.6	21,529	1,866	16.4	83.6	74.7
Families maintained by women	7,144	822	49.0	51.0	40.9	7,313	727	45.9	54.1	43.5
With children under 18 years of age	4,144	510	58.4	41.6	30.8	4,169	440	52.5	47.5	35.2
Families maintained by men	1,951	236	38.6	61.4	57.2	2,105	216	38.0	62.0	55.6
With children under 18 years of age	750	101	51.5	48.5	45.5	793	83	50.0	50.0	43.9
Black										
Total families	6,949	1,318	36.8	63.2	53.7	7,119	1,181	40.7	59.3	51.6
With children under 18 years of age	4,152	856	40.4	59.6	50.8	4,176	776	45.1	54.9	48.1
Married-couple families	3,518	590	16.8	83.2	73.2	3,553	504	18.8	81.2	74.2
With children under 18 years of age	1,947	395	14.7	85.3	76.2	1,935	330	14.6	85.4	78.7
Families maintained by women	2,982	640	54.5	45.5	36.5	3,056	592	59.5	40.5	32.4
With children under 18 years of age	2,032	427	63.2	36.8	28.3	2,046	413	69.4	30.6	23.8
Families maintained by men	450	89	43.2	56.8	50.0	509	86	40.7	59.3	48.8
With children under 18 years of age	173	34	(¹)	(¹)	(¹)	195	33	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,228	629	32.0	68.0	60.3	4,420	544	27.2	72.8	61.9
With children under 18 years of age	2,728	426	34.7	65.3	56.3	2,857	363	29.8	70.2	57.6
Married-couple families	2,976	444	25.0	75.0	66.9	3,118	386	21.8	78.2	67.4
With children under 18 years of age	1,945	318	25.2	74.8	66.2	2,053	269	22.3	77.7	65.4
Families maintained by women	1,011	137	51.1	48.9	40.9	1,012	122	43.1	56.9	44.7
With children under 18 years of age	698	86	59.3	40.7	29.1	695	77	50.0	50.0	34.6
Families maintained by men	241	48	(¹)	(¹)	(¹)	290	36	(¹)	(¹)	(¹)
With children under 18 years of age	84	22	(¹)	(¹)	(¹)	109	16	(¹)	(¹)	(¹)

¹ 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	III 1986				III 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
TOTAL								
Total unemployed in families ¹	6,742	30.7	89.3	60.7	5,890	29.6	70.4	61.6
Husbands	1,453	40.5	59.5	46.3	1,283	35.6	64.4	50.1
With children under 18 years of age	952	43.5	56.5	42.5	825	38.2	61.8	47.8
Wives	1,440	18.2	83.8	76.5	1,204	14.2	85.8	79.4
With children under 18 years of age	935	14.1	85.9	78.2	800	12.6	87.4	80.5
Relatives in married-couple families	1,774	11.5	88.5	83.2	1,553	12.1	87.9	82.6
Women who maintain families	844	81.4	18.6	11.3	619	80.9	19.1	11.8
With children under 18 years of age	557	87.4	12.6	6.4	531	87.4	12.6	7.2
Relatives in families maintained by women	1,060	33.8	66.2	54.6	899	32.1	67.9	56.5
Men who maintain families	143	66.3	33.7	27.6	124	66.9	33.1	22.5
With children under 18 years of age	79	87.8	12.2	8.5	64	85.9	14.1	7.2
Relatives in families maintained by men	229	28.3	71.7	88.9	208	27.0	73.0	66.2
White								
Total unemployed in families ¹	4,937	28.6	71.4	83.1	4,294	26.0	74.0	64.8
Husbands	1,201	41.9	58.1	45.4	1,077	35.8	64.2	48.5
With children under 18 years of age	763	45.6	54.4	40.7	683	39.2	60.8	45.0
Wives	1,199	16.2	83.8	78.7	1,005	13.3	86.7	80.4
With children under 18 years of age	772	14.3	85.7	78.3	656	11.6	88.4	81.8
Relatives in married-couple families	1,393	11.1	88.9	83.7	1,201	11.0	89.0	83.2
Women who maintain families	360	76.4	23.8	14.3	303	73.4	26.6	17.8
With children under 18 years of age	298	85.3	14.7	6.6	247	81.8	18.2	11.3
Relatives in families maintained by women	529	33.6	66.4	55.0	479	30.4	69.6	58.8
Men who maintain families	98	66.4	33.6	29.2	83	67.1	32.9	24.5
With children under 18 years of age	56	(?)	(?)	(?)	41	(?)	(?)	(?)
Relatives in families maintained by men	156	26.6	73.4	70.3	146	27.4	72.6	67.9
Black								
Total unemployed in families ¹	1,582	36.8	63.2	53.7	1,393	41.5	58.5	51.0
Husbands	190	32.2	67.8	51.2	162	32.5	67.5	59.3
With children under 18 years of age	153	33.2	66.8	51.4	113	29.5	70.5	63.7
Wives	183	13.7	86.3	76.1	159	20.1	79.9	74.5
With children under 18 years of age	124	11.9	88.1	78.0	116	18.6	81.4	75.4
Relatives in married-couple families	324	13.5	86.5	80.9	294	17.5	82.5	78.6
Women who maintain families	268	87.4	12.6	7.8	299	89.1	10.9	5.8
With children under 18 years of age	245	89.5	10.5	6.4	273	92.5	7.5	3.6
Relatives in families maintained by women	512	33.6	66.4	54.8	392	35.0	65.0	53.0
Men who maintain families	41	(?)	(?)	(?)	31	(?)	(?)	(?)
With children under 18 years of age	22	(?)	(?)	(?)	17	(?)	(?)	(?)
Relatives in families maintained by men	64	30.7	69.3	82.2	55	28.2	71.8	63.0
Hispanic origin								
Total unemployed in families ¹	745	34.5	65.5	57.9	592	28.4	71.6	61.4
Husbands	177	52.8	47.2	39.2	145	44.7	55.3	40.7
With children under 18 years of age	127	57.9	42.1	34.5	115	48.9	51.1	36.2
Wives	146	20.5	79.5	70.8	121	15.6	84.4	77.4
With children under 18 years of age	109	19.1	80.9	70.9	85	14.6	85.4	76.8
Relatives in married-couple families	207	11.9	88.1	82.0	164	10.6	89.4	81.0
Women who maintain families	54	(?)	(?)	(?)	48	(?)	(?)	(?)
With children under 18 years of age	44	(?)	(?)	(?)	42	(?)	(?)	(?)
Relatives in families maintained by women	107	45.9	54.1	46.9	80	31.2	68.8	57.2
Men who maintain families	24	(?)	(?)	(?)	10	(?)	(?)	(?)
With children under 18 years of age	16	(?)	(?)	(?)	8	(?)	(?)	(?)
Relatives in families maintained by men	29	(?)	(?)	(?)	24	(?)	(?)	(?)

¹ 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.

² 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	III 1986			III 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
TOTAL								
Total employed in families ¹	90,941	22.7	77.3	66.7	93,054	22.2	77.8	67.2
Husbands	37,964	30.8	69.2	52.1	38,513	29.9	70.1	53.1
With children under 18 years of age	22,221	32.9	67.1	46.7	22,428	31.8	68.2	48.3
Wives	26,152	8.9	91.1	86.5	27,033	8.4	91.6	87.0
With children under 18 years of age	14,229	5.3	94.7	90.9	14,685	4.8	95.2	91.5
Relatives in married-couple families	13,163	6.3	93.7	90.0	13,124	6.8	93.2	89.6
Women who maintain families	5,755	59.7	40.3	27.6	5,966	59.5	40.5	27.8
With children under 18 years of age	3,779	75.0	25.0	13.2	3,886	76.0	24.0	13.0
Relatives in families maintained by women	4,682	24.7	75.3	65.4	4,910	24.5	75.5	65.4
Men who maintain families	1,799	51.6	48.4	37.4	1,952	51.2	48.8	36.8
With children under 18 years of age	781	76.9	23.1	12.5	845	79.4	20.6	9.7
Relatives in families maintained by men	1,426	16.3	83.7	76.5	1,556	15.4	84.6	77.4
White								
Total employed in families ¹	79,706	21.9	78.1	67.1	81,190	21.6	78.4	67.4
Husbands	34,393	31.1	68.9	51.1	34,825	30.3	69.7	52.1
With children under 18 years of age	19,833	33.4	66.6	45.3	20,062	32.4	67.6	46.7
Wives	23,405	8.5	91.5	86.9	24,127	8.1	91.9	87.4
With children under 18 years of age	12,500	4.8	95.2	91.5	12,901	4.2	95.8	92.1
Relatives in married-couple families	11,792	6.0	94.0	90.5	11,632	6.6	93.4	89.9
Women who maintain families	4,113	56.6	43.4	29.3	4,241	57.2	42.8	29.1
With children under 18 years of age	2,661	72.8	27.2	13.7	2,739	75.2	24.8	12.6
Relatives in families maintained by women	3,425	24.8	75.2	65.9	3,614	25.3	74.7	64.4
Men who maintain families	1,451	50.1	49.9	38.4	1,541	50.6	49.4	36.4
With children under 18 years of age	634	75.4	24.6	13.1	666	78.3	21.7	9.5
Relatives in families maintained by men	1,127	15.5	84.5	77.7	1,209	14.1	85.9	78.2
Black								
Total employed in families ¹	8,582	29.7	70.3	61.5	9,078	27.9	72.1	64.0
Husbands	2,528	26.1	73.9	62.3	2,604	24.1	75.9	64.8
With children under 18 years of age	1,655	25.4	74.6	62.1	1,663	23.4	76.6	65.5
Wives	1,951	13.4	86.6	81.1	2,086	12.2	87.8	82.6
With children under 18 years of age	1,243	10.5	89.5	85.1	1,293	9.2	90.8	85.7
Relatives in married-couple families	981	10.7	89.3	83.3	1,045	9.6	90.4	86.6
Women who maintain families	1,490	68.8	31.2	22.4	1,571	66.0	34.0	24.5
With children under 18 years of age	1,032	80.7	19.3	11.6	1,062	78.7	21.3	13.4
Relatives in families maintained by women	1,124	24.6	75.4	63.6	1,174	22.6	77.4	68.1
Men who maintain families	278	60.0	40.0	33.3	330	56.3	43.7	37.1
With children under 18 years of age	123	86.0	14.0	9.5	151	85.1	14.9	9.0
Relatives in families maintained by men	230	22.4	77.6	68.8	268	22.7	77.3	71.9
Hispanic origin								
Total employed in families ¹	5,976	24.7	75.3	66.1	6,415	25.6	74.4	65.3
Husbands	2,354	35.7	64.3	51.5	2,500	37.1	62.9	50.3
With children under 18 years of age	1,669	39.1	60.9	47.2	1,804	39.1	60.9	47.2
Wives	1,449	8.3	91.7	85.5	1,556	8.0	92.0	86.3
With children under 18 years of age	947	7.4	92.6	86.3	1,051	6.3	93.7	88.0
Relatives in married-couple families	935	5.2	94.8	89.2	997	7.0	93.0	86.8
Women who maintain families	470	59.1	40.9	30.7	488	64.7	35.3	26.3
With children under 18 years of age	314	73.2	26.8	19.0	330	79.6	20.4	13.6
Relatives in families maintained by women	422	22.0	78.0	69.0	412	22.4	77.6	67.8
Men who maintain families	184	43.0	57.0	51.9	235	41.7	58.3	49.6
With children under 18 years of age	63	78.4	21.6	18.9	88	78.9	21.1	15.8
Relatives in families maintained by men	162	9.8	90.2	84.8	227	5.7	94.3	87.1

¹ 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	
	III 1986	III 1987	III 1986	III 1987
TOTAL				
Total families with earners ¹	42,047	43,008	\$551	\$578
Married-couple families	33,547	34,077	607	644
One earner	12,964	12,720	396	403
Husband	9,997	9,665	457	470
Wife	2,255	2,217	226	246
Other family member	712	837	209	216
Two or more earners	20,583	21,358	748	790
Husband and wife	17,638	18,428	762	800
Husband and other family member(s)	2,250	2,239	723	771
Wife and other family member(s)	522	572	520	580
Other family members only	174	119	537	550
Families maintained by women	6,632	6,987	306	316
One earner	4,474	4,626	238	250
Householder	3,405	3,518	248	260
Other family member	1,069	1,108	204	212
Two or more earners	2,158	2,361	499	527
Families maintained by men	1,869	1,943	498	495
One earner	1,125	1,090	388	367
Two or more earners	743	853	667	691
White				
Total families with earners ¹	35,941	36,674	575	598
Married-couple families	29,834	30,336	618	653
One earner	11,570	11,421	409	412
Husband	9,076	8,777	471	478
Wife	1,887	1,909	230	243
Two or more earners	18,264	18,915	762	796
Husband and wife	15,637	16,383	775	804
Families maintained by women	4,660	4,892	318	326
Families maintained by men	1,447	1,446	522	508
Black				
Total families with earners ¹	4,888	5,083	385	409
Married-couple families	2,736	2,738	490	540
One earner	1,005	933	253	295
Husband	610	607	302	333
Wife	299	248	204	249
Two or more earners	1,732	1,805	623	702
Husband and wife	1,472	1,522	634	744
Families maintained by women	1,795	1,925	268	293
Families maintained by men	357	421	388	385
Hispanic origin				
Total families with earners ¹	2,970	3,228	431	417
Married-couple families	2,253	2,422	486	468
One earner	909	1,041	284	285
Husband	740	835	301	303
Wife	130	148	228	235
Two or more earners	1,344	1,382	620	616
Husband and wife	1,046	1,096	630	625
Families maintained by women	532	573	277	275
Families maintained by men	185	232	353	443

¹ 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	
	III 1986	III 1987	III 1986	III 1987
Married-couple families ¹	3,007	2,760	\$410	\$407
Husband unemployed	833	874	243	264
Wife only earner	666	684	225	247
Wife and other earner(s)	112	107	460	550
Other earner(s) only	54	83	(²)	(²)
Wife unemployed	1,099	941	390	434
Husband only earner	902	766	360	398
Husband and other earner(s)	163	158	662	679
Other earner(s) only	33	17	(²)	(²)
Other member(s) unemployed	1,075	945	626	627
Husband or wife earner	446	409	489	469
Both husband and wife earners	588	471	775	797
Other combinations of earners	41	65	(²)	(²)
Families maintained by women ¹	691	595	271	265
Householder unemployed	123	112	167	206
Other member(s) unemployed	569	482	299	279
Families maintained by men ¹	185	180	424	388

¹ 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.

² Data not shown where base is less than 100,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	III 1986	III 1987	III 1986	III 1987
SEX AND AGE				
Total, 16 years and over	80,928	82,909	\$354	\$371
Men, 16 years and over	47,454	48,541	414	428
16 to 24 years	7,791	7,706	237	251
25 years and over	39,664	40,835	461	477
Women, 16 years and over	33,473	34,368	287	301
16 to 24 years	6,149	6,080	212	220
25 years and over	27,325	28,288	309	321
FAMILY RELATIONSHIP				
Husbands	30,607	31,154	473	486
Wives	16,888	17,652	300	317
Women who maintain families	4,508	4,757	280	294
Men who maintain families	1,473	1,529	440	406
Other persons in families:				
Men	7,297	7,493	241	259
Women	4,946	4,991	216	223
All other men ¹	8,076	8,360	395	401
All other women ¹	7,133	6,973	317	322
RACE AND HISPANIC ORIGIN				
White	69,633	71,033	365	381
Men	41,481	42,274	425	443
Women	28,153	28,759	292	305
Black	8,857	9,386	288	300
Men	4,608	4,884	320	328
Women	4,250	4,501	259	274
Hispanic origin	5,837	6,236	273	273
Men	3,718	3,945	296	299
Women	2,119	2,291	236	235

¹ 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	
	III 1986	III 1987	III 1986	III 1987
SEX AND AGE				
Total, 16 years and over	17,182	17,731	\$101	\$105
Men, 16 years and over	5,382	5,504	98	100
16 to 24 years	3,111	3,109	84	88
25 years and over	2,270	2,395	126	122
Women, 16 years and over	11,800	12,227	103	108
16 to 24 years	3,819	3,951	81	87
25 years and over	7,981	8,276	117	123
FAMILY RELATIONSHIP				
Husbands	1,409	1,460	125	130
Wives	6,232	6,444	118	126
Women who maintain families	848	867	113	116
Men who maintain families	84	150	(¹)	119
Other persons in families:				
Men	3,039	3,109	83	87
Women	3,287	3,370	79	81
All other men ²	848	782	123	114
All other women ²	1,435	1,548	106	109
RACE AND HISPANIC ORIGIN				
White	15,098	15,541	103	107
Men	4,603	4,697	99	100
Women	10,495	10,844	104	110
Black	1,642	1,723	92	94
Men	619	641	87	96
Women	1,023	1,082	95	93
Hispanic origin	988	1,136	107	109
Men	385	475	108	109
Women	602	661	106	108

¹ Data not shown where base is less than 100,000.

² 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	
	III 1986	III 1987	III 1986	III 1987
TOTAL				
Managerial and professional specialty	20,103	20,901	\$502	\$519
Executive, administrative, and managerial	9,646	10,359	504	526
Professional specialty	10,456	10,542	501	515
Technical, sales, and administrative support	24,516	25,259	320	331
Technicians and related support	2,901	2,919	416	422
Sales occupations	7,691	7,968	355	372
Administrative support, including clerical	13,924	14,372	297	308
Service occupations	8,500	8,686	219	232
Private household	361	303	105	131
Protective service	1,675	1,760	378	425
Service, except private household and protective	6,464	6,623	207	215
Precision production, craft, and repair	11,032	11,369	402	415
Mechanics and repairers	3,766	3,871	402	419
Construction trades	3,601	3,800	397	416
Other precision production, craft, and repair	3,664	3,699	409	411
Operators, fabricators, and laborers	15,220	15,183	303	308
Machine operators, assemblers, and inspectors	7,650	7,690	291	292
Transportation and material moving occupations	3,864	3,869	381	392
Handlers, equipment cleaners, helpers, and laborers	3,706	3,625	263	274
Farming, forestry, and fishing	1,558	1,510	211	217
Men				
Managerial and professional specialty	11,236	11,503	613	634
Executive, administrative, and managerial	5,884	6,185	622	648
Professional specialty	5,352	5,319	608	621
Technical, sales, and administrative support	9,086	9,542	445	451
Technicians and related support	1,663	1,617	486	495
Sales occupations	4,444	4,735	466	477
Administrative support, including clerical	2,979	3,190	401	408
Service occupations	4,076	4,307	273	294
Private household	16	17	(¹)	(¹)
Protective service	1,483	1,553	393	445
Service, except private household and protective	2,577	2,737	230	248
Precision production, craft, and repair	10,152	10,503	412	423
Mechanics and repairers	3,646	3,732	401	418
Construction trades	3,534	3,756	397	417
Other precision production, craft, and repair	2,972	3,015	453	442
Operators, fabricators, and laborers	11,520	11,333	335	348
Machine operators, assemblers, and inspectors	4,652	4,567	351	353
Transportation and material moving occupations	3,698	3,718	385	395
Handlers, equipment cleaners, helpers, and laborers	3,170	3,048	268	288
Farming, forestry, and fishing	1,385	1,352	216	222
Women				
Managerial and professional specialty	8,867	9,397	414	446
Executive, administrative, and managerial	3,762	4,174	392	417
Professional specialty	5,105	5,223	428	466
Technical, sales, and administrative support	15,431	15,717	280	291
Technicians and related support	1,238	1,302	342	367
Sales occupations	3,247	3,233	236	237
Administrative support, including clerical	10,945	11,182	282	294
Service occupations	4,423	4,379	192	199
Private household	345	286	104	131
Protective service	192	207	262	323
Service, except private household and protective	3,886	3,886	196	201
Precision production, craft, and repair	880	867	268	303
Mechanics and repairers	120	139	445	441
Construction trades	67	44	(¹)	(¹)
Other precision production, craft, and repair	693	684	251	284
Operators, fabricators, and laborers	3,700	3,850	222	227
Machine operators, assemblers, and inspectors	2,997	3,123	219	226
Transportation and material moving occupations	167	151	284	324
Handlers, equipment cleaners, helpers, and laborers	536	577	234	220
Farming, forestry, and fishing	172	158	170	187

¹ 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	3rd Quarter 1987							
	Metropolitan areas			Nonmetropolitan areas			Urban areas	Rural areas
	Total	Central cities	Suburbs	Total	Farm	Nonfarm		
TOTAL								
Civilian noninstitutional population	142,801	57,202	85,599	40,214	2,803	37,411	134,749	48,267
Civilian labor force	95,924	37,146	58,778	25,277	2,002	23,276	89,646	31,556
Percent of population	67.2	64.9	68.7	62.9	71.4	62.2	66.5	65.4
Employed	90,434	34,463	55,971	23,634	1,956	21,678	84,253	29,816
Unemployed	5,490	2,683	2,806	1,643	46	1,597	5,393	1,740
Unemployment rate	5.7	7.2	4.8	6.5	2.3	6.9	6.0	5.5
Not in labor force	46,878	20,056	26,821	14,937	802	14,135	45,103	16,712
Men, 20 years and over								
Civilian noninstitutional population	62,095	24,353	37,743	17,571	1,325	16,246	57,997	21,669
Civilian labor force	48,292	18,728	30,564	13,139	1,128	12,010	45,611	16,819
Percent of population	79.4	76.9	81.0	74.8	85.1	73.9	78.6	77.6
Employed	46,963	17,565	29,399	12,486	1,112	11,373	43,339	16,110
Unemployed	2,329	1,164	1,165	653	16	637	2,273	709
Unemployment rate	4.7	6.2	3.8	5.0	1.4	5.3	5.0	4.2
Not in labor force	12,803	5,624	7,179	4,432	197	4,235	12,385	4,850
Women, 20 years and over								
Civilian noninstitutional population	69,333	28,477	40,856	19,379	1,245	18,134	66,250	22,462
Civilian labor force	39,646	15,933	23,714	10,172	714	9,458	37,618	12,201
Percent of population	57.2	55.9	58.0	52.5	57.3	52.2	56.8	54.3
Employed	37,484	14,878	22,605	9,526	696	8,831	35,481	11,529
Unemployed	2,163	1,054	1,109	646	18	627	2,137	672
Unemployment rate	5.5	6.6	4.7	6.3	2.6	6.6	5.7	5.5
Not in labor force	29,686	12,544	17,142	9,207	531	8,676	28,632	10,262
Both sexes, 16 to 19 years								
Civilian noninstitutional population	11,373	4,373	7,000	3,264	233	3,032	10,502	4,136
Civilian labor force	6,985	2,485	4,500	1,967	159	1,807	6,416	2,536
Percent of population	61.4	56.8	64.3	60.2	68.5	59.6	61.1	61.3
Employed	5,987	2,020	3,967	1,622	148	1,474	5,434	2,176
Unemployed	998	465	533	345	11	333	983	360
Unemployment rate	14.3	18.7	11.8	17.5	7.1	18.4	15.3	14.2
Not in labor force	4,388	1,888	2,500	1,298	73	1,224	4,086	1,600
White								
Civilian noninstitutional population	121,079	42,874	78,206	36,065	2,717	33,348	112,429	44,716
Civilian labor force	81,532	28,070	53,462	22,772	1,940	20,832	74,986	29,318
Percent of population	67.3	65.5	68.4	63.1	71.4	62.5	66.7	65.6
Employed	77,657	26,543	51,113	21,461	1,898	19,563	71,284	27,833
Unemployed	3,876	1,527	2,348	1,311	41	1,270	3,702	1,484
Unemployment rate	4.8	5.4	4.4	5.8	2.1	6.1	4.9	5.1
Not in labor force	39,547	14,803	24,744	13,294	778	12,516	37,442	15,398
Black								
Civilian noninstitutional population	16,982	11,936	5,045	3,416	73	3,344	17,578	2,820
Civilian labor force	11,216	7,543	3,673	2,077	59	2,024	11,513	1,780
Percent of population	66.0	63.2	72.8	60.8	72.5	60.5	65.5	63.1
Employed	9,791	6,467	3,304	1,797	49	1,749	10,013	1,575
Unemployed	1,425	1,056	369	279	4	275	1,499	205
Unemployment rate	12.7	14.0	10.0	13.5	(¹)	13.6	13.0	11.5
Not in labor force	5,766	4,393	1,372	1,340	20	1,320	6,066	1,040
Hispanic origin								
Civilian noninstitutional population	11,950	6,944	5,006	976	51	925	11,921	1,004
Civilian labor force	7,980	4,487	3,493	642	33	609	7,935	687
Percent of population	66.8	64.6	69.8	65.8	(¹)	65.9	66.6	68.4
Employed	7,373	4,097	3,276	567	31	536	7,310	630
Unemployed	608	390	217	75	2	73	625	58
Unemployment rate	7.6	8.7	6.2	11.7	(¹)	12.0	7.9	8.4
Not in labor force	3,969	2,457	1,512	334	18	316	3,987	317

¹ 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	3rd Quarter 1987					
	Total United States		Metropolitan areas		Nonmetropolitan areas	
	Poverty areas	Nonpoverty areas	Poverty areas	Nonpoverty areas	Poverty areas	Nonpoverty areas
TOTAL						
Civilian noninstitutional population	27,321	155,695	18,274	124,528	9,047	31,167
Civilian labor force	15,689	105,512	10,373	85,551	5,316	19,961
Percent of population	57.4	67.8	56.8	68.7	58.8	64.0
Employed	13,937	100,131	9,119	81,316	4,819	18,816
Unemployed	1,752	5,381	1,254	4,235	498	1,145
Unemployment rate	11.2	5.1	12.1	5.0	9.4	5.7
Men, 20 years and over	9.3	4.1	10.5	4.0	7.0	4.4
Women, 20 years and over	10.6	4.9	11.5	4.7	8.7	5.7
Both sexes, 16 to 19 years	26.4	13.2	25.5	12.8	28.1	14.7
Men	27.8	13.5	27.4	13.3	28.5	14.0
Women	24.8	12.9	23.6	12.2	27.5	15.4
Not in labor force	11,632	50,183	7,901	38,977	3,731	11,206
White						
Civilian noninstitutional population	16,379	140,766	9,761	111,318	6,618	29,448
Civilian labor force	9,549	94,755	5,630	75,903	3,919	18,853
Percent of population	58.3	67.3	57.7	68.2	59.2	64.0
Employed	8,779	90,339	5,133	72,523	3,646	17,815
Unemployed	770	4,416	497	3,379	274	1,037
Unemployment rate	8.1	4.7	8.8	4.5	7.0	5.5
Men, 20 years and over	6.8	3.8	7.4	3.7	5.9	4.3
Women, 20 years and over	7.5	4.4	8.3	4.2	6.4	5.4
Both sexes, 16 to 19 years	20.2	11.8	21.3	11.2	18.4	14.2
Men	21.8	11.9	23.3	11.5	19.6	13.4
Women	18.1	11.8	18.9	10.9	16.9	15.0
Not in labor force	6,830	46,011	4,131	35,416	2,698	10,595
Black						
Civilian noninstitutional population	9,844	10,554	7,726	9,255	2,117	1,299
Civilian labor force	5,546	7,747	4,329	6,887	1,217	860
Percent of population	56.3	73.4	56.0	74.4	57.5	66.2
Employed	4,631	6,957	3,607	6,184	1,025	773
Unemployed	915	790	723	703	192	87
Unemployment rate	16.5	10.2	16.7	10.2	15.8	10.1
Men, 20 years and over	14.2	7.8	15.5	8.0	10.0	5.9
Women, 20 years and over	15.2	9.8	15.4	9.6	14.5	11.8
Both sexes, 16 to 19 years	35.9	26.5	31.4	27.2	48.7	22.1
Men	38.3	27.1	34.0	27.8	48.7	(¹)
Women	33.7	25.8	29.2	26.4	(¹)	(¹)
Not in labor force	4,298	2,808	3,397	2,368	901	439
Hispanic origin						
Civilian noninstitutional population	4,452	8,474	4,077	7,873	375	601
Civilian labor force	2,597	6,025	2,373	5,607	224	418
Percent of population	58.3	71.1	58.2	71.2	59.7	69.6
Employed	2,319	5,621	2,123	5,250	196	371
Unemployed	279	404	251	357	28	47
Unemployment rate	10.7	6.7	10.6	6.4	12.6	11.2
Men, 20 years and over	8.1	5.4	8.2	5.0	6.7	11.0
Women, 20 years and over	10.6	6.4	10.0	6.0	17.9	11.7
Both sexes, 16 to 19 years	27.6	19.1	27.1	20.0	32.3	(¹)
Men	26.7	19.8	26.5	20.2	(¹)	(¹)
Women	28.8	18.2	28.1	19.6	(¹)	(¹)
Not in labor force	1,855	2,449	1,703	2,266	151	183

¹ 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						
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Government		
													Federal	State	Local
Annual averages															
1935	27,039	23,558	10,893	897	927	9,069	16,146	2,786	(¹)	(¹)	1,320	3,128	(¹)	(¹)	(¹)
1936	29,068	25,400	11,933	946	1,160	9,827	17,135	2,973	(¹)	(¹)	1,373	3,312	(¹)	(¹)	(¹)
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	(¹)	(¹)	1,417	3,503	(¹)	(¹)	(¹)
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	(¹)	(¹)	1,410	3,458	(¹)	(¹)	(¹)
1939	30,603	26,808	12,297	854	1,165	10,278	18,306	2,936	(¹)	(¹)	1,447	3,502	905	(¹)	(¹)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	(¹)	(¹)	1,485	3,665	996	(¹)	(¹)
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	(¹)	(¹)
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,480	1,906	5,212	1,509	4,066	2,213	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
1952	48,793	42,185	20,198	898	2,668	16,632	26,595	4,248	2,812	7,192	2,035	5,699	2,420	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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	(¹)	(¹)
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 ²	53,288	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	18,796	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	3,908	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,840	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	18,082	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	3,587	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	24,381	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	2,864	7,158
1971	71,214	58,331	22,935	609	3,704	18,823	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	78,945	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	19,882	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	90,408	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	65,599	5,185	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,568	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	74,930	23,334	952	3,948	18,434	68,866	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	69,789	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	72,660	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:															
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	4,948	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	5,288	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	76,839	5,348	5,772	18,197	6,558	23,926	2,933	3,943	10,162
May	101,708	84,677	24,752	735	4,999	19,018	76,956	5,344	5,775	18,205	6,578	24,025	2,935	3,947	10,149
June	101,818	84,787	24,761	738	5,008	19,015	77,057	5,350	5,781	18,226	6,586	24,083	2,935	3,932	10,164
July	102,126	85,106	24,850	744	5,002	19,104	77,276	5,363	5,797	18,274	6,608	24,214	2,936	3,952	10,132
August ^p	102,278	85,226	24,885	752	5,007	19,126	77,393	5,377	5,805	18,254	6,628	24,277	2,940	3,970	10,142
September ^p	102,410	85,364	24,912	756	4,974	19,182	77,498	5,385	5,806	18,324	6,626	24,311	2,960	3,975	10,111

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

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

**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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Total		99,641	100,549	101,947	102,154	102,925					
Total private		83,967	84,025	85,752	86,103	86,154	68,018	68,080	69,397	69,706	69,733
Mining		753	740	749	756	757	528	521	536	543	545
Metal mining	10	38.8	38.9	44.1	44.2		28.6	28.8	32.8	33.2	
Iron ores	101	6.9	6.7	9.2	9.5		5.1	4.9	6.9	7.3	
Copper ores	102	10.8	10.9	12.7	12.7		8.3	8.5	10.1	10.1	
Coal mining	11,12	173.7	172.9	160.6	162.8		141.7	141.6	130.6	132.9	
Bituminous coal and lignite mining	12	171.2	170.4	158.4	160.8		139.7	139.5	128.8	131.2	
Oil and gas extraction	13	426.7	415.7	428.0	432.9	431.9	269.3	263.7	282.2	286.7	
Crude petroleum, natural gas, and natural gas liquids	131,2	216.7	211.0	205.4	204.5	-	106.6	103.0	101.0	100.5	
Oil and gas field services	138	208.0	204.7	222.6	228.4		162.7	160.7	181.2	186.2	
Nonmetallic minerals, except fuels	14	113.9	112.2	116.4	116.0		88.1	87.0	90.2	90.1	
Crushed and broken stone	142	41.3	40.6	42.5	42.5		33.6	33.0	34.2	34.1	
Sand and gravel	144	35.5	35.2	35.8	35.5		-	-	-	-	
Chemical and fertilizer minerals	147	17.7	17.1	18.2	18.2		-	-	-	-	
Construction		5,301	5,258	5,307	5,367	5,287	4,222	4,184	4,175	4,238	4,163
General building contractors	15	1,380.9	1,354.5	1,337.1	1,346.4	1,309.5	1,037.1	1,013.4	987.2	996.4	
Residential building construction	152	709.0	690.2	701.6	701.5	-	520.9	502.8	504.6	504.8	
Operative builders	153	59.2	57.1	56.5	56.0		32.3	30.8	28.9	28.4	
Nonresidential building construction	154	612.7	607.2	579.0	588.9		483.9	479.8	453.7	463.2	
Heavy construction contractors	16	849.5	853.6	843.8	855.8		718.3	723.1	715.0	726.2	
Highway and street construction	161	325.9	328.0	341.1	346.7		279.6	281.5	291.4	296.3	
Heavy construction, except highway	162	523.6	525.6	502.7	509.1		438.7	441.6	423.6	429.9	
Special trade contractors	17	3,070.3	3,049.9	3,125.7	3,165.0		2,466.7	2,447.6	2,473.2	2,515.1	
Plumbing, heating, and air conditioning	171	652.0	649.3	677.5	682.5		486.7	484.7	503.8	508.4	
Painting, paper hanging, and decorating	172	183.9	175.8	184.6	183.0		156.6	148.6	156.0	155.2	
Electrical work	173	546.4	545.5	555.2	565.6		428.4	428.3	429.8	441.3	
Masonry, stonework, and plastering	174	508.9	510.8	516.5	520.3		439.8	441.0	440.1	444.3	
Carpentering and flooring	175	191.3	187.5	184.5	184.0		150.1	147.2	141.8	142.4	
Roofing and sheet metal work	176	226.9	227.7	227.5	231.3		186.7	187.1	182.9	186.6	
Manufacturing		19,042	19,113	19,022	19,221	19,357	12,925	13,017	12,913	13,107	13,263
Durable goods		11,198	11,251	11,142	11,235	11,347	7,373	7,442	7,354	7,452	7,571
Lumber and wood products	24	737.0	736.8	758.9	762.5	760.6	622.2	621.2	637.1	639.6	636.2
Logging camps and logging contractors	241	89.9	91.9	86.9	87.1	-	76.8	78.5	73.3	73.6	-
Sawmills and planing mills	242	198.6	198.6	205.1	205.6		176.1	176.0	181.1	181.6	
Sawmills and planing mills, general	2421	162.9	162.3	167.7	167.4		144.8	144.0	148.1	147.9	
Hardwood dimension and flooring	2426	32.8	33.4	34.5	35.3		28.8	29.4	30.4	31.1	
Millwork, plywood, and structural members	243	255.9	254.5	270.3	271.0		213.2	211.9	224.4	224.7	
Millwork	2431	98.5	97.1	106.8	106.9		80.4	79.2	87.6	87.3	
Wood kitchen cabinets	2434	68.2	67.8	71.7	72.1		55.4	54.9	57.7	58.0	
Hardwood veneer and plywood	2435	23.7	23.8	24.6	25.2		20.7	21.0	21.5	22.1	
Softwood veneer and plywood	2436	37.3	38.3	39.4	39.2		34.4	35.2	35.9	35.6	
Wood containers	244	41.6	41.2	41.3	41.3		35.4	34.9	35.3	35.3	
Wood buildings and mobile homes	245	73.0	72.5	75.2	76.2		55.8	55.0	57.3	58.0	
Mobile homes	2451	49.8	49.6	50.8	51.4		40.1	39.8	41.2	41.6	
Miscellaneous wood products	249	78.0	78.1	80.1	81.3		64.9	64.9	65.7	66.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Durable goods—Continued											
Furniture and fixtures	25	497.2	500.3	504.3	516.2	522.3	396.5	400.5	402.5	413.1	418.2
Household furniture	251	291.5	294.1	298.0	303.8	-	244.5	247.7	251.3	256.7	-
Wood household furniture	2511	130.3	131.7	132.5	135.2	-	113.6	115.0	115.8	118.4	-
Upholstered household furniture	2512	94.1	94.1	97.2	99.4	-	78.1	78.3	81.2	83.3	-
Metal household furniture	2514	23.1	24.6	24.5	23.8	-	18.3	19.9	19.9	19.2	-
Mattresses and bedsprings	2515	30.0	30.1	30.5	31.5	-	22.9	23.1	23.1	24.1	-
Office furniture	252	67.3	66.8	66.5	69.2	-	51.7	51.3	50.1	52.2	-
Public building and related furniture	253	27.2	27.5	28.9	29.4	-	20.5	21.0	22.0	22.4	-
Partitions and fixtures	254	73.4	73.8	74.5	76.2	-	53.7	54.0	53.6	55.4	-
Miscellaneous furniture and fixtures	259	37.8	38.1	36.4	37.6	-	26.1	26.5	25.5	26.4	-
Stone, clay, and glass products	32	598.4	598.8	592.6	597.1	597.8	462.4	463.0	458.8	464.5	466.3
Flat glass	321	15.4	15.2	15.3	14.7	-	12.0	11.9	12.0	11.4	-
Glass and glassware, pressed or blown	322	90.4	91.0	86.8	87.5	-	77.1	77.8	74.2	75.1	-
Glass containers	3221	46.7	46.3	44.7	44.6	-	42.1	41.6	40.1	40.2	-
Pressed and blown glass, nec	3229	43.7	44.7	42.1	42.9	-	35.0	36.2	34.1	34.9	-
Products of purchased glass	323	50.6	50.9	51.4	52.3	-	35.5	36.0	36.2	37.0	-
Cement, hydraulic	324	23.0	22.6	22.3	22.2	-	18.0	17.7	17.4	17.3	-
Structural clay products	325	37.7	37.5	38.5	39.0	-	29.3	29.3	30.1	30.9	-
Pottery and related products	326	35.7	37.0	35.6	37.0	-	28.3	29.3	28.3	30.3	-
Concrete, gypsum, and plaster products	327	219.4	218.8	219.8	220.4	-	172.0	171.2	171.5	172.0	-
Concrete block and brick	3271	20.1	20.1	21.0	20.8	-	13.5	13.6	14.2	14.0	-
Concrete products, nec	3272	72.0	72.0	70.4	70.8	-	55.4	55.5	53.8	54.2	-
Ready-mixed concrete	3273	107.4	107.0	108.7	109.3	-	87.7	86.8	88.4	88.8	-
Misc. nonmetallic mineral products	329	113.5	113.1	110.1	110.7	-	80.3	79.9	79.3	80.2	-
Abrasive products	3291	20.6	20.9	20.4	20.4	-	13.6	13.8	13.7	13.8	-
Asbestos products	3292	9.2	9.1	9.4	9.3	-	7.0	7.0	7.2	7.2	-
Mineral wool	3296	27.7	27.7	24.4	24.6	-	-	-	-	-	-
Primary metal industries	33	734.6	731.6	742.9	753.1	768.2	548.5	546.4	556.8	568.2	583.1
Blast furnaces and basic steel products	331	265.4	258.6	277.9	279.5	283.1	201.9	195.1	209.8	211.8	215.3
Blast furnaces and steel mills	3312	199.0	192.6	211.8	212.5	-	153.0	146.4	161.5	162.6	-
Steel pipe and tubes	3317	23.3	22.9	23.3	23.6	-	16.8	16.5	16.8	17.3	-
Iron and steel foundries	332	128.4	129.4	129.0	129.8	-	100.5	102.2	100.9	102.1	-
Gray iron foundries	3321	81.0	81.6	79.3	80.2	-	65.6	66.6	63.9	65.0	-
Malleable iron foundries	3322	8.9	8.5	8.6	8.8	-	6.5	6.1	6.0	6.4	-
Steel foundries, nec	3325	25.5	26.2	27.1	26.7	-	18.5	19.3	20.3	19.9	-
Primary nonferrous metals	333	36.0	37.1	40.9	41.0	-	23.6	24.3	29.0	29.2	-
Primary aluminum	3334	18.1	19.2	22.7	22.9	-	11.4	12.1	16.1	16.4	-
Nonferrous rolling and drawing	335	179.3	180.2	172.8	176.1	-	124.7	126.2	122.6	126.4	-
Copper rolling and drawing	3351	23.0	23.2	22.4	23.0	-	17.9	18.1	17.3	17.9	-
Aluminum sheet, plate, and foil	3353	27.5	27.9	27.5	27.8	-	19.1	19.6	20.3	20.7	-
Nonferrous wire drawing and insulating	3357	76.2	77.0	72.1	74.1	-	52.4	53.2	49.9	52.3	-
Nonferrous foundries	336	85.0	85.4	81.3	85.4	-	67.9	68.5	64.4	68.4	-
Aluminum foundries	3361	52.2	52.6	49.5	52.1	-	42.4	42.9	39.7	42.5	-
Fabricated metal products	34	1,422.0	1,435.8	1,408.4	1,423.6	1,440.3	1,048.5	1,062.6	1,040.6	1,055.6	1,073.5
Metal cans and shipping containers	341	58.6	58.6	56.9	57.2	-	50.4	50.2	48.7	48.8	-
Metal cans	3411	47.5	47.4	45.8	46.1	-	41.7	41.5	39.8	40.0	-
Cutlery, hand tools, and hardware	342	134.0	135.4	129.9	131.7	-	97.9	99.4	94.9	96.8	-
Hand and edge tools, and hand saws and blades	3423.5	45.1	45.7	47.4	48.0	-	32.9	33.3	34.7	35.4	-
Hardware, nec	3429	76.6	77.3	72.0	72.8	-	56.8	57.8	53.3	54.1	-
Plumbing and heating, except electric	343	60.2	61.1	61.0	62.1	-	43.2	44.1	43.4	44.2	-
Plumbing fittings and brass goods	3432	23.7	23.7	24.6	24.5	-	17.2	17.3	17.8	17.7	-
Heating equipment, except electric	3433	26.5	27.4	25.9	27.3	-	18.4	19.2	17.6	18.9	-
Fabricated structural metal products	344	442.9	443.9	438.5	441.2	-	312.9	314.6	311.8	314.6	-
Fabricated structural metal	3441	79.2	78.7	77.2	77.4	-	56.2	55.8	55.1	55.5	-
Metal doors, sash, and trim	3442	95.2	94.9	98.3	99.4	-	71.4	71.1	73.7	74.3	-
Fabricated plate work (boiler shops)	3443	93.4	94.2	88.8	89.7	-	57.7	58.9	55.5	56.4	-
Sheet metal work	3444	111.1	111.8	111.0	111.4	-	83.0	83.7	83.5	84.3	-
Architectural metal work	3446	29.5	29.6	29.5	29.6	-	21.4	21.6	21.6	21.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	92.1	93.5	92.8	93.7		70.0	71.1	70.5	71.8	
Screw machine products	3451	43.5	44.3	44.5	44.6		35.3	35.9	36.3	36.6	
Bolts, nuts, rivets, and washers	3452	48.6	49.2	48.3	49.1		34.7	35.2	34.2	35.2	
Metal forgings and stampings	346	236.7	241.5	226.8	230.0		188.2	193.4	179.4	181.8	
Iron and steel forgings	3462	31.0	31.5	29.6	29.3		23.6	24.1	22.5	22.2	
Automotive stampings	3465	99.4	102.8	92.5	93.9		84.0	87.6	78.5	79.1	
Metal stampings, nec	3469	95.2	96.3	94.2	96.2		72.5	73.7	70.9	72.9	
Metal services, nec	347	109.5	110.4	113.3	115.3		87.6	88.5	90.2	92.4	
Plating and polishing	3471	71.7	72.1	72.7	74.7		57.8	58.2	58.3	60.3	
Metal coating and allied services	3479	37.8	38.3	40.6	40.6		29.8	30.3	31.9	32.1	
Ordnance and accessories, nec	348	75.4	78.2	79.3	80.0		46.1	48.1	49.8	51.3	
Ammunition, except for small arms, nec	3483	44.7	45.3	44.9	45.2		27.6	28.2	26.3	27.3	
Misc. fabricated metal products	349	212.6	213.2	209.9	212.4		152.2	153.2	151.9	153.9	
Valves and pipe fittings	3494	78.1	77.6	76.0	77.3		51.1	51.1	50.9	51.9	
Misc. fabricated wire products	3496	51.4	51.9	50.8	51.4		38.8	39.2	38.2	38.9	
Machinery, except electrical	35	2,038.3	2,029.4	2,024.7	2,031.1	2,051.5	1,206.0	1,200.2	1,199.4	1,208.8	1,230.4
Engines and turbines	351	100.0	100.6	97.0	96.2	-	61.2	61.8	61.2	60.9	-
Turbines and turbine generator sets	3511	32.8	32.5	28.5	28.2		17.5	17.4	14.8	14.9	
Internal combustion engines, nec	3519	67.2	68.1	68.5	68.0		43.7	44.4	46.4	46.0	
Farm and garden machinery	352	85.9	85.0	99.7	100.9		55.9	54.4	66.1	66.9	
Farm machinery and equipment	3523	64.7	61.8	75.5	75.9		40.6	37.0	48.4	48.6	
Construction and related machinery	353	222.9	217.5	218.8	220.8		135.4	131.2	129.8	131.7	
Construction machinery	3531	81.0	76.9	79.4	80.3		49.9	46.8	47.4	48.0	
Mining machinery	3532	19.5	19.3	19.5	19.7		12.2	12.0	11.8	11.9	
Oil field machinery	3533	43.8	43.1	41.4	42.1		25.5	24.9	24.3	25.0	
Conveyors and conveying equipment	3535	29.9	29.9	29.8	30.0		15.7	15.6	15.4	15.7	
Industrial trucks and tractors	3537	25.8	25.7	26.0	25.6		18.4	18.5	17.8	17.9	
Metalworking machinery	354	301.6	303.8	294.3	294.9		214.0	216.2	209.7	210.6	
Machine tools, metal cutting types	3541	49.3	49.0	45.0	44.8		30.9	30.6	28.1	28.1	
Machine tools, metal forming types	3542	19.3	19.4	18.7	18.5		11.7	11.9	11.6	11.5	
Special dies, tools, jigs, and fixtures	3544	141.0	142.3	140.5	141.2		108.6	109.9	107.1	107.7	
Machine tool accessories	3545	53.5	54.2	52.9	53.4		37.0	37.5	37.3	37.7	
Power driven hand tools	3546	21.1	21.4	21.0	21.0		15.2	15.6	15.5	15.6	
Special industry machinery	355	156.4	156.7	157.8	159.3		91.9	92.3	93.4	94.9	
Food products machinery	3551	36.7	37.0	37.7	37.9		22.0	22.2	22.8	23.0	
Textile machinery	3552	18.4	18.5	19.5	20.4		12.2	12.3	12.9	13.8	
Printing trades machinery	3555	27.1	27.0	26.7	26.6		15.7	15.5	15.7	15.5	
General industrial machinery	356	251.9	253.5	252.5	252.6		159.8	161.0	161.0	161.0	
Pumps and pumping equipment	3561	43.2	43.7	44.2	44.2		25.0	25.2	25.4	25.1	
Ball and roller bearings	3562	42.8	43.1	43.2	42.8		32.0	32.4	33.1	33.1	
Air and gas compressors	3563	22.4	22.1	21.4	21.8		12.8	12.4	12.0	12.2	
Blowers and fans	3564	30.4	31.0	30.8	30.8		19.3	19.8	19.9	19.9	
Speed changers, drives, and gears	3566	19.8	19.9	20.1	19.9		13.5	13.4	13.6	13.4	
Power transmission equipment, nec	3568	16.2	16.4	16.2	16.4		10.7	11.0	10.6	10.7	
Office and computing machines	357	475.3	468.6	457.6	457.6		161.8	156.5	148.8	150.8	
Electronic computing equipment	3573	419.1	412.3	401.7	402.2		138.3	132.8	124.9	127.4	
Refrigeration and service machinery	358	169.9	170.4	174.4	176.3		118.7	119.5	124.0	126.1	
Refrigeration and heating equipment	3585	121.5	121.8	125.6	127.3		86.8	87.4	91.5	93.3	
Misc. machinery, except electrical	359	274.4	273.3	272.6	272.5		207.3	207.3	205.4	205.9	
Carburetors, pistons, rings, and valves	3592	35.9	35.5	34.0	34.6		29.3	29.0	27.4	28.0	
Machinery, except electrical, nec	3599	238.5	237.8	238.6	237.9		178.0	178.3	178.0	177.9	
Electrical and electronic equipment	36	2,123.4	2,126.8	2,079.2	2,092.5	2,106.3	1,224.5	1,233.0	1,204.9	1,221.5	1,234.9
Electric distributing equipment	361	106.9	107.0	105.0	105.4	-	77.6	77.4	76.1	76.6	-
Transformers	3612	51.0	51.2	50.0	50.3		37.9	37.8	36.6	37.1	
Switchgear and switchboard apparatus	3613	55.9	55.8	55.0	55.1		39.7	39.6	39.5	39.5	
Electrical industrial apparatus	362	186.1	185.6	183.0	182.4		128.7	128.7	125.4	124.8	
Motors and generators	3621	89.7	90.1	89.3	87.8		69.0	69.5	68.0	66.5	
Industrial controls	3622	61.0	60.6	57.7	58.1		35.8	35.6	32.9	33.6	
Household appliances	363	136.2	137.6	135.6	136.6		106.0	107.3	107.7	108.6	
Household refrigerators and freezers	3632	26.4	27.1	28.5	28.4		20.7	21.3	23.4	23.2	
Household laundry equipment	3633	23.4	23.0	22.9	23.0		18.2	17.7	18.1	18.2	
Electric housewares and fans	3634	37.7	38.3	35.2	35.7		28.3	29.1	26.7	27.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	193.8	195.5	187.3	187.8		139.1	140.9	135.4	136.6	
Electric lamps	3641	27.3	27.3	27.2	26.7		23.3	23.3	23.2	22.7	
Current-carrying wiring devices	3643	75.8	76.4	72.6	72.2		48.5	49.1	47.9	48.2	
Noncurrent-carrying wiring devices	3644	16.9	17.1	15.7	16.1		11.9	12.1	11.1	11.5	
Residential lighting fixtures	3645	27.7	28.5	25.6	25.9		21.1	22.0	19.1	19.5	
Radio and TV receiving equipment	365	81.9	83.4	76.0	81.4		55.6	56.7	50.5	55.4	
Radio and TV receiving sets	3651	64.7	65.3	58.0	63.1		43.5	44.0	37.5	42.0	
Communication equipment	366	635.4	632.5	612.4	611.5		265.1	265.4	254.2	256.0	
Telephone and telegraph apparatus	3661	127.8	127.3	114.4	113.4		74.2	74.3	65.9	66.6	
Radio and TV communication equipment	3662	507.6	505.2	498.0	498.1		190.9	191.1	188.3	189.4	
Electronic components and accessories	367	631.5	631.3	632.1	637.7		348.5	349.9	352.8	358.8	
Electronic tubes	3671-3	39.9	39.7	37.3	38.0		24.1	24.1	23.5	24.2	
Semiconductors and related devices	3674	270.3	268.6	267.1	268.5		102.5	102.0	102.5	104.3	
Electronic components, nec	3679	250.3	252.1	256.3	259.0		168.9	170.5	173.1	175.9	
Misc. electrical equipment and supplies	369	151.6	153.9	147.8	149.7		103.9	106.7	102.8	104.7	
Storage batteries	3691	28.6	29.7	29.4	30.6		22.2	23.3	22.7	23.9	
Engine electrical equipment	3694	64.4	65.8	62.8	63.3		48.2	49.5	47.8	48.1	
Transportation equipment	37	1,979.3	2,022.9	1,974.8	1,990.9	2,024.8	1,216.7	1,265.9	1,216.3	1,231.8	1,273.0
Motor vehicles and equipment	371	831.5	864.9	803.5	818.3	844.1	626.8	664.6	615.9	629.9	658.6
Motor vehicles and car bodies	3711	370.9	396.0	336.6	348.4	-	265.4	293.2	245.2	256.5	-
Truck and bus bodies	3713	39.5	39.5	45.4	45.2		30.6	30.9	35.9	35.8	
Motor vehicle parts and accessories	3714	376.3	385.9	373.7	376.6		296.1	306.8	297.4	300.1	
Truck trailers	3715	29.9	28.9	31.3	31.5		23.3	22.5	24.4	24.6	
Aircraft and parts	372	675.4	681.6	693.2	691.8		326.9	334.4	340.7	339.6	
Aircraft	3721	340.9	342.6	359.4	361.0		147.0	149.1	158.1	160.2	
Aircraft engines and engine parts	3724	151.2	155.0	155.3	153.9		75.4	79.3	77.9	75.9	
Aircraft equipment, nec	3728	183.3	184.0	178.5	176.9		104.5	106.0	104.7	103.5	
Ship and boat building and repairing	373	162.6	184.3	183.0	183.8		136.9	139.3	135.1	136.3	
Ship building and repairing	3731	129.8	131.1	123.3	125.0		94.4	96.4	87.0	89.1	
Boat building and repairing	3732	52.8	53.2	59.7	58.8		42.5	42.9	48.1	47.2	
Railroad equipment	374	27.0	27.0	22.5	22.9		18.8	18.8	15.1	15.7	
Guided missiles, space vehicles, and parts	376	204.5	205.5	211.0	211.8		68.5	69.0	67.8	68.2	
Guided missiles and space vehicles	3761	154.8	155.4	160.3	160.7		49.6	49.7	50.0	50.2	
Miscellaneous transportation equipment	379	47.4	48.9	49.9	50.7		31.3	32.4	33.5	34.0	
Travel trailers and campers	3792	18.7	18.4	20.2	21.1		14.3	14.1	15.6	16.3	
Instruments and related products	38	704.5	702.8	695.0	695.5	697.9	381.4	381.3	375.8	376.9	380.2
Engineering and scientific instruments	381	83.7	83.1	82.8	82.9	-	36.5	36.6	37.1	37.4	-
Measuring and controlling devices	382	245.2	244.7	237.7	237.2		135.4	135.8	132.2	131.8	
Environmental controls	3822	41.7	41.8	40.4	41.0		26.3	26.3	25.4	26.1	
Process control instruments	3823	54.9	54.7	51.5	51.7		27.8	27.6	26.8	27.1	
Instruments to measure electricity	3825	104.8	103.8	100.8	100.1		52.7	52.6	49.6	48.9	
Optical instruments and lenses	383	32.6	32.5	32.4	32.1		16.0	16.0	15.9	15.3	
Medical instruments and supplies	384	180.9	181.1	180.1	181.4		108.9	108.9	107.2	108.4	
Surgical and medical instruments	3841	87.7	87.9	86.7	87.4		50.2	50.4	49.5	50.2	
Surgical appliances and supplies	3842	78.8	79.0	79.0	79.5		50.6	50.6	49.6	50.1	
Ophthalmic goods	385	37.9	38.1	41.7	42.1		25.4	25.7	28.4	28.7	
Photographic equipment and supplies	386	113.4	112.2	109.3	108.6		51.5	50.4	47.1	47.1	
Watches, clocks, and watchcases	387	10.8	11.1	11.0	11.2		7.7	7.9	7.9	8.2	
Miscellaneous manufacturing	39	363.5	365.5	361.2	372.6	377.4	265.8	268.3	261.4	272.0	275.6
Jewelry, silverware, and plated ware	391	53.9	54.9	50.7	53.7	-	37.8	38.4	34.6	37.2	-
Jewelry, precious metal	3911	37.9	36.6	34.5	37.4		26.3	26.7	23.3	25.7	
Musical instruments	393	12.3	12.3	12.1	13.1		10.1	10.0	9.9	11.0	
Toys and sporting goods	394	95.1	95.1	98.5	102.3		71.7	71.7	73.4	76.6	
Dolls, games, toys, and children's vehicles	3942.4	45.7	45.5	45.9	49.7		34.1	33.8	33.7	36.9	
Sporting and athletic goods, nec	3949	49.4	49.6	52.6	52.6		37.6	37.9	39.7	39.7	
Pens, pencils, office, and art supplies	395	32.6	32.4	32.9	33.1		22.1	21.9	22.8	23.0	
Costume jewelry and notions	396	41.8	42.4	40.2	44.0		32.6	33.8	30.5	33.9	
Costume jewelry	3961	23.1	23.3	22.4	25.1		17.8	18.5	17.0	19.4	
Miscellaneous manufactures	399	127.8	128.4	126.8	126.4		91.5	92.5	90.2	90.3	
Signs and advertising displays	3993	55.3	55.7	54.9	55.2		38.8	39.4	38.0	38.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Nondurable goods		7,844	7,862	7,880	7,986	8,010	5,552	5,575	5,559	5,655	5,692
Food and kindred products	20	1,705.6	1,705.9	1,681.4	1,723.0	1,717.7	1,220.1	1,221.5	1,192.1	1,231.8	1,228.6
Meat products	201	376.8	378.8	386.8	385.4	-	320.7	322.2	328.6	327.2	-
Meat packing plants	2011	138.8	139.2	137.2	136.4	-	116.6	116.4	115.1	114.1	-
Sausages and other prepared meats	2013	77.8	77.2	76.8	76.8	-	57.7	57.3	56.5	56.7	-
Poultry dressing plants	2016	142.3	144.5	153.5	152.9	-	130.1	132.1	139.3	138.6	-
Dairy products	202	166.9	165.5	170.6	169.7	-	100.8	99.4	104.2	103.4	-
Cheese, natural and processed	2022	40.3	40.2	40.8	40.6	-	30.8	30.6	31.3	31.4	-
Fluid milk	2026	85.2	85.0	87.2	87.0	-	42.1	41.8	44.2	44.0	-
Preserved fruits and vegetables	203	301.6	300.9	273.0	307.7	-	258.2	258.0	227.2	259.9	-
Canned specialties	2032	27.3	27.5	25.0	28.6	-	20.5	20.6	17.3	20.8	-
Canned fruits and vegetables	2033	136.1	129.5	105.7	134.0	-	120.2	113.8	89.4	115.9	-
Frozen fruits and vegetables	2037	51.4	56.5	50.9	51.5	-	45.8	51.1	45.4	46.3	-
Grain mill products	204	122.5	122.2	120.8	122.5	-	84.1	83.9	82.7	84.4	-
Flour and other grain mill products	2041	22.2	22.0	22.8	22.8	-	15.1	15.0	15.3	15.4	-
Prepared feeds, nec	2048	42.9	42.9	42.1	42.2	-	26.8	26.9	26.7	26.6	-
Bakery products	205	211.8	212.5	212.9	212.5	-	129.0	129.6	129.3	129.2	-
Bread, cake, and related products	2051	167.3	167.3	167.7	166.6	-	93.0	92.7	92.8	92.4	-
Cookies and crackers	2052	44.5	45.2	45.2	45.9	-	36.0	36.9	36.5	36.8	-
Sugar and confectionery products	206	95.1	102.2	87.8	95.8	-	74.2	80.8	67.4	75.0	-
Cane and beet sugar	2061-3	20.5	24.8	19.2	21.4	-	15.8	19.7	14.3	16.4	-
Confectionery products	2065	54.6	57.6	48.5	53.7	-	44.9	47.8	39.6	44.4	-
Fats and oils	207	33.6	34.3	31.9	32.2	-	24.0	24.9	22.7	22.8	-
Beverages	208	217.8	214.1	216.6	215.3	-	93.9	91.1	93.3	92.5	-
Malt beverages	2082	42.3	41.2	40.9	40.2	-	27.2	26.0	25.9	25.5	-
Bottled and canned soft drinks	2086	130.2	127.6	129.5	128.3	-	42.7	41.4	43.3	42.3	-
Misc. food and kindred products	209	179.5	175.4	181.0	181.9	-	135.2	131.6	136.7	137.4	-
Tobacco manufactures	21	58.1	62.7	53.5	56.6	57.8	43.5	48.5	39.0	42.0	43.0
Cigarettes	211	42.5	41.9	41.5	41.2	-	32.1	31.7	30.6	30.2	-
Textile mill products	22	710.7	712.4	722.3	736.4	742.6	615.5	617.2	627.4	640.0	645.5
Weaving mills, cotton	221	101.1	101.2	107.5	108.4	-	90.9	91.1	97.2	98.1	-
Weaving mills, synthetics	222	83.7	83.8	87.0	88.2	-	74.6	74.7	77.6	78.7	-
Weaving and finishing mills, wool	223	17.5	17.7	16.2	18.7	-	14.6	14.8	13.2	15.3	-
Narrow fabric mills	224	22.3	22.4	22.1	23.0	-	19.3	19.3	19.0	20.0	-
Knitting mills	225	211.2	210.0	209.4	211.2	-	184.5	183.1	184.0	185.5	-
Women's hosiery, except socks	2251	35.4	35.1	34.5	34.5	-	31.5	31.1	30.9	30.9	-
Hosiery, nec	2252	36.8	36.5	36.6	36.9	-	33.0	32.7	32.9	33.1	-
Knit outerwear mills	2253	72.0	71.9	72.3	73.0	-	63.4	63.2	64.3	64.8	-
Knit underwear mills	2254	24.7	24.3	22.9	23.2	-	20.6	20.3	19.4	19.7	-
Circular knit fabric mills	2257	24.1	24.0	25.4	25.7	-	20.9	20.7	22.2	22.5	-
Textile finishing, except wool	226	58.8	59.6	59.1	61.0	-	49.1	49.7	49.6	51.2	-
Finishing plants, cotton	2261	22.9	23.2	22.8	23.9	-	19.4	19.6	19.3	20.3	-
Finishing plants, synthetics	2262	21.8	22.3	22.0	22.7	-	17.6	18.0	17.9	18.4	-
Floor covering mills	227	56.0	56.9	58.9	59.8	-	46.1	47.0	47.9	48.7	-
Yarn and thread mills	228	105.5	105.8	107.2	110.2	-	94.1	94.5	95.9	98.6	-
Yarn mills, except wool	2281	76.4	76.5	79.1	80.3	-	69.0	69.2	71.6	72.8	-
Throwing and winding mills	2282	16.1	16.1	15.7	16.1	-	14.1	14.2	14.0	14.3	-
Miscellaneous textile goods	229	54.6	55.0	54.9	55.9	-	42.3	43.0	43.0	43.9	-
Apparel and other textile products	23	1,103.1	1,109.9	1,091.5	1,110.6	1,121.7	928.9	935.7	913.6	930.5	943.5
Men's and boys' suits and coats	231	59.3	59.0	57.4	56.5	-	51.0	50.6	49.3	48.6	-
Men's and boys' furnishings	232	307.1	306.9	313.1	316.7	-	265.8	265.3	269.9	272.6	-
Men's and boys' shirts and nightwear	2321	87.6	87.1	86.1	86.7	-	75.7	75.2	73.6	73.9	-
Men's and boys' separate trousers	2327	55.6	55.0	52.9	54.1	-	48.9	48.1	46.2	47.3	-
Men's and boys' work clothing	2328	90.3	90.9	96.4	97.3	-	78.8	79.2	84.2	84.9	-
Women's and misses' outerwear	233	353.7	355.1	344.2	355.7	-	294.9	296.9	284.8	294.9	-
Women's and misses' blouses and waists	2331	50.4	50.5	49.4	49.8	-	41.9	42.0	40.9	41.2	-
Women's and misses' dresses	2335	84.3	84.7	79.0	83.6	-	71.0	71.3	65.2	69.3	-
Women's and misses' suits and coats	2337	45.4	46.1	46.0	47.6	-	37.2	37.9	37.3	38.4	-
Women's and misses' outerwear, nec	2339	173.6	173.8	169.8	174.7	-	144.8	145.7	141.4	146.0	-

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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	77.1	77.9	72.3	72.9		64.1	64.7	59.1	59.8	
Women's and children's underwear	2341	63.0	63.6	59.0	59.7		53.7	54.1	49.9	50.7	
Brassieres and allied garments	2342	14.1	14.3	13.3	13.2		10.4	10.6	9.2	9.1	
Children's outerwear	236	59.5	60.2	57.5	57.0		50.3	50.9	47.8	47.4	
Children's dresses and blouses	2361	24.5	25.4	23.8	23.5		21.6	22.3	20.7	20.5	
Misc. apparel and accessories	238	42.2	42.4	40.5	41.5		35.2	35.6	33.7	34.9	
Misc. fabricated textile products	239	185.2	189.5	187.5	191.5		152.6	156.9	153.9	157.5	
Curtains and draperies	2391	25.7	26.2	26.6	27.0		20.9	21.4	21.6	22.0	
House furnishings, nec	2392	51.0	51.7	51.6	52.9		43.5	44.1	43.6	45.0	
Automotive and apparel trimmings	2396	38.6	40.6	37.7	38.3		32.3	34.3	31.5	31.9	
Paper and allied products	26	674.8	676.8	678.9	681.0	684.0	511.4	513.5	515.7	516.9	521.2
Paper and pulp mills	261,2,6	194.8	195.2	193.4	193.9	-	148.7	148.8	147.1	146.7	-
Paper mills, except building paper	262	170.2	170.7	169.7	170.3		129.1	129.4	128.4	128.1	
Paperboard mills	263	52.5	53.0	53.5	53.1		39.7	40.0	40.1	40.0	
Misc. converted paper products	264	231.2	231.2	234.3	235.2		170.6	171.2	174.5	175.2	
Paper coating and glazing	2641	57.6	58.2	59.2	59.4		35.9	36.3	38.4	38.4	
Envelopes	2642	26.3	26.5	26.3	26.4		20.4	20.8	20.2	20.4	
Bags, except textile bags	2643	51.1	51.6	52.2	52.6		40.3	40.8	41.3	41.6	
Paperboard containers and boxes	265	196.3	197.4	197.7	198.8		152.4	153.5	154.0	155.0	
Folding paperboard boxes	2651	41.9	42.7	42.1	42.6		33.2	34.0	33.3	33.6	
Corrugated and solid fiber boxes	2653	104.6	104.8	104.1	104.0		79.1	79.4	79.0	79.1	
Sanitary food containers	2654	22.6	22.5	24.3	24.2		19.2	19.0	20.9	20.9	
Printing and publishing	27	1,457.4	1,460.2	1,499.0	1,502.4	1,502.7	818.3	820.7	835.9	839.5	841.3
Newspapers	271	457.0	458.0	461.7	462.6	-	169.5	170.5	169.0	169.7	-
Periodicals	272	116.0	115.6	122.9	123.8		42.5	42.6	45.1	45.4	
Books	273	108.8	107.6	113.3	112.6		59.4	57.0	60.0	58.4	
Book publishing	2731	81.0	79.9	84.1	83.6		37.5	35.2	37.2	36.1	
Book printing	2732	27.8	27.7	29.2	29.0		21.9	21.8	22.8	22.3	
Miscellaneous publishing	274	71.4	72.0	78.1	77.0		38.0	38.5	41.5	40.6	
Commercial printing	275	507.3	509.4	526.4	528.9		368.3	370.9	380.4	383.7	
Commercial printing, letterpress	2751	161.6	162.8	168.4	169.2		118.3	119.4	120.8	121.5	
Commercial printing, lithographic	2752	319.9	320.6	330.4	332.1		229.5	230.8	237.7	240.2	
Manifold business forms	276	49.3	49.6	48.0	48.3		34.5	34.8	33.3	33.5	
Blankbooks and bookbinding	278	73.7	73.7	74.0	74.3		59.6	59.5	59.2	59.4	
Printing trade services	279	51.3	51.5	53.2	53.6		38.3	38.4	39.4	39.8	
Chemicals and allied products	28	1,026.7	1,023.0	1,032.3	1,036.8	1,034.6	572.1	570.2	578.6	581.7	584.9
Industrial inorganic chemicals	281	135.6	135.7	132.4	133.2	-	69.6	69.1	67.5	68.0	-
Industrial inorganic chemicals, nec	2819	89.8	90.2	87.0	87.8		49.5	49.5	47.9	48.6	
Plastics materials and synthetics	282	168.1	166.7	167.6	167.8		113.1	112.0	109.9	110.1	
Plastics materials and resins	2821	76.0	75.2	77.4	77.5		45.9	45.1	45.6	45.6	
Organic fibers, noncellulosic	2824	62.9	62.3	60.9	61.1		45.6	45.2	42.6	42.9	
Drugs	283	208.3	207.4	213.5	214.0		95.9	95.3	97.9	97.7	
Pharmaceutical preparations	2834	166.2	165.6	169.7	170.1		75.3	75.2	76.4	76.1	
Soap, cleaners, and toilet goods	284	148.8	150.4	153.5	157.7		94.7	96.5	97.9	100.9	
Soap and other detergents	2841	41.3	41.9	42.2	42.4		26.0	26.6	26.7	26.7	
Polishing, sanitation, and finishing preparations	2842,3	40.1	40.0	40.7	41.0		21.4	21.3	22.4	22.4	
Toilet preparations	2844	67.4	68.5	70.6	74.3		47.3	48.6	48.8	51.8	
Paints and allied products	285	64.5	63.3	64.4	64.2		31.5	30.7	31.9	31.7	
Industrial organic chemicals	286	154.5	153.4	153.0	152.7		82.0	81.7	86.6	87.0	
Cyclic crudes and intermediates	2865	30.4	30.0	29.6	29.8		20.0	19.7	19.5	19.5	
Gum, wood, and industrial organic chemicals, nec	2861,9	124.1	123.4	123.4	122.9		62.0	62.0	67.1	67.5	
Agricultural chemicals	287	53.8	53.6	53.6	52.8		32.7	32.9	33.5	33.1	
Miscellaneous chemical products	289	93.1	92.5	94.3	94.4		52.6	52.0	53.4	53.2	
Petroleum and coal products	29	171.0	168.4	167.2	167.7	167.8	108.5	107.0	110.0	110.3	111.2
Petroleum refining	291	130.7	128.4	126.4	126.5	-	79.5	78.4	80.9	81.0	-
Paving and roofing materials	295	28.7	28.5	29.2	29.6		22.2	22.0	22.4	22.7	

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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	786.0	794.1	806.4	817.5	826.0	610.2	617.8	623.4	632.4	642.3
Tires and inner tubes	301	86.0	87.5	85.9	86.1	-	62.9	64.3	61.4	61.2	-
Rubber and plastics footwear	302	10.4	10.2	9.9	10.5	-	8.7	8.5	8.1	8.7	-
Reclaimed rubber, and rubber and plastics hose and belting	303.4	21.4	21.6	21.5	21.6	-	14.7	15.1	15.4	15.5	-
Fabricated rubber products, nec	306	101.7	103.0	102.2	103.3	-	77.9	79.1	78.2	79.2	-
Miscellaneous plastics products	307	566.5	571.8	586.9	596.0	-	446.0	450.8	460.3	467.8	-
Leather and leather products	31	150.4	149.0	147.0	154.2	155.2	123.9	122.5	123.5	130.1	130.4
Leather tanning and finishing	311	13.8	13.8	13.1	13.5	-	11.6	11.5	10.8	11.2	-
Footwear, except rubber	314	89.6	87.5	87.3	91.8	-	75.4	73.6	75.4	79.7	-
Men's footwear, except athletic	3143	40.4	39.5	39.1	40.4	-	32.3	31.5	32.1	33.2	-
Women's footwear, except athletic	3144	31.6	30.6	31.3	33.3	-	27.8	27.0	27.6	29.6	-
Luggage	316	10.7	10.8	10.8	11.5	-	7.6	7.6	7.7	8.2	-
Handbags and personal leather goods	317	18.9	19.4	17.5	18.5	-	15.3	15.7	14.6	15.5	-
Transportation and public utilities		5,211	5,301	5,370	5,386	5,434	4,291	4,387	4,449	4,467	4,519
Transportation		3,027	3,094	3,120	3,137	3,201	-	-	-	-	-
Railroad transportation	40	335.7	330.9	312.2	312.3	-	-	-	-	-	-
Class I railroads ²	4011	299.0	294.4	276.2	276.4	-	-	-	-	-	-
Local and interurban passenger transit	41	229.6	287.0	234.3	231.9	-	209.6	266.4	212.7	211.3	-
Local and suburban transportation	411	97.9	98.5	100.4	100.1	-	90.1	90.7	91.6	91.4	-
Taxicabs	412	35.2	35.1	33.4	33.3	-	-	-	-	-	-
Intercity highway transportation	413	34.7	34.5	32.2	32.3	-	31.5	31.4	29.2	29.4	-
School buses	415	39.6	95.4	44.3	42.2	-	-	-	-	-	-
Trucking and warehousing	42	1,398.2	1,407.1	1,469.7	1,486.2	-	1,213.6	1,225.0	1,280.6	1,297.4	-
Trucking and trucking terminals	421.3	1,298.2	1,299.4	1,367.5	1,379.7	-	1,129.0	1,133.2	1,195.2	1,208.1	-
Public warehousing	422	100.0	107.7	102.2	106.5	-	84.6	91.8	85.4	89.3	-
Water transportation	44	175.5	180.1	178.0	175.7	-	-	-	-	-	-
Local water transportation	445	28.6	28.1	28.7	28.9	-	-	-	-	-	-
Water transportation services	446	92.7	98.4	96.6	93.3	-	-	-	-	-	-
Transportation by air	45	583.1	586.2	606.3	609.8	-	-	-	-	-	-
Air transportation	451.2	515.7	519.0	535.8	538.6	-	-	-	-	-	-
Air transportation services	458	67.4	67.2	70.5	71.2	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.4	18.1	18.4	18.3	-	13.6	13.3	13.4	13.3	-
Transportation services	47	286.0	284.1	300.6	302.3	-	-	-	-	-	-
Freight forwarding	471	64.7	65.0	71.5	72.4	-	-	-	-	-	-
Communication and public utilities		2,184	2,207	2,250	2,249	2,233	-	-	-	-	-
Communication	48	1,249.4	1,283.5	1,307.1	1,307.2	-	946.2	979.1	995.1	996.0	-
Telephone communication	481	851.7	885.1	904.4	903.3	-	626.8	658.8	671.2	671.2	-
Radio and television broadcasting	483	237.8	238.2	233.6	233.6	-	194.7	194.8	192.1	192.5	-
Radio broadcasting	4832	112.5	112.0	113.4	113.3	-	-	-	-	-	-
Television broadcasting	4833	125.3	126.2	120.2	120.3	-	-	-	-	-	-
Electric, gas, and sanitary services	49	934.9	923.2	942.4	942.0	-	744.9	734.7	748.3	747.4	-
Electric services	491	455.5	452.6	456.9	457.7	-	351.2	348.5	349.3	349.8	-
Gas production and distribution	492	169.7	164.1	170.0	169.5	-	134.3	129.7	135.3	135.0	-
Combination utility services	493	208.8	206.9	206.1	204.8	-	173.0	171.2	170.5	169.0	-
Sanitary services	495	73.6	72.7	80.2	81.0	-	64.1	63.4	69.6	70.3	-
Wholesale trade		5,766	5,758	5,826	5,836	5,828	4,632	4,620	4,669	4,675	4,663
Durable goods	50	3,398	3,387	3,435	3,437	3,428	2,704	2,691	2,724	2,723	-
Motor vehicles and automotive equipment	501	433.5	432.5	438.6	437.0	-	348.1	347.5	352.2	350.6	-
Automobiles and other motor vehicles	5012	110.5	110.4	112.9	112.2	-	-	-	-	-	-
Automotive parts and supplies	5013	291.3	290.5	293.9	292.8	-	-	-	-	-	-

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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	132.3	132.9	138.7	139.8		105.7	106.1	111.7	112.6	
Furniture	5021	57.7	57.8	60.1	60.6		-	-	-	-	
Home furnishings	5023	74.6	75.1	78.6	79.2		-	-	-	-	
Lumber and construction materials	503	231.9	230.4	233.5	232.9		191.6	189.7	193.1	192.1	
Lumber, plywood, and millwork	5031	102.9	102.6	106.4	106.1		-	-	-	-	
Construction materials, nec	5039	129.0	127.8	127.1	126.8		-	-	-	-	
Sporting goods, toys, and hobby goods	504	80.1	80.0	80.9	80.5		65.6	65.3	67.2	66.6	
Metals and minerals, except petroleum	505	132.0	132.3	133.9	133.7		104.2	104.2	104.4	104.8	
Electrical goods	506	487.5	488.0	491.8	492.8		370.3	370.7	374.1	375.1	
Electrical apparatus and equipment	5063	268.9	269.5	271.9	272.5		-	-	-	-	
Electrical appliances, TV and radios	5064	70.5	70.6	72.8	73.2		-	-	-	-	
Electronic parts and equipment	5065	148.1	147.9	147.1	147.1		-	-	-	-	
Hardware, plumbing, and heating equipment	507	259.5	257.5	266.8	266.5		208.8	206.8	215.3	215.5	
Hardware	5072	88.4	87.9	92.6	92.4		-	-	-	-	
Plumbing and hydronic heating supplies	5074	107.5	106.8	109.9	109.3		-	-	-	-	
Machinery, equipment, and supplies	508	1,450.5	1,443.0	1,455.1	1,456.8		1,156.4	1,148.4	1,148.7	1,147.6	
Commercial machines and equipment	5081	531.8	530.3	533.3	533.5		-	-	-	-	
Construction and mining machinery	5082	81.4	81.4	83.3	82.6		-	-	-	-	
Farm machinery and equipment	5083	119.8	118.7	122.5	122.9		-	-	-	-	
Industrial machinery and equipment	5084	301.8	300.7	296.9	296.7		-	-	-	-	
Industrial supplies	5085	130.6	129.0	130.3	130.8		-	-	-	-	
Professional equipment and supplies	5086	175.0	174.5	174.5	175.9		-	-	-	-	
Miscellaneous durable goods	509	190.4	189.9	195.4	196.9		152.8	152.1	156.8	157.8	
Scrap and waste materials	5093	87.3	87.4	89.8	90.8		-	-	-	-	
Nondurable goods	51	2,368	2,371	2,391	2,399	2,400	1,928	1,929	1,945	1,952	
Paper and paper products	511	191.8	190.9	193.2	194.0	-	156.2	155.6	157.2	157.3	
Drugs, proprietaries, and sundries	512	167.2	168.2	174.9	176.7		139.2	140.0	144.9	146.4	
Apparel, piece goods, and notions	513	192.1	192.8	192.0	194.4		144.6	144.6	144.1	146.1	
Groceries and related products	514	767.6	768.0	771.8	773.4		651.7	650.9	653.3	655.0	
Groceries, general line	5141	245.6	245.4	249.5	249.8		-	-	-	-	
Meats and meat products	5147	64.3	64.4	64.6	64.7		-	-	-	-	
Fresh fruits and vegetables	5148	95.0	96.9	90.3	90.6		-	-	-	-	
Chemicals and allied products	516	129.2	129.6	134.3	134.8		94.8	94.3	99.3	100.1	
Petroleum and petroleum products	517	202.0	199.4	196.6	196.9		156.9	154.6	153.9	154.3	
Petroleum bulk stations and terminals	5171	83.6	82.2	80.1	80.0		-	-	-	-	
Petroleum products, nec	5172	118.4	117.2	116.5	116.9		-	-	-	-	
Beer, wine, and distilled beverages	518	154.2	151.5	156.5	156.5		127.5	125.0	129.0	129.0	
Beer and ale	5181	97.1	94.7	99.8	99.5		-	-	-	-	
Wines and distilled beverages	5182	57.1	56.8	56.7	57.0		-	-	-	-	
Miscellaneous nondurable goods	519	435.7	436.5	445.8	442.6		352.4	353.5	361.1	358.8	
Farm supplies	5191	144.6	147.0	150.2	146.1		-	-	-	-	
Retail trade		18,031	18,040	18,347	18,382	18,416	16,056	16,063	16,311	16,339	16,336
Building materials and garden supplies	52	717.1	706.4	746.4	739.8		603.5	590.9	623.8	620.0	
Lumber and other building materials	521	389.5	382.5	406.7	404.7		332.7	325.3	347.4	348.2	
Hardware stores	525	159.0	157.3	163.3	163.0		133.9	131.5	135.6	135.3	
General merchandise stores	53	2,323.0	2,338.0	2,351.3	2,359.7	2,388.7	2,181.2	2,195.5	2,199.5	2,202.6	
Department stores	531	1,942.7	1,956.7	1,964.9	1,969.5	-	1,842.4	1,856.4	1,856.3	1,856.0	
Variety stores	533	238.7	241.3	241.7	244.0		216.3	218.6	217.9	220.2	
Misc. general merchandise stores	539	141.6	140.0	144.7	146.2		122.5	120.5	125.3	126.4	
Food stores	54	2,887.7	2,896.1	2,965.3	2,964.3	2,974.1	2,666.4	2,673.5	2,729.8	2,727.4	
Grocery stores	541	2,543.9	2,551.4	2,610.1	2,608.9	-	2,361.7	2,367.1	2,414.5	2,412.1	
Meat markets and freezer provisioners	542	59.2	59.5	59.8	61.4		-	-	-	-	
Dairy products stores	545	32.7	31.8	36.3	35.8		-	-	-	-	
Retail bakeries	546	158.7	160.9	161.3	161.7		143.7	145.9	146.1	146.3	
Automotive dealers and service stations	55	1,973.2	1,970.2	2,008.5	2,008.2	1,999.4	1,657.3	1,653.7	1,687.7	1,687.0	
New and used car dealers	551,2	952.4	959.4	969.2	971.5	-	792.3	798.8	806.1	808.2	
Auto and home supply stores	553	315.3	313.4	320.5	322.3		255.7	253.5	259.7	260.8	
Gasoline service stations	554	608.9	605.6	616.1	614.0		530.5	527.7	538.6	536.3	

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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Retail trade—Continued											
Apparel and accessory stores	56	1,062.2	1,058.3	1,083.5	1,086.0		897.2	893.8	914.0	917.2	
Men's and boys' clothing and furnishings	561	104.7	104.8	105.1	102.7		86.8	86.9	86.1	83.8	
Women's ready-to-wear stores	562	383.5	384.2	385.4	385.3		327.4	327.8	324.7	325.8	
Family clothing stores	565	236.4	234.3	246.4	247.1		204.9	202.9	213.4	214.4	
Shoe stores	566	206.3	201.4	210.5	213.5		165.8	161.6	173.0	176.0	
Furniture and home furnishings stores	57	766.3	769.0	796.7	799.7		636.5	638.9	658.8	662.5	
Furniture and home furnishings stores	571	430.7	432.3	452.6	454.0		354.3	355.5	371.8	373.7	
Furniture stores	5712	268.2	268.9	282.3	283.2		-	-	-	-	
Household appliance stores	572	86.6	86.2	83.5	83.6		74.1	73.8	71.1	71.3	
Radio, television, and music stores	573	249.0	250.5	260.6	262.1		208.1	209.6	215.9	217.5	
Radio and television stores	5732	183.9	184.5	194.6	195.4		-	-	-	-	
Music stores	5733	65.1	66.0	66.0	66.7		-	-	-	-	
Eating and drinking places	58	6,089.2	6,074.2	6,153.0	6,177.2	6,175.0	5,544.2	5,533.3	5,615.6	5,637.0	
Miscellaneous retail	59	2,212.2	2,227.5	2,241.9	2,246.9		1,869.5	1,883.1	1,882.1	1,885.5	
Drug stores and proprietary stores	591	561.2	564.5	586.8	586.8		478.7	481.0	499.1	497.8	
Liquor stores	592	123.0	124.7	125.7	123.9		-	-	-	-	
Miscellaneous shopping goods stores	594	730.5	734.2	732.2	739.4		612.7	616.4	610.5	617.2	
Sporting goods and bicycle shops	5941	127.4	129.9	126.7	129.5		-	-	-	-	
Book stores	5942	73.1	77.3	71.1	72.5		-	-	-	-	
Stationery stores	5943	74.0	73.9	74.5	74.7		-	-	-	-	
Jewelry stores	5944	142.8	144.3	142.1	143.1		-	-	-	-	
Gift, novelty, and souvenir shops	5947	143.5	138.4	144.8	143.9		-	-	-	-	
Sewing, needlework, and piece goods	5949	61.6	61.1	61.8	63.0		-	-	-	-	
Nonstore retailers	596	257.5	261.9	251.6	255.1		232.6	237.0	225.8	228.8	
Mail order houses	5961	121.0	124.7	117.9	120.9		-	-	-	-	
Merchandising machine operators	5962	78.5	78.8	81.5	81.8		-	-	-	-	
Fuel and ice dealers	598	103.4	104.8	110.2	111.0		86.2	87.4	90.7	91.5	
Retail stores, nec	599	357.1	357.0	350.5	345.5		291.6	291.2	284.8	280.4	
Finance, insurance, and real estate²		6,428	6,387	6,699	6,708	6,642	4,774	4,726	4,940	4,939	4,879
Finance		3,208	3,190	3,324	3,322	3,292					
Banking	60	1,757.5	1,739.3	1,753.6	1,750.8		1,281.8	1,262.8	1,266.0	1,266.8	
Commercial and stock savings banks	602	1,583.3	1,566.2	1,578.1	1,575.1		1,150.8	1,133.1	1,137.1	1,136.0	
State banks, Federal Reserve	6022	343.9	341.2	348.7	348.3		-	-	-	-	
State banks, not Federal Reserve	6023,4	378.9	374.1	380.5	380.3		-	-	-	-	
Mutual savings banks	603	84.2	83.1	88.2	88.1		-	-	-	-	
Credit agencies other than banks	61	849.6	851.1	906.6	906.7		642.5	640.7	679.1	677.5	
Savings and loan associations	612	382.6	383.1	406.0	407.1		292.5	292.0	310.6	310.7	
Federal savings and loan associations	6122	212.0	212.4	224.6	225.1		-	-	-	-	
State associations, insured	6123	162.8	163.1	173.0	173.6		-	-	-	-	
Personal credit institutions	614	229.2	228.4	236.6	236.2		177.6	176.7	182.2	181.8	
Business credit institutions	615	51.6	52.0	54.8	55.4		-	-	-	-	
Mortgage bankers and brokers	616	161.0	162.4	184.5	183.4		-	-	-	-	
Security, commodity brokers, and services	62	402.5	401.8	449.5	450.6						
Security brokers and dealers	621	320.1	319.6	358.0	359.4						
Holding and other investment offices	67	198.1	197.9	214.5	213.4						
Insurance		1,969	1,968	2,055	2,059	2,048					
Insurance carriers	63	1,380.1	1,377.3	1,421.2	1,421.6		944.9	941.5	959.1	954.6	
Life insurance	631	583.0	580.6	587.2	588.8		363.9	362.7	362.0	360.0	
Medical service and health insurance	632	189.3	189.0	193.6	193.2		153.7	153.0	155.7	155.3	
Fire, marine, and casualty insurance	633	507.1	507.7	537.0	537.5		349.5	348.5	362.1	361.1	
Title insurance	636	60.5	60.1	60.4	59.2		-	-	-	-	
Insurance agents, brokers, and service	64	589.3	591.1	633.3	637.8						

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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,251	1,229	1,320	1,327	1,302					
Real estate	65	1,237.7	1,215.9	1,307.3	1,314.3						
Real estate operators and lessors	651	539.9	528.3	542.0	545.4						
Real estate agents and managers	653	500.6	494.5	547.1	549.2						
Subdividers and developers	655	166.1	161.8	181.2	182.6						
Combined real estate, insurance, etc	66	12.9	12.9	12.3	12.3						
Services		23,435	23,428	24,432	24,447	24,433	20,590	20,562	21,404	21,398	21,365
Hotels and other lodging places	70	1,549.4	1,469.1	1,565.6	1,572.6						
Hotels, motels, and tourist courts	701	1,463.8	1,421.0	1,501.1	1,508.7		1,318.8	1,274.5	1,348.3	1,354.6	
Personal services	72	1,085.4	1,100.0	1,133.5	1,131.7						
Laundry, cleaning, and garment services	721	386.2	387.1	407.9	408.7		344.3	345.2	363.3	364.1	
Photographic studios, portrait	722	57.9	62.3	59.4	59.1						
Beauty shops	723	345.4	352.2	349.8	347.9		313.3	319.0	314.8	313.3	
Funeral service and crematories	726	77.8	77.6	78.9	79.0						
Business services	73	4,868.6	4,880.2	5,140.7	5,190.6	5,201.1	4,189.6	4,196.5	4,411.5	4,457.6	
Advertising	731	201.4	200.7	200.3	201.4	-	149.6	149.1	149.9	150.1	
Advertising agencies	7311	148.5	148.2	147.4	148.8						
Credit reporting and collection	732	100.7	100.2	106.3	106.1						
Mailing, reproduction, and stenographic	733	194.6	195.9	205.4	205.2						
Services to buildings	734	696.7	696.5	699.0	700.5		629.8	630.2	635.3	635.9	
Personnel supply services	736	1,054.9	1,068.5	1,206.0	1,250.0						
Employment agencies	7361	158.8	161.7	183.6	188.1						
Temporary help supply services	7362	840.6	853.7	962.0	1,000.0						
Computer and data processing services	737	596.1	596.0	641.2	643.7		475.4	474.2	502.9	504.3	
Computer programming and software	7372	219.2	219.6	238.6	241.5						
Data processing services	7374	278.8	278.7	301.8	301.3						
Miscellaneous business services	739	2,015.5	2,013.5	2,073.5	2,074.7						
Research development laboratories, nec	7391	193.3	192.8	200.5	199.7						
Management and public relations	7392	555.7	551.8	576.2	573.8						
Detective and protective services	7393	452.2	454.6	451.2	451.2						
Equipment rental and leasing	7394	210.0	209.6	220.5	222.0						
Photofinishing laboratories	7395	80.2	82.3	80.6	81.8						
Auto repair, services, and garages	75	773.1	773.0	805.6	807.0		648.0	648.3	671.3	672.1	
Automotive rentals, without drivers	751	165.9	166.2	177.6	177.4						
Automotive repair shops	753	464.4	462.5	482.2	483.6		387.3	386.2	398.2	399.7	
Miscellaneous repair services	76	323.7	319.0	325.0	324.4		270.3	265.2	271.5	270.3	
Electrical repair shops	762	105.6	104.4	106.0	105.9						
Motion pictures	78	235.9	228.9	232.4	239.2		198.5	191.6	196.1	202.0	
Motion picture production and services	781	107.6	110.5	109.0	117.1		86.0	89.0	87.5	94.5	
Motion picture theaters	783	116.5	106.5	110.7	109.2						
Amusement and recreation services	79	1,109.2	1,015.0	1,183.2	1,180.0		1,003.5	906.1	1,042.4	1,040.7	
Health services	80	6,617.2	6,619.3	6,921.7	6,947.2	6,948.8	5,881.6	5,881.4	6,155.6	6,166.7	
Offices of physicians	801	1,011.4	1,006.5	1,082.7	1,088.6	-	837.0	829.8	891.0	893.2	
Offices of dentists	802	464.8	465.9	481.3	486.2		408.9	410.8	424.4	429.6	
Nursing and personal care facilities	805	1,268.1	1,267.7	1,306.1	1,309.7		1,147.1	1,145.3	1,180.9	1,181.8	
Skilled nursing care facilities	8051	846.4	846.3	870.8	873.9						
Nursing and personal care, nec	8059	421.7	421.4	435.3	435.8						
Hospitals	806	3,054.2	3,053.9	3,171.8	3,178.6		2,783.0	2,783.5	2,896.3	2,899.1	
General medical and surgical hospitals	8062	2,858.4	2,859.2	2,966.9	2,974.7						
Psychiatric hospitals	8063	65.7	65.0	68.6	68.0						
Specialty hospitals, excluding psychiatric	8069	130.1	129.7	136.3	135.9						
Medical and dental laboratories	807	131.1	131.3	141.4	143.2						
Outpatient care facilities	808	251.4	252.9	272.0	271.8						

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 ¹				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Services—Continued											
Legal services	81	764.8	754.8	811.5	805.7		646.3	636.1	683.1	677.6	
Educational services	82	1,208.5	1,386.9	1,213.9	1,197.9						
Elementary and secondary schools	821	311.3	359.3	318.6	312.6						
Colleges and universities	822	745.6	879.8	738.2	727.9						
Correspondence and vocational schools	824	68.0	69.4	68.6	69.4						
Social services	83	1,435.7	1,458.9	1,538.1	1,522.3						
Individual and family services	832	294.2	291.2	322.5	320.5						
Job training and related services	833	262.1	250.8	289.6	279.7						
Residential care	836	321.9	319.7	339.7	340.1						
Museums, botanical and zoological gardens	84	48.4	48.0	53.4	52.6						
Membership organizations	86	1,538.6	1,516.1	1,572.0	1,548.8						
Business associations	861	94.2	92.7	92.6	93.2						
Labor organizations	863	128.5	132.8	127.7	127.2						
Civic and social associations	864	373.0	339.5	400.6	377.9						
Miscellaneous services	89	1,271.9	1,259.5	1,322.5	1,323.1		1,041.7	1,025.9	1,075.9	1,076.3	
Engineering and architectural services	891	693.9	682.2	715.5	716.6		588.7	576.2	604.2	605.9	
Noncommercial research organizations	892	128.7	125.2	133.2	131.4		-	-	-	-	
Accounting, auditing, and bookkeeping	893	423.9	426.6	446.6	447.8		331.0	330.4	344.5	344.7	
Government		15,674	16,524	16,195	16,051	16,771					
Federal Government⁴		2,907	2,881	2,983	2,966	2,939					
Executive, by agency ⁴		2,850.5	2,825.7	2,923.3							
Department of Defense		984.3	973.0	1,001.2							
Postal Service ⁵		793.0	787.7	810.0							
Other executive agencies		1,073.2	1,065.0	1,112.1							
Legislative		37.3	36.4	39.5							
Judicial		18.8	18.7	19.7							
Federal government, by industry:											
Manufacturing activities		123.7	123.2	125.8	126.4						
Shipbuilding and repairing	3731	74.2	73.8	77.4	77.7						
Transportation and public utilities, except Postal Service		38.9	38.7	39.5	39.8						
Services		412.2	406.4	420.5	420.2						
Hospitals	806	246.7	244.6	256.3	255.6						
State government		3,663	3,821	3,739	3,744	3,903					
Hospitals	806	443.9	441.0	453.5	452.9	-					
Education	82	1,287.1	1,476.4	1,322.6	1,323.3						
General administration, including executive, legislative, and judicial functions		1,353.3	1,335.7	1,374.2	1,376.5						
Local government		9,104	9,822	9,473	9,341	9,929					
Transportation and public utilities		497.7	492.2	499.3	499.4	-					
Hospitals	806	608.4	608.2	626.7	627.1						
Education	82	4,441.3	5,373.9	4,652.8	4,569.4						
General administration, including executive, legislative, and judicial functions		3,194.2	3,015.3	3,309.5	3,271.8						

¹ 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.

² Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

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

⁴ Prepared by the Office of Personnel Management. Data relate to

civilian employment only and exclude the Central Intelligence Agency and the National Security Agency.

⁵ Includes rural mail carriers.

- Data not available.

^p = 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	June 1986	July 1986	May 1987	June 1987	July 1987
Total	45,627	44,889	47,264	47,323	46,569
Total private	37,229	37,215	38,352	38,626	38,609
Goods-producing	6,827	6,745	6,854	6,918	6,870
Mining	107	106	97	98	99
Construction	509	517	532	541	547
Manufacturing	6,211	6,122	6,225	6,279	6,224
Durable goods	2,987	2,948	2,984	3,000	2,963
Lumber and wood products	113	112	118	121	121
Furniture and fixtures	154	150	159	159	157
Stone, clay, and glass products	115	113	114	115	113
Primary metal industries	100	98	100	101	99
Fabricated metal products	322	314	323	325	318
Machinery, except electrical	452	446	446	447	445
Electrical and electronic equipment	877	878	866	868	862
Transportation equipment	380	377	390	391	384
Instruments and related products	306	301	299	301	299
Miscellaneous manufacturing	168	159	169	172	165
Nondurable goods	3,224	3,174	3,241	3,279	3,261
Food and kindred products	503	520	494	512	535
Tobacco manufactures	18	18	17	17	15
Textile mill products	344	339	352	354	349
Apparel and other textile products	895	852	887	892	867
Paper and allied products	166	165	165	168	166
Printing and publishing	618	618	641	644	642
Chemicals and allied products	290	289	292	295	298
Petroleum and coal products	26	26	24	24	24
Rubber and misc. plastics products	275	265	281	283	277
Leather and leather products	89	82	89	90	88
Service-producing	38,800	38,144	40,410	40,405	39,699
Transportation and public utilities	1,447	1,468	1,530	1,537	1,517
Wholesale trade	1,667	1,667	1,688	1,705	1,707
Retail trade	9,423	9,408	9,600	9,700	9,689
Finance, insurance, and real estate	3,924	3,957	4,100	4,138	4,163
Services	13,941	13,970	14,580	14,628	14,663
Government	8,398	7,674	8,912	8,697	7,960
Federal	1,040	1,039	1,050	1,061	1,064
State	1,783	1,727	1,925	1,833	1,787
Local	5,575	4,908	5,937	5,803	5,109

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								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total	100,039	100,209	100,415	100,567	100,919	101,150	101,329	101,598	101,708	101,818	102,126	102,278	102,410
Total private	83,241	83,337	83,515	83,643	83,983	84,215	84,352	84,560	84,677	84,787	85,106	85,226	85,364
Goods-producing	24,620	24,611	24,630	24,630	24,708	24,743	24,749	24,759	24,752	24,761	24,850	24,885	24,912
Mining	739	735	730	724	718	719	722	729	735	738	744	752	756
Oil and gas extraction	419	418	412	406	405	406	408	416	420	425	430	434	435
Construction	4,948	4,942	4,946	4,936	5,034	5,038	5,032	5,019	4,999	5,008	5,002	5,007	4,974
General building contractors	1,291	1,289	1,289	1,277	1,311	1,309	1,291	1,272	1,267	1,266	1,261	1,263	1,248
Manufacturing	18,933	18,934	18,954	18,970	18,956	18,986	18,995	19,011	19,018	19,015	19,104	19,126	19,182
Durable goods	11,181	11,169	11,174	11,175	11,157	11,179	11,176	11,175	11,175	11,176	11,195	11,244	11,279
Lumber and wood products	716	718	723	728	731	733	734	736	738	735	740	737	739
Furniture and fixtures	499	499	499	499	500	501	502	504	509	510	518	518	521
Stone, clay, and glass products	584	581	582	584	586	588	586	586	584	582	582	583	583
Primary metal industries	732	733	733	733	728	733	739	743	742	746	750	754	769
Blast furnaces and basic steel products	260	262	260	259	254	261	266	272	272	275	277	279	284
Fabricated metal products	1,424	1,421	1,419	1,422	1,422	1,419	1,419	1,423	1,420	1,424	1,424	1,425	1,429
Machinery, except electrical	2,031	2,022	2,015	2,011	2,007	2,018	2,015	2,022	2,025	2,028	2,033	2,043	2,054
Electrical and electronic equipment	2,118	2,120	2,119	2,118	2,111	2,106	2,099	2,092	2,087	2,080	2,088	2,093	2,098
Transportation equipment	2,015	2,013	2,023	2,018	2,014	2,022	2,022	2,011	2,011	2,010	1,995	2,027	2,017
Motor vehicles and equipment	857	850	858	853	851	859	854	847	843	842	814	847	837
Instruments and related products	703	702	700	698	697	695	694	694	693	693	695	694	698
Miscellaneous manufacturing	359	360	361	364	363	364	366	364	366	368	370	370	371
Nondurable goods	7,752	7,765	7,780	7,795	7,799	7,807	7,819	7,836	7,843	7,839	7,909	7,882	7,903
Food and kindred products	1,819	1,821	1,827	1,831	1,828	1,830	1,835	1,842	1,833	1,834	1,844	1,833	1,831
Tobacco manufactures	58	58	59	58	58	58	57	56	57	57	57	56	54
Textile mill products	707	709	714	715	718	722	725	724	727	729	736	733	737
Apparel and other textile products	1,102	1,104	1,101	1,110	1,106	1,101	1,103	1,104	1,107	1,108	1,130	1,109	1,114
Paper and allied products	675	677	678	679	678	679	678	677	677	676	678	677	683
Printing and publishing	1,465	1,489	1,472	1,474	1,479	1,483	1,485	1,493	1,497	1,498	1,504	1,507	1,507
Chemicals and allied products	1,021	1,020	1,020	1,017	1,018	1,018	1,017	1,018	1,022	1,014	1,026	1,032	1,033
Petroleum and coal products	167	166	165	163	164	164	164	164	164	164	164	165	167
Rubber and misc. plastics products	791	794	797	800	803	805	807	809	809	810	815	818	824
Leather and leather products	147	147	147	148	147	147	148	149	150	149	155	152	153
Service-producing	75,419	75,598	75,785	75,937	76,211	76,407	76,580	76,839	76,956	77,057	77,276	77,393	77,498
Transportation and public utilities	5,255	5,251	5,278	5,286	5,304	5,315	5,333	5,348	5,344	5,350	5,363	5,377	5,385
Transportation	3,050	3,053	3,071	3,078	3,089	3,097	3,112	3,124	3,120	3,128	3,133	3,146	3,154
Communication and public utilities	2,205	2,198	2,207	2,208	2,215	2,218	2,221	2,224	2,224	2,222	2,230	2,231	2,231
Wholesale trade	5,736	5,731	5,728	5,725	5,741	5,757	5,766	5,772	5,775	5,781	5,797	5,805	5,806
Durable goods	3,383	3,379	3,380	3,383	3,386	3,391	3,397	3,397	3,401	3,405	3,418	3,420	3,425
Nondurable goods	2,353	2,352	2,348	2,342	2,355	2,366	2,369	2,375	2,374	2,376	2,379	2,385	2,381
Retail trade	17,939	17,980	18,009	18,007	18,080	18,140	18,136	18,197	18,205	18,226	18,274	18,254	18,324
General merchandise stores	2,374	2,385	2,379	2,363	2,358	2,373	2,380	2,385	2,390	2,387	2,407	2,408	2,425
Food stores	2,892	2,901	2,906	2,916	2,929	2,940	2,944	2,953	2,956	2,960	2,959	2,964	2,971
Automotive dealers and service stations	1,958	1,960	1,963	1,970	1,978	1,979	1,979	1,978	1,978	1,983	1,985	1,984	1,987
Eating and drinking places	5,911	5,919	5,927	5,938	5,946	5,956	5,964	5,962	5,976	5,982	5,985	5,991	6,007
Finance, insurance, and real estate	6,374	6,395	6,418	6,451	6,480	6,501	6,526	6,558	6,576	6,586	6,608	6,628	6,626
Finance	3,193	3,204	3,212	3,227	3,235	3,243	3,256	3,272	3,276	3,280	3,291	3,296	3,295
Insurance	1,971	1,980	1,990	1,999	2,012	2,016	2,022	2,032	2,037	2,037	2,043	2,051	2,050
Real estate	1,210	1,211	1,216	1,225	1,233	1,242	1,248	1,254	1,263	1,269	1,274	1,281	1,281
Services	23,317	23,369	23,452	23,544	23,670	23,759	23,842	23,928	24,025	24,083	24,214	24,277	24,311
Business services	4,835	4,861	4,877	4,912	4,950	4,984	5,020	5,044	5,083	5,086	5,105	5,134	5,155
Health services	6,615	6,644	6,661	6,691	6,721	6,748	6,773	6,800	6,822	6,853	6,887	6,920	6,942
Government	16,798	16,872	16,900	16,924	16,936	16,935	16,977	17,038	17,031	17,031	17,020	17,052	17,046
Federal	2,902	2,897	2,900	2,904	2,912	2,916	2,922	2,933	2,935	2,935	2,936	2,940	2,960
State	3,890	3,907	3,915	3,927	3,929	3,927	3,930	3,943	3,947	3,932	3,952	3,970	3,975
Local	10,006	10,068	10,085	10,093	10,095	10,092	10,125	10,162	10,149	10,164	10,132	10,142	10,111

^P = 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**

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

(In thousands)

Industry	1986						1987						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total	45,661	45,801	45,960	46,111	46,229	46,358	46,517	46,654	46,766	46,937	46,999	47,142	47,372
Total private	37,258	37,382	37,436	37,547	37,653	37,767	37,909	38,057	38,133	38,271	38,337	38,445	38,649
Goods-producing	6,797	6,796	6,800	6,813	6,826	6,842	6,838	6,843	6,846	6,863	6,869	6,876	6,923
Mining	105	103	101	100	99	98	97	97	96	97	97	98	98
Construction	507	508	511	513	516	519	522	524	526	530	533	534	536
Manufacturing	6,185	6,185	6,188	6,200	6,211	6,225	6,219	6,222	6,224	6,236	6,239	6,244	6,289
Durable goods	2,975	2,979	2,979	2,981	2,983	2,985	2,979	2,983	2,978	2,980	2,980	2,983	2,990
Lumber and wood products	111	112	112	113	113	115	115	117	117	117	118	118	119
Furniture and fixtures	155	155	155	155	155	155	156	156	157	157	159	160	163
Stone, clay, and glass products	113	113	113	112	112	113	114	113	113	114	114	114	113
Primary metal industries	99	99	100	100	100	99	99	100	100	100	99	100	100
Fabricated metal products	319	320	320	320	321	321	320	320	320	322	322	323	323
Machinery, except electrical	448	445	443	443	442	441	440	441	441	444	444	444	446
Electrical and electronic equipment	885	886	885	886	885	884	880	876	870	868	866	864	869
Transportation equipment	378	381	382	384	387	389	388	392	392	391	390	390	385
Instruments and related products	303	303	303	302	301	301	300	300	299	299	299	299	301
Miscellaneous manufacturing	164	165	166	166	167	167	167	168	169	168	169	171	171
Nondurable goods	3,210	3,206	3,209	3,219	3,228	3,240	3,240	3,239	3,246	3,256	3,259	3,261	3,299
Food and kindred products	506	504	505	508	513	514	514	514	517	518	515	515	521
Tobacco manufactures	20	19	20	19	20	19	19	19	19	18	19	18	17
Textile mill products	345	345	344	345	347	349	349	350	352	351	351	352	355
Apparel and other textile products	887	883	882	883	881	889	883	878	878	880	883	883	902
Paper and allied products	163	163	164	164	165	165	165	165	165	165	165	165	165
Printing and publishing	620	621	623	626	628	629	632	634	636	640	641	643	644
Chemicals and allied products	287	287	287	288	288	287	289	290	290	291	292	292	295
Petroleum and coal products	26	26	25	25	25	25	24	24	24	24	24	24	24
Rubber and misc. plastics products	269	271	272	275	275	276	278	278	278	281	280	280	282
Leather and leather products	87	87	87	86	86	87	87	87	87	88	89	89	94
Service-producing	38,864	39,005	39,160	39,298	39,403	39,516	39,679	39,811	39,920	40,074	40,130	40,266	40,449
Transportation and public utilities	1,481	1,465	1,486	1,487	1,496	1,501	1,507	1,510	1,517	1,520	1,524	1,531	1,531
Wholesale trade	1,672	1,675	1,675	1,673	1,673	1,675	1,682	1,691	1,695	1,695	1,693	1,703	1,712
Retail trade	9,403	9,452	9,456	9,484	9,501	9,504	9,547	9,607	9,603	9,636	9,629	9,642	9,679
Finance, insurance, and real estate	3,922	3,944	3,961	3,978	3,996	4,016	4,036	4,053	4,064	4,087	4,100	4,109	4,126
Services	13,983	14,050	14,058	14,112	14,161	14,229	14,299	14,353	14,408	14,470	14,522	14,584	14,678
Government	8,403	8,419	8,524	8,564	8,576	8,591	8,608	8,597	8,633	8,666	8,662	8,697	8,723
Federal	1,019	1,024	1,033	1,032	1,033	1,035	1,037	1,038	1,041	1,043	1,045	1,044	1,044
State	1,849	1,850	1,852	1,861	1,865	1,869	1,878	1,871	1,883	1,890	1,897	1,896	1,913
Local	5,535	5,545	5,639	5,671	5,678	5,687	5,693	5,688	5,709	5,733	5,720	5,757	5,766

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 workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Total private	67,348	67,411	67,570	67,665	67,939	68,149	68,263	68,419	68,488	68,598	68,843	68,940	68,998
Goods-producing	17,252	17,238	17,270	17,283	17,331	17,379	17,380	17,375	17,360	17,377	17,441	17,478	17,506
Mining	518	516	514	510	504	508	511	518	525	528	534	539	542
Construction	3,883	3,873	3,877	3,867	3,943	3,955	3,944	3,918	3,889	3,891	3,887	3,899	3,865
Manufacturing	12,851	12,849	12,879	12,906	12,884	12,916	12,925	12,939	12,946	12,958	13,020	13,040	13,099
Durable goods	7,382	7,369	7,385	7,393	7,370	7,398	7,399	7,406	7,409	7,421	7,425	7,478	7,512
Lumber and wood products	601	603	607	611	611	614	615	617	618	615	619	615	616
Furniture and fixtures	399	399	398	398	400	400	402	403	407	408	416	415	417
Stone, clay, and glass products	450	448	449	451	452	454	453	453	452	451	449	451	453
Primary metal industries	546	546	547	547	540	547	553	559	557	561	565	569	583
Blast furnaces and basic steel products	195	197	194	193	188	194	199	205	205	207	209	211	215
Fabricated metal products	1,052	1,050	1,049	1,052	1,051	1,051	1,051	1,053	1,050	1,054	1,055	1,058	1,063
Machinery, except electrical	1,203	1,195	1,190	1,187	1,183	1,190	1,190	1,198	1,203	1,210	1,212	1,223	1,233
Electrical and electronic equipment	1,226	1,226	1,230	1,234	1,226	1,223	1,218	1,216	1,215	1,212	1,221	1,226	1,229
Transportation equipment	1,261	1,261	1,273	1,267	1,265	1,276	1,273	1,265	1,265	1,265	1,241	1,276	1,268
Motor vehicles and equipment	659	652	663	658	659	668	663	657	655	655	629	663	653
Instruments and related products	382	380	379	379	377	377	376	376	375	376	378	377	381
Miscellaneous manufacturing	262	261	263	267	265	266	268	266	267	269	269	268	269
Nondurable goods	5,469	5,480	5,494	5,513	5,514	5,518	5,526	5,533	5,537	5,537	5,595	5,562	5,587
Food and kindred products	1,138	1,139	1,146	1,149	1,147	1,150	1,154	1,158	1,153	1,150	1,159	1,146	1,145
Tobacco manufactures	44	44	45	44	44	44	44	43	44	42	43	42	39
Textile mill products	612	615	619	621	624	627	630	628	631	633	640	636	640
Apparel and other textile products	928	929	927	937	931	925	926	929	927	930	950	930	936
Paper and allied products	512	514	515	517	515	516	515	514	513	513	515	514	520
Printing and publishing	824	827	828	830	833	833	832	832	836	839	841	844	845
Chemicals and allied products	569	568	568	566	568	569	570	569	572	568	576	579	583
Petroleum and coal products	105	105	105	105	106	106	106	106	107	108	107	108	110
Rubber and misc. plastics products	616	618	620	622	623	625	626	629	629	629	633	635	640
Leather and leather products	121	121	121	122	123	123	123	125	125	125	131	128	129
Service-producing	50,096	50,173	50,300	50,382	50,808	50,770	50,883	51,044	51,128	51,221	51,402	51,462	51,492
Transportation and public utilities	4,344	4,342	4,368	4,380	4,389	4,401	4,419	4,428	4,429	4,439	4,449	4,467	4,474
Wholesale trade	4,598	4,590	4,586	4,583	4,600	4,611	4,617	4,622	4,623	4,632	4,641	4,643	4,640
Retail trade	15,977	16,013	16,035	16,030	16,097	16,141	16,132	16,189	16,193	16,195	16,246	16,242	16,255
Finance, insurance, and real estate	4,712	4,726	4,743	4,767	4,786	4,806	4,823	4,840	4,844	4,851	4,853	4,861	4,864
Services	20,465	20,502	20,568	20,622	20,736	20,811	20,892	20,965	21,039	21,104	21,213	21,249	21,259

¹ 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.

^p = 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 employment¹ 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	58.6	55.7	68.6	^p 53.0	^p 64.9			
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	61.6	61.4	67.3	^p 64.9	^p 72.4				
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	62.7	58.9	67.3	^p 66.5	^p 71.9						
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	55.1	56.5
	1987.....	62.2	^p 65.1	^p 67.3									

¹ 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.

^p = 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		
	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a
Alabama	1,459.6	1,490.0	1,491.2	12.0	10.5	11.4	77.9	78.3	78.8
Birmingham	376.9	392.0	392.8	6.0	5.5	5.9	24.1	25.9	25.9
Huntsville	117.3	121.5	122.1	.1	.1	.1	5.0	5.3	5.3
Mobile	157.8	159.9	158.4	.6	.4	.4	10.8	9.0	8.8
Montgomery	122.1	124.0	123.3	.1	.1	.1	9.5	9.7	9.7
Tuscaloosa	55.9	56.6	57.9	2.7	2.1	2.4	3.0	3.4	3.5
Alaska	236.4	226.1	224.1	9.0	8.3	8.4	16.3	14.1	15.1
Arizona	1,329.7	1,341.3	1,342.6	10.8	11.1	11.1	116.7	104.8	103.8
Phoenix	875.9	886.8	886.5	.6	.6	.6	80.7	70.1	69.5
Tucson	236.2	236.4	235.6	1.6	1.6	1.6	22.6	21.2	20.8
Arkansas	815.2	830.1	837.0	4.3	4.0	4.0	39.0	37.2	37.6
Fayetteville-Springdale	44.0	46.0	46.9	(¹)	(¹)	(¹)	1.9	2.1	2.1
Fort Smith	72.6	74.7	74.5	.9	1.0	1.0	3.2	2.9	2.9
Little Rock-North Little Rock	224.4	226.9	228.7	.4	.4	.4	11.8	12.4	12.5
Pine Bluff	34.0	31.4	31.4	(¹)	(¹)	(¹)	4.1	1.6	1.5
California	11,252.3	11,599.7	11,616.9	40.9	39.6	40.0	542.5	575.8	585.5
Anaheim-Santa Ana	1,045.3	1,088.2	1,082.6	2.3	2.1	2.0	55.3	59.0	59.7
Bakersfield	154.1	156.0	157.4	12.5	12.0	12.4	9.7	10.1	10.2
Fresno	196.5	203.4	204.1	.6	.8	.8	12.5	12.7	12.7
Los Angeles-Long Beach	3,883.6	4,004.9	3,995.5	10.8	10.5	10.6	130.1	135.7	137.7
Modesto	102.9	104.4	108.0	.1	.1	.1	6.1	6.9	6.9
Oakland	790.0	815.7	815.7	2.5	2.5	2.5	47.5	49.4	50.4
Oxnard-Ventura	193.6	201.3	199.8	3.0	2.5	2.5	11.0	11.9	12.3
Riverside-San Bernardino	553.3	591.1	591.0	1.2	1.3	1.3	45.7	52.7	53.9
Sacramento	520.5	536.7	540.6	.8	.8	.8	33.2	34.4	35.3
Salinas-Seaside-Monterey	104.0	108.0	107.0	.5	.5	.5	4.2	4.6	4.6
San Diego	819.3	850.4	852.0	.8	.8	.8	54.0	59.3	60.0
San Francisco	917.5	930.1	930.3	1.1	1.1	1.1	34.2	34.5	35.1
San Jose	769.7	775.5	778.3	.2	.2	.2	31.8	31.9	32.5
Santa Barbara-Santa Maria-Lompoc	142.8	144.9	144.1	1.3	1.4	1.4	6.4	6.3	6.5
Santa Rosa-Petaluma	118.8	122.6	123.7	.7	.6	.6	8.6	9.1	9.3
Stockton	140.1	139.6	143.8	.1	.1	.1	8.9	9.4	9.5
Vallejo-Fairfield-Napa	123.4	127.9	128.8	.3	.3	.3	8.2	9.0	9.3
Colorado	1,394.0	1,388.9	1,390.2	26.4	24.7	24.2	80.1	74.2	74.0
Boulder-Longmont	102.1	103.7	103.4	.3	.3	.3	4.5	3.9	3.9
Denver	804.5	798.6	800.0	16.9	16.0	15.8	44.3	40.5	41.2
Connecticut	1,598.4	1,644.5	1,643.0	1.7	1.7	1.7	76.6	77.0	77.3
Bridgeport-Milford	192.3	196.3	197.2	(¹)	(¹)	(¹)	8.4	9.1	9.4
Hartford	458.2	475.5	473.9	.3	.4	.4	19.9	20.4	20.5
New Britain	64.2	65.2	65.4	(¹)	(¹)	(¹)	4.2	4.6	4.7
New Haven-Meriden	242.7	250.7	249.4	.3	.3	.3	12.9	14.0	13.5
Stamford	123.9	126.9	126.7	.6	.6	.6	5.5	5.7	5.7
Waterbury	83.9	84.6	86.0	(¹)	(¹)	(¹)	4.3	4.6	4.6
Delaware	308.6	316.3	319.1	.1	.1	.1	20.1	19.9	20.2
Wilmington	262.9	270.5	273.2	.2	.2	.2	19.2	18.3	18.5
District of Columbia	654.5	662.0	660.0	.1	.1	.1	13.9	14.6	14.9
Washington MSA	2,003.9	2,063.9	2,057.1	1.0	.9	.9	126.2	129.9	129.6
Florida	4,535.0	4,737.3	4,733.5	9.4	9.9	9.9	343.7	342.4	342.1
Daytona Beach	104.7	109.8	109.4	(¹)	(¹)	(¹)	7.9	8.0	8.1
Fort Lauderdale-Hollywood-Pompano Beach	432.3	448.0	446.0	.4	.4	.4	36.6	36.3	35.9
Fort Myers-Cape Coral	98.0	108.6	107.7	(¹)	(¹)	(¹)	11.8	12.8	12.7
Gainesville	87.4	91.1	91.1	(¹)	(¹)	(¹)	4.9	4.4	4.4
Jacksonville	370.2	385.8	387.5	.5	.5	.5	27.8	28.2	28.1
Lakeland-Winter Haven	129.7	138.7	137.7	4.2	4.7	4.7	8.3	9.3	9.2
Melbourne-Titusville-Palm Bay	137.6	140.8	140.4	(¹)	(¹)	(¹)	9.1	8.3	8.3
Miami-Hialeah	788.4	807.2	806.2	.9	.9	.9	40.5	39.9	39.8
Orlando	444.0	473.7	473.2	(¹)	(¹)	(¹)	34.7	33.5	33.9
Pensacola	120.7	122.6	122.5	.3	.3	.3	10.5	10.5	10.3
Sarasota	94.9	99.4	99.6	(¹)	(¹)	(¹)	9.9	9.8	9.8
Tallahassee	100.7	105.9	104.8	(¹)	(¹)	(¹)	5.4	6.1	6.0
Tampa-St. Petersburg-Clearwater	754.4	776.0	774.0	.7	.7	.7	62.1	63.8	64.5
West Palm Beach-Boca Raton-DeLray Beach	290.5	313.3	313.8	(¹)	(¹)	(¹)	28.2	30.9	31.3

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a
Alabama	355.0	360.1	361.6	72.1	72.2	72.4	323.8	329.6	330.8
Birmingham	51.1	51.9	52.8	27.8	28.5	28.6	96.5	100.1	100.6
Huntsville	30.5	30.8	31.1	2.7	2.6	2.7	22.6	23.4	23.5
Mobile	24.9	27.0	26.8	9.7	9.1	9.2	43.8	44.4	44.6
Montgomery	17.9	17.5	17.5	4.8	4.8	4.8	27.6	28.2	28.1
Tuscaloosa	9.0	9.3	9.3	2.0	2.2	2.2	11.6	12.1	12.2
Alaska	20.8	21.6	19.5	19.6	19.4	19.1	46.7	43.8	44.1
Arizona	187.2	185.1	186.9	67.7	70.2	70.5	320.2	329.6	329.3
Phoenix	133.6	134.2	135.6	45.0	47.8	48.1	217.2	225.5	224.9
Tucson	31.8	30.4	30.5	9.8	9.8	9.7	53.6	53.9	54.1
Arkansas	213.9	219.9	222.0	48.8	50.6	51.0	187.1	193.2	194.7
Fayetteville-Springdale	9.9	10.9	11.3	4.0	4.3	4.3	10.7	11.0	11.0
Fort Smith	25.0	26.3	26.8	3.7	3.8	3.9	15.6	15.2	15.0
Little Rock-North Little Rock	32.4	32.0	32.3	14.9	14.9	15.0	55.0	55.7	56.2
Pine Bluff	6.2	6.5	6.5	2.8	2.7	2.7	6.7	6.3	6.3
California	2,095.0	2,092.8	2,114.3	584.6	593.6	590.4	2,724.9	2,822.0	2,832.3
Anaheim-Santa Ana	244.1	246.0	247.0	34.8	35.1	35.2	262.6	280.6	280.8
Bakersfield	10.4	10.4	10.3	8.3	8.8	8.5	40.9	40.9	40.7
Fresno	22.6	21.3	22.2	10.7	10.5	10.6	50.5	53.4	53.7
Los Angeles-Long Beach	884.7	896.0	899.2	203.2	207.8	204.4	924.7	952.4	956.5
Modesto	27.4	24.6	27.9	4.5	4.2	4.3	24.6	26.2	26.3
Oakland	102.3	104.6	105.9	56.3	56.1	56.1	199.9	206.2	207.0
Oxnard-Ventura	29.4	29.5	30.4	9.6	10.2	10.2	49.3	51.1	50.7
Riverside-San Bernardino	74.7	78.5	79.5	30.9	31.9	31.8	139.6	148.5	148.9
Sacramento	40.6	39.8	40.6	24.4	25.2	25.3	128.3	133.0	134.5
Salinas-Seaside-Monterey	10.3	10.5	10.4	4.9	5.1	5.1	28.1	28.3	28.4
San Diego	122.0	120.0	118.0	32.7	33.1	33.1	199.1	206.4	207.6
San Francisco	77.8	76.1	76.8	80.5	79.3	79.2	214.9	219.6	220.5
San Jose	269.0	264.3	266.9	21.2	21.2	21.3	149.9	154.4	154.7
Santa Barbara-Santa Maria-Lompoc	24.1	22.9	22.3	5.4	5.2	5.2	34.3	35.4	35.4
Santa Rosa-Petaluma	18.4	18.3	18.8	5.7	5.9	5.9	31.0	32.5	32.6
Stockton	25.5	24.0	28.2	9.5	9.3	9.2	32.5	32.8	32.7
Vallejo-Fairfield-Napa	13.8	13.5	13.9	4.5	4.5	4.5	29.8	31.5	31.7
Colorado	186.0	184.4	184.4	90.3	89.6	89.7	350.9	348.2	350.6
Boulder-Longmont	28.4	28.3	28.3	2.3	2.2	2.2	22.7	22.8	23.0
Denver	96.5	94.9	94.6	64.9	64.8	65.0	205.6	202.5	204.8
Connecticut	387.5	384.5	383.8	68.2	71.2	71.1	358.1	374.6	375.4
Bridgeport-Milford	59.8	58.8	59.4	7.4	7.2	7.2	44.7	45.9	46.1
Hartford	90.5	93.3	92.2	16.6	17.2	17.3	96.5	100.7	100.5
New Britain	21.6	19.8	19.8	3.1	3.1	3.2	12.9	13.6	13.6
New Haven-Meriden	46.1	46.1	45.3	17.6	18.0	18.0	56.9	59.0	59.2
Stamford	25.1	23.6	23.6	5.0	5.1	5.1	29.3	30.7	30.4
Waterbury	24.9	22.1	23.2	3.0	2.9	3.0	16.5	17.3	17.4
Delaware	68.3	66.2	69.4	12.0	12.6	12.6	70.3	72.8	72.6
Wilmington	57.6	55.4	58.4	13.1	13.9	13.8	55.5	58.7	58.7
District of Columbia	15.5	15.6	15.8	24.7	25.0	25.0	62.3	63.7	63.6
Washington MSA	85.2	85.4	85.6	95.2	100.4	100.4	399.8	415.7	414.4
Florida	513.7	521.0	523.8	245.5	249.6	250.6	1,229.5	1,300.4	1,301.1
Daytona Beach	11.8	12.8	12.9	3.3	3.4	3.3	30.9	32.5	32.5
Fort Lauderdale-Hollywood-Pompano Beach	42.8	44.1	44.5	21.2	22.5	22.4	128.3	133.3	133.0
Fort Myers-Cape Coral	5.2	5.7	5.7	4.7	5.1	5.1	28.6	32.7	32.2
Gainesville	5.5	5.7	5.8	1.7	1.7	1.7	19.6	20.3	20.6
Jacksonville	37.8	37.9	38.5	26.8	27.7	27.9	100.8	105.2	105.3
Lakeland-Winter Haven	20.3	20.3	20.7	5.9	6.0	6.1	36.3	38.7	38.3
Melbourne-Titusville-Palm Bay	27.2	27.2	27.4	5.6	5.4	5.4	31.5	33.1	33.0
Miami-Hialeah	92.3	91.7	91.5	67.7	66.7	67.0	210.4	218.5	218.6
Orlando	51.0	53.3	53.3	23.5	25.3	25.3	114.8	122.3	122.4
Pensacola	11.1	11.4	11.4	6.2	6.5	6.5	32.3	32.3	32.5
Sarasota	8.1	8.6	8.6	3.5	3.5	3.5	28.0	28.7	28.7
Tallahassee	4.5	4.8	4.8	2.8	3.0	2.9	21.3	22.5	22.4
Tampa-St. Petersburg-Clearwater	90.0	88.0	88.3	37.2	37.3	37.2	207.7	211.9	211.6
West Palm Beach-Boca Raton-DeLray Beach	36.1	35.2	36.0	10.7	11.4	11.4	75.4	82.1	82.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Alabama	69.9	71.4	71.1	259.0	270.0	270.9	289.9	297.9	294.2
Birmingham	28.7	29.3	29.2	87.4	92.4	92.4	55.3	58.4	57.5
Huntsville	3.4	3.5	3.5	25.5	27.0	27.1	27.5	28.8	28.8
Mobile	7.7	7.4	7.4	33.7	34.8	34.5	26.8	27.8	26.9
Montgomery	7.3	7.3	7.3	24.1	24.3	24.3	30.8	32.1	31.5
Tuscaloosa	2.0	2.1	2.1	7.7	7.8	8.1	17.9	17.6	18.1
Alaska	12.9	12.0	11.8	46.3	43.8	43.4	64.8	83.1	62.7
Arizona	90.5	91.6	91.7	326.8	337.2	338.9	209.8	211.7	212.4
Phoenix	71.5	72.1	72.2	217.9	226.9	227.0	109.4	109.6	108.6
Tucson	12.3	12.9	12.8	61.0	62.3	62.0	43.5	44.3	44.1
Arkansas	38.1	38.6	38.7	148.8	155.3	154.9	135.4	131.3	134.1
Fayetteville-Springdale	1.5	1.4	1.4	6.2	6.7	6.9	9.8	9.8	9.9
Fort Smith	2.7	2.8	2.7	15.1	16.4	15.9	6.4	6.3	6.5
Little Rock-North Little Rock	15.5	15.6	15.6	50.6	52.7	52.8	43.8	43.2	43.9
Pine Bluff	1.6	1.7	1.7	5.8	5.9	5.9	6.8	6.7	6.8
California	775.1	793.2	795.1	2,773.8	2,885.9	2,895.6	1,715.5	1,796.8	1,763.7
Anaheim-Santa Ana	84.4	85.0	85.3	259.1	275.4	277.2	102.9	105.0	105.4
Bakersfield	6.4	6.3	6.4	30.3	31.5	31.7	35.6	38.2	37.2
Fresno	13.9	14.0	13.9	46.0	49.1	49.1	39.7	41.6	41.1
Los Angeles-Long Beach	278.5	284.0	285.0	1,002.3	1,035.7	1,040.7	451.3	482.8	461.4
Modesto	4.6	4.8	4.8	20.9	21.6	22.0	14.7	16.0	15.7
Oakland	52.6	55.5	55.6	178.4	184.4	183.6	150.5	157.0	154.6
Oxnard-Ventura	10.3	10.6	10.6	43.0	45.3	45.5	38.0	40.2	37.6
Riverside-San Bernardino	24.1	25.4	25.4	128.9	136.4	136.7	108.2	116.4	113.5
Sacramento	31.5	32.5	32.5	108.8	113.9	114.6	152.9	157.1	157.0
Salinas-Seaside-Monterey	5.0	5.4	5.3	25.7	26.7	26.7	25.3	26.9	26.0
San Diego	57.1	59.0	59.2	214.1	225.9	227.8	139.5	145.9	145.5
San Francisco	114.3	112.6	112.5	267.0	275.2	274.6	127.7	131.7	130.5
San Jose	33.4	32.9	33.1	184.8	189.6	189.4	79.4	81.0	80.2
Santa Barbara-Santa Maria-Lompoc	8.0	8.3	8.3	38.5	39.8	39.5	24.8	25.6	25.5
Santa Rosa-Petaluma	8.1	8.3	8.3	26.3	27.6	27.7	20.0	20.3	20.7
Stockton	8.1	8.2	8.3	27.9	28.1	28.3	27.6	27.7	27.5
Vallejo-Fairfield-Napa	4.9	4.9	4.9	27.2	28.1	28.4	34.7	36.1	35.8
Colorado	98.7	97.9	98.1	326.6	330.4	329.6	235.0	239.5	239.6
Boulder-Longmont	3.9	3.9	4.0	21.3	22.1	22.3	18.7	20.2	19.4
Denver	66.5	65.6	65.3	197.2	199.4	198.6	112.6	114.9	114.7
Connecticut	142.3	148.6	148.9	376.0	393.6	393.6	188.0	193.3	191.2
Bridgeport-Milford	10.7	11.6	11.7	44.6	47.2	47.1	16.7	16.5	16.3
Hartford	76.2	79.5	79.7	102.6	107.9	107.7	55.6	56.1	55.6
New Britain	3.9	4.3	4.4	12.7	13.8	13.8	5.8	6.0	5.9
New Haven-Meriden	14.7	15.2	15.2	65.4	68.2	68.1	28.8	29.9	29.8
Stamford	11.4	12.2	12.2	37.3	39.5	39.6	9.7	9.5	9.5
Waterbury	4.1	4.2	4.2	19.6	21.9	22.0	11.5	11.6	11.6
Delaware	23.6	25.4	25.4	68.8	72.5	72.3	45.5	46.7	46.5
Wilmington	21.3	23.4	23.4	60.5	64.0	64.0	35.4	36.5	36.2
District of Columbia	36.4	37.1	36.7	221.3	228.1	227.3	290.2	277.6	276.7
Washington MSA	117.2	122.5	122.0	623.8	644.5	642.3	555.4	564.5	581.9
Florida	343.1	357.5	357.6	1,199.4	1,269.9	1,271.8	650.7	886.6	876.6
Daytona Beach	6.4	6.5	6.5	28.5	29.5	29.2	15.9	17.1	16.9
Fort Lauderdale-Hollywood-Pompano Beach	37.0	38.2	38.2	115.9	120.6	119.6	50.1	52.6	52.0
Fort Myers-Cape Coral	7.8	8.7	8.6	28.5	29.1	29.0	13.3	14.4	14.3
Gainesville	4.2	4.1	4.1	20.1	21.2	21.4	31.3	33.6	33.0
Jacksonville	35.6	37.3	37.5	90.2	94.7	95.5	50.7	54.3	54.2
Lakeland-Winter Haven	8.1	8.1	8.0	30.4	33.8	33.6	16.2	17.8	17.1
Melbourne-Titusville-Palm Bay	5.3	5.2	5.3	39.1	40.8	40.8	19.7	20.7	20.1
Miami-Hialeah	68.2	70.0	70.2	211.3	215.1	214.4	97.1	104.4	103.8
Orlando	30.7	32.9	33.0	144.0	158.7	156.6	45.2	49.6	48.6
Pensacola	5.5	5.7	5.7	29.0	29.8	29.9	25.8	26.1	25.9
Sarasota	8.2	8.1	8.1	26.5	29.4	29.6	10.6	11.2	11.2
Tallahassee	4.5	4.6	4.6	20.5	21.2	21.3	41.4	43.5	42.6
Tampa-St. Petersburg-Clearwater	62.1	64.0	64.0	203.8	214.8	214.9	90.8	95.5	92.8
West Palm Beach-Boca Raton-DeLray Beach	25.4	27.6	27.6	82.7	90.1	89.9	32.0	36.0	35.2

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Georgia	2,689.4	2,747.1	2,752.6	8.6	8.8	8.9	162.0	158.4	158.7
Albany	47.5	47.7	48.2	(¹)	(¹)	(¹)	2.1	2.2	2.2
Athens	60.5	62.7	62.7	.1	.2	.2	2.8	2.9	2.8
Atlanta	1,342.0	1,384.9	1,385.7	1.6	1.7	1.7	82.0	80.1	80.3
Augusta	151.3	151.6	151.5	.5	.5	.5	9.2	8.8	8.9
Columbus	90.1	90.4	90.6	.1	.1	.1	5.4	5.4	5.2
Macon-Warner Robins	115.7	117.7	117.6	.1	.1	.1	5.2	5.3	5.2
Savannah	100.0	101.0	100.5	(¹)	(¹)	(¹)	7.6	7.1	7.2
Hawaii	438.6	451.1	450.9	(¹)	(¹)	(¹)	19.8	21.7	21.5
Honolulu	351.4	362.3	361.2	(¹)	(¹)	(¹)	16.2	17.8	17.6
Idaho	333.3	336.7	337.7	2.8	2.7	2.8	16.9	16.9	17.3
Boise City	87.9	89.3	88.9	(²)	(²)	(²)	5.3	5.3	5.5
Illinois	4,803.6	4,873.0	4,883.6	25.4	24.9	24.9	199.3	192.1	195.5
Aurora-Elgin	130.9	134.9	135.3	(¹)	(¹)	(¹)	5.7	6.1	6.2
Bloomington-Normal	51.8	52.3	52.7	(¹)	(¹)	(¹)	1.5	1.5	1.5
Champaign-Urbana-Rantoul	75.5	79.1	76.9	(¹)	(¹)	(¹)	2.3	2.3	2.2
Chicago	2,954.2	3,016.7	3,011.8	3.3	3.4	3.4	121.5	127.5	127.6
Davenport-Rock Island-Moline	153.6	154.4	154.8	(¹)	(¹)	(¹)	4.9	4.9	4.9
Decatur	49.9	49.4	49.4	(¹)	(¹)	(¹)	1.7	1.7	1.7
Joliet	90.6	92.6	93.2	(¹)	(¹)	(¹)	4.6	4.4	4.6
Kankakee	32.8	32.9	32.9	(¹)	(¹)	(¹)	1.2	1.2	1.2
Lake County	176.4	182.7	182.3	(¹)	(¹)	(¹)	7.5	7.0	7.0
Peoria	130.7	132.3	132.0	(¹)	(¹)	(¹)	5.6	5.8	5.8
Rockford	124.7	122.6	123.5	(¹)	(¹)	(¹)	4.0	4.0	4.1
Springfield	100.3	93.4	98.9	(¹)	(¹)	(¹)	2.9	2.6	2.6
Indiana	2,236.9	2,299.7	2,315.2	9.1	8.6	8.7	108.0	122.5	124.7
Anderson	48.3	47.1	47.6	(²)	(²)	(²)	1.5	1.5	1.6
Bloomington	47.6	49.5	50.4	(²)	(²)	(²)	2.1	2.4	2.5
Elkhart-Goshen	92.5	97.1	97.4	(²)	(²)	(²)	2.7	3.0	3.1
Evansville	122.7	125.2	125.2	2.3	2.3	2.2	9.1	8.9	9.0
Fort Wayne	177.0	184.4	184.9	(²)	(²)	(²)	9.2	10.0	10.1
Gary-Hammond	206.0	218.3	216.2	(²)	(²)	(²)	11.8	13.0	12.6
Indianapolis	584.7	604.0	607.5	.8	.8	.8	31.1	34.2	34.9
Kokomo	43.9	44.5	45.1	(²)	(²)	(²)	1.3	1.4	1.4
Lafayette	57.0	59.6	58.6	(²)	(²)	(²)	2.3	2.6	2.6
Muncie	46.6	47.7	47.1	(²)	(²)	(²)	1.9	2.2	2.2
South Bend-Mishawaka	105.3	107.9	108.5	(²)	(²)	(²)	5.1	5.7	5.8
Terre Haute	50.8	50.4	50.6	.5	.4	.4	1.8	2.0	2.0
Iowa	1,074.5	1,097.9	1,096.6	2.2	2.2	2.1	42.7	44.3	43.8
Cedar Rapids	81.1	81.9	81.5	.2	.2	.2	3.3	3.5	3.7
Des Moines	199.5	204.9	205.8	(¹)	(¹)	(¹)	8.5	7.8	7.9
Dubuque	40.3	41.2	41.5	(¹)	(¹)	(¹)	1.4	1.3	1.3
Iowa City	47.2	47.4	48.6	(¹)	(¹)	(¹)	1.5	1.9	1.9
Sioux City	48.6	49.6	49.6	(¹)	(¹)	(¹)	1.9	2.0	2.0
Waterloo-Cedar Falls	54.5	59.3	59.6	(¹)	(¹)	(¹)	2.0	2.0	2.0
Kansas	981.1	987.8	988.0	11.0	12.2	12.2	49.0	46.5	46.7
Lawrence	28.9	29.0	30.1	(¹)	(¹)	(¹)	1.2	1.4	1.4
Topeka	84.5	84.8	85.0	(¹)	(¹)	(¹)	4.1	4.0	3.9
Wichita	204.8	214.6	214.2	2.2	2.3	2.5	11.0	12.4	12.6
Kentucky	1,274.8	1,294.5	1,298.1	40.5	39.8	39.8	62.0	65.5	66.5
Lexington-Fayette	167.4	169.5	170.3	.9	1.1	1.1	11.3	13.3	13.4
Louisville	426.5	436.6	435.2	.7	.7	.7	22.9	24.2	24.6
Owensboro	32.8	32.2	32.5	.9	1.1	1.1	2.1	2.2	2.2
Louisiana	1,499.6	1,486.9	1,483.6	59.8	60.6	60.4	91.3	83.9	85.0
Alexandria	45.3	45.6	45.5	.2	.2	.2	2.8	2.8	2.8
Baton Rouge	210.6	211.8	211.8	1.0	1.0	1.0	20.2	19.7	19.9
Houma-Thibodaux	53.7	52.8	52.6	6.0	6.3	6.2	1.7	1.4	1.4
Lafayette	84.9	82.2	82.4	11.1	11.0	11.0	3.8	2.9	3.2
Lake Charles	56.9	59.7	58.7	1.3	1.3	1.3	5.1	4.9	4.9
Monroe	55.3	55.4	54.5	.4	.7	.5	3.4	2.9	2.8
New Orleans	513.4	510.7	512.0	16.0	17.1	17.0	25.6	23.8	24.3
Shreveport	134.0	129.9	129.0	3.6	3.2	3.3	8.3	8.0	8.2
Maine	493.6	500.7	508.5	.1	.1	.2	30.9	32.5	32.9
Lewiston-Auburn	37.9	38.3	39.0	(¹)	(¹)	(¹)	2.0	2.1	2.2
Portland	119.5	120.6	121.8	(¹)	(¹)	(¹)	8.0	6.3	8.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Georgia	563.4	568.0	570.8	168.7	171.2	171.1	676.0	697.4	696.6
Albany	8.7	8.6	8.5	2.2	2.2	2.2	12.4	12.6	12.5
Athens	15.3	15.6	15.8	1.7	1.7	1.7	12.5	12.7	12.7
Atlanta	189.9	190.7	191.3	110.2	112.6	112.7	370.2	387.6	386.8
Augusta	36.0	36.1	36.3	5.0	5.1	5.1	32.9	33.3	33.2
Columbus	19.8	19.5	19.7	3.5	3.4	3.4	20.0	20.4	20.4
Macon-Warner Robins	19.4	20.0	20.0	5.0	5.1	5.1	25.3	25.2	25.2
Savannah	16.6	17.0	17.0	10.0	9.7	9.5	24.0	24.0	23.9
Hawaii	22.7	22.7	22.5	34.1	34.6	34.5	117.0	120.7	119.9
Honolulu	16.8	16.8	16.6	27.9	28.2	28.1	92.0	95.2	94.5
Idaho	50.5	55.6	53.5	18.6	18.5	18.6	85.1	85.1	84.9
Boise City	10.3	10.9	10.9	5.5	5.9	5.9	22.5	22.9	22.7
Illinois	922.8	930.3	932.0	278.7	282.5	283.8	1,189.1	1,232.7	1,238.4
Aurora-Elgin	35.7	36.4	36.7	4.7	5.2	5.3	35.8	36.9	37.0
Bloomington-Normal	4.7	5.1	5.1	2.8	2.9	2.9	12.4	12.4	12.5
Champaign-Urbana-Rantoul	7.5	7.7	7.6	2.1	1.9	1.9	19.0	19.3	19.3
Chicago	545.6	538.4	539.7	188.1	192.5	193.8	730.6	744.8	745.9
Davenport-Rock Island-Moline	32.6	33.5	33.8	8.2	8.3	8.4	42.3	42.3	42.3
Decatur	14.0	13.4	13.4	4.5	4.6	4.6	11.1	11.0	11.1
Joliet	17.1	19.4	19.4	8.7	8.4	8.4	22.4	22.4	22.5
Kankakee	5.3	5.4	5.4	1.5	1.4	1.4	8.1	8.0	8.0
Lake County	39.7	39.9	40.2	6.0	6.5	6.3	45.3	46.5	46.6
Peoria	31.2	30.9	31.1	6.5	6.6	6.6	32.5	33.7	33.3
Rockford	45.7	43.5	44.3	4.5	4.5	4.5	28.4	28.5	28.5
Springfield	3.9	3.8	3.9	4.7	4.8	4.8	21.5	19.3	21.4
Indiana	603.3	606.3	612.0	113.8	117.9	118.4	535.4	558.1	560.8
Anderson	18.4	16.7	17.1	1.4	1.4	1.4	10.8	11.2	11.2
Bloomington	8.1	8.6	8.7	1.7	1.7	1.7	11.3	12.0	12.3
Elkhart-Goshen	49.7	52.2	52.2	2.8	2.8	2.9	18.1	18.8	19.0
Evansville	29.3	30.0	29.9	6.5	6.5	6.5	30.8	31.6	31.8
Fort Wayne	48.9	50.3	50.3	11.6	12.0	12.0	43.1	45.8	45.9
Gary-Hammond	50.3	55.1	55.6	13.8	14.0	14.0	50.8	52.1	52.3
Indianapolis	107.1	106.1	106.4	35.0	37.0	37.2	149.6	154.7	155.5
Kokomo	19.0	18.5	19.1	1.4	1.4	1.4	9.5	10.1	10.1
Lafayette	11.2	11.5	11.3	1.6	1.6	1.6	12.3	12.5	12.6
Muncie	10.8	10.5	10.3	2.2	2.2	2.2	12.0	12.1	12.1
South Bend-Mishawaka	23.9	23.1	23.8	4.8	5.0	5.0	27.7	28.8	28.9
Terre Haute	10.7	10.1	10.1	2.6	2.6	2.6	14.2	14.2	14.3
Iowa	202.6	212.1	213.2	52.6	53.3	53.7	282.8	281.6	280.5
Cedar Rapids	22.5	22.5	22.2	4.2	4.2	4.2	20.4	20.4	20.5
Des Moines	21.6	22.4	22.7	11.9	12.1	12.2	53.1	53.1	53.4
Dubuque	11.7	12.2	12.4	1.7	1.6	1.6	9.4	10.0	10.1
Iowa City	3.7	4.0	4.0	1.1	1.3	1.3	9.1	9.1	9.1
Sioux City	9.9	8.7	8.4	3.3	3.8	3.8	12.2	12.6	12.8
Waterloo-Cedar Falls	9.2	13.4	13.2	1.8	1.7	1.8	14.5	14.3	14.6
Kansas	176.4	180.0	180.4	62.1	63.1	63.2	247.4	251.3	251.7
Lawrence	4.6	4.5	4.5	1.3	1.3	1.3	6.6	6.7	6.8
Topeka	9.3	9.4	9.2	6.8	6.6	6.6	18.9	19.3	19.4
Wichita	55.1	59.6	59.5	9.7	9.9	9.9	49.3	50.4	50.2
Kentucky	252.8	258.0	258.9	68.0	70.1	70.9	305.5	301.6	304.2
Lexington-Fayette	27.5	27.6	27.6	7.7	7.1	7.1	39.2	39.7	40.3
Louisville	86.6	85.1	85.4	26.4	26.7	27.2	105.1	103.8	104.5
Owensboro	5.9	6.0	6.3	2.3	2.4	2.4	8.4	7.7	7.7
Louisiana	165.9	167.1	168.1	105.8	107.3	106.8	387.6	359.2	359.4
Alexandria	3.3	3.4	3.4	2.5	2.3	2.3	10.7	11.0	10.9
Baton Rouge	18.9	18.9	19.1	10.5	10.7	10.8	52.1	52.8	53.1
Houma-Thibodaux	5.1	4.3	4.3	5.9	5.9	5.9	13.7	13.8	13.8
Lafayette	5.7	5.7	5.7	6.7	6.5	6.4	22.9	21.6	21.9
Lake Charles	8.7	10.9	11.0	3.7	3.8	3.7	13.9	13.8	13.7
Monroe	7.3	7.0	7.1	2.9	2.6	2.7	15.6	15.0	14.7
New Orleans	43.3	42.2	42.0	43.0	42.4	42.3	136.4	132.6	133.4
Shreveport	19.0	18.4	18.4	8.6	7.9	7.9	31.7	29.7	29.9
Maine	106.5	98.6	104.6	20.1	19.8	19.9	123.8	129.9	131.1
Lewiston-Auburn	10.3	9.6	10.0	1.4	1.4	1.3	9.0	9.2	9.4
Portland	16.8	15.0	15.4	6.3	6.4	6.4	35.5	36.5	36.8

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Georgia	148.8	151.6	151.9	513.8	535.6	537.3	448.1	456.1	457.4
Albany	2.5	2.5	2.5	8.0	8.2	8.4	11.6	11.4	11.9
Athens	2.0	2.0	2.1	9.1	9.6	9.6	17.0	17.9	17.9
Atlanta	96.3	98.4	98.6	311.8	326.8	327.5	180.0	186.9	186.7
Augusta	5.9	6.1	6.0	29.4	28.8	28.8	32.3	33.0	32.8
Columbus	6.3	6.3	6.3	15.5	15.5	15.6	19.6	19.8	19.9
Macon-Warner Robins	7.4	7.7	7.7	20.4	20.7	20.7	32.9	33.6	33.5
Savannah	4.5	4.5	4.4	22.9	23.1	22.9	14.3	15.7	15.6
Hawaii	33.1	33.8	33.9	119.2	123.9	124.8	92.7	93.7	93.8
Honolulu	28.1	28.7	28.8	92.8	97.1	97.2	77.6	78.5	78.4
Idaho	24.0	24.5	24.5	69.2	66.2	69.2	66.2	67.2	66.9
Boise City	8.7	8.6	8.6	19.6	19.5	19.2	16.0	16.2	16.1
Illinois	352.9	358.4	358.9	1,148.6	1,160.3	1,165.1	686.8	691.8	685.0
Aurora-Elgin	6.8	6.9	6.8	28.7	29.9	30.1	13.4	13.4	13.1
Bloomington-Normal	9.2	9.4	9.4	11.3	11.5	11.4	9.9	9.5	9.9
Champaign-Urbana-Rantoul	3.2	3.2	3.2	14.9	14.9	15.0	26.5	29.8	27.7
Chicago	254.6	281.3	281.1	770.5	792.5	793.9	339.8	356.3	346.4
Davenport-Rock Island-Moline	7.9	8.1	8.1	30.8	30.2	30.2	26.9	27.1	27.1
Decatur	2.8	2.7	2.7	10.6	10.6	10.6	5.2	5.4	5.3
Joliet	3.9	3.8	3.9	19.6	19.3	19.5	14.1	14.7	14.7
Kankakee	1.6	1.6	1.6	8.1	8.6	8.6	7.0	6.7	6.7
Lake County	6.5	6.6	6.5	42.6	46.0	46.0	28.1	29.5	29.0
Peoria	7.0	7.1	7.1	32.6	33.1	33.1	15.3	15.1	15.0
Rockford	5.4	5.6	5.6	25.1	24.6	24.6	11.6	11.9	11.9
Springfield	7.8	7.9	7.9	26.9	23.1	25.5	32.5	31.8	32.7
Indiana	113.1	117.6	117.9	431.6	446.5	449.9	322.8	322.2	322.8
Anderson	1.6	1.6	1.6	9.1	9.2	9.3	5.5	5.6	5.4
Bloomington	1.8	1.8	1.9	7.5	8.0	8.0	15.1	14.9	15.3
Elkhart-Goshen	2.4	2.4	2.5	12.2	12.8	12.9	4.6	5.1	4.9
Evansville	5.0	5.1	5.2	28.7	29.6	29.7	11.0	11.3	10.9
Fort Wayne	11.9	12.1	12.1	35.7	37.1	37.4	16.6	17.3	17.1
Gary-Hammond	8.1	8.4	8.3	43.9	45.6	45.6	27.3	30.1	27.8
Indianapolis	44.2	46.0	46.0	129.7	138.0	138.8	87.2	87.1	87.7
Kokomo	1.3	1.4	1.4	6.1	6.6	6.7	5.3	5.1	5.0
Lafayette	3.0	3.1	3.1	10.9	11.3	11.2	15.6	17.1	16.2
Muncie	1.6	1.6	1.6	10.0	10.3	10.5	8.1	8.7	8.1
South Bend-Mishawaka	5.7	5.9	5.9	28.0	29.0	29.1	10.1	10.4	10.0
Terre Haute	1.8	1.9	1.9	10.3	10.6	10.6	8.9	8.6	8.7
Iowa	63.7	65.3	65.3	237.5	240.2	240.9	190.4	198.9	197.1
Cedar Rapids	4.7	4.6	4.5	17.8	18.0	18.0	8.0	8.5	8.2
Des Moines	25.8	27.5	27.6	50.4	53.1	53.3	28.1	28.8	28.6
Dubuque	1.4	1.5	1.5	11.7	11.6	11.6	3.0	3.0	3.0
Iowa City	1.5	1.8	1.8	7.5	7.6	7.6	22.7	21.5	22.7
Sioux City	2.6	2.6	2.6	12.6	13.5	13.6	6.1	6.4	6.4
Waterloo-Cedar Falls	3.2	3.3	3.3	13.6	13.9	14.1	10.1	10.7	10.6
Kansas	55.1	56.3	56.1	194.1	199.7	199.7	186.0	178.7	178.0
Lawrence	1.0	1.1	1.1	5.3	5.4	5.4	8.9	8.6	9.6
Topeka	5.9	6.3	6.4	18.8	19.7	19.6	20.6	19.4	19.8
Wichita	10.9	11.4	11.3	42.9	44.8	44.8	23.7	23.8	23.4
Kentucky	61.4	63.2	63.0	260.3	270.0	268.9	224.5	226.3	225.9
Lexington-Fayette	9.1	9.1	9.1	36.5	37.3	37.2	33.2	34.3	34.5
Louisville	28.1	29.6	29.4	98.5	104.6	104.2	58.2	61.9	59.2
Owensboro	1.4	1.4	1.4	7.3	7.3	7.4	4.5	4.1	4.0
Louisiana	85.9	84.6	84.3	315.9	315.6	316.1	307.4	308.6	303.5
Alexandria	2.7	2.7	2.7	11.0	11.1	11.0	12.1	12.1	12.2
Baton Rouge	14.0	13.5	13.5	41.2	42.5	42.1	52.7	52.7	52.5
Houma-Thibodaux	2.5	2.4	2.4	8.5	8.6	8.7	10.3	10.1	9.9
Lafayette	4.1	3.9	3.9	18.0	17.8	17.9	12.6	12.6	12.4
Lake Charles	2.8	2.8	2.8	10.9	10.8	10.8	10.5	11.4	10.5
Monroe	4.5	4.5	4.5	11.2	11.5	11.4	10.0	11.2	10.8
New Orleans	34.0	33.8	33.4	130.6	130.3	131.4	84.5	88.5	88.2
Shreveport	7.8	7.6	7.6	31.4	31.7	31.5	23.6	23.4	22.2
Maine	23.5	24.5	24.5	111.0	116.0	116.6	77.7	79.3	78.7
Lewiston-Auburn	2.1	2.2	2.2	9.5	10.2	10.4	3.6	3.6	3.5
Portland	11.3	12.1	12.2	28.2	29.3	29.6	13.4	13.0	13.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Maryland	1,965.1	1,994.5	1,990.1	1.7	1.7	1.7	146.4	147.9	148.0
Baltimore MSA	1,058.3	1,071.4	1,067.5	.2	.2	.2	69.3	71.9	71.6
Baltimore City	454.0	462.9	462.7	(¹)	(¹)	(¹)	18.8	18.6	18.9
Suburban Maryland-D.C.	689.5	714.0	712.3	.4	.4	.4	62.5	64.5	63.8
Massachusetts	2,981.2	3,043.2	3,049.7	1.9	2.2	2.2	132.3	136.4	139.1
Boston	1,661.0	1,709.8	1,707.6	.8	1.0	1.0	69.1	71.9	73.3
Brockton	70.0	72.3	72.8	(¹)	(¹)	(¹)	4.1	5.2	5.5
Fall River	54.6	54.7	56.3	(¹)	(¹)	(¹)	2.4	3.0	3.1
Fitchburg-Leominster	38.8	39.0	39.6	(¹)	(¹)	(¹)	2.3	2.3	2.4
Lawrence-Haverhill	157.2	160.1	161.1	(¹)	(¹)	(¹)	9.1	9.6	9.8
Lowell	102.2	103.6	104.0	.2	.1	.1	5.4	5.9	6.0
New Bedford	65.2	65.1	65.9	(¹)	(¹)	(¹)	3.3	4.0	4.1
Pittsfield	43.5	44.2	44.6	.1	.1	.1	2.1	2.5	2.3
Springfield	227.9	238.4	237.4	.2	.2	.2	9.1	10.1	10.3
Worcester	187.5	193.3	193.9	.2	.2	.2	9.2	9.9	10.0
Michigan	3,628.9	3,640.0	3,685.2	10.2	11.5	11.5	125.7	146.2	149.7
Ann Arbor	153.4	158.3	158.6	(¹)	(¹)	(¹)	5.8	6.2	6.1
Battle Creek	55.2	56.2	56.3	(¹)	(¹)	(¹)	1.6	1.9	1.9
Benton Harbor	62.8	63.5	63.7	(¹)	(¹)	(¹)	1.5	1.7	1.7
Detroit	1,841.5	1,851.8	1,859.6	.9	.9	.9	67.4	76.5	77.2
Flint	180.5	171.7	172.2	(¹)	(¹)	(¹)	6.4	5.7	5.7
Grand Rapids	298.3	302.1	304.4	(¹)	(¹)	(¹)	14.9	16.6	16.8
Jackson	49.3	49.7	50.1	(¹)	(¹)	(¹)	1.4	1.6	1.6
Kalamazoo	98.2	100.4	102.2	(¹)	(¹)	(¹)	3.4	3.4	3.6
Lansing-East Lansing	191.9	191.0	194.5	(¹)	(¹)	(¹)	6.5	5.5	6.0
Muskegon	56.8	56.8	57.2	(¹)	(¹)	(¹)	2.4	2.1	2.1
Saginaw-Bay City-Midland	150.9	154.5	157.0	(¹)	(¹)	(¹)	6.5	6.6	6.8
Minnesota	1,902.4	1,948.3	1,961.6	6.4	6.9	7.1	87.4	92.6	94.9
Duluth	82.4	84.9	84.7	3.2	4.0	4.2	4.1	4.6	4.9
Minneapolis-St. Paul	1,235.4	1,258.5	1,259.1	(¹)	(¹)	(¹)	55.9	56.5	57.2
Rochester	55.4	56.9	56.9	(²)	(²)	(²)	2.2	2.3	2.5
St. Cloud	64.3	66.6	66.4	(²)	(²)	(²)	4.0	5.2	5.3
Mississippi	834.7	851.0	852.9	6.2	6.3	6.4	37.1	36.4	36.5
Jackson	168.3	172.1	172.7	1.0	1.1	1.1	9.1	9.1	8.8
Missouri	2,141.2	2,143.3	2,149.6	5.5	5.6	5.6	107.6	103.5	106.1
Kansas City	719.0	713.0	712.8	.5	.6	.6	37.3	36.1	36.7
St. Joseph	35.4	35.3	35.0	(¹)	(¹)	(¹)	1.6	1.8	1.8
St. Louis	1,098.6	1,101.1	1,104.4	3.8	3.5	3.5	60.8	56.5	57.7
Springfield	102.6	104.0	104.4	.1	.1	.1	4.6	4.6	4.7
Montana	277.4	273.8	275.1	5.9	6.5	6.6	12.3	10.2	10.7
Nebraska	654.6	662.2	663.2	2.0	2.0	2.0	27.8	25.3	25.3
Lincoln	106.1	108.0	107.7	(¹)	(¹)	(¹)	4.2	4.0	4.0
Omaha	293.6	296.4	297.1	.2	.2	.2	13.8	13.8	13.8
Nevada	476.5	505.5	507.0	6.5	7.3	7.2	29.9	32.3	32.8
Las Vegas	284.5	285.1	285.7	.3	.3	.3	17.6	19.2	19.4
Reno	129.4	133.9	134.3	.7	.8	.8	7.8	8.2	8.4
New Hampshire	496.6	510.9	514.7	.6	.6	.6	35.5	37.5	38.2
Nashua	86.7	90.1	90.1	.1	.1	.1	4.7	5.5	5.5
Portsmouth-Dover-Rochester,NH-ME	108.1	109.7	109.8	.1	.1	.1	5.9	5.2	5.1
New Jersey	3,519.0	3,612.3	3,606.6	2.3	2.4	2.4	165.0	178.2	179.9
Atlantic City	177.7	184.5	184.7	(¹)	(¹)	(¹)	9.9	11.4	11.7
Bergen-Passaic	645.3	655.1	656.4	.1	.1	.1	30.3	32.4	32.5
Camden	409.0	419.5	419.0	.1	.1	.1	21.7	24.3	25.0
Jersey City	239.3	241.6	244.3	(¹)	(¹)	(¹)	6.4	7.0	7.0
Middlesex-Somerset-Hunterdon	493.5	506.8	505.2	.6	.6	.6	23.1	22.9	23.1
Monmouth-Ocean	321.2	331.8	330.9	(¹)	(¹)	(¹)	20.2	21.9	21.8
Newark	943.2	962.9	959.1	.7	.7	.7	37.0	40.3	40.6
Trenton	187.3	193.0	193.0	(¹)	(¹)	(¹)	5.2	5.7	5.7
Vineland-Millville-Bridgeton	55.0	56.0	56.3	.3	.4	.4	2.5	2.8	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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Maryland	210.3	207.7	208.5	90.3	94.1	93.7	504.7	515.4	515.4
Baltimore MSA	134.1	130.9	131.9	53.7	55.5	55.1	261.6	264.9	264.1
Baltimore City	47.2	45.2	45.4	27.4	27.5	27.0	97.2	97.8	98.1
Suburban Maryland-D.C.	34.9	35.4	35.3	23.8	25.9	25.9	184.5	193.0	191.9
Massachusetts	610.3	593.3	599.7	123.4	127.2	126.9	709.3	724.0	723.6
Boston	291.8	285.0	286.2	72.3	74.4	74.2	371.9	388.0	386.6
Brockton	11.3	10.8	10.9	4.9	4.8	4.9	20.9	21.8	21.8
Fall River	17.1	15.2	16.3	1.6	1.9	1.9	14.3	15.1	15.6
Fitchburg-Leominster	12.8	12.5	12.8	1.3	1.3	1.3	9.8	10.1	10.2
Lawrence-Haverhill	52.7	49.9	50.4	6.3	6.5	6.6	35.4	38.1	38.2
Lowell	37.2	36.5	36.7	3.1	2.9	2.9	21.3	21.2	21.3
New Bedford	19.9	19.4	20.1	3.2	3.3	3.4	15.3	15.2	15.2
Pittsfield	12.0	11.3	11.8	1.1	1.0	1.0	11.3	11.5	11.6
Springfield	51.0	52.6	52.3	8.7	8.9	9.0	53.7	56.0	56.5
Worcester	45.6	44.5	45.0	8.0	8.0	7.9	46.6	49.5	49.5
Michigan	989.1	926.2	944.7	148.9	150.5	150.4	829.4	845.9	849.9
Ann Arbor	38.4	37.3	37.4	4.7	4.8	4.9	24.8	27.3	27.4
Battle Creek	15.4	16.0	16.0	1.8	1.8	1.8	10.5	10.7	10.7
Benton Harbor	21.8	21.4	21.3	2.5	2.6	2.6	12.4	12.8	12.9
Detroit	486.5	444.5	453.5	83.1	85.5	84.8	428.5	441.4	441.7
Flint	65.2	54.0	53.7	4.5	4.5	4.5	43.5	43.5	44.4
Grand Rapids	94.0	92.5	94.1	10.8	11.0	10.9	75.0	76.5	77.1
Jackson	12.8	12.5	12.9	4.2	4.2	4.2	10.8	11.1	11.1
Kalamazoo	27.7	27.6	29.0	3.4	3.5	3.5	22.8	23.4	23.5
Lansing-East Lansing	37.4	33.3	36.0	5.4	5.1	5.1	39.3	39.0	39.0
Muskegon	17.9	17.8	17.9	2.7	2.5	2.5	12.4	12.5	12.6
Saginaw-Bay City-Midland	45.0	43.8	45.5	7.2	7.2	7.2	34.8	35.7	35.4
Minnesota	378.2	375.9	381.7	96.9	98.2	98.1	479.5	486.3	491.5
Duluth	7.4	7.3	7.3	5.8	5.4	5.4	22.1	22.1	22.2
Minneapolis-St. Paul	252.9	253.1	254.1	66.6	66.1	66.1	306.8	310.1	312.0
Rochester	11.0	10.7	10.7	1.6	1.6	1.6	11.3	11.6	11.6
St. Cloud	11.6	11.8	11.7	3.6	3.7	3.7	20.0	21.1	21.2
Mississippi	223.1	221.4	225.0	39.7	40.1	40.3	183.8	188.6	188.7
Jackson	20.4	20.4	20.7	11.1	11.3	11.3	41.7	42.6	42.6
Missouri	421.6	414.1	417.5	140.6	142.6	142.6	515.1	512.1	514.6
Kansas City	119.2	109.7	108.6	54.4	54.7	54.7	181.3	182.0	182.7
St. Joseph	9.1	9.2	9.1	2.0	1.9	1.9	8.7	8.6	8.6
St. Louis	218.0	216.9	219.7	74.2	75.2	74.9	263.4	261.7	263.2
Springfield	21.0	19.6	20.3	6.7	6.8	6.6	28.1	28.9	28.8
Montana	22.1	21.8	21.9	20.6	20.2	20.2	75.4	73.2	73.6
Nebraska	86.5	86.3	86.8	43.6	44.6	45.1	170.0	174.2	174.8
Lincoln	13.0	13.3	13.4	6.0	6.0	6.0	24.6	25.0	25.0
Omaha	32.6	32.6	32.8	23.0	24.1	24.5	75.6	78.1	78.4
Nevada	22.6	23.7	23.7	27.2	27.8	27.7	96.3	102.1	102.6
Las Vegas	8.2	8.7	8.7	15.3	15.8	15.8	55.1	58.7	59.0
Reno	8.3	8.5	8.5	8.8	8.9	8.9	29.2	30.4	30.5
New Hampshire	117.3	116.3	118.3	16.7	16.9	16.9	125.4	130.1	131.1
Nashua	35.7	36.2	36.4	2.0	2.1	2.1	19.5	20.5	20.4
Portsmouth-Dover-Rochester,NH-ME	20.2	19.1	19.1	2.8	3.1	3.1	30.5	31.0	31.1
New Jersey	690.2	676.3	679.1	228.9	229.7	230.9	840.4	871.1	867.8
Atlantic City	8.2	8.2	8.4	6.1	6.1	6.2	44.3	45.6	45.6
Bergen-Passaic	162.4	156.7	158.9	28.2	29.0	29.0	183.1	186.2	186.2
Camden	75.6	73.1	72.9	17.2	17.3	17.3	106.5	109.4	109.3
Jersey City	53.0	51.3	52.4	30.4	29.4	29.9	57.2	58.4	58.9
Middlesex-Somerset-Hunterdon	112.0	113.3	114.0	39.5	40.4	40.2	118.5	120.0	119.9
Monmouth-Ocean	30.7	29.8	29.7	15.4	16.0	15.7	91.2	94.6	94.5
Newark	185.0	184.7	185.2	80.1	78.5	79.2	191.6	198.1	196.5
Trenton	31.3	31.5	31.6	5.9	6.2	6.2	30.3	31.2	31.3
Vineland-Millville-Bridgeton	15.4	15.3	15.4	2.2	2.1	2.1	10.9	11.4	11.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Maryland	120.7	122.8	122.6	517.6	530.8	527.9	373.4	374.1	372.3
Baltimore MSA	73.1	75.3	75.1	288.8	273.1	273.3	197.5	199.4	196.1
Baltimore City	45.2	46.2	46.1	132.5	137.5	137.4	85.7	90.2	89.9
Suburban Maryland-D.C.	39.4	40.9	40.7	200.3	207.5	205.7	143.7	146.4	148.6
Massachusetts	210.2	219.7	220.3	820.7	858.3	860.9	373.1	382.1	377.0
Boston	143.5	150.1	150.1	526.5	546.4	547.8	185.1	193.0	188.4
Brockton	3.1	3.3	3.2	14.8	14.8	15.2	11.1	11.6	11.3
Fall River	2.9	3.0	3.0	10.6	10.9	10.9	5.7	5.6	5.5
Fitchburg-Leominster	1.6	1.7	1.7	7.1	7.1	7.2	3.9	4.0	4.0
Lawrence-Haverhill	6.1	6.5	6.8	31.4	32.2	32.5	16.2	17.3	17.0
Lowell	4.1	4.4	4.4	19.1	20.8	20.7	11.8	12.0	11.9
New Bedford	2.6	2.7	2.7	11.9	12.3	12.2	9.0	8.2	8.2
Pittsfield	2.1	2.3	2.3	10.6	11.2	11.3	4.2	4.3	4.2
Springfield	16.2	16.9	17.1	54.7	56.5	56.8	34.3	37.2	35.2
Worcester	12.8	13.5	13.7	43.7	45.9	46.2	21.4	21.8	21.4
Michigan	175.2	184.0	184.2	795.3	805.8	807.5	555.3	569.9	567.3
Ann Arbor	4.5	4.9	5.0	31.8	33.9	33.8	43.3	43.6	43.8
Battle Creek	3.8	3.3	3.2	11.0	11.3	11.3	11.0	11.3	11.3
Benton Harbor	2.4	2.6	2.6	13.8	14.2	14.4	8.3	8.1	8.1
Detroit	101.5	105.2	105.4	454.0	466.9	466.7	219.6	231.1	229.4
Flint	6.1	6.7	6.7	32.4	33.4	33.5	22.3	24.0	23.7
Grand Rapids	13.5	13.6	13.6	80.9	62.0	62.2	28.9	29.5	29.4
Jackson	1.6	1.6	1.6	9.5	9.3	9.3	8.8	9.3	9.3
Kalamazoo	4.5	4.8	4.8	22.8	23.7	23.7	13.5	13.9	13.9
Lansing-East Lansing	11.0	11.6	11.7	34.7	36.8	37.1	57.2	59.2	59.3
Muskegon	1.4	1.4	1.4	11.5	11.8	12.0	8.5	8.6	8.6
Saginaw-Bay City-Midland	6.1	6.2	6.2	30.6	32.6	33.1	20.3	22.3	22.5
Minnesota	117.9	122.4	122.6	452.7	471.9	474.8	283.6	294.1	290.9
Duluth	3.2	3.1	3.1	20.4	20.8	20.7	16.2	17.6	17.0
Minneapolis-St. Paul	91.1	94.5	94.6	307.2	317.4	317.6	154.0	159.9	156.7
Rochester	1.6	1.6	1.6	22.7	23.6	23.6	5.0	5.5	5.3
St. Cloud	2.4	2.5	2.5	12.3	12.3	12.2	10.3	10.2	9.9
Mississippi	37.9	39.1	39.2	130.8	139.9	136.9	176.2	179.2	180.0
Jackson	13.7	14.2	14.3	36.0	37.0	37.2	35.5	36.4	36.6
Missouri	132.2	137.0	137.1	502.3	511.7	515.3	316.3	316.7	310.8
Kansas City	57.1	57.7	57.6	162.7	165.6	166.0	106.5	106.6	105.9
St. Joseph	1.9	1.9	1.9	6.8	6.6	6.5	5.3	5.3	5.2
St. Louis	71.8	73.7	73.7	276.8	285.5	287.1	130.0	128.1	124.6
Springfield	5.2	5.2	5.2	26.1	26.4	26.9	10.8	12.4	11.6
Montana	13.4	13.4	13.3	84.4	64.8	65.0	63.3	63.5	63.8
Nebraska	47.7	49.1	49.0	148.0	147.2	147.3	129.0	133.5	132.9
Lincoln	7.7	8.0	7.9	22.3	23.0	23.4	28.3	28.7	28.0
Omaha	28.9	30.4	30.6	78.3	76.2	75.9	41.2	41.0	40.9
Nevada	23.1	24.3	24.5	212.5	227.6	228.3	58.4	60.4	60.2
Las Vegas	13.7	14.6	14.7	125.3	137.7	137.9	29.0	30.1	29.9
Reno	6.9	7.2	7.2	52.9	54.8	55.1	14.8	15.1	14.9
New Hampshire	29.3	31.3	31.3	113.7	118.9	119.1	58.1	59.3	59.2
Nashua	3.3	3.7	3.8	16.1	16.5	16.4	5.3	5.5	5.4
Portsmouth-Dover-Rochester,NH-ME	5.9	6.5	6.5	20.2	21.6	21.6	22.5	23.1	23.2
New Jersey	213.6	224.8	224.9	853.6	894.6	893.0	525.1	535.2	528.6
Atlantic City	7.1	7.5	7.5	75.5	80.6	80.2	26.5	25.0	25.0
Bergen-Passaic	35.1	38.2	38.0	142.5	148.0	148.6	63.6	64.5	63.1
Camden	22.3	23.7	23.8	95.9	100.1	99.8	69.8	71.5	70.8
Jersey City	9.9	11.0	11.1	41.0	42.8	43.1	41.3	41.7	41.9
Middlesex-Somerset-Hunterdon	33.2	34.3	34.2	98.0	104.4	103.9	68.5	70.9	69.3
Monmouth-Ocean	17.1	18.0	18.1	88.1	91.9	92.0	58.3	59.5	59.0
Newark	74.5	77.4	77.0	240.1	247.5	247.1	133.9	135.7	132.8
Trenton	9.0	9.4	9.4	52.5	54.5	54.4	53.2	54.5	54.4
Vineland-Milville-Bridgeton	2.8	2.9	2.9	9.7	9.9	10.0	11.2	11.2	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	Total			Mining			Construction		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
New Mexico	529.0	535.1	534.4	15.2	15.1	15.2	37.0	35.8	35.9
Albuquerque	228.4	231.8	232.2	.2	.2	.2	17.8	17.1	17.1
Las Cruces	40.0	38.3	38.7	.1	.1	.1	2.7	2.9	2.9
Santa Fe	54.6	56.0	55.7	.1	.1	.1	3.4	3.5	3.5
New York	7,910.7	8,106.8	8,123.8	6.3	6.4	6.4	332.6	359.1	366.8
Albany-Schenectady-Troy	394.5	401.2	404.6	.3	.3	.3	19.5	21.9	22.7
Binghamton	116.3	118.6	118.9	(¹)	(¹)	(¹)	5.6	5.9	6.1
Buffalo	421.3	430.8	432.4	.4	.4	.4	17.4	18.5	19.0
Elmira	35.9	38.8	38.8	(¹)	(¹)	(¹)	1.7	1.8	1.9
Glens Falls	48.1	50.7	50.8	(¹)	(¹)	(¹)	2.2	2.6	2.7
Nassau-Suffolk	1,102.4	1,130.9	1,126.1	.2	.2	.2	59.1	60.3	60.5
New York PMSA	4,051.0	4,112.9	4,119.5	1.4	1.3	1.2	149.4	155.1	157.6
New York City	3,532.7	3,581.2	3,590.8	.8	.7	.8	115.3	118.7	121.1
Niagara Falls	78.2	78.5	79.0	(¹)	(¹)	(¹)	3.3	3.3	3.3
Orange County	97.8	99.2	99.2	(¹)	(¹)	(¹)	4.7	5.4	5.5
Poughkeepsie	115.8	117.7	119.1	(²)	(²)	(²)	6.3	7.2	7.2
Rochester	451.0	456.6	459.1	.8	.8	.8	18.8	18.7	19.4
Rockland County	98.3	98.0	97.9	(²)	(²)	(²)	5.2	5.4	5.5
Syracuse	290.9	293.5	293.5	.3	.3	.3	16.5	16.0	16.6
Utica-Rome	121.2	121.0	121.7	.2	.2	.2	4.6	4.6	4.8
Westchester County	403.9	415.6	412.2	.3	.3	.3	27.6	29.3	29.2
North Carolina	2,710.0	2,792.0	2,803.8	4.8	4.9	4.9	162.6	171.9	172.5
Asheville	77.4	77.2	77.8	.1	.1	.1	4.0	4.0	4.1
Charlotte-Gastonia-Rock Hill	543.3	559.4	564.7	.3	.3	.3	32.3	34.4	34.7
Greensboro-Winston-Salem-High Point	444.6	450.7	451.5	.3	.3	.3	24.9	25.0	25.1
Raleigh-Durham	365.3	375.0	376.4	.3	.4	.4	24.3	25.6	25.6
North Dakota	249.2	251.9	251.1	4.5	4.1	4.2	13.9	12.8	13.3
Bismarck	36.5	38.6	37.0	.2	.2	.2	1.8	1.8	1.9
Fargo-Moorhead	66.3	68.9	68.5	(¹)	(¹)	(¹)	4.0	3.9	4.1
Grand Forks	28.0	28.7	28.2	(¹)	(¹)	(¹)	2.1	2.1	2.1
Ohio	4,488.4	4,576.6	4,596.8	22.3	20.6	20.8	179.1	190.8	195.3
Akron	257.1	282.9	263.4	.7	.7	.6	9.8	11.0	11.2
Canton	152.8	154.8	156.2	1.1	1.0	1.1	6.0	7.2	7.3
Cincinnati	655.3	678.2	684.2	.4	.4	.4	28.4	30.7	31.6
Cleveland	887.6	910.0	908.0	1.2	.9	1.0	28.4	29.0	29.4
Columbus	831.9	653.4	657.7	.9	.9	1.0	26.8	29.8	30.1
Dayton-Springfield	420.6	428.7	431.3	.4	.5	.5	16.9	19.8	20.3
Toledo	271.5	282.3	284.0	.2	.2	.2	10.8	11.5	11.8
Youngstown-Warren	187.8	187.2	189.1	.6	.6	.6	8.0	9.3	9.4
Oklahoma	1,119.4	1,123.2	1,124.4	53.6	53.5	53.9	40.7	40.9	41.4
Enid	22.1	21.5	21.4	1.3	1.2	1.2	.9	.8	.9
Lawton	32.3	32.1	31.7	.2	.2	.2	1.4	1.3	1.3
Oklahoma City	399.7	397.4	397.3	12.4	11.6	11.7	14.5	14.6	15.1
Tulsa	299.4	300.5	300.5	17.4	17.2	17.3	12.4	13.1	12.9
Oregon	1,063.1	1,098.7	1,108.2	1.5	1.5	1.5	37.8	38.7	40.1
Eugene-Springfield	98.2	102.0	102.2	.2	.2	.2	3.4	3.8	3.9
Portland	525.8	550.9	554.7	.6	.6	.6	19.8	20.4	21.1
Salem	95.5	97.1	99.0	.1	.1	.1	3.3	3.0	3.2
Pennsylvania	4,822.5	4,935.2	4,941.1	33.9	31.3	31.0	226.6	244.6	248.0
Allentown-Bethlehem	264.1	270.0	272.1	.5	.6	.6	12.1	13.3	13.4
Altoona	50.7	51.2	51.9	(²)	(²)	(²)	2.9	3.1	3.1
Beaver County	50.6	50.6	50.2	(²)	(²)	(²)	3.7	4.2	4.0
Erie	109.0	109.9	110.5	.3	.3	.3	3.8	3.8	4.2
Harrisburg-Lebanon-Carlisle	287.5	295.7	296.8	.4	.4	.4	11.9	12.5	12.5
Johnstown	77.3	79.1	79.6	3.9	3.8	3.9	3.3	3.7	3.8
Lancaster	173.8	181.2	182.1	.4	.4	.4	9.9	11.2	11.4
Philadelphia PMSA	2,105.2	2,163.1	2,160.2	1.2	1.2	1.2	102.8	109.7	110.5
Philadelphia City	764.9	778.4	780.4	(²)	(²)	(²)	19.9	19.3	19.3
Pittsburgh	848.1	858.2	852.5	6.6	6.9	6.5	45.4	46.5	46.5

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
New Mexico	38.0	39.2	40.0	28.6	27.7	27.9	129.6	131.0	131.3
Albuquerque	19.9	19.7	19.9	12.1	12.2	12.2	59.2	60.6	61.0
Las Cruces	3.9	3.7	3.9	1.2	1.1	1.2	7.8	7.7	7.6
Santa Fe	1.6	1.6	1.6	1.2	1.1	1.1	10.7	11.1	11.3
New York	1,242.6	1,205.3	1,216.2	372.2	402.2	402.0	1,683.0	1,725.4	1,726.1
Albany-Schenectady-Troy	49.8	47.5	47.6	15.2	16.3	16.3	84.7	85.7	86.6
Binghamton	37.4	37.0	37.2	4.0	4.3	4.3	24.6	26.1	26.2
Buffalo	76.1	75.2	75.5	20.2	21.5	21.5	105.2	108.2	108.8
Elmira	6.6	7.8	7.8	1.1	1.2	1.2	10.2	10.7	10.8
Glens Falls	9.9	10.4	10.2	1.5	1.6	1.6	12.2	12.5	12.6
Nassau-Suffolk	180.0	174.3	175.1	40.2	47.2	47.2	300.9	307.9	307.8
New York PMSA	470.8	459.2	465.7	224.2	238.8	238.4	757.3	762.7	761.3
New York City	388.2	372.9	381.0	201.9	213.5	213.1	632.5	636.5	635.3
Niagara Falls	23.8	23.0	23.3	3.5	3.7	3.7	17.9	16.6	18.7
Orange County	15.4	14.8	14.8	5.5	5.5	5.5	26.1	26.7	26.8
Poughkeepsie	32.2	30.6	30.5	2.9	3.4	3.4	21.4	22.2	24.1
Rochester	138.0	134.2	135.5	13.8	14.1	14.2	96.5	98.9	99.4
Rockland County	15.8	15.7	15.7	3.8	4.0	4.0	22.9	23.6	23.6
Syracuse	54.3	52.5	52.5	16.3	16.9	16.8	70.3	71.9	72.7
Utica-Rome	25.1	23.6	23.9	4.3	4.7	4.8	28.5	26.4	26.7
Westchester County	65.1	68.7	67.2	17.9	20.7	20.7	97.5	98.2	98.0
North Carolina	834.2	847.2	853.6	134.5	135.5	135.7	613.2	633.7	636.0
Asheville	20.2	19.6	19.8	3.6	3.7	3.7	17.4	17.5	17.4
Charlotte-Gastonia-Rock Hill	148.6	151.2	152.7	46.5	48.7	49.1	130.5	132.8	133.8
Greensboro-Winston-Salem-High Point	152.8	151.9	152.8	24.7	25.6	25.8	100.0	103.5	103.6
Raleigh-Durham	58.8	57.5	57.3	17.9	18.5	18.5	75.5	77.2	77.7
North Dakota	15.3	16.2	15.6	15.9	16.1	16.3	67.7	67.6	67.9
Bismarck	2.0	2.0	2.0	2.7	2.7	2.7	9.8	9.6	9.9
Fargo-Moorhead	4.9	5.1	5.0	4.2	4.2	4.2	20.4	20.9	20.8
Grand Forks	1.2	1.7	1.2	1.5	1.3	1.3	7.9	8.0	6.1
Ohio	1,107.4	1,078.8	1,091.8	209.9	212.1	212.5	1,079.9	1,107.5	1,113.6
Akron	66.1	64.2	64.4	13.2	13.5	13.5	63.9	66.0	66.0
Canton	44.2	41.7	42.4	5.8	6.1	6.1	38.7	39.9	40.5
Cincinnati	148.7	145.6	149.0	34.6	34.8	34.9	187.3	175.0	176.1
Cleveland	204.1	202.8	203.0	41.6	41.9	41.9	215.8	219.5	219.4
Columbus	106.3	102.3	102.6	27.6	29.0	29.3	157.5	162.1	163.6
Dayton-Springfield	106.5	104.1	104.7	14.9	15.1	15.2	95.3	97.9	98.5
Toledo	64.1	61.7	62.7	14.2	14.6	14.9	67.0	69.7	70.0
Youngstown-Warren	51.5	45.5	47.5	7.9	8.0	8.1	46.7	48.0	48.1
Oklahoma	157.3	158.5	159.6	64.8	62.7	62.6	279.3	274.6	274.8
Enid	1.5	1.7	1.6	2.3	2.1	2.1	6.5	6.3	6.1
Lawton	3.3	3.3	3.3	1.4	1.1	1.0	8.8	8.4	8.5
Oklahoma City	45.8	48.7	48.9	20.0	19.9	20.0	103.1	97.4	97.4
Tulsa	51.2	49.5	49.7	22.8	22.8	22.9	73.3	74.2	74.1
Oregon	205.6	211.1	212.3	57.2	57.9	57.9	273.5	280.8	285.1
Eugene-Springfield	19.0	19.7	20.1	4.0	4.1	4.0	26.1	26.5	26.7
Portland	91.5	94.1	94.9	33.1	34.1	34.2	141.0	147.3	149.1
Salem	18.0	18.8	19.4	2.5	2.5	2.5	21.3	21.8	21.9
Pennsylvania	1,048.7	1,036.3	1,041.7	237.0	239.4	240.0	1,102.9	1,144.2	1,148.9
Allentown-Bethlehem	76.5	75.9	76.9	14.2	14.2	14.3	59.2	60.9	61.4
Altoona	11.4	11.2	11.3	4.8	4.9	4.9	12.5	12.8	13.1
Beaver County	11.2	9.9	9.8	5.0	5.0	5.0	11.3	11.5	11.6
Erie	34.4	34.2	34.4	4.1	4.0	4.0	23.6	23.9	24.1
Harrisburg-Lebanon-Carlisle	51.3	51.8	52.2	18.1	18.0	18.1	84.3	88.0	88.1
Johnstown	13.0	13.0	13.2	4.7	4.5	4.5	16.4	16.7	18.8
Lancaster	59.4	60.3	60.7	6.9	7.4	7.4	42.5	44.9	45.3
Philadelphia PMSA	381.9	378.3	376.8	95.8	97.0	97.3	484.6	504.2	504.1
Philadelphia City	99.1	97.4	97.3	44.8	48.5	46.6	146.8	149.5	149.4
Pittsburgh	127.8	125.9	126.5	43.6	43.0	43.1	215.1	219.6	219.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
New Mexico	26.9	27.3	27.4	120.4	125.2	124.7	133.3	133.8	132.0
Albuquerque	14.4	15.0	15.0	81.4	84.1	64.0	43.4	42.9	42.8
Las Cruces	1.6	1.7	1.7	5.4	8.2	6.2	17.3	14.9	14.9
Santa Fe	2.1	2.2	2.2	14.2	14.7	14.7	21.3	21.7	21.2
New York	768.3	795.7	799.8	2,146.6	2,237.0	2,241.9	1,359.1	1,375.7	1,364.5
Albany-Schenectady-Troy	21.7	22.9	22.9	97.2	99.9	101.5	106.0	106.6	106.6
Binghamton	3.9	3.9	3.9	21.5	22.4	22.4	19.2	19.0	18.8
Buffalo	24.9	25.8	25.8	105.7	109.3	110.0	71.4	72.2	71.5
Elmira	1.2	1.2	1.2	8.8	9.7	9.5	6.3	6.3	6.3
Glens Falls	2.0	2.0	2.0	12.1	13.0	13.1	8.1	8.4	8.3
Nassau-Suffolk	72.9	76.1	78.3	282.3	292.1	290.6	166.7	172.7	168.3
New York PMSA	564.5	579.7	582.4	1,220.4	1,253.1	1,251.5	663.0	663.1	661.4
New York City	533.6	548.0	550.7	1,078.0	1,107.4	1,105.5	584.5	583.8	583.5
Niagara Falls	1.8	1.8	1.8	15.7	15.9	15.9	12.2	12.3	12.2
Orange County	4.2	4.2	4.2	21.5	21.7	21.7	20.5	20.9	20.7
Poughkeepsie	4.3	4.8	4.6	25.5	26.0	26.1	23.1	23.7	23.3
Rochester	21.6	22.0	22.1	103.3	108.7	109.0	58.1	59.1	58.6
Rockland County	4.0	4.2	4.2	24.5	24.7	24.9	20.1	20.3	20.0
Syracuse	19.2	19.4	19.3	66.5	67.5	67.7	47.5	49.0	47.7
Utica-Rome	6.5	6.8	6.9	24.6	25.2	25.2	29.5	29.4	29.3
Westchester County	26.2	26.8	26.8	114.6	116.0	115.7	54.7	55.6	54.2
North Carolina	120.5	129.3	129.3	458.5	482.7	483.2	381.6	388.8	388.6
Asheville	2.8	2.7	2.7	18.4	18.4	18.2	10.6	11.2	11.5
Charlotte-Gastonia-Rock Hill	32.7	35.1	35.1	96.4	101.5	102.0	55.9	55.3	57.0
Greensboro-Winston-Salem-High Point	22.0	22.4	22.4	76.3	78.2	78.1	43.7	43.7	43.5
Raleigh-Durham	22.0	23.7	23.8	84.8	89.9	89.9	81.6	82.1	83.2
North Dakota	12.6	12.7	12.7	59.7	60.5	60.8	59.6	61.9	60.3
Bismarck	1.7	1.6	1.6	10.3	10.2	10.4	8.0	8.3	8.3
Fargo-Moorhead	4.3	4.5	4.5	17.8	18.3	18.3	10.9	12.0	11.6
Grand Forks	1.2	1.2	1.2	6.2	6.3	6.4	7.9	8.1	7.9
Ohio	236.4	246.3	246.8	1,015.5	1,072.8	1,073.7	637.9	647.8	642.5
Akron	10.1	10.8	10.8	56.9	59.5	59.7	36.4	37.3	37.2
Canton	8.6	8.6	6.7	33.6	34.9	34.8	16.7	17.4	17.4
Cincinnati	38.5	40.7	40.8	159.1	169.5	170.3	78.4	81.5	80.9
Cleveland	53.2	55.6	55.9	226.1	239.6	239.8	117.3	120.7	117.7
Columbus	54.6	57.2	57.2	147.9	159.7	160.4	110.3	112.5	113.4
Dayton-Springfield	17.7	18.2	18.3	101.1	106.3	107.0	67.8	68.9	66.9
Toledo	11.2	11.7	11.7	67.7	75.4	75.9	36.3	37.5	36.8
Youngstown-Warren	8.2	8.5	8.5	43.8	45.5	45.4	21.0	21.8	21.5
Oklahoma	63.3	62.7	62.6	228.0	230.0	230.8	234.4	240.3	238.7
Enid	1.2	1.0	1.0	5.0	5.2	5.3	3.4	3.2	3.2
Lawton	1.5	1.5	1.5	5.5	5.7	5.7	10.2	10.6	10.2
Oklahoma City	26.5	26.0	26.1	86.0	86.3	86.0	91.4	92.9	92.1
Tulsa	17.4	17.5	17.8	89.3	71.5	71.4	35.6	34.7	34.4
Oregon	71.5	74.4	74.6	233.5	246.1	247.0	182.5	188.2	187.7
Eugene-Springfield	4.8	4.8	4.9	22.3	23.4	23.5	18.4	19.5	18.9
Portland	44.0	48.3	46.4	127.1	138.5	136.9	68.7	71.6	71.5
Salem	5.4	5.5	5.5	18.0	18.2	18.4	26.9	27.4	28.0
Pennsylvania	284.1	292.8	292.7	1,226.6	1,283.0	1,282.6	662.7	663.6	658.2
Allentown-Bethlehem	10.7	11.2	11.2	61.0	65.5	66.1	27.9	28.4	28.2
Altoona	1.8	1.6	1.6	10.3	10.7	10.9	7.2	6.9	7.0
Beaver County	1.8	1.8	1.8	10.4	10.8	10.8	7.2	7.4	7.2
Erie	5.2	5.2	5.2	25.5	26.4	26.3	12.1	12.1	12.0
Harrisburg-Lebanon-Carlisle	16.2	16.9	16.9	61.5	63.5	63.8	63.8	64.6	64.8
Johnstown	4.9	5.1	5.2	18.4	19.4	19.3	12.7	12.9	12.9
Lancaster	6.8	7.0	7.0	34.8	36.2	36.2	13.5	13.8	13.7
Philadelphia PMSA	155.8	160.0	159.5	588.2	618.2	619.9	295.1	294.5	290.9
Philadelphia City	70.4	72.1	71.6	238.8	246.8	247.2	145.1	147.0	149.0
Pittsburgh	52.4	53.7	53.6	251.9	258.8	257.5	103.3	103.6	99.4

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1988	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Pennsylvania—Continued									
Reading	143.0	145.9	147.4	(²)	(²)	(²)	6.4	6.9	7.1
Scranton—Wilkes-Barre	286.5	286.7	286.9	0.8	0.7	0.7	13.4	13.2	13.0
Sharon	40.1	41.3	41.2	.2	.2	.2	1.5	1.8	1.8
State College	49.7	50.1	51.0	.2	.2	.2	2.4	2.5	2.6
Williamsport	47.7	50.0	50.3	(²)	(²)	(²)	2.0	2.2	2.3
York	164.0	167.7	169.3	.4	.4	.4	9.3	9.8	10.1
Rhode Island	443.5	446.3	450.1	.2	.2	.2	18.4	19.2	19.3
Pawtucket—Woonsocket—Attleboro	131.2	132.5	134.0	.1	.1	.1	4.8	4.9	4.9
Providence	308.7	316.1	318.4	.1	.1	.1	15.3	16.5	16.6
South Carolina	1,342.6	1,377.2	1,386.4	1.6	1.7	1.6	90.4	92.6	93.2
Charleston	181.8	187.9	188.1	(¹)	(¹)	(¹)	13.9	14.9	14.9
Columbia	215.8	213.4	214.0	(¹)	(¹)	(¹)	14.4	15.0	14.8
Greenville—Spartanburg	297.0	299.5	301.9	(¹)	(¹)	(¹)	23.1	22.0	22.0
South Dakota	253.9	255.4	255.0	2.7	2.6	2.6	11.7	11.5	11.5
Rapid City	34.4	34.6	34.5	.3	.3	.3	2.7	2.4	2.4
Sioux Falls	63.6	62.9	63.8	(¹)	(¹)	(¹)	2.7	2.7	2.8
Tennessee	1,937.8	1,999.3	2,001.9	7.7	7.1	6.9	94.7	102.2	103.3
Chattanooga	177.8	180.0	181.7	1.0	1.0	1.0	7.1	7.4	7.4
Johnson City—Kingsport—Bristol	151.9	154.4	154.8	.2	.1	.1	5.4	5.8	6.1
Knoxville	237.5	242.8	243.4	2.1	1.7	1.7	11.8	11.6	11.8
Memphis	407.3	417.7	416.2	.1	.1	.1	19.3	19.8	19.7
Nashville	447.9	453.3	450.8	.9	1.0	1.0	30.5	31.5	30.7
Texas	6,522.6	6,474.0	6,466.5	195.6	192.7	192.1	416.2	373.2	375.3
Abilene	48.9	49.3	49.1	2.3	2.2	2.2	2.5	2.4	2.3
Amarillo	77.5	77.4	77.6	1.4	1.2	1.2	4.4	4.1	4.3
Austin	351.2	348.5	347.3	1.0	.9	.9	23.6	19.4	19.5
Beaumont—Port Arthur	128.6	126.8	126.8	1.5	1.6	1.6	7.3	7.4	7.5
Brazoria	56.5	56.4	56.5	1.4	1.4	1.3	5.7	5.8	5.8
Brownsville—Harlingen	64.9	64.1	64.6	.1	.1	.1	2.8	2.7	2.7
Bryan—College Station	46.4	46.9	46.2	.8	.9	.8	2.2	2.0	2.1
Corpus Christi	128.8	125.9	125.4	6.4	5.6	5.5	9.1	7.4	7.4
Dallas	1,337.4	1,301.5	1,300.2	20.7	19.1	19.0	82.2	63.6	63.0
El Paso	184.0	184.4	185.9	.2	.1	.1	10.2	9.9	9.9
Ft. Worth—Arlington	512.3	515.5	516.9	3.6	3.4	3.4	31.7	30.7	31.2
Galveston—Texas City	71.9	69.9	70.4	.5	.4	.4	3.9	3.4	3.3
Houston	1,387.6	1,374.2	1,369.9	68.3	63.5	63.9	93.6	84.5	84.3
Killeen—Temple	68.3	69.1	69.0	.1	.1	.1	3.8	3.8	3.8
Laredo	35.0	34.9	34.5	1.8	2.2	2.2	1.3	1.4	1.2
Longview—Marshall	65.1	64.0	64.0	3.7	3.6	3.6	3.1	2.9	2.9
Lubbock	90.5	89.0	89.3	.3	.3	.3	4.0	2.9	2.9
McAllen—Edinburg—Mission	85.2	86.6	86.6	1.1	1.0	1.0	4.7	4.4	4.4
Midland	43.9	43.5	43.2	9.4	8.8	8.6	1.7	1.6	1.6
Odessa	42.8	43.4	43.2	6.1	6.4	6.3	2.5	2.4	2.4
San Angelo	36.6	36.1	36.2	.6	.6	.6	2.2	1.9	1.8
San Antonio	490.6	491.7	492.5	2.7	2.6	2.5	36.2	31.9	32.8
Sherman—Denison	37.7	37.7	37.8	.2	.1	.1	1.8	1.8	1.8
Texarkana	45.1	45.0	45.0	.1	.1	.1	2.0	1.6	1.6
Tyler	60.9	60.2	60.0	1.9	2.0	2.0	3.0	2.7	2.7
Victoria	28.6	28.0	27.9	2.0	1.8	1.9	2.0	2.0	1.9
Waco	76.3	76.6	76.2	.2	.1	.1	4.2	3.9	4.0
Wichita Falls	50.1	50.0	50.0	2.1	2.0	2.0	2.2	2.0	2.0
Utah	631.4	637.9	640.8	6.9	7.9	7.9	35.1	29.8	30.0
Provo—Orem	69.9	71.9	72.4	(¹)	(¹)	(¹)	3.2	2.8	3.0
Salt Lake City—Ogden	444.7	448.4	449.6	1.5	2.6	2.6	25.2	21.3	21.4
Vermont	235.3	239.0	238.7	.6	.5	.5	17.0	16.3	16.5
Barre—Montpelier	31.7	32.7	33.2	.2	.2	.2	2.4	2.4	2.4
Burlington	70.8	73.9	74.6	(¹)	(¹)	(¹)	4.4	4.5	4.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1988	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Pennsylvania-Continued									
Reading	48.2	47.5	48.5	8.3	6.3	6.4	31.5	32.1	32.4
Scranton-Wilkes-Barre	72.9	70.7	71.2	14.8	15.0	15.2	63.8	64.0	64.4
Sharon	9.4	9.6	9.3	1.8	1.7	1.8	10.9	11.5	11.4
State College	7.3	7.1	7.3	1.1	1.2	1.2	9.3	9.4	9.5
Williamsport	15.4	16.5	16.7	1.8	1.8	1.8	10.9	11.3	11.5
York	57.7	57.6	58.3	8.7	6.9	6.9	39.2	39.9	40.1
Rhode Island									
Pawtucket-Woonsocket-Attleboro	119.1	116.7	120.4	15.2	15.2	15.3	101.0	101.6	102.0
Providence	55.2	54.7	56.1	3.7	3.7	3.9	31.0	31.5	31.4
Providence	74.0	73.1	75.2	11.1	11.8	11.9	68.3	70.8	71.1
South Carolina									
Charleston	365.6	366.4	370.0	56.3	58.2	58.3	300.5	313.3	318.3
Columbia	20.1	20.9	21.1	9.2	9.3	9.1	45.7	47.4	47.9
Columbia	28.3	29.3	29.6	10.1	10.4	10.4	47.9	46.3	46.8
Greenville-Spartanburg	99.2	98.5	98.9	10.7	11.2	11.3	68.0	69.9	70.5
South Dakota									
Rapid City	29.4	28.6	29.0	12.5	12.4	12.4	67.9	68.2	68.6
Rapid City	3.2	3.2	3.2	1.7	1.7	1.8	10.6	11.0	10.9
Sioux Falls	8.8	7.9	8.4	4.7	4.7	4.7	16.8	16.8	16.8
Tennessee									
Chattanooga	494.0	494.3	497.7	98.1	100.2	99.7	456.6	481.9	482.1
Johnson City-Kingsport-Bristol	43.9	42.8	43.5	8.8	8.6	8.5	41.8	42.7	43.3
Knoxville	51.9	52.1	52.0	6.3	6.3	6.3	34.2	35.1	34.7
Knoxville	50.5	50.7	50.9	9.2	9.5	9.8	61.1	60.5	60.2
Memphis	52.7	53.1	53.2	35.9	37.7	37.7	113.4	117.2	116.5
Nashville	89.1	87.8	88.1	21.9	22.0	21.6	109.5	111.0	110.3
Texas									
Abilene	956.5	956.4	961.9	375.1	380.9	381.9	1,686.7	1,661.2	1,663.8
Amarillo	4.8	4.7	4.8	2.5	2.5	2.4	13.8	14.2	14.2
Amarillo	9.8	9.8	9.8	6.2	5.7	5.7	23.1	23.2	23.4
Austin	40.6	39.4	39.7	11.2	11.2	11.2	81.3	79.9	79.5
Beaumont-Port Arthur	25.2	24.0	23.9	10.1	9.5	9.5	32.4	31.6	31.6
Brazoria	15.7	15.0	14.9	2.3	2.3	2.2	11.5	11.0	11.2
Brownsville-Harlingen	9.7	9.7	9.9	3.3	3.1	3.2	17.9	17.4	17.5
Bryan-College Station	3.2	3.0	3.0	1.7	1.6	1.6	11.2	10.8	10.8
Corpus Christi	12.0	11.6	11.6	7.3	7.0	7.1	34.5	34.2	34.2
Dallas	228.1	222.8	222.9	87.3	87.3	87.3	359.4	350.5	351.2
El Paso	36.6	35.5	36.8	9.9	10.1	10.0	45.5	45.6	45.9
Ft. Worth-Arlington	113.8	113.7	115.2	26.7	27.9	28.2	137.6	134.1	133.9
Galveston-Texas City	9.4	9.1	8.9	4.7	4.4	4.4	14.6	14.5	14.4
Houston	150.4	149.6	150.4	93.8	91.6	90.7	359.1	349.1	348.7
Killeen-Temple	8.9	8.8	8.8	2.9	2.6	2.6	16.4	16.4	16.5
Laredo	1.9	1.9	2.0	3.9	4.1	4.0	10.6	9.7	9.8
Longview-Marshall	15.2	14.9	15.0	3.1	3.1	3.1	17.6	17.1	17.1
Lubbock	7.7	7.2	7.2	4.6	4.5	4.4	27.8	27.5	27.7
McAllen-Edinburg-Mission	11.5	12.5	12.4	2.8	2.9	2.9	25.2	25.7	25.7
Midland	3.1	2.9	2.9	2.2	2.1	2.1	10.5	10.8	10.8
Odessa	3.8	3.7	3.7	2.1	2.1	2.1	13.1	13.3	13.2
San Angelo	5.7	5.8	6.0	3.3	3.0	3.0	9.4	9.2	9.3
San Antonio	48.6	46.0	46.2	18.6	18.2	18.2	129.8	131.9	132.8
Sherman-Denison	11.4	11.3	11.3	2.1	2.1	2.1	8.7	8.8	8.8
Texarkana	7.3	7.2	7.2	1.8	1.7	1.7	11.3	11.2	11.3
Tyler	11.1	10.9	10.9	2.7	2.7	2.7	16.6	16.3	16.2
Victoria	3.1	2.9	3.0	1.5	1.5	1.5	8.2	8.0	7.9
Waco	15.2	14.8	15.0	3.5	3.4	3.3	18.7	19.3	19.2
Wichita Falls	8.3	8.2	8.3	2.7	2.6	2.6	12.2	12.5	12.5
Utah									
Provo-Orem	91.7	94.1	94.6	37.7	37.9	37.6	154.7	156.3	157.8
Salt Lake City-Ogden	10.2	10.1	10.1	2.5	2.8	2.8	15.5	15.9	16.0
Salt Lake City-Ogden	62.0	62.0	62.3	29.2	29.0	28.8	113.6	115.1	116.2
Vermont									
Barre-Montpelier	50.2	48.7	49.6	9.8	10.5	10.4	53.1	56.4	56.2
Burlington	4.4	4.3	4.4	.8	.8	.8	6.7	6.9	7.1
Burlington	16.8	16.7	16.9	3.1	3.1	3.1	16.0	16.5	16.8

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		
	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a
Pennsylvania—Continued									
Reading	7.4	8.0	7.9	28.6	29.7	30.0	14.6	15.4	15.1
Scranton-Wilkes-Barre	12.4	13.0	13.0	69.1	70.4	70.2	39.7	39.7	39.2
Sharon	1.4	1.3	1.3	10.1	10.5	10.6	4.8	4.7	4.8
State College	1.7	1.7	1.7	9.1	9.6	9.7	18.6	18.4	18.8
Williamsport	2.2	2.3	2.3	9.3	9.7	9.7	6.1	6.2	6.0
York	4.9	5.3	5.3	28.8	31.3	31.7	17.0	16.5	16.5
Rhode Island									
Pawtucket-Woonsocket-Attleboro	3.7	4.0	4.0	23.4	24.3	24.3	9.3	9.3	9.3
Providence	21.2	21.8	21.8	78.9	80.1	80.0	41.8	41.9	41.7
South Carolina									
Charleston	8.3	8.7	8.7	35.9	38.1	38.1	48.6	48.5	48.2
Columbia	17.7	18.0	18.1	39.1	39.4	39.4	57.9	54.6	54.5
Greenville-Spartanburg	11.5	11.7	11.7	48.6	50.1	50.5	35.6	35.8	36.7
South Dakota									
Rapid City	1.7	1.7	1.7	8.5	8.4	8.4	5.6	5.9	5.8
Sioux Falls	6.1	5.9	5.9	17.6	18.2	18.2	6.8	6.7	7.0
Tennessee									
Chattanooga	11.3	12.2	12.2	34.1	35.0	35.1	29.8	30.3	30.7
Johnson City-Kingsport-Bristol	4.9	5.0	5.0	26.3	26.8	27.0	22.7	23.2	23.6
Knoxville	8.5	8.8	8.8	48.8	51.6	51.6	45.6	48.4	48.6
Memphis	23.3	23.6	23.6	96.2	100.8	99.9	66.4	65.4	65.5
Nashville	31.0	30.6	30.8	104.1	105.5	106.2	80.8	63.9	62.3
Texas									
Abilene	2.6	2.6	2.6	12.8	12.8	12.8	7.6	7.9	7.8
Amarillo	4.4	4.4	4.3	16.1	16.8	16.6	12.1	12.2	12.3
Austin	25.8	25.3	25.2	83.4	84.1	83.9	84.3	88.3	87.4
Beaumont-Port Arthur	5.7	5.5	5.5	28.0	28.4	28.5	18.4	18.8	18.7
Brazoria	2.1	2.2	2.2	7.6	7.9	8.0	10.2	10.8	10.9
Brownsville-Harlingen	3.4	3.4	3.3	13.8	14.3	14.4	13.9	13.4	13.5
Bryan-College Station	1.8	1.7	1.7	8.0	8.1	8.0	17.5	18.8	18.2
Corpus Christi	7.0	6.8	6.8	26.3	27.0	26.7	26.2	26.3	26.1
Dallas	134.8	130.8	130.1	288.6	288.1	288.0	136.3	139.3	138.7
El Paso	9.8	10.2	10.2	35.1	36.4	36.5	36.7	36.6	36.5
Ft. Worth-Arlington	28.9	29.3	29.3	111.6	115.4	115.2	58.4	61.0	60.5
Galveston-Texas City	4.6	4.4	4.4	13.6	14.0	14.0	20.8	19.7	20.6
Houston	104.7	99.5	98.6	339.3	355.3	353.5	178.4	181.1	179.8
Killeen-Temple	3.2	2.9	3.0	13.7	14.6	14.4	19.3	19.9	19.8
Laredo	1.6	1.6	1.6	6.0	6.0	6.0	7.9	8.0	7.7
Longview-Marshall	3.3	3.0	2.9	11.2	11.3	11.3	7.9	8.1	8.1
Lubbock	5.6	5.5	5.5	20.5	20.8	21.0	20.0	20.3	20.3
McAllen-Edinburg-Mission	3.9	3.8	3.8	13.8	13.6	13.7	22.2	22.7	22.7
Midland	2.9	2.7	2.7	8.8	8.8	8.8	5.3	5.8	5.7
Odessa	1.7	1.6	1.6	7.1	7.2	7.3	6.4	6.7	6.6
San Angelo	1.7	1.8	1.8	7.8	7.7	7.7	5.9	6.1	6.0
San Antonio	38.6	39.6	39.5	114.4	118.2	117.9	101.7	103.3	102.6
Sherman-Denison	1.6	1.5	1.4	7.1	7.3	7.5	4.8	4.8	4.8
Texarkana	1.9	1.8	1.9	8.8	9.2	9.1	11.9	12.2	12.1
Tyler	3.8	3.6	3.6	13.5	13.6	13.6	8.3	8.4	8.3
Victoria	1.8	1.5	1.5	8.0	5.9	5.9	4.2	4.4	4.3
Waco	4.9	4.8	4.8	18.7	18.8	18.7	10.9	11.5	11.1
Wichita Falls	2.5	2.4	2.4	11.1	11.1	11.1	9.0	9.2	9.1
Utah									
Provo-Orem	2.3	2.4	2.4	23.4	24.9	24.8	12.8	13.0	13.2
Salt Lake City-Ogden	27.6	28.2	28.1	98.0	100.0	100.4	89.6	90.2	89.8
Vermont									
Barre-Montpelier	2.9	3.0	3.0	6.9	7.5	7.7	7.4	7.6	7.6
Burlington	3.3	3.6	3.6	18.2	19.3	19.4	9.0	10.1	10.2

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Virginia	2,568.5	2,638.8	2,634.5	16.5	15.6	15.6	179.3	183.2	182.9
Bristol	29.5	30.9	31.0	.1	.1	.1	1.0	.8	.8
Charlottesville	60.8	61.5	61.0	.1	.1	.1	3.6	4.0	3.9
Danville	37.9	38.6	38.5	.1	.1	.1	1.4	1.3	1.4
Lynchburg	69.0	69.5	69.7	.1	.1	.1	3.3	3.4	3.4
Norfolk-Virginia Beach-Newport News	536.0	549.0	551.1	.1	.1	.1	38.6	38.2	38.2
Northern Virginia	859.9	687.9	684.7	.5	.4	.4	49.8	50.8	50.9
Richmond-Petersburg	413.2	430.3	429.3	.4	.4	.4	26.0	27.5	27.3
Roanoke	117.9	122.8	122.1	.2	.1	.2	7.2	7.6	7.6
Washington	1,782.4	1,836.8	1,847.1	3.1	3.0	3.0	93.4	95.3	97.9
Seattle	894.2	927.9	930.7	.7	.7	.7	46.9	46.8	48.3
West Virginia	598.0	604.1	599.9	38.9	36.4	36.7	25.5	26.7	27.3
Charleston	108.2	108.8	108.1	2.2	2.3	2.3	5.1	5.2	5.3
Huntington-Ashland	100.9	101.7	101.7	1.1	1.0	1.0	3.9	4.2	4.2
Parkersburg-Marietta	59.0	59.6	59.7	.8	.7	.7	3.1	3.1	3.2
Wheeling	57.0	58.2	57.8	2.4	2.6	2.4	1.8	1.9	2.0
Wisconsin	2,032.7	2,067.3	2,067.9	2.4	2.5	2.5	70.1	69.9	70.8
Appleton-Oshkosh-Neenah	139.9	145.1	146.3	(¹)	(¹)	(¹)	6.0	6.8	6.6
Eau Claire	52.4	54.6	54.1	(¹)	(¹)	(¹)	1.8	1.5	1.3
Green Bay	92.1	92.7	93.8	(¹)	(¹)	(¹)	3.2	2.8	2.7
Janesville-Beloit	49.8	53.3	46.9	(¹)	(¹)	(¹)	1.3	1.2	1.3
Kenosha	36.9	39.8	37.4	(¹)	(¹)	(¹)	.9	1.0	1.0
La Crosse	47.2	48.9	49.2	(¹)	(¹)	(¹)	1.2	1.2	1.3
Madison	189.8	194.8	195.7	(¹)	(¹)	(¹)	6.3	6.1	6.3
Milwaukee	675.4	687.4	692.1	(¹)	(¹)	(¹)	21.1	20.8	21.1
Racine	68.6	68.8	68.4	(¹)	(¹)	(¹)	2.3	2.6	2.6
Sheboygan	45.1	46.6	47.2	(¹)	(¹)	(¹)	1.3	1.1	1.2
Wausau	45.8	46.8	47.3	(¹)	(¹)	(¹)	1.6	1.5	1.6
Wyoming	202.2	196.7	196.9	18.7	18.4	18.8	18.1	15.8	15.8
Puerto Rico	703.7	758.2	732.7	.7	.8	.8	30.9	34.2	33.9
Caguas	42.1	46.2	45.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	50.6	53.5	51.2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	44.1	48.0	46.2	.1	.1	.1	2.8	3.6	3.8
San Juan	437.4	465.9	451.2	.4	.5	.5	24.6	25.9	25.7
Virgin Islands	37.8	38.7	38.1	(¹)	(¹)	(¹)	2.5	1.7	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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Virginia	425.3	424.7	428.5	140.0	142.5	142.8	586.7	810.7	811.3
Bristol	9.3	9.7	9.8	1.1	1.2	1.2	6.2	6.6	6.7
Charlottesville	6.7	6.6	6.6	2.1	2.3	2.3	12.2	12.2	12.2
Danville	16.1	16.6	16.7	1.0	1.0	1.0	6.1	6.2	6.3
Lynchburg	23.6	24.0	24.2	2.9	2.9	2.9	12.8	13.3	13.4
Norfolk-Virginia Beach-Newport News	69.8	66.5	66.9	26.0	26.2	26.1	131.9	139.7	141.2
Northern Virginia	34.6	34.4	34.5	46.7	49.5	49.5	153.0	159.1	158.6
Richmond-Petersburg	62.8	63.1	63.3	22.6	22.7	22.9	100.8	102.6	102.1
Roanoke	20.5	20.6	20.5	9.1	6.9	8.9	31.6	34.8	34.3
Washington	309.1	316.6	321.1	97.6	100.5	101.2	442.8	464.6	467.3
Seattle	173.8	163.2	164.6	58.5	59.3	59.5	223.3	233.9	234.2
West Virginia	66.4	66.1	66.9	37.2	36.1	36.3	139.6	140.8	141.6
Charleston	12.5	11.6	11.6	8.3	8.4	8.4	26.5	26.7	26.8
Huntington-Ashland	19.5	19.3	19.3	7.6	7.3	7.3	25.9	26.1	26.2
Parkersburg-Marietta	14.4	14.6	14.6	2.0	2.0	2.0	14.4	14.4	14.5
Wheeling	6.9	7.0	7.2	3.0	3.1	3.1	15.5	16.1	16.1
Wisconsin	525.3	531.9	525.0	90.7	91.2	90.9	490.5	500.8	505.6
Appleton-Oshkosh-Neenah	49.0	51.3	51.4	5.2	5.3	5.5	30.7	30.3	31.3
Eau Claire	10.4	10.3	10.3	2.8	3.0	3.0	15.0	16.5	16.4
Green Bay	26.1	25.1	25.8	6.5	6.7	6.7	23.9	24.4	24.6
Janesville-Beloit	14.4	17.1	12.4	1.7	1.7	1.7	13.7	13.9	14.1
Kenosha	10.9	13.2	10.6	1.3	1.4	1.4	8.7	8.6	6.9
La Crosse	10.4	10.3	10.3	2.3	2.3	2.3	13.3	14.4	14.6
Madison	22.0	22.6	22.7	6.4	6.5	6.7	41.7	43.4	43.6
Milwaukee	167.0	165.8	165.4	33.9	34.2	34.2	158.6	164.9	166.4
Racine	24.4	23.4	23.1	2.3	2.3	2.3	16.2	16.7	16.7
Sheboygan	19.1	20.0	20.4	1.3	1.4	1.4	6.7	9.1	9.2
Wausau	12.5	13.6	13.7	2.6	2.8	2.8	11.5	11.6	12.0
Wyoming	8.1	8.1	8.4	14.4	14.0	14.0	47.4	46.0	46.0
Puerto Rico	146.5	151.6	152.5	16.2	14.7	14.7	122.8	127.5	127.8
Caguas	14.5	16.4	16.3	(¹)	(¹)	(¹)	8.0	8.2	8.5
Mayaguez	20.0	19.8	19.3	(¹)	(¹)	(¹)	6.8	7.0	6.9
Ponce	8.5	8.4	8.4	(¹)	(¹)	(¹)	7.1	7.7	7.5
San Juan	64.1	64.7	65.0	12.0	10.8	10.7	84.6	88.5	89.1
Virgin Islands	1.7	1.9	1.9	2.3	2.5	2.5	8.2	8.6	8.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Virginia	135.4	140.8	140.7	592.0	611.8	611.0	493.4	509.5	503.7
Bristol .....	.9	.9	.9	4.3	4.5	4.5	4.6	5.1	5.0
Charlottesville	3.1	3.2	3.2	11.3	11.4	11.2	19.7	19.8	19.5
Danville	1.2	1.1	1.1	5.8	5.5	5.5	4.4	4.5	4.5
Lynchburg	3.3	3.4	3.3	13.6	13.4	13.4	9.1	9.1	8.9
Norfolk-Virginia Beach-Newport News	25.3	25.9	25.9	124.7	131.2	131.6	119.8	121.2	121.1
Northern Virginia	41.4	44.4	44.6	202.3	208.9	209.3	131.5	140.4	136.6
Richmond-Petersburg	33.4	35.1	35.0	84.7	90.7	90.5	82.5	88.2	87.8
Roanoke	8.1	8.4	8.4	27.1	27.1	27.1	14.2	15.3	15.1
Washington	107.0	108.6	108.5	397.7	411.8	414.2	331.9	336.2	333.9
Seattle	67.5	67.8	67.7	200.8	211.8	213.2	122.7	124.4	122.5
West Virginia	24.2	24.7	24.5	121.3	125.8	128.6	122.7	127.5	119.8
Charleston	6.1	6.0	6.0	25.0	25.0	25.0	20.5	21.6	20.7
Huntington-Ashland	4.3	4.4	4.4	20.1	20.6	20.6	18.5	18.8	18.7
Parkersburg-Marietta	2.2	2.2	2.2	12.8	13.1	13.2	9.3	9.5	9.1
Wheeling	2.7	2.6	2.6	15.4	15.8	15.4	9.3	9.3	9.0
Wisconsin	109.9	113.3	113.5	442.4	454.8	457.3	301.3	302.8	302.3
Appleton-Oshkosh-Neenah	7.1	7.3	7.4	26.4	28.4	28.7	15.6	15.5	15.4
Eau Claire	1.9	1.9	1.9	11.8	12.7	12.6	8.7	8.6	8.5
Green Bay	3.2	3.4	3.4	19.5	20.3	20.6	9.7	9.9	10.0
Janesville-Beloit	1.7	1.7	1.7	10.9	11.5	11.6	6.1	6.1	6.1
Kenosha	1.1	1.2	1.2	8.2	8.3	8.3	5.7	6.0	6.0
La Crosse	1.5	1.5	1.5	12.8	13.5	13.5	5.7	5.7	5.6
Madison	17.3	17.9	18.0	39.8	41.2	41.2	55.9	56.7	56.9
Milwaukee	47.1	46.7	48.7	171.7	177.9	179.0	75.5	74.6	76.9
Racine	2.2	2.2	2.2	13.3	13.5	13.6	7.8	8.2	7.9
Sheboygan	2.1	2.1	2.1	7.6	7.8	8.0	5.1	5.1	5.0
Wausau	3.4	3.4	3.4	8.4	8.2	8.5	5.5	5.2	5.3
Wyoming	8.2	7.9	7.9	37.6	36.8	36.8	49.6	49.7	49.2
Puerto Rico	32.6	34.2	33.9	97.0	99.3	103.1	257.0	296.0	265.8
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	14.3	16.1	14.6
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.9	18.0	16.3
Ponce	(¹)	(¹)	(¹)	7.8	7.8	7.9	14.8	17.5	15.4
San Juan	26.4	27.8	27.6	71.1	70.9	73.8	154.0	176.8	158.7
Virgin Islands	1.6	1.6	1.6	7.2	8.5	8.5	14.3	13.9	13.5

¹ Not available.
² Combined with construction.
^P = 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. The corrected value for transportation and public utilities in Baltimore City, Maryland is 27.0 for June 1987.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, 1964 to date

Year and month	Total private ¹			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									
1986:									
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
1987:									
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	34.8	8.93	310.76	42.4	12.42	526.61	38.5	12.60	485.10
June	35.0	8.92	312.20	42.4	12.44	527.46	38.1	12.61	480.44
July	35.1	8.91	312.74	42.1	12.31	518.25	38.6	12.57	485.20
August ^p	35.3	8.94	315.58	42.6	12.35	526.11	38.6	12.67	489.06
September ^p	34.7	9.06	314.38	41.7	12.48	520.42	36.3	12.80	464.64

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers' 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
Annual averages										
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
Monthly data, not seasonally adjusted										
1986:										
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
1987:										
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	40.9	9.87	9.45	403.68	39.0	11.95	466.05	38.3	9.57	366.53
June	41.1	9.87	9.44	405.66	39.1	11.91	465.68	38.4	9.57	367.49
July	40.6	9.87	9.46	400.72	39.4	12.00	472.80	38.3	9.57	366.53
August ^a	40.9	9.86	9.41	403.27	39.5	12.01	474.40	38.4	9.61	369.02
September ^b	40.6	10.02	9.56	406.81	39.3	12.10	475.53	38.1	9.64	367.28

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, 1964 to date—Continued

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986	29.2	6.03	176.08	36.4	8.35	303.94	32.5	8.16	265.20
Monthly data, not seasonally adjusted									
1986:									
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
1987:									
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	29.3	6.09	178.44	36.3	8.72	316.54	32.4	8.38	271.51
June	29.6	6.08	179.97	36.4	8.68	315.95	32.6	8.35	272.21
July	30.0	6.07	182.10	36.2	8.69	314.58	32.8	8.33	273.22
August ^p	30.2	6.06	183.01	36.5	8.79	320.84	33.0	8.39	276.87
September ^p	29.6	6.20	183.52	36.0	8.80	316.80	32.4	8.51	275.72

¹ 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.

^p = 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 workers¹ on private nonagricultural payrolls by detailed industry

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Total private		35.1	34.8	35.1	35.3	34.7					
Mining		42.3	42.1	42.1	42.6	41.7					
Metal mining	10	40.9	41.7	42.0	42.1						
Iron ores	101	40.4	41.6	40.1	41.4						
Copper ores	102	41.6	41.9	43.5	42.9						
Coal mining	11,12	40.0	40.3		41.8						
Bituminous coal and lignite mining	12	40.0	40.3		41.9						
Oil and gas extraction	13	42.5	41.8	42.4	41.9						
Crude petroleum, natural gas, and natural gas liquids	131,2	43.4	41.8	42.7	40.5						
Oil and gas field services	138	41.9	41.8	42.2	42.6						
Nonmetallic minerals, except fuels	14	45.7	46.1	46.3	46.2						
Crushed and broken stone	142	47.6	48.4	48.5	47.9						
Construction		38.3	38.5	38.6	38.6	36.3					
General building contractors	15	37.6	37.6	37.9	37.9						
Residential building construction	152	36.9	36.8	37.4	37.2						
Operative builders	153	38.7	39.3	38.7	38.7						
Nonresidential building construction	154	38.3	38.4	38.4	38.5						
Heavy construction contractors	16	42.5	43.0	42.7	42.9						
Highway and street construction	161	43.6	44.4	44.7	44.3						
Heavy construction, except highway	162	41.8	42.1	41.4	42.0						
Special trade contractors	17	37.4	37.5	37.6	37.6						
Plumbing, heating, and air conditioning	171	38.5	38.5	38.7	38.7						
Painting, paper hanging, and decorating	172	35.6	35.9	36.3	36.4						
Electrical work	173	39.1	39.2	39.3	39.0						
Masonry, stonework, and plastering	174	35.4	35.4	35.6	35.7						
Carpentering and flooring	175	35.0	34.8	35.7	35.5						
Roofing and sheet metal work	176	35.4	34.9	35.2	35.7						
Manufacturing		40.7	41.0	40.6	40.9	40.6	3.5	3.7	3.6	3.9	3.9
Durable goods		41.1	41.6	41.0	41.3	41.0	3.5	3.8	3.6	3.9	3.8
Lumber and wood products	24	40.6	40.8	40.4	40.7	39.8	3.9	3.9	3.9	4.1	
Logging camps and logging contractors	241	39.8	40.3	39.0	38.9	-	4.1	3.8	4.1	4.7	
Sawmills and planing mills	242	41.4	41.7	41.2	41.9		4.5	4.5	4.5	4.9	
Sawmills and planing mills, general	2421	41.5	41.9	41.3	42.0		4.8	4.8	4.8	5.1	
Hardwood dimension and flooring	2426	41.4	41.2	41.2	41.5		3.5	3.5	3.7	3.9	
Millwork, plywood, and structural members	243	40.8	41.0	40.5	41.0		3.9	3.8	3.7	3.9	
Millwork	2431	41.3	41.7	41.0	41.5		3.7	3.7	3.6	3.6	
Wood kitchen cabinets	2434	40.3	40.2	40.0	39.7		3.5	3.1	3.3	3.3	
Hardwood veneer and plywood	2435	40.1	40.7	39.7	41.1		3.7	3.6	4.0	3.9	
Softwood veneer and plywood	2436	41.4	41.6	40.2	42.0		4.9	4.9	4.4	5.0	
Wood containers	244	38.6	38.6	38.8	38.7		2.4	2.8	3.0	3.1	
Wood buildings and mobile homes	245	39.9	39.5	40.3	39.9		3.2	3.2	3.4	3.3	
Mobile homes	2451	40.2	39.5	40.1	39.7		2.9	3.1	3.0	2.8	
Miscellaneous wood products	249	40.1	40.3	39.9	40.4		3.2	3.5	3.0	3.4	
Furniture and fixtures	25	40.1	40.5	39.2	40.3	39.8	2.8	3.1	2.6	3.2	
Household furniture	251	39.5	40.0	38.9	39.9	-	2.4	2.7	2.3	2.8	
Wood household furniture	2511	39.9	40.0	39.2	40.1		2.5	2.7	2.2	2.6	
Upholstered household furniture	2512	38.6	39.5	37.8	39.0		1.8	2.3	1.8	2.3	
Metal household furniture	2514	40.2	40.4	40.4	40.4		3.2	3.2	3.1	3.3	
Mattresses and bedsprings	2515	40.2	40.9	39.1	40.8		2.9	3.6	3.5	4.3	
Office furniture	252	41.1	41.2	38.8	41.6		3.3	3.2	2.5	3.8	
Public building and related furniture	253	40.2	40.9	41.1	40.4		3.4	3.8	3.6	3.5	
Partitions and fixtures	254	41.6	42.1	40.1	41.1		4.0	4.6	3.5	4.4	
Miscellaneous furniture and fixtures	259	40.7	41.0	39.5	40.8		2.6	3.2	2.5	3.4	
Stone, clay, and glass products	32	42.8	43.0	42.5	42.6	42.4	5.3	5.4	5.3	5.4	
Flat glass	321	44.7	45.1	44.3	45.4	-	6.0	6.2	5.1	6.2	
Glass and glassware, pressed or blown	322	41.5	41.6	41.1	41.6		4.9	4.8	5.1	5.0	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Total private		\$8.70	\$8.82	\$8.91	\$8.94	\$9.06	\$305.37	\$306.94	\$312.74	\$315.58	\$314.38
Mining		12.51	12.52	12.31	12.35	12.48	529.17	527.09	518.25	526.11	520.42
Metal mining		12.96	13.04	13.06	13.06		530.06	543.77	548.52	549.83	
Iron ores	101	13.85	14.47	15.05	14.76		559.54	601.95	603.51	611.06	
Copper ores	102	11.48	11.49	11.35	11.40		477.57	481.43	493.73	489.06	
Coal mining	11,12	15.45	15.42		15.69		618.00	621.43	606.04	655.84	
Bituminous coal and lignite mining	12	15.51	15.49		15.74		620.40	624.25	609.94	659.51	
Oil and gas extraction	13	11.74	11.69	11.39	11.29		498.95	488.64	482.94	473.05	
Crude petroleum, natural gas, and natural gas liquids	131,2	13.65	13.82	14.04	13.99		592.41	577.68	599.51	566.60	
Oil and gas field services	138	10.44	10.32	9.90	9.90		437.44	431.38	417.78	421.74	
Nonmetallic minerals, except fuels	14	10.44	10.50	10.63	10.74		477.11	484.05	492.17	496.19	
Crushed and broken stone	142	9.98	9.98	10.08	10.29		475.05	483.03	488.88	492.89	
Construction		12.44	12.59	12.57	12.67	12.80	476.45	484.72	485.20	489.06	464.64
General building contractors	15	11.40	11.53	11.67	11.85		428.64	433.53	442.29	449.12	
Residential building construction	152	10.77	10.86	10.93	11.20		397.41	399.65	408.78	416.64	
Operative builders	153	9.65	9.79	10.17	10.51		373.46	384.75	393.58	406.74	
Nonresidential building construction	154	12.17	12.33	12.56	12.61		466.11	473.47	482.30	485.49	
Heavy construction contractors	16	12.07	12.15	12.05	12.04		512.98	522.45	514.54	516.52	
Highway and street construction	161	12.16	12.15	12.14	12.18		530.18	539.46	542.66	539.57	
Heavy construction, except highway	162	12.01	12.14	11.98	11.93		502.02	511.09	495.97	501.06	
Special trade contractors	17	13.01	13.18	13.10	13.20		486.57	494.25	492.56	496.32	
Plumbing, heating, and air conditioning	171	13.10	13.37	13.32	13.40		504.35	514.75	515.48	518.58	
Painting, paper hanging, and decorating	172	12.33	12.54	12.39	12.48		438.95	450.19	449.76	454.27	
Electrical work	173	14.37	14.68	14.67	14.68		561.87	575.46	576.53	572.52	
Masonry, stonework, and plastering	174	13.25	13.36	13.37	13.45		469.05	472.94	475.97	480.17	
Carpentering and flooring	175	12.55	12.63	12.50	12.60		439.25	439.52	446.25	447.30	
Roofing and sheet metal work	176	11.65	11.50	11.50	11.65		412.41	401.35	404.80	415.91	
Manufacturing		9.68	9.73	9.87	9.86	10.02	393.98	398.93	400.72	403.27	406.81
Durable goods		10.22	10.29	10.40	10.41	10.53	420.04	428.06	426.40	429.93	431.73
Lumber and wood products	24	8.33	8.35	8.46	8.46	8.48	338.20	340.68	341.78	344.32	337.50
Logging camps and logging contractors	241	10.77	10.73	11.00	10.95	-	428.65	432.42	429.00	425.96	-
Sawmills and planing mills	242	8.52	8.50	8.58	8.61		352.73	354.45	353.50	360.76	
Sawmills and planing mills, general	2421	8.93	8.90	8.94	8.96		370.60	372.91	369.22	376.32	
Hardwood dimension and flooring	2426	6.49	6.55	6.79	6.85		268.69	269.86	279.75	284.28	
Millwork, plywood, and structural members	243	8.20	8.25	8.37	8.37		334.56	338.25	338.99	343.17	
Millwork	2431	8.46	8.49	8.66	8.63		349.40	354.03	355.06	358.15	
Wood kitchen cabinets	2434	7.54	7.59	7.65	7.70		303.86	305.12	306.00	305.69	
Hardwood veneer and plywood	2435	6.84	6.81	6.90	6.88		274.28	277.17	273.93	282.77	
Softwood veneer and plywood	2436	9.59	9.62	9.77	9.75		397.03	400.19	392.75	409.50	
Wood containers	244	5.99	6.02	6.15	6.23		231.21	232.37	238.62	241.10	
Wood buildings and mobile homes	245	7.56	7.67	7.94	7.90		301.64	302.97	319.98	315.21	
Mobile homes	2451	7.65	7.74	8.04	7.99		307.53	305.73	322.40	317.20	
Miscellaneous wood products	249	7.23	7.22	7.31	7.32		289.92	290.97	291.67	295.73	
Furniture and fixtures	25	7.50	7.55	7.67	7.74	7.80	300.75	305.78	300.66	311.92	310.44
Household furniture	251	6.90	6.95	7.06	7.10	-	272.55	278.00	274.63	283.29	-
Wood household furniture	2511	6.36	6.39	6.53	6.57		253.76	255.60	255.98	263.46	
Upholstered household furniture	2512	7.51	7.60	7.69	7.74		289.89	300.20	290.68	301.86	
Metal household furniture	2514	7.21	7.20	7.21	7.29		289.84	290.88	291.28	294.52	
Mattresses and bedsprings	2515	7.32	7.36	7.63	7.63		294.26	301.02	298.33	311.30	
Office furniture	252	8.49	8.42	8.64	8.82		348.94	346.90	335.23	371.07	
Public building and related furniture	253	7.88	8.06	8.04	8.05		316.78	329.65	330.44	325.22	
Partitions and fixtures	254	8.86	9.02	9.20	9.13		368.58	379.74	368.92	375.24	
Miscellaneous furniture and fixtures	259	7.81	7.90	8.03	8.24		317.87	323.90	317.19	336.19	
Stone, clay, and glass products	32	10.07	10.11	10.33	10.31	10.44	431.00	434.73	439.03	439.21	442.66
Flat glass	321	14.19	14.11	14.06	14.33	-	634.29	636.36	622.86	650.58	-
Glass and glassware, pressed or blown	322	11.09	11.16	11.58	11.47		460.24	464.26	475.94	477.15	

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				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	41.9	41.9	40.9	41.9		6.1	5.9	6.1	6.2	
Pressed and blown glass, nec	3229	41.1	41.2	41.4	41.2		3.5	3.5	3.8	3.7	
Products of purchased glass	323	41.5	42.0	41.4	41.2		3.4	3.8	3.5	3.6	
Cement, hydraulic	324	40.8	41.5	42.1	41.9		3.3	3.4	3.4	3.8	
Structural clay products	325	41.9	42.2	41.9	42.0		4.3	4.1	4.3	4.7	
Pottery and related products	326	40.4	40.3	39.3	40.2		2.6	2.8	3.0	2.8	
Concrete, gypsum, and plaster products	327	45.3	45.5	44.8	44.3		7.5	7.7	7.3	7.3	
Concrete block and brick	3271	46.1	46.5	45.3	45.4		8.1	8.4	8.6	8.4	
Concrete products, nec	3272	44.9	45.1	43.7	43.8		6.8	7.0	6.2	6.5	
Ready-mixed concrete	3273	44.8	45.1	45.1	44.0		7.7	7.8	7.8	7.5	
Misc. nonmetallic mineral products	329	41.0	40.9	41.2	41.5		3.7	3.8	4.2	4.4	
Abrasive products	3291	40.0	38.9	41.9	41.9		2.4	2.4	3.6	3.8	
Asbestos products	3292	42.9	42.3	40.3	41.2		3.6	3.9	4.3	3.8	
Primary metal industries	33	41.5	42.1	43.0	43.2	43.0	4.1	4.3	4.9	5.1	
Blast furnaces and basic steel products	331	41.2	41.8	44.0	43.8	44.0	3.9	4.0	5.3	5.3	
Blast furnaces and steel mills	3312	41.2	41.9	44.5	44.1	-	3.9	4.1	5.5	5.4	
Steel pipe and tubes	3317	41.5	41.6	41.5	42.1		3.6	3.6	4.5	5.3	
Iron and steel foundries	332	41.3	42.0	42.2	43.0		4.1	4.6	4.6	5.2	
Gray iron foundries	3321	41.4	42.2	42.4	43.6		4.8	5.2	4.9	5.8	
Malleable iron foundries	3322	40.0	39.3	40.4	42.5		2.6	2.7	3.2	5.1	
Steel foundries, nec	3325	40.7	41.4	41.9	42.3		3.0	3.8	4.4	3.8	
Primary nonferrous metals	333	41.8	42.8	43.4	43.6		3.9	4.3	4.7	4.7	
Primary aluminum	3334	42.1	43.4	44.0	44.3		3.9	4.5	4.8	4.9	
Nonferrous rolling and drawing	335	42.3	43.0	43.0	43.1		5.2	5.3	5.5	5.8	
Copper rolling and drawing	3351	42.4	42.2	42.4	43.5		4.7	4.7	5.3	6.4	
Aluminum sheet, plate, and foil	3353	42.7	44.2	44.3	44.0		6.6	6.0	7.4	7.4	
Nonferrous wire drawing and insulating	3357	41.9	42.7	42.3	42.6		5.2	5.2	4.8	5.4	
Nonferrous foundries	336	41.0	41.7	40.9	42.0		3.2	3.6	3.3	3.8	
Aluminum foundries	3361	41.5	42.3	41.7	42.7		3.5	3.9	3.7	4.1	
Fabricated metal products	34	41.1	41.6	40.8	41.3	40.7	3.5	3.8	3.6	3.9	
Metal cans and shipping containers	341	44.2	43.4	44.2	44.9	-	6.2	5.9	6.3	6.8	
Metal cans	3411	44.5	43.4	44.5	45.1		6.4	5.9	6.4	7.0	
Cutlery, hand tools, and hardware	342	40.0	40.8	40.4	40.7		2.7	3.0	3.0	3.2	
Hand and edge tools, and hand saws and blades	3423,5	40.5	41.0	40.1	41.3		2.8	2.9	2.7	3.6	
Hardware, nec	3429	39.8	40.7	40.2	40.1		2.7	3.1	3.2	3.1	
Plumbing and heating, except electric	343	40.0	40.3	40.7	41.3		2.8	3.0	3.2	3.2	
Plumbing fittings and brass goods	3432	40.7	40.2	40.9	41.7		2.8	2.4	2.3	3.2	
Heating equipment, except electric	3433	38.7	40.0	39.9	40.3		2.0	2.7	3.4	3.1	
Fabricated structural metal products	344	41.1	41.3	40.5	40.9		3.5	3.8	3.4	3.7	
Fabricated structural metal	3441	42.4	42.4	41.1	41.9		4.4	4.3	3.7	4.2	
Metal doors, sash, and trim	3442	40.6	40.6	40.4	40.4		3.4	3.5	3.3	3.4	
Fabricated plate work (boiler shops)	3443	40.9	41.6	41.1	42.4		2.8	3.5	3.3	4.1	
Sheet metal work	3444	40.2	40.5	39.4	39.5		3.0	3.2	3.0	3.2	
Architectural metal work	3446	40.4	40.3	40.1	40.3		4.1	3.7	3.3	3.8	
Screw machine products, bolts, etc	345	41.9	42.4	41.8	42.3		4.3	4.6	4.4	4.7	
Screw machine products	3451	40.3	40.6	40.6	41.0		2.8	3.3	3.2	3.8	
Bolts, nuts, rivets, and washers	3452	43.6	44.2	43.1	43.6		5.7	5.8	5.6	5.9	
Metal forgings and stampings	346	41.7	43.0	40.7	41.9		3.9	4.7	3.7	4.4	
Iron and steel forgings	3462	40.9	40.9	40.9	41.3		3.4	3.2	3.3	4.1	
Automotive stampings	3465	42.8	44.6	41.0	42.6		4.6	5.9	3.9	4.8	
Metal stampings, nec	3469	40.6	41.7	40.1	41.3		3.1	3.8	3.6	4.1	
Metal services, nec	347	40.4	41.1	40.9	40.7		3.3	3.7	3.5	3.4	
Plating and polishing	3471	40.1	41.0	40.5	40.5		3.1	3.6	3.5	3.3	
Metal coating and allied services	3479	41.1	41.3	41.7	41.0		3.8	3.8	3.5	3.5	
Ordnance and accessories, nec	348	40.5	41.1	40.6	40.6		2.8	2.9	2.6	3.2	
Ammunition, except for small arms, nec	3483	40.1	40.5	39.5	39.3		2.6	2.5	2.0	2.6	
Misc. fabricated metal products	349	40.3	40.8	40.4	40.8		2.8	3.0	3.4	3.5	
Valves and pipe fittings	3494	39.6	40.2	40.4	41.1		2.4	2.5	3.5	3.5	
Misc. fabricated wire products	3496	40.2	40.6	41.2	40.4		2.7	3.0	3.3	3.0	
Machinery, except electrical	35	41.2	41.7	41.7	41.8	41.5	3.3	3.6	3.8	4.0	
Engines and turbines	351	41.4	42.2	43.1	41.9	-	4.0	4.1	3.4	4.9	
Turbines and turbine generator sets	3511	38.9	41.8	39.0	38.6		3.9	5.0	3.3	4.1	
Internal combustion engines, nec	3519	42.4	42.3	44.4	43.0		4.0	3.8	3.5	5.1	
Farm and garden machinery	352	40.3	40.6	42.1	41.0		2.9	2.8	4.0	3.6	
Farm machinery and equipment	3523	41.3	41.2	43.3	42.0		3.4	3.4	5.1	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 workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.45	\$11.55	\$12.09	\$11.98		\$479.76	\$483.95	\$494.48	\$501.96	
Pressed and blown glass, nec	3229	10.65	10.71	10.98	10.88		437.72	441.25	454.57	448.26	
Products of purchased glass	323	8.78	8.85	8.83	8.78		364.37	371.70	365.58	361.74	
Cement, hydraulic	324	13.23	13.26	13.26	13.46		539.78	550.29	558.25	563.97	
Structural clay products	325	8.08	8.08	8.56	8.61		338.55	340.98	358.66	361.62	
Pottery and related products	326	8.75	8.79	8.99	9.04		353.50	354.24	353.31	363.41	
Concrete, gypsum, and plaster products	327	9.85	9.90	10.14	10.13		446.21	450.45	454.27	448.76	
Concrete block and brick	3271	8.70	8.74	9.04	9.04		401.07	406.41	409.51	410.42	
Concrete products, nec	3272	8.64	8.74	8.96	9.00		387.94	394.17	391.55	394.20	
Ready-mixed concrete	3273	10.76	10.81	10.98	10.95		482.05	487.53	495.20	481.80	
Misc. nonmetallic mineral products	329	10.26	10.24	10.43	10.42		420.66	418.82	429.72	432.43	
Abrasive products	3291	9.72	9.76	9.68	9.63		388.80	379.66	405.59	403.50	
Asbestos products	3292	10.23	10.20	10.58	10.22		438.87	431.46	426.37	421.06	
Primary metal industries	33	11.74	11.82	11.97	11.92	\$12.11	487.21	497.62	514.71	514.94	\$520.73
Blast furnaces and basic steel products	331	13.61	13.76	13.70	13.63	13.82	560.73	575.17	602.80	596.99	608.08
Blast furnaces and steel mills	3312	14.32	14.56	14.31	14.27	-	589.98	610.06	636.80	629.31	-
Steel pipe and tubes	3317	10.78	10.89	10.98	11.00		447.37	453.02	455.67	463.10	
Iron and steel foundries	332	10.52	10.56	10.66	10.69		434.48	443.52	449.85	459.67	
Gray iron foundries	3321	10.96	10.96	11.10	11.14		453.74	462.51	470.64	485.70	
Malleable iron foundries	3322	11.08	11.16	11.52	11.44		443.20	438.59	465.41	486.20	
Steel foundries, nec	3325	9.74	9.97	10.05	9.90		396.42	412.76	421.10	418.77	
Primary nonferrous metals	333	13.13	13.28	13.07	13.07		548.83	568.38	567.24	569.85	
Primary aluminum	3334	13.75	14.04	13.39	13.41		578.88	609.34	589.16	594.06	
Nonferrous rolling and drawing	335	11.09	11.27	11.42	11.44		469.11	484.61	491.06	493.06	
Copper rolling and drawing	3351	10.34	10.24	10.48	10.61		438.42	432.13	444.35	461.54	
Aluminum sheet, plate, and foil	3353	13.34	14.03	13.72	14.00		569.62	620.13	607.80	616.00	
Nonferrous wire drawing and insulating	3357	10.91	11.06	11.39	11.40		457.13	472.26	481.80	485.64	
Nonferrous foundries	336	9.51	9.48	9.50	9.43		389.91	395.32	388.55	396.06	
Aluminum foundries	3361	9.78	9.74	9.75	9.68		405.87	412.00	406.58	413.34	
Fabricated metal products	34	9.82	9.88	9.95	9.95	10.03	403.60	411.01	405.96	410.94	408.22
Metal cans and shipping containers	341	13.36	13.35	13.32	13.33	-	590.51	579.39	588.74	598.52	-
Metal cans	3411	14.05	14.05	14.07	14.12		625.23	609.77	626.12	636.81	
Cutlery, hand tools, and hardware	342	9.67	9.73	9.71	9.80		386.80	396.98	392.28	398.86	
Hand and edge tools, and hand saws and blades	3423,5	8.97	9.04	8.95	9.05		363.29	370.64	358.90	373.77	
Hardware, nec	3429	10.03	10.11	10.08	10.22		399.19	411.48	405.22	409.82	
Plumbing and heating, except electric	343	9.10	9.09	9.16	9.13		364.00	366.33	372.81	377.07	
Plumbing fittings and brass goods	3432	8.73	8.70	8.52	8.68		355.31	349.74	348.47	361.96	
Heating equipment, except electric	3433	8.89	8.86	9.24	9.25		344.04	354.40	368.68	372.78	
Fabricated structural metal products	344	9.08	9.12	9.25	9.26		373.19	376.66	374.63	378.73	
Fabricated structural metal	3441	9.63	9.63	9.95	9.90		408.31	408.31	408.95	414.81	
Metal doors, sash, and trim	3442	7.56	7.58	7.58	7.55		306.94	307.75	306.23	305.02	
Fabricated plate work (boiler shops)	3443	10.05	10.16	10.14	10.30		411.05	422.66	416.75	436.72	
Sheet metal work	3444	9.44	9.43	9.75	9.72		379.49	381.92	384.15	383.94	
Architectural metal work	3446	8.67	8.85	8.81	8.71		350.27	356.66	353.28	351.01	
Screw machine products, bolts, etc	345	9.39	9.51	9.73	9.76		393.44	403.22	406.71	412.85	
Screw machine products	3451	8.80	8.89	9.01	9.04		354.64	360.93	365.81	370.64	
Bolts, nuts, rivets, and washers	3452	9.94	10.09	10.45	10.47		433.38	445.98	450.40	456.49	
Metal forgings and stampings	346	11.64	11.74	11.73	11.70		485.39	504.82	477.41	490.23	
Iron and steel forgings	3462	12.38	12.29	12.52	12.47		506.34	502.66	512.07	515.01	
Automotive stampings	3465	13.64	13.67	13.75	13.69		583.79	609.68	563.75	583.19	
Metal stampings, nec	3469	8.96	9.07	9.20	9.20		363.78	378.22	368.92	379.96	
Metal services, nec	347	8.01	7.96	8.12	8.00		323.60	327.16	332.11	325.60	
Plating and polishing	3471	7.89	7.82	8.12	7.99		316.39	320.62	328.86	323.60	
Metal coating and allied services	3479	8.25	8.22	8.12	8.02		339.08	339.49	338.60	328.82	
Ordinance and accessories, nec	348	10.63	10.67	11.00	10.89		430.52	438.54	446.60	442.13	
Ammunition, except for small arms, nec	3483	10.35	10.31	10.53	10.51		415.04	417.56	415.94	413.04	
Misc. fabricated metal products	349	9.09	9.14	9.34	9.36		366.33	372.91	377.34	381.89	
Valves and pipe fittings	3494	9.76	9.75	9.92	9.95		386.50	391.95	400.77	408.95	
Misc. fabricated wire products	3496	8.22	8.26	8.40	8.47		330.44	335.36	346.08	342.19	
Machinery, except electrical	35	10.59	10.61	10.74	10.77	10.84	436.31	442.44	447.86	450.19	449.86
Engines and turbines	351	12.85	12.93	13.27	13.26	-	531.99	545.65	571.94	555.59	-
Turbines and turbine generator sets	3511	13.23	13.23	12.68	13.30		514.65	553.01	494.52	513.38	
Internal combustion engines, nec	3519	12.71	12.81	13.44	13.25		538.90	541.86	596.74	569.75	
Farm and garden machinery	352	10.18	9.68	10.32	10.18		410.25	393.01	434.47	417.38	
Farm machinery and equipment	3523	10.74	10.27	11.06	10.86		443.56	423.12	478.90	456.12	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	41.4	41.3	41.8	42.4		2.7	2.8	3.5	4.0	
Construction machinery	3531	42.1	41.7	42.3	43.5		2.2	2.4	3.0	3.4	
Mining machinery	3532	40.2	40.9	42.1	42.6		2.9	2.8	4.0	4.4	
Oil field machinery	3533	39.9	40.0	41.9	42.0		2.9	3.3	5.1	5.6	
Conveyors and conveying equipment	3535	41.9	41.7	42.1	43.0		3.4	3.3	3.7	4.7	
Industrial trucks and tractors	3537	41.8	41.5	40.0	40.1		3.2	3.1	2.7	3.5	
Metalworking machinery	354	41.9	42.5	42.0	42.1		4.4	4.7	4.4	4.6	
Machine tools, metal cutting types	3541	41.7	41.7	41.3	41.7		3.6	3.7	3.6	3.7	
Machine tools, metal forming types	3542	40.2	41.5	41.7	42.9		4.6	4.8	4.4	4.9	
Special dies, tools, jigs, and fixtures	3544	42.9	43.6	42.6	42.7		5.4	5.6	5.1	5.3	
Machine tool accessories	3545	39.8	40.4	41.0	41.0		3.2	3.4	3.7	4.1	
Power driven hand tools	3546	41.8	42.4	41.8	41.5		3.3	3.0	3.1	3.5	
Special industry machinery	355	41.5	41.9	41.3	41.7		3.5	3.6	3.7	4.0	
Food products machinery	3551	41.4	42.3	41.7	42.0		2.8	3.4	3.4	3.7	
Textile machinery	3552	42.5	42.5	41.7	42.2		3.9	4.0	3.8	3.7	
Printing trades machinery	3555	40.4	40.5	39.7	39.7		4.3	3.9	3.9	4.2	
General industrial machinery	356	41.1	41.6	41.5	41.5		3.2	3.5	3.8	4.0	
Pumps and pumping equipment	3561	40.9	40.8	41.5	42.9		2.3	2.3	3.4	4.3	
Ball and roller bearings	3562	42.2	42.7	43.5	42.4		4.4	4.7	5.0	4.7	
Air and gas compressors	3563	39.9	41.0	40.9	40.7		2.0	2.3	2.8	3.6	
Blowers and fans	3564	41.5	42.0	40.7	41.4		3.5	3.7	3.7	4.0	
Speed changers, drives, and gears	3566	41.9	42.5	40.7	40.9		4.4	4.6	3.5	4.0	
Power transmission equipment, nec	3568	40.7	42.8	41.6	41.4		3.8	5.2	4.3	4.2	
Office and computing machines	357	41.6	42.2	41.5	42.3		2.7	3.2	3.3	3.4	
Electronic computing equipment	3573	41.7	42.3	41.1	41.9		2.6	3.1	3.3	3.4	
Refrigeration and service machinery	358	40.6	41.5	41.7	41.2		2.8	3.4	3.8	3.6	
Refrigeration and heating equipment	3585	40.7	42.0	42.4	41.4		2.9	3.7	4.3	3.6	
Misc. machinery, except electrical	359	40.7	41.2	41.3	41.3		3.5	3.6	3.8	3.9	
Carburetors, pistons, rings, and valves	3592	41.4	42.6	40.6	41.2		4.4	4.8	3.3	3.3	
Machinery, except electrical, nec	3599	40.6	40.9	41.4	41.4		3.3	3.4	3.8	3.9	
Electrical and electronic equipment	36	40.9	41.3	40.4	40.8	40.4	2.8	3.1	2.8	3.0	
Electric distributing equipment	361	41.1	41.4	40.5	40.9	-	2.7	3.0	3.0	3.3	
Transformers	3612	42.5	42.8	40.8	41.7		2.8	3.3	2.8	3.4	
Switchgear and switchboard apparatus	3613	39.7	40.0	40.3	40.1		2.5	2.8	3.2	3.2	
Electrical industrial apparatus	362	40.4	40.9	40.9	41.3		2.7	2.8	3.2	3.5	
Motors and generators	3621	40.8	41.3	40.9	41.2		3.2	3.3	3.5	3.6	
Industrial controls	3622	40.1	40.2	39.9	40.2		2.0	1.9	1.9	2.7	
Household appliances	363	40.6	41.2	39.5	39.7		3.2	3.5	2.4	2.2	
Household refrigerators and freezers	3632	39.3	39.9	39.5	40.3		3.0	2.7	3.2	2.0	
Household laundry equipment	3633	42.0	43.1	42.3	41.3		4.0	4.8	4.0	2.8	
Electric housewares and fans	3634	40.5	41.4	38.7	40.2		3.0	3.9	1.8	2.4	
Electric lighting and wiring equipment	364	40.1	40.5	39.0	39.8		2.6	2.7	2.1	2.7	
Electric lamps	3641	40.6	41.0	39.5	39.2		2.8	3.1	2.4	2.3	
Current-carrying wiring devices	3643	40.0	40.3	38.6	39.6		2.3	2.2	2.3	3.0	
Noncurrent-carrying wiring devices	3644	40.6	40.8	39.5	40.7		2.3	2.7	1.6	2.4	
Residential lighting fixtures	3645	38.8	39.1	37.6	39.2		1.3	1.7	1.1	1.5	
Radio and TV receiving equipment	365	42.6	42.6	40.2	41.1		3.3	3.4	2.1	2.7	
Radio and TV receiving sets	3651	43.1	43.0	39.8	40.5		3.1	3.0	1.5	2.2	
Communication equipment	366	41.1	41.4	41.1	41.1		2.5	2.8	2.5	2.6	
Telephone and telegraph apparatus	3661	41.1	41.8	42.2	42.4		2.0	2.4	2.4	2.9	
Radio and TV communication equipment	3662	41.0	41.3	40.7	40.7		2.8	2.9	2.5	2.5	
Electronic components and accessories	367	40.9	41.4	40.5	40.8		3.0	3.3	3.2	3.4	
Electronic tubes	3671-3	43.2	43.4	40.8	41.8		3.1	3.0	2.0	2.2	
Semiconductors and related devices	3674	41.0	41.5	40.9	40.3		3.2	3.5	3.9	3.4	
Electronic components, nec	3679	40.9	41.6	40.6	41.1		3.0	3.5	3.2	3.6	
Misc. electrical equipment and supplies	369	41.8	42.0	40.7	41.6		3.3	3.6	2.6	3.4	
Storage batteries	3691	44.1	44.1	40.6	41.5		4.0	4.2	3.2	3.7	
Engine electrical equipment	3694	41.8	42.2	41.4	42.4		3.8	4.1	2.9	3.9	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.16	\$11.06	\$11.12	\$11.12		\$462.02	\$456.78	\$464.82	\$471.49	
Construction machinery	3531	12.43	12.23	12.44	12.45		523.30	509.99	526.21	541.58	
Mining machinery	3532	11.42	11.42	11.61	11.26		459.08	467.08	488.78	479.68	
Oil field machinery	3533	11.21	11.18	11.00	10.97		447.28	447.20	460.90	460.74	
Conveyors and conveying equipment	3535	9.92	9.90	9.68	9.83		415.65	412.83	407.53	422.69	
Industrial trucks and tractors	3537	9.69	9.74	9.67	9.69		405.04	404.21	386.80	388.57	
Metalworking machinery	354	10.94	11.03	11.09	11.12		458.39	468.78	465.78	468.15	
Machine tools, metal cutting types	3541	10.93	11.04	11.16	11.06		455.78	460.37	460.91	461.20	
Machine tools, metal forming types	3542	11.34	11.46	11.35	11.39		455.87	475.59	473.30	488.63	
Special dies, tools, jigs, and fixtures	3544	11.62	11.72	11.84	11.89		498.50	510.99	504.38	507.70	
Machine tool accessories	3545	9.90	9.97	10.01	10.03		394.02	402.79	410.41	411.23	
Power driven hand tools	3546	8.47	8.49	8.39	8.51		354.05	359.98	350.70	353.17	
Special industry machinery	355	10.41	10.45	10.64	10.61		432.02	437.86	439.43	442.44	
Food products machinery	3551	10.56	10.59	10.59	10.67		437.18	447.96	441.60	448.14	
Textile machinery	3552	8.47	8.54	8.87	8.73		359.98	362.95	369.88	368.41	
Printing trades machinery	3555	11.06	11.08	11.49	11.46		446.82	448.74	456.15	454.96	
General industrial machinery	356	10.23	10.29	10.36	10.40		420.45	428.06	429.94	431.60	
Pumps and pumping equipment	3561	10.87	10.94	11.10	10.98		444.58	446.35	460.65	471.04	
Ball and roller bearings	3562	10.70	10.79	10.80	10.90		451.54	460.73	469.80	462.16	
Air and gas compressors	3563	9.96	10.12	10.17	10.29		397.40	414.92	415.95	418.80	
Blowers and fans	3564	9.11	9.03	9.25	9.33		378.07	379.26	376.48	386.26	
Speed changers, drives, and gears	3566	10.40	10.46	10.08	10.09		435.76	444.55	410.26	412.68	
Power transmission equipment, nec	3568	10.40	10.49	10.44	10.40		423.28	448.97	434.30	430.56	
Office and computing machines	357	10.08	10.12	10.34	10.47		419.33	427.06	429.11	442.88	
Electronic computing equipment	3573	10.06	10.08	10.36	10.48		419.50	426.38	425.80	439.11	
Refrigeration and service machinery	358	10.23	10.36	10.36	10.40		415.34	429.94	432.01	428.48	
Refrigeration and heating equipment	3585	10.42	10.59	10.62	10.60		424.09	444.78	450.29	438.84	
Misc. machinery, except electrical	359	10.24	10.25	10.37	10.41		416.77	422.30	428.28	429.93	
Carburetors, pistons, rings, and valves	3592	12.68	12.76	12.77	12.64		524.95	543.58	518.46	520.77	
Machinery, except electrical, nec	3599	9.83	9.83	10.01	10.06		399.10	402.05	414.41	416.48	
Electrical and electronic equipment	36	9.64	9.70	9.89	9.90	\$9.96	394.28	400.61	399.56	403.92	\$402.38
Electric distributing equipment	361	8.96	9.06	9.17	9.31	-	368.26	375.08	371.39	380.78	-
Transformers	3612	8.76	8.92	8.98	9.17		372.30	381.78	366.38	382.39	
Switchgear and switchboard apparatus	3613	9.16	9.21	9.36	9.45		363.65	368.40	377.21	378.95	
Electrical industrial apparatus	362	9.69	9.74	9.84	9.83		391.48	398.37	402.46	405.98	
Motors and generators	3621	9.61	9.67	9.70	9.68		392.09	399.37	396.73	398.82	
Industrial controls	3622	9.60	9.68	9.76	9.78		384.96	389.14	389.42	393.16	
Household appliances	363	9.64	9.56	9.89	9.85		391.38	393.87	390.66	391.05	
Household refrigerators and freezers	3632	11.38	11.03	11.30	11.33		447.23	440.10	446.35	456.60	
Household laundry equipment	3633	11.49	11.40	11.82	11.76		482.58	491.34	499.99	485.69	
Electric housewares and fans	3634	7.15	7.25	7.23	7.26		289.58	300.15	279.80	291.85	
Electric lighting and wiring equipment	364	8.82	8.88	9.10	9.10		353.88	359.64	354.90	362.18	
Electric lamps	3641	9.76	9.84	10.45	10.68		396.26	403.44	412.78	418.66	
Current-carrying wiring devices	3643	8.42	8.38	8.64	8.56		336.80	337.71	333.50	338.98	
Noncurrent-carrying wiring devices	3644	9.28	9.28	9.33	9.44		376.77	378.62	368.54	384.21	
Residential lighting fixtures	3645	6.50	6.44	6.81	6.68		252.20	251.80	256.06	261.86	
Radio and TV receiving equipment	365	9.45	9.27	9.22	8.99		402.57	394.90	370.64	369.49	
Radio and TV receiving sets	3651	9.71	9.60	9.51	9.26		418.50	412.80	378.50	375.03	
Communication equipment	366	11.21	11.40	11.78	11.79		460.73	471.96	484.16	484.57	
Telephone and telegraph apparatus	3661	10.62	11.18	11.15	11.18		436.48	467.32	470.53	474.03	
Radio and TV communication equipment	3662	11.44	11.49	12.01	12.01		469.04	474.54	488.81	488.81	
Electronic components and accessories	367	8.66	8.73	8.94	8.99		354.19	361.42	362.07	366.79	
Electronic tubes	3671-3	10.65	10.79	11.01	10.99		460.08	468.29	449.21	459.38	
Semiconductors and related devices	3674	10.29	10.37	10.64	10.77		421.89	430.36	435.18	434.03	
Electronic components, nec	3679	7.82	7.88	8.08	8.12		319.84	327.81	328.05	333.73	
Misc. electrical equipment and supplies	369	10.54	10.43	10.27	10.45		440.57	438.06	417.99	434.72	
Storage batteries	3691	11.09	11.09	11.02	11.15		489.07	489.07	447.41	462.73	
Engine electrical equipment	3694	11.10	10.84	10.72	11.06		463.98	457.45	443.81	468.94	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Durable goods—Continued											
Transportation equipment	37	41.6	42.3	41.0	41.0	41.1	4.1	4.5	3.8	4.0	
Motor vehicles and equipment	371	41.4	42.5	41.1	40.7	41.1	3.9	4.4	3.5	3.9	
Motor vehicles and car bodies	3711	40.3	42.4	40.8	38.9	-	3.6	4.4	3.3	3.2	
Truck and bus bodies	3713	41.1	40.6	42.7	42.3	-	3.4	3.0	4.6	4.5	
Motor vehicle parts and accessories	3714	42.4	43.0	41.1	42.0	-	4.3	4.7	3.7	4.5	
Truck trailers	3715	40.9	40.5	40.7	41.5	-	3.3	2.8	2.8	3.8	
Aircraft and parts	372	42.6	42.9	41.6	42.1	-	5.1	5.3	4.8	4.8	
Aircraft	3721	41.9	42.1	41.5	41.8	-	4.5	4.5	4.4	4.3	
Aircraft engines and engine parts	3724	42.6	43.4	41.5	42.6	-	5.6	5.9	4.4	5.3	
Aircraft equipment, nec	3728	43.5	43.8	41.9	42.1	-	5.6	5.9	5.5	5.3	
Ship and boat building and repairing	373	40.2	40.7	39.7	39.8	-	2.8	3.1	2.5	2.5	
Ship building and repairing	3731	40.6	41.1	39.9	39.8	-	3.1	3.4	2.7	2.5	
Boat building and repairing	3732	39.4	39.7	39.3	39.7	-	2.3	2.4	2.3	2.6	
Railroad equipment	374	41.1	40.9	40.6	40.6	-	3.0	2.9	2.2	2.0	
Guided missiles, space vehicles, and parts	376	42.4	41.9	41.3	42.2	-	4.4	4.3	3.6	4.1	
Guided missiles and space vehicles	3761	42.6	42.0	41.1	42.1	-	4.6	4.5	3.7	4.2	
Miscellaneous transportation equipment	379	40.8	41.9	39.6	39.4	-	3.6	4.4	3.8	3.4	
Travel trailers and campers	3792	39.0	39.0	38.7	38.0	-	2.6	2.5	2.6	2.2	
Instruments and related products	38	40.5	40.8	40.9	41.4	40.8	2.5	2.8	2.6	3.0	
Engineering and scientific instruments	381	41.7	41.6	41.1	41.8	-	2.9	3.0	3.1	3.3	
Measuring and controlling devices	382	40.2	40.6	40.7	41.2	-	2.1	2.4	2.2	2.7	
Environmental controls	3822	39.0	39.9	39.3	39.8	-	1.8	2.4	2.1	3.1	
Process control instruments	3823	40.6	40.7	41.4	42.2	-	2.5	2.6	2.8	3.3	
Instruments to measure electricity	3825	40.0	40.3	40.0	41.0	-	1.9	2.1	2.1	2.4	
Optical instruments and lenses	383	40.8	41.9	41.6	42.1	-	2.3	2.9	2.4	3.0	
Medical instruments and supplies	384	40.3	40.6	40.2	40.6	-	2.7	2.8	2.5	2.9	
Surgical and medical instruments	3841	40.6	40.6	40.3	40.5	-	2.7	3.0	2.5	2.7	
Surgical appliances and supplies	3842	40.2	40.8	40.1	40.6	-	2.7	2.8	2.5	3.1	
Ophthalmic goods	385	40.6	39.9	40.2	41.3	-	2.6	2.6	2.7	2.7	
Photographic equipment and supplies	386	40.8	41.2	42.9	43.4	-	2.8	3.4	3.2	3.8	
Watches, clocks, and watchcases	387	40.3	40.9	41.0	40.2	-	1.3	2.4	2.3	2.3	
Miscellaneous manufacturing	39	39.2	39.5	38.8	39.4	39.3	2.2	2.6	2.2	2.7	
Jewelry, silverware, and plated ware	391	37.8	38.9	37.2	38.0	-	1.9	2.6	1.5	2.0	
Jewelry, precious metal	3911	36.8	37.8	36.4	37.2	-	1.4	2.2	1.2	1.8	
Musical instruments	393	40.7	41.3	41.0	41.4	-	3.0	3.2	2.4	3.2	
Toys and sporting goods	394	39.2	39.2	38.6	39.6	-	1.8	2.0	1.9	2.5	
Dolls, games, toys, and children's vehicles	3942,4	38.5	39.1	37.6	38.6	-	2.0	2.1	1.5	2.5	
Sporting and athletic goods, nec	3949	39.8	39.2	39.5	40.5	-	1.6	1.8	2.4	2.5	
Pens, pencils, office, and art supplies	395	39.8	40.2	40.6	40.5	-	1.9	2.2	2.1	1.9	
Costume jewelry and notions	396	38.6	38.6	35.6	37.1	-	2.5	3.2	2.4	3.3	
Costume jewelry	3961	37.5	37.4	34.1	34.8	-	2.6	3.5	2.0	2.7	
Miscellaneous manufactures	399	39.8	40.1	39.9	40.2	-	2.7	2.9	2.7	3.0	
Signs and advertising displays	3993	39.9	40.4	39.3	39.7	-	2.5	3.0	2.3	2.8	
Nondurable goods		40.1	40.1	40.0	40.4	40.1	3.6	3.7	3.6	3.9	4.1
Food and kindred products	20	40.6	40.4	39.9	40.7	40.7	4.6	4.4	4.2	4.7	-
Meat products	201	40.1	40.5	39.6	40.1	-	4.0	4.1	3.6	4.1	
Meat packing plants	2011	41.4	41.5	40.8	41.9	-	4.7	4.9	4.2	4.9	
Sausages and other prepared meats	2013	40.6	40.5	40.9	41.3	-	4.0	3.8	4.1	4.2	
Poultry dressing plants	2016	39.1	39.9	38.4	38.3	-	3.3	3.7	3.1	3.5	
Dairy products	202	41.5	41.2	41.5	41.4	-	4.6	4.3	4.9	4.5	
Cheese, natural and processed	2022	39.9	39.6	39.3	39.5	-	4.0	3.8	4.1	3.7	
Fluid milk	2026	42.4	42.8	42.3	42.2	-	5.2	5.2	5.2	5.0	
Preserved fruits and vegetables	203	41.0	39.6	38.0	40.7	-	5.8	4.8	4.5	6.0	
Canned specialties	2032	43.0	44.3	40.0	40.5	-	7.0	7.9	4.6	6.0	
Canned fruits and vegetables	2033	40.8	39.1	36.6	41.2	-	6.3	4.9	5.0	7.0	
Frozen fruits and vegetables	2037	39.8	37.5	37.5	40.2	-	5.4	4.5	4.4	6.1	
Grain mill products	204	43.9	44.6	44.3	44.2	-	5.9	6.3	6.2	6.0	
Flour and other grain mill products	2041	47.4	48.6	47.3	47.3	-	6.4	7.3	6.9	6.7	
Prepared feeds, nec	2048	42.9	43.9	44.1	43.8	-	5.7	6.2	6.5	6.2	
Bakery products	205	39.7	40.3	39.7	39.8	-	3.8	4.2	4.0	4.0	
Bread, cake, and related products	2051	39.2	39.7	39.3	39.0	-	3.9	4.2	4.3	4.0	
Cookies and crackers	2052	41.2	41.8	40.5	41.8	-	3.6	4.1	3.3	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 workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Durable goods—Continued											
Transportation equipment	37	\$12.70	\$12.82	\$12.83	\$12.90	\$13.12	\$528.32	\$542.29	\$526.03	\$528.90	\$539.23
Motor vehicles and equipment	371	13.29	13.42	13.36	13.42	13.74	550.21	570.35	549.10	546.19	564.71
Motor vehicles and car bodies	3711	15.00	14.97	15.26	15.38	-	604.50	634.73	622.61	598.28	-
Truck and bus bodies	3713	10.80	10.96	11.57	11.37	-	443.88	444.98	494.04	480.95	-
Motor vehicle parts and accessories	3714	12.56	12.65	12.57	12.66	-	532.54	543.95	516.63	531.72	-
Truck trailers	3715	9.60	9.48	9.34	9.38	-	392.64	383.94	380.14	389.27	-
Aircraft and parts	372	12.89	12.92	13.18	13.26	-	549.11	554.27	548.29	558.25	-
Aircraft	3721	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.15	\$13.17	\$13.27	\$13.51	-	560.19	571.58	550.71	575.53	-
Aircraft equipment, nec	3728	11.96	11.97	12.37	12.30	-	520.26	524.29	518.30	517.83	-
Ship and boat building and repairing	373	10.45	10.54	10.29	10.30	-	420.09	428.98	408.51	409.94	-
Ship building and repairing	3731	11.55	11.64	11.56	11.53	-	468.93	478.40	461.24	458.89	-
Boat building and repairing	3732	7.95	7.96	7.96	7.97	-	313.23	316.01	312.83	316.41	-
Railroad equipment	374	12.43	12.48	12.03	12.07	-	510.87	510.43	488.42	490.04	-
Guided missiles, space vehicles, and parts	376	12.18	12.25	12.78	12.94	-	516.43	513.28	527.81	546.07	-
Guided missiles and space vehicles	3761	12.49	12.62	13.10	13.26	-	532.07	530.04	538.41	558.25	-
Miscellaneous transportation equipment	379	10.35	10.71	10.49	10.46	-	422.28	448.75	415.40	412.12	-
Travel trailers and campers	3792	8.72	8.84	8.45	8.48	-	340.08	344.76	327.02	322.24	-
Instruments and related products	38	9.47	9.54	9.74	9.79	9.84	383.54	389.23	398.37	405.31	401.47
Engineering and scientific instruments	381	10.20	10.23	10.78	10.84	-	425.34	425.57	443.06	453.11	-
Measuring and controlling devices	382	9.32	9.34	9.60	9.62	-	374.66	379.20	390.72	396.34	-
Environmental controls	3822	8.80	8.76	8.93	9.05	-	343.20	349.52	350.95	360.19	-
Process control instruments	3823	9.47	9.48	9.53	9.48	-	384.48	385.84	394.54	400.06	-
Instruments to measure electricity	3825	9.50	9.49	9.81	9.89	-	380.00	382.45	392.40	405.49	-
Optical instruments and lenses	383	10.43	10.51	10.56	10.48	-	425.54	440.37	439.30	441.21	-
Medical instruments and supplies	384	8.46	8.53	8.67	8.70	-	340.94	346.32	348.53	353.22	-
Surgical and medical instruments	3841	8.61	8.71	8.83	8.79	-	349.57	353.63	355.85	356.00	-
Surgical appliances and supplies	3842	8.35	8.38	8.49	8.60	-	335.67	341.90	340.45	349.16	-
Ophthalmic goods	385	7.22	7.23	7.49	7.49	-	293.13	288.48	301.10	309.34	-
Photographic equipment and supplies	386	12.66	12.93	12.99	13.32	-	516.53	532.72	557.27	578.09	-
Watches, clocks, and watchcases	387	6.88	6.97	7.19	7.17	-	277.26	285.07	294.79	288.23	-
Miscellaneous manufacturing	39	7.51	7.58	7.72	7.71	7.78	294.39	299.41	299.54	303.77	305.75
Jewelry, silverware, and plated ware	391	8.15	8.19	8.22	8.27	-	308.07	318.59	305.78	314.26	-
Jewelry, precious metal	3911	8.14	8.18	8.29	8.39	-	299.55	309.20	301.76	312.11	-
Musical instruments	393	7.25	7.18	7.52	7.47	-	295.08	296.53	308.32	309.26	-
Toys and sporting goods	394	6.90	7.02	7.14	7.16	-	270.48	275.18	275.60	283.54	-
Dolls, games, toys, and children's vehicles	3942.4	6.78	6.81	6.85	6.88	-	261.03	266.27	257.56	265.57	-
Sporting and athletic goods, nec	3949	7.01	7.21	7.37	7.40	-	279.00	282.63	291.12	299.70	-
Pens, pencils, office, and art supplies	395	7.65	7.77	7.67	7.63	-	304.47	312.35	311.40	309.02	-
Costume jewelry and notions	396	6.04	6.08	6.22	6.25	-	233.14	234.69	221.43	231.88	-
Costume jewelry	3961	5.63	5.72	5.81	5.83	-	211.13	213.93	198.12	202.88	-
Miscellaneous manufactures	399	8.23	8.28	8.48	8.50	-	327.55	332.03	338.35	341.70	-
Signs and advertising displays	3993	8.66	8.68	8.79	8.84	-	345.53	350.67	345.45	350.95	-
Nondurable goods		8.94	8.96	9.16	9.11	9.32	358.49	359.30	366.40	368.04	373.73
Food and kindred products	20	8.66	8.65	8.88	8.81	8.95	351.60	349.46	354.31	358.57	364.27
Meat products	201	7.31	7.32	7.40	7.44	-	293.13	296.46	293.04	298.34	-
Meat packing plants	2011	8.25	8.33	8.30	8.40	-	341.55	345.70	338.64	351.96	-
Sausages and other prepared meats	2013	8.75	8.76	8.87	8.76	-	355.25	354.78	362.78	361.79	-
Poultry dressing plants	2016	5.91	5.93	6.12	6.15	-	231.08	236.61	235.01	235.55	-
Dairy products	202	9.44	9.51	9.62	9.60	-	391.76	391.81	399.23	397.44	-
Cheese, natural and processed	2022	8.66	8.86	9.02	8.86	-	353.51	350.86	354.49	349.97	-
Fluid milk	2026	9.91	9.97	10.12	10.08	-	420.18	426.72	428.08	425.38	-
Preserved fruits and vegetables	203	7.81	7.82	8.15	7.96	-	320.21	309.67	309.70	323.97	-
Canned specialties	2032	9.78	9.95	10.25	10.06	-	420.54	440.79	410.00	407.43	-
Canned fruits and vegetables	2033	7.68	7.59	8.11	7.97	-	313.34	296.77	296.83	328.36	-
Frozen fruits and vegetables	2037	6.99	7.10	7.41	7.14	-	278.20	266.25	277.88	287.03	-
Grain mill products	204	10.64	10.50	10.87	10.72	-	467.10	468.30	481.54	473.82	-
Flour and other grain mill products	2041	10.21	10.21	10.84	10.59	-	483.95	496.21	512.73	500.91	-
Prepared feeds, nec	2048	8.17	8.23	8.32	8.32	-	350.49	361.30	366.91	364.42	-
Bakery products	205	9.88	9.96	9.97	9.99	-	392.24	401.39	395.81	397.60	-
Bread, cake, and related products	2051	9.77	9.89	9.98	9.97	-	382.98	392.63	392.21	388.83	-
Cookies and crackers	2052	10.14	10.14	9.97	10.04	-	417.77	423.85	403.79	419.67	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.7	40.9	39.3	40.7		3.4	3.9	2.5	3.3	
Cane and beet sugar	2061-3	42.7	41.5	41.5	42.0		5.5	6.2	4.3	4.6	
Confectionery products	2065	39.5	40.3	37.7	39.8		2.4	3.0	1.7	2.8	
Fats and oils	207	42.8	43.7	41.5	41.1		5.1	5.8	5.0	4.9	
Beverages	208	40.7	40.0	41.2	41.1		4.2	3.7	4.2	4.1	
Malt beverages	2082	42.4	41.5	43.4	42.5		5.5	4.6	5.4	4.8	
Bottled and canned soft drinks	2086	40.4	39.2	41.1	41.6		4.1	3.1	4.4	4.4	
Misc. food and kindred products	209	38.9	38.1	39.2	39.8		4.5	3.8	4.2	4.5	
Tobacco manufactures	21	36.2	38.3	35.5	36.4	35.3	1.1	1.8	1.8	2.0	
Cigarettes	211	36.0	37.0	34.5	36.7	-	1.0	1.5	1.7	2.0	
Textile mill products	22	41.4	41.8	41.6	42.3	41.3	4.4	4.5	4.4	4.7	
Weaving mills, cotton	221	42.4	43.2	42.9	43.7	-	5.9	6.0	6.2	6.6	
Weaving mills, synthetics	222	41.4	41.9	42.2	42.5		4.1	4.3	4.6	4.7	
Weaving and finishing mills, wool	223	40.6	41.5	41.1	41.2		3.6	3.6	1.8	1.2	
Narrow fabric mills	224	40.5	40.5	40.4	40.6		2.9	3.1	3.6	3.8	
Knitting mills	225	39.4	39.4	39.9	40.8		3.2	3.2	3.3	3.5	
Women's hosiery, except socks	2251	38.0	37.5	38.5	39.0		2.7	2.3	3.2	3.3	
Hosiery, nec	2252	38.6	38.6	38.9	40.4		2.4	2.6	3.0	2.9	
Knit outerwear mills	2253	38.5	39.0	39.9	40.8		3.1	3.2	2.8	3.6	
Knit underwear mills	2254	40.0	40.5	38.9	38.8		2.7	2.9	2.4	1.7	
Circular knit fabric mills	2257	42.1	42.1	42.3	42.6		5.0	4.8	5.2	4.8	
Textile finishing, except wool	226	42.8	43.1	42.0	43.2		5.3	5.3	4.4	5.3	
Finishing plants, cotton	2261	43.1	43.5	42.9	43.4		5.3	5.9	4.5	5.2	
Finishing plants, synthetics	2262	42.1	42.2	40.5	42.4		5.5	5.4	3.8	4.7	
Floor covering mills	227	42.9	44.1	43.1	44.0		4.9	5.6	4.0	4.9	
Yarn and thread mills	228	43.0	42.8	42.3	43.0		5.1	5.1	5.1	5.3	
Yarn mills, except wool	2281	43.9	43.7	43.1	43.8		5.7	5.7	5.7	5.9	
Throwing and winding mills	2282	39.1	38.7	37.4	39.2		3.6	3.5	2.5	3.1	
Miscellaneous textile mills	229	42.3	42.8	42.5	42.7		4.1	4.5	4.2	4.7	
Apparel and other textile products	23	36.7	36.8	37.0	37.4	36.0	1.6	1.8	1.7	1.9	
Men's and boys' suits and coats	231	34.3	35.0	35.9	35.8	-	.7	.8	1.0	1.2	
Men's and boys' furnishings	232	37.1	36.8	37.4	37.9		1.3	1.3	1.5	1.8	
Men's and boys' shirts and nightwear	2321	37.1	37.3	37.7	38.1		1.3	1.3	1.5	1.8	
Men's and boys' separate trousers	2327	36.1	36.0	36.9	37.3		.6	.7	.9	1.5	
Men's and boys' work clothing	2328	36.2	35.5	37.2	37.6		1.2	1.1	1.7	2.0	
Women's and misses' outerwear	233	35.0	35.0	35.9	36.2		1.3	1.5	1.6	1.8	
Women's and misses' blouses and waists	2331	35.9	35.7	35.0	35.8		1.4	1.4	.9	1.3	
Women's and misses' dresses	2335	34.4	34.1	35.7	35.4		1.3	1.1	1.6	1.5	
Women's and misses' suits and coats	2337	35.0	35.8	36.6	37.1		1.5	2.0	2.3	2.5	
Women's and misses' outerwear, nec	2339	35.0	35.0	36.0	36.5		1.3	1.5	1.7	1.8	
Women's and children's undergarments	234	38.0	38.3	37.5	38.2		1.7	2.0	1.3	1.6	
Women's and children's underwear	2341	38.3	38.7	38.2	38.5		1.7	2.1	1.3	1.5	
Brassieres and allied garments	2342	36.5	36.1	33.7	36.7		1.8	1.4	1.1	2.0	
Children's outerwear	236	36.7	36.5	38.0	36.2		1.4	1.4	2.0	1.7	
Children's dresses and blouses	2361	35.8	35.2	36.0	34.6		1.3	1.3	1.3	1.0	
Misc. apparel and accessories	238	37.7	37.9	37.8	38.2		1.5	1.9	1.6	1.7	
Misc. fabricated textile products	239	39.4	39.9	38.2	39.3		3.0	3.5	2.4	2.9	
Curtains and draperies	2391	38.2	38.0	37.1	38.5		1.5	2.1	1.2	1.8	
House furnishings, nec	2392	39.6	39.5	38.5	39.4		3.1	3.4	3.0	3.3	
Automotive and apparel trimmings	2396	40.9	42.1	39.1	41.1		5.3	6.0	3.4	4.7	
Paper and allied products	26	43.2	43.2	43.2	43.2	44.2	4.9	5.1	5.2	5.2	
Paper and pulp mills	261,2,6	44.8	45.3	45.6	44.9	-	6.6	6.7	6.8	6.5	
Paper mills, except building paper	262	45.0	45.6	45.7	45.0		6.7	6.9	7.0	6.7	
Paperboard mills	263	43.8	44.0	43.6	43.7		6.5	6.8	7.2	7.2	
Misc. converted paper products	264	42.1	41.6	42.3	42.0		3.5	3.6	4.0	3.9	
Paper coating and glazing	2641	43.0	42.0	44.3	43.9		3.0	3.1	4.5	4.3	
Envelopes	2642	42.1	42.3	41.9	41.4		3.5	3.6	3.1	3.1	
Bags, except textile bags	2643	42.0	42.4	42.1	41.9		4.2	4.4	4.5	4.3	
Paperboard containers and boxes	265	42.8	42.9	41.9	42.8		4.5	4.7	4.4	4.9	
Folding paperboard boxes	2651	42.3	42.4	41.5	42.5		4.0	4.1	4.3	4.6	
Corrugated and solid fiber boxes	2653	44.1	44.3	42.5	43.5		4.9	5.4	4.8	5.4	
Sanitary food containers	2654	41.3	40.3	41.6	41.8		5.0	4.6	4.7	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 workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.05	\$8.88	\$9.39	\$9.31		\$368.34	\$363.19	\$369.03	\$378.92	
Cane and beet sugar	2061-3	10.96	10.48	11.02	11.13		467.99	434.92	457.33	467.46	
Confectionery products	2065	7.70	7.59	8.19	8.07		304.15	305.88	308.76	321.19	
Fats and oils	207	8.99	8.94	9.49	9.47		384.77	390.68	393.84	389.22	
Beverages	208	11.70	11.64	11.81	11.83		476.19	465.60	486.57	486.21	
Malt beverages	2082	16.26	16.19	16.57	16.46		689.42	671.89	719.14	699.55	
Bottled and canned soft drinks	2086	9.16	9.11	9.51	9.49		370.06	357.11	390.86	394.78	
Misc. food and kindred products	209	7.97	8.00	8.13	8.20		310.03	304.80	318.70	326.36	
Tobacco manufactures	21	13.55	12.29	14.85	14.10	\$12.97	490.51	470.71	527.18	513.24	\$457.84
Cigarettes	211	15.84	15.78	17.08	16.73	-	570.24	583.86	589.26	613.99	-
Textile mill products	22	6.97	7.02	7.14	7.17	7.24	288.56	293.44	297.02	303.29	299.01
Weaving mills, cotton	221	7.39	7.45	7.53	7.57	-	313.34	321.84	323.04	330.81	-
Weaving mills, synthetics	222	7.48	7.50	7.69	7.70	-	309.67	314.25	324.52	327.25	-
Weaving and finishing mills, wool	223	7.37	7.42	7.56	7.56	-	299.22	307.93	310.72	311.47	-
Narrow fabric mills	224	6.57	6.65	6.76	6.77	-	266.09	269.33	273.10	274.86	-
Knitting mills	225	6.36	6.41	6.50	6.51	-	250.58	252.55	259.35	265.61	-
Women's hosiery, except socks	2251	6.31	6.34	6.51	6.52	-	239.78	237.75	250.64	254.28	-
Hosiery, nec	2252	6.01	6.06	6.21	6.21	-	231.99	233.92	241.57	250.88	-
Knit outerwear mills	2253	6.33	6.42	6.35	6.36	-	243.71	250.38	253.37	259.49	-
Knit underwear mills	2254	5.87	5.88	6.14	6.08	-	234.80	238.14	238.85	235.90	-
Circular knit fabric mills	2257	6.97	7.00	7.15	7.15	-	293.44	294.70	302.45	304.59	-
Textile finishing, except wool	226	7.34	7.33	7.39	7.41	-	314.15	315.92	310.38	320.11	-
Finishing plants, cotton	2261	7.41	7.46	7.39	7.46	-	319.37	324.51	317.03	323.76	-
Finishing plants, synthetics	2262	7.70	7.68	7.60	7.62	-	324.17	324.10	307.80	323.09	-
Floor covering mills	227	7.29	7.40	7.45	7.48	-	312.74	326.34	321.10	329.12	-
Yarn and thread mills	228	6.55	6.57	6.75	6.83	-	281.65	281.20	285.53	293.69	-
Yarn mills, except wool	2281	6.55	6.59	6.75	6.83	-	287.55	287.98	290.93	299.15	-
Throwing and winding mills	2282	6.52	6.51	6.72	6.86	-	254.93	251.94	251.33	268.91	-
Miscellaneous textile goods	229	7.90	7.92	8.08	8.10	-	334.17	338.98	343.40	345.87	-
Apparel and other textile products	23	5.83	5.91	5.89	5.90	6.04	213.96	217.49	217.93	220.66	217.44
Men's and boys' suits and coats	231	6.58	6.68	6.67	6.63	-	225.69	233.80	239.45	237.35	-
Men's and boys' furnishings	232	5.36	5.40	5.41	5.41	-	198.86	198.72	202.33	205.04	-
Men's and boys' shirts and nightwear	2321	5.13	5.16	5.21	5.25	-	190.32	192.47	196.42	200.03	-
Men's and boys' separate trousers	2327	5.21	5.22	5.26	5.24	-	188.08	187.92	194.09	195.45	-
Men's and boys' work clothing	2328	5.47	5.53	5.56	5.51	-	198.01	196.32	206.83	207.18	-
Women's and misses' outerwear	233	5.62	5.69	5.76	5.73	-	196.70	199.15	206.78	207.43	-
Women's and misses' blouses and waists	2331	5.10	5.09	5.04	5.01	-	183.09	181.71	176.40	179.36	-
Women's and misses' dresses	2335	5.78	5.92	6.11	6.03	-	198.83	201.87	218.13	213.46	-
Women's and misses' suits and coats	2337	6.48	6.51	6.63	6.49	-	226.80	233.06	242.66	240.78	-
Women's and misses' outerwear, nec	2339	5.47	5.53	5.58	5.58	-	191.45	193.55	200.88	203.67	-
Women's and children's undergarments	234	5.33	5.41	5.50	5.52	-	202.54	207.20	206.25	210.86	-
Women's and children's underwear	2341	5.19	5.25	5.34	5.37	-	198.78	203.18	203.99	206.75	-
Brassieres and allied garments	2342	6.09	6.28	6.45	6.41	-	222.29	226.71	217.37	235.25	-
Children's outerwear	236	5.19	5.18	5.29	5.30	-	190.47	189.07	201.02	191.86	-
Children's dresses and blouses	2361	4.95	4.98	5.19	5.21	-	177.21	175.30	186.84	180.27	-
Misc. apparel and accessories	238	5.54	5.61	5.72	5.80	-	208.86	212.62	216.22	221.56	-
Misc. fabricated textile products	239	7.14	7.27	7.02	7.08	-	281.32	290.07	268.16	278.24	-
Curtains and draperies	2391	5.63	5.61	5.71	5.69	-	215.07	213.18	211.84	219.07	-
House furnishings, nec	2392	6.00	6.05	6.11	6.10	-	237.60	238.98	235.24	240.34	-
Automotive and apparel trimmings	2396	11.35	11.58	10.67	10.87	-	464.22	487.52	417.20	446.76	-
Paper and allied products	26	11.19	11.23	11.48	11.41	11.71	483.41	485.14	495.94	492.91	517.58
Paper and pulp mills	261,2,6	13.69	13.75	14.06	13.99	-	613.31	622.88	641.14	628.15	-
Paper mills, except building paper	262	13.78	13.81	14.16	14.09	-	620.10	629.74	647.11	634.05	-
Paperboard mills	263	13.97	14.02	14.37	14.25	-	611.89	616.88	626.53	622.73	-
Misc. converted paper products	264	9.64	9.65	9.96	9.93	-	405.84	401.44	421.31	417.06	-
Paper coating and glazing	2641	10.91	11.08	11.03	11.06	-	469.13	465.36	488.63	485.53	-
Envelopes	2642	8.82	8.88	9.29	9.32	-	371.32	375.62	389.25	385.85	-
Bags, except textile bags	2643	9.03	8.98	9.27	9.29	-	379.26	380.75	390.27	389.25	-
Paperboard containers and boxes	265	9.60	9.61	9.75	9.73	-	410.88	412.27	408.53	416.44	-
Folding paperboard boxes	2651	9.80	9.81	10.18	10.14	-	414.54	415.94	422.47	430.95	-
Corrugated and solid fiber boxes	2653	9.92	9.92	9.95	9.95	-	437.47	439.46	422.88	432.83	-
Sanitary food containers	2654	9.24	9.26	9.38	9.40	-	381.61	373.18	390.21	392.92	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Nondurable goods—Continued											
Printing and publishing	27	38.1	38.3	37.8	38.1	38.4	3.0	3.3	2.8	3.2	
Newspapers	271	33.7	33.6	33.5	33.7	-	1.7	1.8	1.5	1.6	
Periodicals	272	38.2	38.5	38.9	40.0		3.0	3.5	3.3	4.3	
Books	273	40.8	40.6	37.9	38.9		4.0	3.8	3.3	3.3	
Book publishing	2731	38.8	38.8	38.5	38.7		2.8	2.5	2.9	2.7	
Book printing	2732	44.3	43.4	36.9	39.2		6.0	5.9	4.0	4.4	
Miscellaneous publishing	274	36.6	36.6	36.0	36.4		2.0	2.6	2.2	2.5	
Commercial printing	275	39.5	39.7	39.2	39.7		3.6	3.9	3.3	3.8	
Commercial printing, letterpress	2751	38.9	39.1	38.9	39.0		2.8	3.2	2.7	3.1	
Commercial printing, lithographic	2752	39.6	39.9	39.2	39.6		3.8	4.2	3.4	3.9	
Manifold business forms	276	40.9	40.9	41.4	41.1		3.0	3.4	4.1	3.9	
Blankbooks and bookbinding	278	38.3	38.9	38.3	38.3		2.2	2.7	2.3	2.7	
Printing trade services	279	38.9	39.1	38.7	38.6		4.1	4.1	3.8	4.0	
Chemicals and allied products	28	41.7	41.8	41.9	42.1	42.8	3.6	3.8	3.9	4.0	
Industrial inorganic chemicals	281	41.9	42.1	42.2	42.3	-	3.6	3.6	4.1	4.1	
Industrial inorganic chemicals, nec	2819	42.4	42.7	42.6	42.7		3.6	3.8	4.1	4.0	
Plastics materials and synthetics	282	41.8	41.8	42.4	43.0		3.8	3.7	4.4	4.5	
Plastics materials and resins	2821	42.6	42.8	43.0	42.7		4.4	4.5	4.7	4.6	
Organic fibers, noncellulosic	2824	41.6	41.2	42.5	43.9		3.4	2.9	4.0	4.1	
Drugs	283	41.8	42.0	41.0	41.3		3.1	3.2	2.7	2.8	
Pharmaceutical preparations	2834	41.7	41.8	40.9	40.9		3.3	3.2	2.7	2.8	
Soap, cleaners, and toilet goods	284	40.8	40.7	41.0	41.1		3.5	3.6	3.4	3.5	
Soap and other detergents	2841	43.7	43.9	44.5	43.6		5.4	5.6	6.0	5.6	
Polishing, sanitation, and finishing preparations	2842,3	41.9	41.7	41.8	41.4		3.2	3.2	3.3	3.1	
Toilet preparations	2844	38.6	38.6	38.7	39.7		2.6	2.7	2.0	2.5	
Paints and allied products	285	41.2	41.8	42.2	41.9		3.2	3.6	4.3	3.9	
Industrial organic chemicals	286	42.9	43.3	43.5	43.3		4.4	5.0	5.4	5.4	
Cyclic crudes and intermediates	2865	41.5	43.1	42.3	42.2		4.8	5.2	5.4	5.3	
Gum, wood, and industrial organic chemicals, nec	2861,9	43.4	43.4	43.9	43.6		4.3	4.9	5.4	5.5	
Agricultural chemicals	287	41.6	41.5	41.8	41.9		3.7	3.9	3.8	3.5	
Miscellaneous chemical products	289	40.9	41.2	40.7	41.2		3.5	3.8	3.4	3.7	
Petroleum and coal products	29	44.4	44.1	44.6	43.3	43.6	4.8	4.7	5.1	5.0	
Petroleum refining	291	44.2	43.8	44.5	42.7	-	4.0	3.9	4.3	4.0	
Paving and roofing materials	295	46.3	46.5	46.4	46.5		8.3	8.2	8.9	9.1	
Rubber and misc. plastics products	30	41.2	41.6	41.0	41.5	41.1	3.8	4.0	3.9	4.2	
Tires and inner tubes	301	44.1	43.4	44.2	43.8	-	6.3	5.9	6.0	5.9	
Rubber and plastics footwear	302	39.2	39.8	41.9	41.7		2.6	2.5	3.2	2.9	
Reclaimed rubber, and rubber and plastics hose and belting	303,4	42.9	43.1	41.6	42.8		4.4	3.9	4.2	5.3	
Fabricated rubber products, nec	306	41.1	41.3	40.2	41.2		3.3	3.5	3.1	3.7	
Miscellaneous plastics products	307	40.8	41.3	40.7	41.2		3.6	3.9	3.8	4.1	
Leather and leather products	31	36.8	36.7	38.6	38.8	36.0	1.5	1.8	2.1	2.4	
Leather tanning and finishing	311	39.7	40.2	41.1	42.4	-	2.9	2.9	3.0	4.4	
Footwear, except rubber	314	36.1	35.5	39.0	38.5		1.3	1.5	2.3	2.2	
Men's footwear, except athletic	3143	35.9	35.7	38.9	38.7		1.1	1.3	2.0	2.2	
Women's footwear, except athletic	3144	36.5	35.0	39.7	38.5		1.5	1.6	3.0	2.5	
Luggage	316	38.0	38.6	37.7	40.0		1.8	2.0	2.2	2.9	
Handbags and personal leather goods	317	37.3	37.8	36.0	37.5		1.7	2.0	1.6	2.9	
Transportation and public utilities		39.4	39.2	39.4	39.5	39.3					
Railroad transportation:											
Class I railroads ³	4011	44.3	43.7	43.2	42.7						
Local and interurban passenger transit	41	37.0	34.2	36.5	36.8						
Local and suburban transportation	411	38.7	38.1	38.7	38.9						
Intercity highway transportation	413	39.6	38.6	40.2	39.3						
Trucking and warehousing	42	38.6	38.6	38.8	39.0						
Trucking and trucking terminals	421,3	38.6	38.6	38.8	39.0						
Public warehousing	422	38.6	39.2	39.0	38.7						
Pipe lines, except natural gas	46	41.8	41.2	43.5	42.6						

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Nondurable goods—Continued											
Printing and publishing	27	\$10.02	\$10.12	\$10.25	\$10.31	\$10.49	\$381.76	\$387.60	\$387.45	\$392.81	\$402.82
Newspapers	271	9.97	10.06	10.16	10.13	-	335.99	338.02	340.36	341.38	-
Periodicals	272	10.67	10.75	10.70	11.00	-	407.59	413.88	416.23	440.00	-
Books	273	9.16	9.32	9.36	9.37	-	373.73	378.39	354.74	364.49	-
Book publishing	2731	8.59	8.84	8.85	8.95	-	333.29	342.99	340.73	346.37	-
Book printing	2732	10.01	10.02	10.21	10.04	-	443.44	434.87	376.75	393.57	-
Miscellaneous publishing	274	9.01	9.22	9.46	9.57	-	329.77	337.45	340.56	348.35	-
Commercial printing	275	10.33	10.41	10.53	10.59	-	408.04	413.28	412.78	420.42	-
Commercial printing, letterpress	2751	9.88	9.99	10.05	10.09	-	384.33	390.61	390.95	393.51	-
Commercial printing, lithographic	2752	10.49	10.56	10.68	10.75	-	415.40	421.34	418.66	425.70	-
Manifold business forms	276	10.35	10.39	10.89	10.80	-	423.32	424.95	450.85	443.88	-
Blankbooks and bookbinding	278	7.85	7.92	8.11	8.22	-	300.66	308.09	310.61	314.83	-
Printing trade services	279	12.13	12.29	12.44	12.47	-	471.86	480.54	481.43	481.34	-
Chemicals and allied products	28	11.99	12.03	12.37	12.32	12.57	499.98	502.85	518.30	518.67	538.00
Industrial inorganic chemicals	281	13.19	13.22	13.66	13.69	-	552.66	556.56	576.45	579.09	-
Industrial inorganic chemicals, nec	2819	13.31	13.35	13.80	13.81	-	564.34	570.05	587.88	589.69	-
Plastics materials and synthetics	282	12.13	12.17	12.50	12.47	-	507.03	508.71	530.00	536.21	-
Plastics materials and resins	2821	13.08	13.19	13.48	13.54	-	557.21	564.53	579.64	578.16	-
Organic fibers, noncellulosic	2824	11.72	11.70	11.92	11.87	-	487.55	482.04	506.60	521.09	-
Drugs	283	11.21	11.20	11.63	11.67	-	468.58	470.40	476.83	481.97	-
Pharmaceutical preparations	2834	10.96	10.99	11.33	11.43	-	457.03	459.38	463.40	467.49	-
Soap, cleaners, and toilet goods	284	10.64	10.66	10.82	10.63	-	434.11	433.86	443.62	436.89	-
Soap and other detergents	2841	13.80	13.83	14.04	13.96	-	603.06	607.14	624.78	608.66	-
Polishing, sanitation, and finishing preparations	2842,3	10.11	10.11	9.98	9.90	-	423.61	421.59	417.16	409.86	-
Toilet preparations	2844	8.94	8.96	9.22	9.07	-	345.08	345.86	356.81	360.08	-
Paints and allied products	285	10.45	10.51	10.80	10.74	-	430.54	439.32	455.76	450.01	-
Industrial organic chemicals	286	14.44	14.52	14.91	14.84	-	619.48	628.72	648.59	642.57	-
Cyclic crudes and intermediates	2865	14.11	14.20	14.72	14.62	-	585.57	612.02	622.66	616.96	-
Gum, wood, and industrial organic chemicals, nec	2861,9	14.54	14.62	14.96	14.90	-	631.04	634.51	656.74	649.64	-
Agricultural chemicals	287	11.65	11.82	12.01	12.03	-	484.64	490.53	502.02	504.06	-
Miscellaneous chemical products	289	11.10	11.12	11.42	11.39	-	453.99	458.14	464.79	469.27	-
Petroleum and coal products	29	14.06	14.18	14.48	14.51	14.84	624.26	625.34	645.81	628.28	647.02
Petroleum refining	291	15.21	15.41	15.65	15.71	-	672.28	674.96	696.43	670.82	-
Paving and roofing materials	295	11.12	11.05	11.44	11.55	-	514.86	513.83	530.82	537.08	-
Rubber and misc. plastics products	30	8.77	8.72	8.93	8.90	9.07	361.32	362.75	366.13	369.35	372.78
Tires and inner tubes	301	13.91	13.60	14.29	14.19	-	613.43	590.24	631.62	621.52	-
Rubber and plastics footwear	302	5.95	5.97	6.02	6.07	-	233.24	237.61	252.24	253.12	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	8.74	8.67	9.00	9.00	-	374.95	373.68	374.40	385.20	-
Fabricated rubber products, nec	306	8.43	8.44	8.59	8.63	-	346.47	348.57	345.32	355.56	-
Miscellaneous plastics products	307	8.10	8.09	8.26	8.26	-	330.48	334.12	336.18	340.31	-
Leather and leather products	31	5.92	5.95	5.98	6.01	6.21	217.86	218.37	230.83	233.19	223.56
Leather tanning and finishing	311	7.72	7.67	8.09	8.18	-	306.48	308.33	332.50	346.83	-
Footwear, except rubber	314	5.61	5.65	5.69	5.69	-	202.52	200.58	221.91	219.07	-
Men's footwear, except athletic	3143	5.99	6.02	6.14	6.09	-	215.04	214.91	238.85	235.68	-
Women's footwear, except athletic	3144	5.32	5.35	5.31	5.34	-	194.18	187.25	210.81	205.59	-
Luggage	316	6.16	6.14	6.13	6.36	-	234.08	237.00	231.10	254.40	-
Handbags and personal leather goods	317	5.80	5.79	5.84	5.82	-	216.34	218.86	210.24	218.25	-
Transportation and public utilities		11.67	11.77	12.00	12.01	12.10	459.80	461.38	472.80	474.40	475.53
Railroad transportation:											
Class I railroads ³	4011	13.96	13.88	14.34	14.32	-	618.43	606.56	619.49	611.46	-
Local and interurban passenger transit	41	8.20	8.08	8.55	8.54	-	303.40	276.34	312.08	314.27	-
Local and suburban transportation	411	8.51	8.58	9.07	8.91	-	329.34	326.90	351.01	346.60	-
Intercity highway transportation	413	11.57	11.60	11.77	12.04	-	458.17	447.76	473.15	473.17	-
Trucking and warehousing	42	10.64	10.73	10.75	10.71	-	410.70	414.18	417.10	417.69	-
Trucking and trucking terminals	421,3	10.82	10.95	10.92	10.93	-	417.65	422.67	423.70	426.27	-
Public warehousing	422	8.17	8.08	8.40	7.73	-	315.36	316.74	327.60	299.15	-
Pipe lines, except natural gas	46	15.00	15.12	15.04	15.21	-	627.00	622.94	654.24	647.95	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Transportation and public utilities—Continued											
Communication	48	39.9	40.4	40.4	40.3						
Telephone communication	481	41.1	41.8	41.9	41.7						
Radio and television broadcasting	483	36.7	36.8	36.0	36.3						
Electric, gas, and sanitary services	49	41.7	41.7	41.5	41.3						
Electric services	491	41.8	41.7	41.2	41.2						
Gas production and distribution	492	40.5	41.5	40.5	40.4						
Combination utility services	493	42.0	41.7	42.4	41.9						
Sanitary services	495	43.2	43.1	43.1	42.8						
Wholesale trade		38.5	38.3	38.3	38.4	38.1					
Durable goods	50	38.9	38.8	38.7	38.9						
Motor vehicles and automotive equipment	501	38.5	38.2	38.5	38.5						
Furniture and home furnishings	502	36.7	36.6	37.1	37.4						
Lumber and construction materials	503	40.0	40.1	39.8	40.2						
Sporting goods, toys, and hobby goods	504	36.6	36.6	36.4	36.3						
Metals and minerals, except petroleum	505	40.1	40.3	40.5	40.8						
Electrical goods	506	38.5	38.4	38.3	38.5						
Hardware, plumbing, and heating equipment	507	38.8	38.6	38.6	38.6						
Machinery, equipment, and supplies	508	39.3	39.3	39.0	39.1						
Miscellaneous durable goods	509	37.5	37.5	37.8	38.0						
Nondurable goods	51	37.9	37.7	37.7	37.7						
Paper and paper products	511	37.6	37.2	37.1	37.3						
Drugs, proprietaries, and sundries	512	37.4	37.5	37.6	37.9						
Apparel, piece goods, and notions	513	36.8	36.7	36.6	37.1						
Groceries and related products	514	38.4	38.2	38.3	38.1						
Chemicals and allied products	516	39.6	38.9	39.1	39.5						
Petroleum and petroleum products	517	39.3	38.9	39.1	39.0						
Beer, wine, and distilled beverages	518	36.8	36.0	36.0	36.2						
Miscellaneous nondurable goods	519	37.3	37.3	36.9	37.0						
Retail trade		29.9	29.1	30.0	30.2	29.6					
Building materials and garden supplies	52	37.1	36.6	37.4	37.6						
Lumber and other building materials	521	39.1	38.5	39.4	39.4						
Hardware stores	525	33.5	32.9	34.0	34.3						
General merchandise stores	53	29.2	28.7	29.1	29.0						
Department stores	531	29.0	28.5	28.8	28.7						
Variety stores	533	30.0	29.3	30.1	30.3						
Misc. general merchandise stores	539	30.6	30.0	31.8	31.4						
Food stores	54	30.8	30.0	31.1	31.0						
Grocery stores	541	31.1	30.2	31.4	31.2						
Retail bakeries	546	28.8	28.0	28.1	28.2						
Automotive dealers and service stations	55	37.1	36.5	36.9	37.2						
New and used car dealers	551,2	37.6	37.3	37.5	37.7						
Auto and home supply stores	553	40.0	39.5	39.7	40.1						
Gasoline service stations	554	34.9	33.9	34.7	35.1						
Apparel and accessory stores	56	27.5	26.6	28.0	28.2						
Men's and boys' clothing and furnishings	561	30.5	29.7	30.6	30.7						
Women's ready-to-wear stores	562	26.0	25.6	26.6	26.8						
Family clothing stores	565	27.6	26.4	27.9	28.4						
Shoe stores	566	28.9	27.7	29.1	29.2						
Furniture and home furnishings stores	57	33.4	33.1	33.4	33.6						
Furniture and home furnishings stores	571	33.3	33.0	33.4	33.7						
Household appliance stores	572	34.8	33.8	34.5	34.7						
Radio, television, and music stores	573	33.1	33.0	33.2	33.2						
Eating and drinking places ⁴	58	26.5	25.5	26.7	27.2						

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^P	Sept. 1987 ^P
Transportation and public utilities—Continued											
Communication	48	\$12.00	\$12.27	\$12.43	\$12.57		\$478.80	\$495.71	\$502.17	\$506.57	
Telephone communication	481	12.75	12.99	13.21	13.41		524.03	542.98	553.50	559.20	
Radio and television broadcasting	483	10.57	10.82	10.77	10.86		387.92	398.18	387.72	394.22	
Electric, gas, and sanitary services	49	13.35	13.51	13.70	13.74		556.70	563.37	568.55	567.46	
Electric services	491	13.49	13.55	13.83	13.87		563.88	565.04	569.80	571.44	
Gas production and distribution	492	12.41	12.68	12.88	12.96		502.61	526.22	521.64	523.58	
Combination utility services	493	15.54	15.82	16.02	16.00		652.68	659.69	679.25	670.40	
Sanitary services	495	9.77	9.91	10.05	10.17		422.06	427.12	433.16	435.28	
Wholesale trade		9.32	9.37	9.57	9.61	\$9.64	358.82	358.87	366.53	369.02	\$367.28
Durable goods	50	9.43	9.48	9.71	9.76		366.83	367.82	375.78	379.66	
Motor vehicles and automotive equipment	501	8.37	8.47	8.60	8.70		322.25	323.55	331.10	334.95	
Furniture and home furnishings	502	8.68	8.74	8.94	8.96		318.56	319.88	331.67	335.10	
Lumber and construction materials	503	9.07	9.10	9.24	9.33		362.80	364.91	367.75	375.07	
Sporting goods, toys, and hobby goods	504	9.75	9.79	9.78	9.75		356.85	358.31	355.99	353.93	
Metals and minerals, except petroleum	505	10.11	10.15	10.34	10.44		405.41	409.05	418.77	425.95	
Electrical goods	506	9.65	9.69	9.97	10.11		371.53	372.10	381.85	389.24	
Hardware, plumbing, and heating equipment	507	8.95	8.97	9.20	9.27		347.26	346.24	355.12	357.82	
Machinery, equipment, and supplies	508	10.05	10.10	10.39	10.40		394.97	396.93	405.21	406.64	
Miscellaneous durable goods	509	7.54	7.59	7.76	7.77		282.75	284.63	293.33	295.26	
Nondurable goods	51	9.16	9.20	9.38	9.41		347.16	346.84	353.63	354.76	
Paper and paper products	511	9.82	9.93	10.03	10.14		369.23	369.40	372.11	378.22	
Drugs, proprietaries, and sundries	512	10.52	10.49	10.70	10.89		393.45	393.38	402.32	412.73	
Apparel, piece goods, and notions	513	8.73	8.84	9.14	9.13		321.26	324.43	334.52	338.72	
Groceries and related products	514	9.22	9.32	9.49	9.47		354.05	356.02	363.47	360.81	
Chemicals and allied products	516	11.39	11.47	12.08	12.07		451.04	446.18	472.33	476.77	
Petroleum and petroleum products	517	9.78	9.75	9.58	9.58		384.35	379.28	374.58	373.62	
Beer, wine, and distilled beverages	518	11.00	10.83	11.04	11.16		404.80	389.88	397.44	403.99	
Miscellaneous nondurable goods	519	7.49	7.59	7.65	7.70		279.38	283.11	282.29	284.90	
Retail trade		5.97	6.06	6.07	6.06	6.20	178.50	176.35	182.10	183.01	183.52
Building materials and garden supplies	52	6.77	6.89	6.96	7.01		251.17	252.17	260.30	263.58	
Lumber and other building materials	521	7.10	7.21	7.28	7.34		277.61	277.59	286.83	289.20	
Hardware stores	525	5.74	5.80	5.93	5.91		192.29	190.82	201.62	202.71	
General merchandise stores	53	6.27	6.37	6.42	6.42		183.08	182.82	186.82	186.18	
Department stores	531	6.56	6.67	6.73	6.74		190.24	190.10	193.82	193.44	
Variety stores	533	4.71	4.77	4.82	4.75		141.30	139.76	145.08	143.93	
Misc. general merchandise stores	539	4.84	4.91	4.96	4.98		148.10	147.30	157.73	156.37	
Food stores	54	6.92	6.99	6.90	6.82		213.14	209.70	214.59	211.42	
Grocery stores	541	7.08	7.15	7.05	6.96		220.19	215.93	221.37	217.15	
Retail bakeries	546	5.43	5.52	5.57	5.60		156.38	154.56	156.52	157.92	
Automotive dealers and service stations	55	7.72	7.95	7.80	7.88		286.41	290.18	287.82	293.14	
New and used car dealers	551,2	9.56	9.97	9.59	9.74		359.46	371.88	359.63	367.20	
Auto and home supply stores	553	6.50	6.51	6.70	6.71		260.00	257.15	265.99	269.07	
Gasoline service stations	554	5.43	5.41	5.49	5.50		189.51	183.40	190.50	193.05	
Apparel and accessory stores	56	5.30	5.39	5.53	5.53		145.75	143.37	154.84	155.95	
Men's and boys' clothing and furnishings	561	6.18	6.23	6.59	6.51		188.49	185.03	201.65	199.86	
Women's ready-to-wear stores	562	5.06	5.17	5.17	5.20		131.56	132.35	137.52	139.36	
Family clothing stores	565	5.21	5.37	5.51	5.47		143.80	141.77	153.73	155.35	
Shoe stores	566	5.31	5.33	5.54	5.56		153.46	147.64	161.21	162.35	
Furniture and home furnishings stores	57	7.29	7.29	7.52	7.57		243.49	241.30	251.17	254.35	
Furniture and home furnishings stores	571	7.32	7.37	7.58	7.59		243.76	243.21	253.17	255.78	
Household appliance stores	572	7.30	7.35	7.57	7.63		254.04	248.43	261.17	264.76	
Radio, television, and music stores	573	7.25	7.12	7.40	7.50		239.98	234.96	245.68	249.00	
Eating and drinking places ⁴	58	4.32	4.35	4.38	4.39		114.48	110.93	116.95	119.41	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Retail trade—Continued											
Miscellaneous retail	59	30.7	30.2	30.6	30.8						
Drug stores and proprietary stores	591	29.1	28.3	28.7	29.0						
Miscellaneous shopping goods stores	594	29.5	28.7	29.6	29.7						
Nonstore retailers	596	32.9	32.7	33.0	33.1						
Fuel and ice dealers	598	38.2	38.1	38.1	38.3						
Retail stores, nec	599	32.0	31.7	31.8	32.1						
Finance, insurance, and real estate⁵		36.5	36.2	36.2	36.5	36.0					
Banking	60	36.5	36.1	36.1	36.7						
Commercial and stock savings banks	602	36.5	36.1	36.1	36.6						
Credit agencies other than banks	61	37.0	36.6	36.5	37.3						
Savings and loan associations	612	36.3	35.9	35.9	36.4						
Personal credit institutions	614	36.5	36.1	37.2	38.0						
Insurance carriers	63	37.4	37.3	37.1	37.3						
Life insurance	631	36.9	36.7	36.8	36.9						
Medical service and health insurance	632	38.1	38.0	37.5	37.4						
Fire, marine, and casualty insurance	633	37.3	37.2	37.0	37.4						
Services		32.8	32.4	32.8	33.0	32.4					
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	31.7	30.5	31.0	32.0						
Personal services:											
Laundry, cleaning, and garment services	721	34.0	34.0	34.1	34.2						
Beauty shops ⁶	723	29.6	29.1	29.6	29.8						
Business services	73	33.7	33.4	33.6	33.8						
Advertising	731	36.4	36.4	36.6	36.6						
Services to buildings	734	28.8	28.6	28.8	29.0						
Computer and data processing services	737	38.0	37.8	37.6	37.9						
Auto repair, services, and garages	75	38.0	37.4	37.3	37.5						
Automotive repair shops	753	39.1	38.5	38.8	38.7						
Miscellaneous repair services	76	38.1	37.8	38.1	38.3						
Motion pictures	78	28.6	27.8	30.4	30.9						
Motion picture production and services	781	36.0	36.2	38.6	38.5						
Amusement and recreation services	79	30.1	27.9	30.7	30.6						
Health services	80	32.5	32.3	32.6	32.6						
Offices of physicians	801	30.9	31.0	30.8	31.3						
Offices of dentists	802	28.0	27.7	28.3	28.5						
Nursing and personal care facilities	805	31.5	31.4	32.0	32.0						
Hospitals	806	34.4	34.1	34.5	34.4						
Legal services	81	34.9	34.4	34.7	35.0						
Miscellaneous services	89	38.5	38.4	38.3	38.3						
Engineering and architectural services	891	39.7	39.8	39.6	39.6						
Accounting, auditing, and bookkeeping	893	37.0	36.7	36.5	36.3						

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.12	\$6.17	\$6.31	\$6.32		\$187.88	\$186.33	\$193.09	\$194.66	
Drug stores and proprietary stores	591	5.64	5.68	5.88	5.85		164.12	160.74	168.76	169.65	
Miscellaneous shopping goods stores	594	5.70	5.77	5.83	5.87		168.15	165.60	172.57	174.34	
Nonstore retailers	596	7.02	7.06	7.26	7.23		230.96	230.86	239.58	239.31	
Fuel and ice dealers	598	8.58	8.68	8.85	8.87		327.76	330.71	337.19	339.72	
Retail stores, nec	599	6.39	6.40	6.57	6.58		204.48	202.88	208.93	211.22	
Finance, insurance, and real estate⁵		8.34	8.39	8.69	8.79	\$8.80	304.41	303.72	314.58	320.84	\$316.80
Banking	60	7.19	7.23	7.40	7.49		262.44	261.00	267.14	274.88	
Commercial and stock savings banks	602	7.01	7.04	7.18	7.27		255.87	254.14	259.20	266.08	
Credit agencies other than banks	61	7.65	7.67	7.98	8.10		283.05	280.72	291.27	302.13	
Savings and loan associations	612	6.98	7.03	7.39	7.51		253.37	252.38	265.30	273.36	
Personal credit institutions	614	7.22	7.28	7.57	7.65		263.53	262.81	281.60	290.70	
Insurance carriers	63	9.10	9.14	9.63	9.72		340.34	340.92	357.27	362.56	
Life insurance	631	8.65	8.68	9.19	9.24		319.19	318.56	338.19	340.96	
Medical service and health insurance	632	9.01	9.06	9.46	9.54		343.28	344.28	354.75	356.80	
Fire, marine, and casualty insurance	633	9.44	9.47	9.94	10.05		352.11	352.28	367.78	375.87	
Services		8.04	8.19	8.33	8.39	8.51	263.71	265.36	273.22	276.87	275.72
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	5.76	5.98	5.96	5.93		182.59	182.39	184.76	189.76	
Personal services:											
Laundry, cleaning, and garment services	721	5.99	6.00	6.16	6.15		203.66	204.00	210.06	210.33	
Beauty shops ⁴	723	6.21	6.14	6.49	6.51		183.82	178.67	192.10	194.00	
Business services	73	8.37	8.43	8.68	8.72		282.07	281.56	291.65	294.74	
Advertising	731	11.36	11.52	11.73	12.10		413.50	419.33	429.32	442.86	
Services to buildings	734	6.54	6.56	6.80	6.84		188.35	187.62	195.84	198.36	
Computer and data processing services	737	11.61	11.71	12.08	12.21		441.18	442.64	454.21	462.76	
Auto repair, services, and garages	75	7.55	7.57	7.82	7.85		286.90	283.12	291.69	294.38	
Automotive repair shops	753	8.16	8.19	8.40	8.43		319.06	315.32	325.92	326.24	
Miscellaneous repair services	76	8.79	8.84	9.13	9.16		334.90	334.15	347.85	350.83	
Motion pictures	78	11.30	12.13	10.74	11.46		323.18	337.21	326.50	354.11	
Motion picture production and services	781	16.28	16.33	14.89	15.92		586.08	591.15	574.75	612.92	
Amusement and recreation services	79	6.14	6.76	6.32	6.27		184.81	188.60	194.02	191.86	
Health services	80	8.36	8.41	8.68	8.71		271.70	271.64	282.97	283.95	
Offices of physicians	801	8.18	8.21	8.34	8.45		252.76	254.51	256.87	264.49	
Offices of dentists	802	8.28	8.29	8.42	8.48		231.84	229.63	238.29	241.68	
Nursing and personal care facilities	805	5.78	5.81	6.01	5.99		182.07	182.43	192.32	191.68	
Hospitals	806	9.39	9.48	9.84	9.87		323.02	323.27	339.48	339.53	
Legal services	81	11.14	11.22	11.89	12.07		388.79	385.97	412.58	422.45	
Miscellaneous services	89	11.71	11.76	12.04	12.26		450.84	451.58	461.13	469.56	
Engineering and architectural services	891	12.50	12.63	12.80	12.95		496.25	502.67	506.88	512.82	
Accounting, auditing, and bookkeeping	893	10.01	9.94	10.44	10.75		370.37	364.80	381.06	390.23	

¹ 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.

² See table C-2a for average hourly earnings in the aircraft industry (SIC 3721).

³ Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

⁴ Money payments only; tips, not included.

⁵ Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

^p = 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	13.73	13.72	13.68	^P 13.77				
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	14.42	14.39	14.37	^P 14.43				

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

C-3. Average hourly earnings, excluding overtime,¹ of production workers on manufacturing payrolls

Industry	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Manufacturing	\$9.27	\$9.31	\$9.46	\$9.41	\$9.56
Durable goods	9.80	9.84	9.97	9.94	10.06
Lumber and wood products	7.95	7.98	8.07	8.05	(¹)
Furniture and fixtures	7.25	7.28	7.42	7.45	(¹)
Stone, clay, and glass products	9.48	9.51	9.71	9.69	(¹)
Primary metal industries	11.18	11.24	11.33	11.25	(¹)
Fabricated metal products	9.42	9.45	9.53	9.51	(¹)
Machinery, except electrical	10.18	10.17	10.28	10.28	(¹)
Electrical and electronic equipment	9.32	9.35	9.56	9.55	(¹)
Transportation equipment	12.11	12.18	12.27	12.30	(¹)
Instruments and related products	9.19	9.22	9.44	9.45	(¹)
Miscellaneous manufacturing	7.30	7.34	7.50	7.45	(¹)
Nondurable goods	8.56	8.57	8.77	8.70	\$8.87
Food and kindred products	8.20	8.21	8.43	8.33	(¹)
Tobacco manufactures	13.35	12.01	14.47	13.72	(¹)
Textile mill products	6.62	6.66	6.78	6.79	(¹)
Apparel and other textile products	5.70	5.77	5.76	5.75	(¹)
Paper and allied products	10.59	10.61	10.83	10.76	(¹)
Printing and publishing	9.64	9.70	9.88	9.89	(¹)
Chemicals and allied products	11.49	11.51	11.81	11.76	(¹)
Petroleum and coal products	13.33	13.46	13.70	13.73	(¹)
Rubber and misc. plastics products	8.38	8.31	8.52	8.47	(¹)
Leather and leather products	5.80	5.81	5.82	5.83	(¹)

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

² Not available.

³ = 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.

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

Industry	Average hourly earnings					Average weekly earnings				
	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p	Aug. 1986	Sept. 1986	July 1987	Aug. 1987 ^p	Sept. 1987 ^p
Total private:										
Current dollars	\$8.70	\$8.82	\$8.91	\$8.94	\$9.06	\$305.37	\$306.94	\$312.74	\$315.58	\$314.38
Constant (1977) dollars	4.88	4.93	4.82	4.81	(¹)	171.36	171.47	169.14	169.76	(¹)
Mining:										
Current dollars	12.51	12.52	12.31	12.35	\$12.48	529.17	527.09	518.25	526.11	\$520.42
Constant (1977) dollars	7.02	6.99	6.66	6.64	(¹)	296.95	294.46	280.29	283.01	(¹)
Construction:										
Current dollars	12.44	12.59	12.57	12.67	\$12.80	476.45	484.72	485.20	489.06	\$464.64
Constant (1977) dollars	6.98	7.03	6.80	6.82	(¹)	267.37	270.79	262.41	263.08	(¹)
Manufacturing:										
Current dollars	9.68	9.73	9.87	9.86	\$10.02	393.98	398.93	400.72	403.27	\$406.81
Constant (1977) dollars	5.43	5.44	5.34	5.30	(¹)	221.09	222.87	216.72	216.93	(¹)
Transportation and public utilities:										
Current dollars	11.67	11.77	12.00	12.01	\$12.10	459.80	461.38	472.80	474.40	\$475.53
Constant (1977) dollars	6.55	6.58	6.49	6.46	(¹)	258.02	257.75	255.71	255.19	(¹)
Wholesale trade:										
Current dollars	9.32	9.37	9.57	9.61	\$9.64	358.82	358.87	366.53	369.02	\$367.28
Constant (1977) dollars	5.23	5.23	5.18	5.17	(¹)	201.36	200.49	198.23	198.50	(¹)
Retail trade:										
Current dollars	5.97	6.06	6.07	6.06	\$6.20	178.50	176.35	182.10	183.01	\$183.52
Constant (1977) dollars	3.35	3.39	3.28	3.26	(¹)	100.17	98.52	98.49	98.45	(¹)
Finance, insurance, and real estate:										
Current dollars	8.34	8.39	8.69	8.79	\$8.80	304.41	303.72	314.58	320.84	\$316.80
Constant (1977) dollars	4.68	4.69	4.70	4.73	(¹)	170.82	169.68	170.14	172.59	(¹)
Services:										
Current dollars	8.04	8.19	8.33	8.39	\$8.51	263.71	265.36	273.22	276.87	\$275.72
Constant (1977) dollars	4.51	4.58	4.51	4.51	(¹)	147.99	148.25	147.77	148.93	(¹)

¹ 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.

² Not available.

³ = 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 workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

Industry	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	34.7	34.7	34.8	34.6	34.7	34.9	34.8	34.7	34.9	34.8	34.8	34.9	34.6
Mining	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Construction	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Manufacturing	40.8	40.7	40.8	40.8	40.9	41.1	40.9	40.6	41.0	41.0	41.0	41.0	40.4
<i>Overtime hours</i>	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.5	3.8	3.7	3.8	3.8	3.6
Durable goods	41.4	41.3	41.4	41.4	41.6	41.7	41.5	41.2	41.6	41.5	41.6	41.6	40.8
<i>Overtime hours</i>	3.6	3.5	3.5	3.6	3.7	3.7	3.7	3.6	3.9	3.8	3.8	4.0	3.6
Lumber and wood products	40.3	40.4	40.8	40.6	40.8	41.3	40.9	40.6	41.0	40.6	40.6	40.4	39.3
Furniture and fixtures	40.0	39.9	39.8	39.9	40.2	40.2	40.0	39.1	39.9	40.0	40.0	40.1	39.3
Stone, clay, and glass products	42.4	42.3	41.9	42.2	42.5	42.8	42.5	41.9	42.3	42.0	42.2	42.1	41.8
Primary metal industries	42.1	42.3	42.4	42.5	42.6	42.6	42.6	42.3	43.1	43.1	43.4	43.7	43.0
Blast furnaces and basic steel products ..	41.9	42.4	42.5	42.6	42.7	42.3	42.3	42.4	43.3	43.5	44.1	44.3	44.1
Fabricated metal products	41.5	41.3	41.4	41.2	41.6	41.6	41.5	41.2	41.6	41.5	41.4	41.5	40.6
Machinery, except electrical	41.7	41.7	41.7	41.7	42.0	42.2	42.0	41.8	42.2	42.2	42.4	42.2	41.5
Electrical and electronic equipment	41.2	41.0	41.0	41.0	41.0	41.1	40.9	40.6	40.8	41.1	41.1	41.0	40.3
Transportation equipment	42.4	42.1	42.2	42.1	42.3	42.5	42.3	41.9	42.2	41.9	41.7	41.8	41.2
Motor vehicles and equipment	42.7	42.1	42.4	42.4	42.9	43.0	42.9	42.1	42.5	42.0	41.9	41.8	41.3
Instruments and related products	40.7	40.9	41.1	41.1	41.2	41.3	41.3	41.0	41.5	41.5	41.6	41.8	40.8
Miscellaneous manufacturing	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Nondurable goods	39.9	39.9	40.0	40.0	40.1	40.3	40.1	39.7	40.2	40.2	40.3	40.3	39.9
<i>Overtime hours</i>	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.3	3.7	3.6	3.7	3.7	3.7
Food and kindred products	39.8	39.8	40.0	39.8	40.0	40.1	40.0	39.8	40.1	40.1	39.9	40.3	40.1
Tobacco manufactures	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Textile mill products	41.4	41.4	41.4	41.6	41.6	42.0	42.1	41.4	42.0	42.1	42.4	42.1	40.9
Apparel and other textile products	36.8	36.8	36.9	37.0	37.0	37.4	37.0	36.1	37.2	37.1	37.3	37.4	36.0
Paper and allied products	42.9	43.1	43.2	43.2	43.4	43.3	43.0	43.0	43.5	43.3	43.5	43.4	43.9
Printing and publishing	38.0	38.0	38.0	38.0	37.9	38.1	37.9	37.7	37.9	38.1	38.1	37.9	38.1
Chemicals and allied products	41.8	42.0	42.3	42.1	42.2	42.2	42.0	42.2	42.1	42.0	42.2	42.4	42.8
Petroleum and coal products	43.5	43.7	43.8	43.6	44.6	44.0	44.1	43.9	44.3	43.3	44.4	43.1	43.0
Rubber and misc. plastics products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Leather and leather products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Transportation and public utilities	39.1	39.1	39.2	38.9	39.0	39.2	39.0	39.0	39.2	38.8	39.2	39.2	39.2
Wholesale trade	38.2	38.3	38.3	38.2	38.3	38.3	38.1	38.2	38.3	38.2	38.1	38.3	38.0
Retail trade	29.1	29.1	29.2	28.9	29.0	29.3	29.3	29.5	29.4	29.2	29.3	29.5	29.6
Finance, insurance, and real estate	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Services	32.4	32.4	32.5	32.4	32.4	32.6	32.5	32.4	32.5	32.5	32.5	32.6	32.5

¹ 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.

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

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

NOTE: Establishment survey estimates are currently projected from March 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 workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(1977=100)

Industry	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	117.6	117.7	118.2	117.9	118.7	119.7	119.6	119.6	120.2	120.0	120.6	121.2	120.2
Goods-producing	97.8	97.6	97.8	97.8	98.8	99.3	98.9	98.0	99.2	98.9	99.5	99.7	97.4
Mining	80.7	81.0	79.5	79.5	78.9	79.9	80.0	81.3	83.4	83.5	85.0	85.6	83.7
Construction	132.3	131.6	131.1	130.7	136.2	136.2	135.5	132.8	134.3	132.6	133.2	133.6	124.0
Manufacturing	91.9	91.8	92.2	92.3	92.5	93.1	92.8	92.1	93.1	93.1	93.6	93.9	92.9
Durable goods	89.8	89.5	89.8	89.8	90.0	90.6	90.2	89.6	90.5	90.5	90.6	91.3	90.1
Lumber and wood products	98.7	99.2	100.9	101.0	101.5	103.3	102.5	102.0	103.2	101.7	102.4	101.2	98.6
Furniture and fixtures	107.1	106.8	106.3	106.5	107.9	107.9	107.9	105.7	109.0	109.5	111.6	111.7	109.9
Stone, clay, and glass products	86.7	86.1	85.5	86.5	87.3	88.3	87.5	86.3	86.9	86.1	86.1	86.3	86.1
Primary metal industries	60.4	60.7	60.9	61.1	60.4	61.2	61.9	62.1	63.1	63.5	64.4	65.3	65.9
Blast furnaces and basic steel products	46.6	47.7	47.1	46.9	46.1	46.8	47.7	49.6	50.7	51.4	52.6	53.4	54.1
Fabricated metal products	88.9	88.3	88.5	88.3	89.1	89.1	88.9	88.4	89.0	89.1	89.0	89.4	87.9
Machinery, except electrical	85.0	84.4	84.1	83.8	84.2	85.1	84.7	84.8	86.0	86.5	87.0	87.4	86.7
Electrical and electronic equipment	101.3	100.8	101.1	101.5	100.8	100.8	99.9	99.0	99.4	99.9	100.6	100.8	99.3
Transportation equipment	97.5	96.8	97.9	97.2	97.5	98.9	98.2	96.6	97.3	96.6	94.3	97.2	95.2
Motor vehicles and equipment	87.1	84.9	87.0	86.3	87.5	89.0	88.0	85.6	86.1	85.1	81.5	85.8	83.4
Instruments and related products	101.9	101.8	102.1	102.1	101.8	102.0	101.7	101.0	102.0	102.2	103.0	103.3	101.9
Miscellaneous manufacturing	79.3	79.0	80.2	81.0	81.0	81.1	81.1	79.9	81.0	81.4	81.9	82.0	81.0
Nondurable goods	95.0	95.3	95.8	96.0	96.3	96.7	96.5	95.7	97.0	97.0	98.1	97.7	97.0
Food and kindred products	97.6	97.6	98.7	98.5	98.8	99.3	99.4	99.3	99.6	99.3	99.6	99.5	98.9
Tobacco manufactures	76.5	76.9	76.7	75.9	76.3	76.0	77.7	77.3	80.1	76.3	73.1	71.6	62.5
Textile mill products	79.2	79.6	80.1	80.8	81.2	82.3	82.9	81.3	82.9	83.3	84.8	83.7	81.8
Apparel and other textile products	85.0	85.1	85.2	86.3	85.8	86.1	85.3	83.5	85.8	85.9	88.2	86.6	83.9
Paper and allied products	98.9	99.7	100.1	100.5	100.6	100.6	99.7	99.5	100.5	100.0	100.8	100.4	102.8
Printing and publishing	128.4	128.9	129.1	129.4	129.5	130.2	129.4	128.7	130.0	131.1	131.4	131.2	132.1
Chemicals and allied products	92.5	92.8	93.4	92.7	93.2	93.4	93.1	93.4	93.7	92.8	94.5	95.5	97.0
Petroleum and coal products	81.4	81.8	82.0	81.6	84.3	83.1	83.3	82.9	84.5	83.4	84.7	83.0	84.3
Rubber and misc. plastics products	111.6	112.0	112.4	112.7	112.9	113.5	113.5	112.6	114.5	114.8	115.0	115.9	114.9
Leather and leather products	55.2	55.4	55.5	56.7	57.4	57.8	57.8	57.4	59.5	59.7	62.2	61.8	57.8
Service-producing	128.5	128.8	129.6	129.0	129.8	131.0	131.0	131.5	131.9	131.7	132.3	133.1	132.8
Transportation and public utilities	106.1	106.1	107.0	106.5	107.0	107.8	107.7	107.9	108.5	107.6	109.0	109.4	109.6
Wholesale trade	116.8	116.9	116.8	116.4	117.1	117.4	116.9	117.4	117.7	117.6	117.5	118.2	117.2
Retail trade	118.4	118.6	119.2	118.0	118.9	120.4	120.3	121.6	121.2	120.4	121.2	122.0	122.5
Finance, insurance, and real estate	137.8	139.0	140.3	139.8	140.4	141.0	141.5	142.0	142.5	142.7	142.0	143.4	141.5
Services	146.7	146.9	147.9	147.8	148.6	150.1	150.2	150.3	151.2	151.7	152.5	153.2	152.8

¹ 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.

^P = 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 workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1986				1987								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Hourly Earnings Index ² (1977 = 100)													
Total private (in current dollars)	169.8	170.2	171.2	171.1	171.2	171.8	172.2	172.6	172.9	172.9	173.2	174.1	174.7
Mining	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Construction	151.9	153.2	154.7	154.3	152.8	152.4	153.8	153.7	154.1	155.0	154.3	154.7	154.4
Manufacturing	172.7	173.0	173.2	173.4	173.4	173.7	174.3	175.0	174.4	174.7	174.7	175.3	176.9
Transportation and public utilities	171.7	171.9	172.9	173.5	173.6	174.3	174.6	175.2	176.2	175.6	176.4	176.7	176.8
Wholesale trade	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Retail trade	159.0	159.3	159.3	159.3	158.9	158.9	159.0	159.8	160.2	160.3	160.9	161.5	162.5
Finance, insurance, and real estate	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Services	174.7	175.7	177.1	176.6	177.5	178.4	179.0	179.4	179.9	179.9	180.5	182.3	181.7
Total private (in constant dollars) ⁴	95.0	95.1	95.5	95.3	94.7	94.6	94.4	94.2	94.0	93.8	93.7	93.7	(³)
Average hourly earnings													
Total private	\$8.78	\$8.82	\$8.86	\$8.84	\$8.86	\$8.88	\$8.91	\$8.91	\$8.95	\$8.94	\$8.96	\$9.02	\$9.02
Mining	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Construction	\$12.48	\$12.57	\$12.70	\$12.65	\$12.51	\$12.48	\$12.62	\$12.61	\$12.65	\$12.72	\$12.67	\$12.71	\$12.70
Manufacturing	9.75	9.77	9.78	9.79	9.79	9.81	9.83	9.86	9.88	9.88	9.87	9.93	10.04
Transportation and public utilities	11.73	11.77	11.82	11.83	11.86	11.89	11.92	11.96	12.05	11.97	12.04	12.05	12.05
Wholesale trade	9.35	9.40	9.48	9.42	9.47	9.50	9.53	9.52	9.59	9.58	9.59	9.67	9.62
Retail trade	6.05	6.06	6.07	6.09	6.05	6.04	6.05	6.08	6.09	6.10	6.11	6.13	6.19
Finance, insurance, and real estate	8.39	8.43	8.59	8.46	8.59	8.66	8.67	8.69	8.74	8.68	8.74	8.86	8.80
Services	8.18	8.22	8.29	8.25	8.30	8.35	8.38	8.39	8.41	8.40	8.44	8.53	8.49
Average weekly earnings													
Total private:													
In current dollars	304.67	306.05	308.33	305.86	307.44	309.91	310.07	309.18	312.36	311.11	311.81	314.80	312.09
In constant (1977) dollars ⁴	170.59	171.07	171.96	170.40	170.04	170.75	170.09	168.77	169.95	168.71	168.73	169.52	(³)

¹ 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.

² 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.

³ 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.

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

⁵ Not available.

^p = 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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Alabama	41.1	41.2	41.5	\$8.50	\$8.76	\$8.74	\$349.35	\$360.91	\$362.71
Birmingham	40.9	40.8	40.9	8.46	9.14	9.10	346.01	372.91	372.19
Mobile	41.0	42.2	41.1	9.80	10.16	10.24	393.60	428.75	420.86
Alaska	47.2	45.8	45.9	10.09	9.77	10.95	478.25	447.47	502.61
Arizona	41.0	40.8	40.9	9.95	10.00	10.00	407.95	408.00	409.00
Arkansas	40.9	41.1	40.9	7.80	7.95	7.94	319.02	326.75	324.75
Fayetteville-Springdale	39.8	42.0	39.2	6.99	7.18	7.18	278.20	301.56	281.48
Fort Smith	39.3	39.6	39.5	8.29	8.27	8.24	325.80	327.49	325.48
Little Rock-North Little Rock	41.9	40.6	42.1	8.41	8.45	8.39	352.38	343.07	353.22
Pine Bluff	43.4	43.5	44.0	10.14	10.49	10.46	440.08	456.32	460.24
California	40.1	40.0	40.5	10.42	10.79	10.77	417.84	431.80	436.19
Colorado	40.0	40.1	40.4	9.90	10.02	10.16	398.00	401.80	410.48
Denver	40.7	40.9	40.5	11.02	10.67	10.79	448.51	436.40	437.00
Connecticut	41.0	41.8	41.8	10.06	10.43	10.41	412.46	435.97	435.14
Bridgeport-Milford	40.2	41.4	41.0	10.36	10.85	10.78	416.47	449.19	441.98
Hartford	41.1	41.8	41.3	10.22	10.70	10.68	420.04	447.26	441.08
New Britain	41.3	42.9	43.2	10.49	10.77	10.75	433.24	462.03	464.40
New Haven-Meriden	40.6	40.5	40.7	9.61	10.11	10.14	390.17	409.46	412.70
Stamford	40.0	42.9	42.2	10.86	11.30	11.22	434.40	484.77	473.48
Waterbury	41.8	41.8	42.2	8.69	9.04	8.96	363.24	377.87	378.11
Delaware	40.1	39.8	40.6	9.95	10.30	10.48	399.00	409.94	425.49
Wilmington	40.6	40.3	40.2	12.09	12.45	12.47	490.85	501.74	501.29
District of Columbia:									
Washington MSA	38.5	38.7	38.7	10.43	10.68	10.67	401.56	413.32	412.93
Florida	40.6	40.1	40.3	8.04	8.18	8.16	326.42	327.22	328.85
Fort Lauderdale-Hollywood-Pompano Beach	41.2	41.2	40.5	7.79	8.09	8.09	320.95	333.31	327.65
Jacksonville	42.8	40.5	40.6	8.79	8.78	8.83	376.21	355.59	358.50
Lakeland-Winter Haven	38.8	41.2	40.1	7.71	8.04	8.11	299.15	331.25	325.21
Miami-Hialeah	38.7	38.1	39.2	7.10	7.17	7.20	274.77	273.18	282.24
Orlando	41.2	40.6	40.8	8.35	8.38	8.34	344.02	340.23	340.27
Pensacola	42.6	41.7	40.6	9.80	10.12	9.96	417.48	422.00	404.38
Tampa-St. Petersburg-Clearwater	39.8	39.7	40.4	7.48	7.68	7.72	297.70	304.90	311.89
West Palm Beach-Boca Raton-Delray Beach	39.1	40.5	40.8	8.50	8.87	9.18	332.35	359.24	374.54
Georgia	41.2	42.1	41.6	8.28	8.32	8.28	341.14	350.27	344.45
Atlanta	40.3	42.8	41.2	9.97	10.03	9.94	401.79	429.28	409.53
Savannah	45.1	45.6	44.0	10.76	11.02	10.95	485.28	502.51	481.80
Hawaii	39.3	38.7	40.6	8.77	9.26	9.25	344.66	358.36	375.55
Honolulu	38.8	38.3	39.9	8.78	9.46	9.40	340.66	362.32	375.06
Idaho	38.1	36.9	37.7	9.90	9.65	9.70	377.19	356.09	365.69
Illinois	41.1	41.6	41.4	10.72	10.89	10.91	440.59	453.02	451.67
Aurora-Elgin	41.7	41.2	41.9	10.00	10.42	10.44	417.00	429.30	437.44
Bloomington-Normal	40.3	40.6	40.3	10.93	10.72	10.96	440.48	435.23	441.69
Champaign-Urbana-Raptoul	38.8	39.8	39.6	9.14	8.96	8.89	354.63	356.61	352.04
Chicago	41.6	41.4	41.5	10.51	10.64	10.61	437.22	440.50	440.32
Davenport-Rock Island-Moline	41.4	40.8	41.1	12.71	12.87	12.82	526.19	525.10	526.90
Decatur	40.4	41.3	41.0	13.59	13.89	13.75	549.04	573.66	563.75
Joliet	41.6	41.8	42.4	11.12	11.92	11.88	462.59	498.26	503.71
Kankakee	40.2	39.1	38.5	10.03	9.93	9.98	403.21	388.26	384.23
Lake County	40.2	39.0	39.0	10.53	10.85	10.87	423.31	423.15	423.93
Peoria	41.2	43.3	43.3	12.82	13.05	13.05	528.18	565.07	565.07
Rockford	42.8	40.8	41.1	11.19	11.09	11.28	478.93	452.47	463.81
Springfield	41.1	42.2	43.9	11.43	11.76	12.06	469.77	496.27	529.43

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Indiana	41.2	41.5	41.8	\$10.65	\$11.01	\$10.91	\$438.78	\$456.92	\$456.04
Iowa	40.9	41.2	42.0	10.29	10.72	10.58	420.86	441.66	444.36
Cedar Rapids	39.9	39.8	40.5	11.45	12.49	12.13	456.86	497.10	491.27
Des Moines	40.2	41.9	42.3	11.44	11.68	11.99	459.89	489.39	507.18
Dubuque	40.3	41.9	43.4	11.93	12.47	11.96	480.78	522.49	519.06
Sioux City	43.0	39.2	42.5	7.92	8.14	8.11	340.56	319.09	344.68
Kansas	40.3	40.5	41.1	9.76	9.95	9.91	393.33	402.98	407.30
Topeka	41.4	39.8	39.0	10.98	11.13	11.08	454.57	442.97	432.12
Wichita	38.3	40.1	40.4	10.42	11.01	10.90	399.09	441.50	440.36
Kentucky	39.3	39.8	40.1	9.88	10.03	9.99	388.28	399.19	400.60
Lexington-Fayette	37.1	38.6	38.7	10.23	10.43	10.19	379.53	402.60	394.35
Louisville	40.3	40.4	41.4	10.85	11.44	11.64	437.26	462.18	481.90
Louisiana	41.8	41.3	41.6	10.57	10.90	10.80	441.83	450.17	449.28
Baton Rouge	41.5	42.3	41.6	12.40	12.14	12.08	514.60	513.52	502.53
New Orleans	41.5	40.8	41.3	10.60	10.62	10.65	439.90	433.30	439.85
Shreveport	41.0	38.9	39.4	11.03	11.35	11.32	452.23	441.52	446.01
Maine	41.0	40.8	41.7	8.58	8.80	8.65	351.78	359.04	360.71
Lewiston-Auburn	37.7	40.1	39.6	7.39	7.32	7.38	278.60	293.53	292.25
Portland	39.0	38.9	41.3	9.12	9.10	8.77	355.68	353.99	362.20
Maryland	40.5	40.7	41.0	9.88	10.11	9.98	400.14	411.48	409.18
Baltimore MSA	41.1	41.7	42.2	10.29	10.89	10.84	422.92	454.11	457.45
Massachusetts	41.3	40.9	41.3	9.26	9.73	9.80	382.44	397.96	404.74
Boston	40.1	40.0	40.5	10.13	10.67	10.67	406.21	426.80	432.14
Springfield	42.6	42.5	42.2	8.96	9.17	9.19	381.70	389.73	387.82
Worcester	40.1	40.3	40.6	9.39	9.70	9.69	376.54	390.91	393.41
Michigan	41.5	40.8	41.3	12.67	12.78	12.74	525.80	521.42	526.16
Ann Arbor	42.1	41.2	43.2	13.91	13.62	13.72	585.61	561.14	592.70
Battle Creek	41.4	43.0	43.1	13.54	14.30	14.04	560.56	614.90	605.12
Detroit	42.4	41.5	42.4	13.62	13.56	13.61	577.49	562.74	577.06
Flint	41.6	41.9	40.7	14.58	15.52	15.59	606.53	650.29	634.51
Grand Rapids	40.8	38.9	39.6	10.83	10.96	10.96	441.86	426.34	434.02
Jackson	40.5	40.1	41.6	10.04	9.83	10.32	406.62	394.18	429.31
Kalamazoo	42.1	41.1	42.4	11.79	12.05	11.77	496.36	495.25	499.05
Lansing-East Lansing	40.3	43.8	41.0	13.31	14.10	13.86	536.39	617.58	568.26
Muskegon	40.3	39.8	40.1	11.85	11.80	11.79	469.49	469.64	472.78
Saginaw-Bay City-Midland	43.9	42.1	42.2	13.99	14.37	14.31	614.16	604.98	603.88
Minnesota	40.9	40.5	41.3	10.07	10.43	10.37	411.86	422.42	428.28
Duluth	36.6	36.6	36.6	10.91	10.97	11.02	399.31	401.50	403.33
Minneapolis-St. Paul	41.2	40.7	41.4	10.99	11.09	11.12	452.79	451.36	460.37
St. Cloud	39.3	38.3	38.5	9.40	9.33	9.38	369.42	357.34	361.13
Mississippi	40.2	39.9	40.4	7.47	7.54	7.59	300.29	300.85	306.64
Jackson	39.9	39.4	39.3	8.30	8.45	8.45	331.17	332.93	332.09
Missouri	40.6	39.9	40.2	9.68	9.75	9.71	393.01	389.03	390.34
Kansas City	40.9	39.9	40.3	11.11	10.87	10.85	454.40	433.71	437.26
St. Joseph	40.6	40.7	41.3	9.37	9.62	9.91	380.42	391.53	409.28
St. Louis	40.5	40.5	40.2	11.15	11.58	11.57	451.58	468.99	465.11
Springfield	40.9	39.2	38.9	8.87	8.71	8.58	362.78	341.43	333.76
Montana	39.7	38.9	39.1	11.04	10.72	10.71	438.29	417.01	418.76
Nebraska	41.0	39.8	40.8	9.18	9.28	9.37	378.38	369.34	382.30
Lincoln	40.7	40.3	39.5	9.86	9.69	10.08	401.30	390.51	398.16
Omaha	40.9	39.9	40.1	9.79	10.10	10.07	400.41	402.99	403.81
Nevada	40.4	39.4	39.7	9.38	9.79	9.77	378.95	385.73	387.87
Las Vegas	39.1	39.7	39.3	11.14	12.13	12.05	435.57	481.56	473.57

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
New Hampshire	40.9	40.2	42.1	\$8.80	\$9.35	\$9.25	\$359.92	\$375.87	\$389.43
Nashua	41.0	41.1	41.1	10.47	11.48	11.41	429.27	471.83	468.95
New Jersey	41.0	40.8	40.8	10.15	10.50	10.50	416.15	428.40	428.40
New Mexico	38.9	39.5	39.1	8.71	8.94	8.86	338.82	353.13	346.43
Albuquerque	39.3	39.6	39.6	8.90	9.17	9.03	349.77	363.13	357.59
New York	39.7	39.4	39.7	9.84	10.09	9.99	390.65	397.55	396.60
Albany-Schenectady-Troy	39.3	39.7	39.5	10.34	10.50	10.60	406.36	416.85	418.70
Binghamton	40.1	40.2	40.8	9.06	9.24	9.22	363.31	371.45	376.18
Buffalo	42.2	40.8	40.7	11.71	11.92	11.71	494.16	486.34	476.60
Elmira	40.9	40.4	40.4	9.36	9.47	9.42	382.82	382.59	380.57
Glens Falls	41.8	(¹)	(¹)	9.60	(¹)	(¹)	401.28	(¹)	(¹)
Nassau-Suffolk	40.2	40.3	40.0	10.11	10.94	10.91	406.42	440.88	436.40
New York PMSA	37.2	37.0	37.1	9.07	9.58	9.40	337.40	354.46	348.74
New York City	36.9	36.7	36.8	9.02	9.44	9.25	332.84	346.45	340.40
Niagara Falls	41.3	39.7	41.0	12.37	12.38	12.68	510.88	491.49	519.88
Orange County	39.3	37.4	38.4	7.97	7.88	7.86	313.22	294.71	301.82
Poughkeepsie	42.2	41.9	41.2	9.32	9.50	9.45	393.30	398.05	389.34
Rochester	41.6	41.4	41.6	11.87	11.83	11.85	493.79	489.76	492.96
Rockland County	40.2	38.9	40.3	9.38	10.83	10.83	377.08	421.29	436.45
Syracuse	41.6	40.3	41.4	11.35	11.11	11.12	472.16	447.73	460.37
Utica-Rome	40.4	41.4	41.1	9.24	9.64	9.41	373.30	399.10	386.75
Westchester County	39.0	39.2	38.7	9.32	10.25	10.07	363.48	401.80	389.71
North Carolina	40.8	40.6	41.3	7.58	7.82	7.83	309.26	317.49	323.38
Asheville	41.5	42.4	42.5	7.63	7.84	7.84	316.65	332.42	333.20
Charlotte-Gastonia-Rock Hill	42.3	42.7	42.9	7.76	8.06	8.06	328.25	344.16	345.77
Greensboro-Winston-Salem-High Point	40.2	39.6	40.6	8.33	8.67	8.66	334.87	343.33	351.60
Raleigh-Durham	41.5	41.6	42.1	8.64	8.93	8.96	358.56	371.49	377.22
North Dakota	38.1	38.5	38.3	8.21	8.36	8.50	312.80	321.86	325.55
Fargo-Moorhead	36.4	35.7	37.3	8.50	8.31	8.29	309.40	296.67	309.22
Ohio	41.9	41.9	42.4	11.49	11.58	11.62	481.43	485.20	492.69
Akron	43.6	42.1	42.7	11.28	11.15	11.09	491.81	469.42	473.54
Canton	39.9	41.6	41.8	11.24	11.31	11.28	448.48	470.50	471.50
Cincinnati	42.2	42.1	42.7	10.73	10.73	11.03	452.81	451.73	470.98
Cleveland	42.1	41.8	42.4	11.40	11.40	11.51	479.94	476.52	488.02
Columbus	41.0	41.3	41.0	11.26	11.48	11.40	481.66	474.12	467.40
Dayton-Springfield	42.1	41.5	41.9	11.93	11.86	11.87	502.25	492.19	497.35
Toledo	42.2	41.3	42.5	12.32	12.67	12.62	519.90	523.27	536.35
Youngstown-Warren	41.3	42.0	41.8	13.10	12.90	12.97	541.03	541.80	542.15
Oklahoma	41.3	40.9	41.5	9.54	10.15	10.15	394.00	415.14	421.23
Oklahoma City	39.3	40.2	40.1	10.55	10.92	11.22	414.62	438.98	449.92
Tulsa	39.7	41.1	42.1	10.39	10.72	10.58	412.48	440.59	445.42
Oregon	38.7	38.8	39.6	10.31	10.41	10.42	399.00	403.91	412.63
Eugene-Springfield	37.2	37.3	39.6	10.62	10.60	10.61	395.06	395.38	420.16
Portland	39.2	39.8	39.4	10.84	10.67	10.70	424.93	424.67	421.58
Salem	38.2	38.5	38.4	7.89	7.93	8.01	301.40	305.31	307.58

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Pennsylvania	40.2	40.8	41.0	\$9.72	\$9.93	\$9.98	\$390.74	\$405.14	\$409.18
Allentown-Bethlehem	39.5	40.0	39.5	10.19	10.46	10.44	402.51	418.40	412.38
Altoona	38.9	38.9	38.8	8.46	8.73	8.43	329.09	339.80	327.08
Beaver County	39.8	41.2	41.8	11.73	10.94	11.07	466.85	450.73	460.51
Erie	41.6	41.8	42.5	10.15	10.30	10.27	422.24	430.54	436.48
Harrisburg-Lebanon-Carlisle	39.7	39.9	40.4	9.29	9.31	9.44	368.81	371.47	381.38
Johnstown	39.0	39.0	39.1	8.23	8.38	8.29	320.97	326.82	324.14
Lancaster	40.6	40.0	40.1	9.46	9.65	9.89	384.08	386.00	388.57
Philadelphia PMSA	40.2	40.3	40.7	10.38	10.82	10.85	417.28	438.05	441.60
Pittsburgh	39.9	41.1	41.8	10.80	11.27	11.39	430.92	463.20	478.10
Reading	40.6	40.8	41.0	9.98	9.90	9.96	405.19	403.92	408.36
Scranton-Wilkes-Barre	38.8	39.2	39.3	8.59	8.73	8.73	333.29	342.22	343.09
Sharon	39.2	41.3	42.8	11.33	11.22	11.30	444.14	483.39	481.38
State College	39.4	39.0	38.8	8.03	8.13	8.18	316.38	317.07	317.38
Williamsport	39.8	41.1	41.3	8.43	8.42	8.48	335.51	346.06	349.40
York	40.8	43.0	43.2	9.20	9.30	9.41	375.36	399.90	406.51
Rhode Island	40.3	40.0	39.9	7.92	8.25	8.28	319.18	330.00	330.37
Pawtucket-Woonsocket-Attleboro	39.9	40.0	40.0	7.42	7.73	7.75	296.06	309.20	310.00
Providence	39.9	40.0	39.9	7.96	8.20	8.22	317.60	328.00	327.98
South Carolina	41.2	41.5	41.6	7.98	8.10	8.13	328.78	336.15	338.21
Charleston	41.3	41.3	41.2	9.18	9.01	9.00	379.13	372.11	370.80
Columbia	40.5	40.8	41.0	7.81	7.89	7.89	316.30	321.91	323.49
Greenville-Spartanburg	41.4	41.8	41.3	7.79	7.98	7.99	322.51	333.56	329.99
South Dakota	42.4	41.4	41.2	7.71	7.88	7.87	326.90	326.23	324.24
Sioux Falls	46.6	42.7	42.1	7.85	7.70	7.74	365.61	328.79	325.85
Tennessee	41.5	40.8	41.5	8.61	8.89	8.77	357.32	362.71	363.96
Chattanooga	41.3	41.1	41.8	7.72	7.90	7.90	318.84	324.69	330.22
Johnson City-Kingsport-Bristol	44.4	41.7	43.0	9.10	9.33	9.48	404.04	389.06	407.64
Knoxville	40.4	39.4	40.5	8.77	8.93	8.92	354.31	351.84	361.26
Memphis	42.5	42.6	42.5	8.86	8.81	8.56	378.55	375.31	363.80
Nashville	40.5	40.5	39.9	9.78	10.26	9.99	396.09	415.53	398.60
Texas	41.6	41.2	41.6	9.65	9.89	9.86	401.44	407.47	410.18
Dallas	42.5	41.3	41.9	9.46	9.75	9.76	402.05	402.68	408.94
Ft. Worth-Arlington	41.7	40.8	40.8	9.74	9.64	9.91	406.16	393.31	404.33
Houston	42.5	43.2	43.6	11.20	11.12	11.09	476.00	480.38	483.52
San Antonio	40.8	39.6	40.7	7.39	7.79	7.68	301.51	308.48	312.58
Utah	40.4	40.3	40.6	9.91	9.86	9.86	400.36	397.36	400.32
Salt Lake City-Ogden	41.0	40.9	41.0	9.83	9.79	9.89	403.03	400.41	405.49
Vermont	41.0	39.6	41.5	8.89	9.14	9.43	364.49	361.94	391.35
Burlington	42.8	39.7	41.0	9.69	10.06	10.43	414.73	399.38	427.63
Virginia	40.1	40.2	40.6	8.87	8.93	8.91	355.69	358.99	361.75
Bristol	40.5	41.6	40.4	7.44	7.97	7.51	301.32	331.55	303.40
Charlottesville	42.1	40.7	40.8	7.46	7.44	7.44	314.07	302.81	303.55
Darville	41.5	41.8	41.6	8.50	8.52	8.50	352.75	356.14	353.60
Lynchburg	41.5	40.7	42.3	8.42	8.44	8.55	349.43	343.51	361.67
Northern Virginia	41.1	39.3	39.3	9.39	9.70	9.77	385.93	381.21	383.96
Richmond-Petersburg	40.1	40.2	41.1	11.30	11.71	11.79	453.13	470.74	484.57
Roanoke	40.3	40.8	39.1	8.30	8.89	8.77	334.49	354.55	342.91

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Washington	38.8	39.6	39.3	\$11.54	\$11.71	\$11.53	\$447.75	\$463.72	\$453.13
West Virginia	39.6	40.0	40.2	10.45	10.83	10.67	413.82	433.20	428.93
Charleston	41.6	41.4	42.3	12.80	13.39	13.20	532.48	554.35	558.36
Huntington-Ashland	39.7	39.7	39.4	11.75	12.17	12.09	466.48	483.15	476.35
Parkersburg-Marietta	42.3	41.6	40.8	12.25	11.87	11.79	518.18	493.79	481.03
Wheeling	39.9	41.3	40.3	11.52	12.42	11.81	459.65	512.95	475.94
Wisconsin	41.4	41.1	41.5	10.10	10.43	10.29	418.14	428.67	427.04
Appleton-Oshkosh	42.3	41.8	42.5	10.02	10.82	10.71	423.85	452.28	455.18
Eau Claire	42.0	41.7	41.8	10.68	10.85	10.82	448.56	452.45	452.28
Green Bay	42.1	42.0	42.1	10.67	10.94	10.90	449.21	459.48	458.89
Janesville-Beloit	39.5	38.9	39.8	11.01	12.26	10.21	434.90	476.91	406.36
Kenosha	39.2	39.0	40.9	11.35	12.11	11.67	444.92	472.29	477.30
La Crosse	38.6	38.1	38.9	9.25	9.21	9.05	357.05	350.90	352.05
Madison	42.3	40.9	40.2	9.54	9.74	9.63	403.54	398.37	387.13
Milwaukee	41.0	41.2	41.0	11.61	11.73	11.67	476.01	483.28	478.47
Racine	40.7	39.3	40.1	10.79	10.94	10.78	439.15	429.94	432.28
Sheboygan	41.9	41.0	42.3	9.35	9.53	9.41	391.77	390.73	398.04
Wausau	42.3	43.0	42.8	9.71	9.88	9.92	410.73	424.84	424.58
Wyoming	38.4	39.3	37.5	9.80	9.95	9.83	376.32	391.04	368.63
Puerto Rico	39.3	39.2	39.3	5.36	5.38	5.42	210.65	210.90	213.01
Virgin Islands	41.9	42.8	42.3	9.71	9.78	9.72	406.85	417.73	411.16

¹ Not available.

^P = 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) ¹			Percent change		
	July 1987 ^r	Aug. 1987 ^r	Sept. 1987 ^p	Sept. 1986 to Sept. 1987 ^p	July 1987 to Aug. 1987 ^r	Aug. 1987 to Sept. 1987 ^p
Total	189,973	190,693	186,863	0.6	0.4	-2.0
Private sector	156,039	156,818	155,583	2.2	.5	-.8
Mining	1,629	1,662	1,622	1.3	2.0	-2.4
Construction	9,809	9,847	9,167	-5.3	.4	-6.9
Manufacturing	40,550	40,650	40,344	.7	.2	-.8
Durable goods	24,006	24,143	23,931	-.1	.6	-.9
Nondurable goods	16,544	16,508	16,413	1.9	-.2	-.6
Transportation and public utilities	10,950	10,958	10,965	2.8	.1	.1
Wholesale trade	11,498	11,563	11,483	.7	.6	-.7
Retail trade	27,817	28,004	28,156	3.9	.7	.5
Finance, insurance, and real estate	12,456	12,606	12,445	3.5	1.2	-1.3
Services	41,330	41,528	41,401	4.4	.5	-.3
Government	33,934	33,875	31,280	-7.1	-.2	-7.7

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

^p = preliminary.

^r = 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).

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	
			IV	I	II	III	IV	I	II	III	IV	I	II
Business sector													
Output per hour of all persons	107.5	109.5	105.9	106.5	107.2	108.2	107.9	109.5	109.7	109.6	109.6	109.7	110.0
Output	123.9	128.0	120.8	122.2	123.3	124.7	125.3	127.3	127.5	128.1	129.0	130.2	131.1
Hours	115.2	116.9	114.0	114.7	115.0	115.2	116.1	116.3	116.3	116.9	117.8	118.7	119.1
Compensation per hour	175.9	182.8	170.3	172.4	174.6	177.0	179.3	180.7	182.2	183.6	185.2	185.8	187.3
Real compensation per hour	99.1	101.0	98.1	98.5	98.6	99.4	99.7	100.1	101.3	101.4	101.6	100.7	100.3
Unit labor costs	163.6	166.9	160.8	161.9	162.8	163.6	166.1	165.0	166.2	167.5	169.0	169.4	170.2
Unit nonlabor payments	160.3	163.8	157.9	158.7	160.4	161.8	160.2	163.1	163.9	165.7	162.4	166.0	169.1
Implicit price deflator	162.4	165.8	159.8	160.8	162.0	163.0	164.0	164.3	165.4	166.9	166.7	168.2	169.8
Nonfarm business sector													
Output per hour of all persons	105.8	107.5	104.8	105.2	105.7	106.4	105.9	107.7	107.7	107.5	107.5	107.6	107.9
Output	123.6	127.5	120.7	122.0	123.1	124.3	124.9	126.9	127.1	127.6	128.5	129.7	130.7
Hours	116.8	118.6	115.2	115.9	116.4	116.9	117.9	117.9	118.0	118.7	119.6	120.6	121.1
Compensation per hour	175.2	182.0	170.2	172.2	174.1	176.2	178.3	180.0	181.3	182.6	184.4	184.9	186.3
Real compensation per hour	98.7	100.6	98.0	98.4	98.3	98.9	99.2	99.7	100.8	100.9	101.2	100.2	99.7
Unit labor costs	165.6	169.3	162.4	163.6	164.7	165.7	168.3	167.2	168.4	169.8	171.5	171.8	172.6
Unit nonlabor payments	161.3	165.2	158.5	159.5	161.5	163.4	160.8	164.7	165.2	167.0	163.9	167.4	169.3
Implicit price deflator	164.1	167.8	161.0	162.2	163.6	164.9	165.7	166.4	167.3	168.8	168.8	170.3	171.4
Manufacturing													
Output per hour of all persons	124.2	128.8	120.0	121.5	124.0	125.2	126.0	127.6	128.3	129.4	129.9	131.0	132.6
Output	122.5	125.9	119.6	120.7	122.1	123.2	124.1	125.2	125.1	126.1	127.2	128.5	129.6
Hours	98.7	97.8	99.7	99.4	98.5	98.3	98.4	98.1	97.5	97.5	97.9	98.1	97.8
Compensation per hour	176.9	182.7	171.1	173.3	176.1	178.0	180.2	181.0	182.1	183.1	184.3	183.9	184.7
Real compensation per hour	99.6	100.9	98.5	99.0	99.5	99.9	100.2	100.3	101.2	101.2	101.2	99.6	98.9
Unit labor costs	142.4	141.8	142.5	142.7	142.0	142.1	143.0	141.9	142.0	141.5	141.9	140.4	139.3
Durable goods													
Output per hour of all persons	130.1	136.8	123.8	126.3	129.6	131.5	133.1	135.3	135.9	137.5	138.4	139.8	141.2
Output	129.9	134.1	125.2	127.2	129.2	130.7	132.2	133.7	133.1	134.1	135.4	136.8	137.4
Hours	99.8	98.0	101.1	100.7	99.8	99.4	99.4	98.8	98.0	97.5	97.8	97.8	97.3
Compensation per hour	175.4	181.4	169.1	171.4	174.4	176.6	179.4	179.9	180.8	181.6	183.1	182.2	182.9
Real compensation per hour	98.8	100.2	97.3	97.9	98.5	99.2	99.8	99.7	100.5	100.3	100.5	98.7	97.9
Unit labor costs	134.9	132.6	136.5	135.7	134.6	134.3	134.8	132.9	133.1	132.0	132.3	130.3	129.5
Nondurable goods													
Output per hour of all persons	115.1	116.8	114.2	114.0	115.4	115.6	115.3	115.8	116.9	117.3	117.1	117.9	119.8
Output	111.6	113.7	111.4	111.0	111.5	111.9	111.9	112.5	113.3	114.2	114.9	116.2	118.1
Hours	97.0	97.4	97.6	97.4	96.6	96.8	97.1	97.2	96.9	97.3	98.1	98.6	98.5
Compensation per hour	178.9	184.8	174.1	176.1	178.6	180.0	181.2	182.7	184.3	185.8	186.5	186.9	188.2
Real compensation per hour	100.8	102.1	100.2	100.5	100.8	101.0	100.8	101.2	102.4	102.7	102.4	101.2	100.7
Unit labor costs	155.5	158.3	152.5	154.4	154.7	155.6	157.2	157.8	157.7	158.4	159.3	158.5	157.0
Nonfinancial corporations													
Output per all-employee hour	108.2	109.9	106.4	107.0	107.7	109.2	108.9	109.8	109.7	109.9	110.5	109.7	110.0
Output	126.1	129.4	122.7	124.0	125.4	127.4	127.7	129.1	128.8	129.3	130.4	130.9	131.8
Hours	116.5	117.7	115.3	115.9	116.4	116.6	117.3	117.6	117.4	117.6	118.0	119.3	119.8
Compensation per hour	172.8	178.9	168.1	169.9	171.8	173.8	175.7	177.2	178.4	179.5	181.0	180.8	182.0
Real compensation per hour	97.4	98.9	96.8	97.0	97.0	97.6	97.7	98.2	99.1	99.2	99.3	98.0	97.4
Total unit costs	164.4	167.7	162.8	163.6	164.3	163.7	166.0	166.3	167.2	168.5	168.7	169.7	170.7
Unit labor costs	159.7	162.8	158.0	158.9	159.5	159.1	161.4	161.5	162.6	163.2	163.8	164.8	165.4
Unit nonlabor costs	178.3	182.2	176.8	177.5	178.7	177.5	179.4	180.7	180.6	184.2	183.2	184.1	186.4
Unit profits	133.9	129.3	134.2	132.0	132.2	142.5	128.7	129.7	129.5	130.6	127.7	132.2	131.8
Implicit price deflator	160.7	163.1	159.4	159.8	160.5	161.2	161.5	161.9	162.7	164.0	163.8	165.2	166.0

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					
	I 1986	II 1986	III 1986	IV 1986	I 1987	II 1987	I 1986	II 1986	III 1986	IV 1986	I 1987	II 1987
Business sector												
Output per hour of all persons	5.8	0.6	-0.3	-0.1	0.5	1.3	2.8	2.3	1.3	1.5	0.2	0.4
Output	6.4	.7	1.8	3.0	3.5	3.0	4.2	3.4	2.7	2.9	2.3	2.8
Hours .....	.5	.1	2.1	3.1	3.0	1.6	1.3	1.1	1.5	1.4	2.1	2.5
Compensation per hour	3.2	3.5	3.0	3.6	1.4	3.3	4.8	4.4	3.7	3.3	2.8	2.8
Real compensation per hour	1.6	4.8	.5	.9	-3.7	-1.5	1.7	2.7	2.0	1.9	.6	-1.0
Unit labor costs	-2.5	2.8	3.3	3.7	.9	1.9	1.9	2.1	2.4	1.8	2.7	2.4
Unit nonlabor payments	7.5	2.1	4.5	-7.7	9.0	7.8	2.8	2.2	2.4	1.4	1.8	3.2
Implicit price deflator .....	.9	2.6	3.7	-5	3.7	4.0	2.2	2.1	2.4	1.7	2.3	2.7
Nonfarm business sector												
Output per hour of all persons	6.6	.1	-6	.0	.4	1.3	2.3	1.9	1.1	1.5	-1	.3
Output	6.4	.6	1.7	2.9	3.8	3.0	4.0	3.3	2.6	2.9	2.2	2.8
Hours	-2	.6	2.3	2.9	3.4	1.7	1.7	1.4	1.6	1.4	2.3	2.6
Compensation per hour	3.9	2.9	2.8	4.0	1.1	3.0	4.5	4.1	3.6	3.4	2.7	2.7
Real compensation per hour	2.3	4.2	.4	1.3	-3.9	-1.8	1.4	2.5	1.9	2.0	.5	-1.0
Unit labor costs	-2.6	2.8	3.5	4.0	.8	1.7	2.2	2.2	2.5	1.9	2.8	2.5
Unit nonlabor payments	10.0	1.3	4.2	-7.2	8.8	4.7	3.2	2.3	2.2	1.9	1.6	2.5
Implicit price deflator	1.6	2.3	3.7	.0	3.4	2.8	2.6	2.3	2.4	1.9	2.4	2.5
Manufacturing												
Output per hour of all persons	4.9	2.3	3.6	1.4	3.5	4.9	5.0	3.4	3.3	3.0	2.7	3.4
Output	3.6	-.1	3.2	3.4	4.3	3.4	3.7	2.5	2.4	2.5	2.7	3.6
Hours	-1.3	-2.3	-.4	2.0	.8	-1.5	-1.3	-.9	-.9	-.5	.0	.2
Compensation per hour	1.8	2.5	2.2	2.7	-1.0	2.0	4.4	3.4	2.9	2.3	1.6	1.4
Real compensation per hour .....	.2	3.8	-.2	.0	-6.0	-2.8	1.3	1.8	1.2	.9	-.7	-2.3
Unit labor costs	-3.0	.2	-1.3	1.3	-4.4	-2.9	-.5	.0	-.4	-.7	-1.1	-1.9
Durable goods												
Output per hour of all persons	7.0	1.5	5.0	2.6	4.2	4.1	7.1	4.9	4.6	4.0	3.3	4.0
Output	4.4	-1.7	3.2	3.8	4.2	1.7	5.0	3.0	2.6	2.4	2.3	3.2
Hours	-2.4	-3.2	-1.7	1.1	.0	-2.3	-2.0	-1.8	-1.9	-1.5	-.9	-.7
Compensation per hour	1.2	1.9	1.7	3.4	-1.9	1.5	4.9	3.6	2.8	2.1	1.3	1.2
Real compensation per hour	-.4	3.3	-.7	.7	-6.8	-3.2	1.8	2.0	1.1	.7	-.9	-2.5
Unit labor costs	-5.4	.4	-3.1	.8	-5.9	-2.4	-2.0	-1.2	-1.7	-1.9	-2.0	-2.7
Nondurable goods												
Output per hour of all persons	1.7	3.9	1.5	-.6	2.6	6.8	1.5	1.2	1.4	1.6	1.8	2.5
Output	2.3	2.8	3.1	2.7	4.6	6.5	1.3	1.6	2.0	2.7	3.3	4.2
Hours .....	.5	-1.0	1.6	3.3	1.9	-.2	-.2	.4	.6	1.1	1.4	1.6
Compensation per hour	3.2	3.6	3.4	1.5	.7	2.9	3.7	3.2	3.3	2.9	2.3	2.1
Real compensation per hour	1.6	5.0	.9	-1.1	-4.4	-2.0	.6	1.6	1.6	1.6	.1	-1.6
Unit labor costs	1.4	-.2	1.9	2.1	-1.9	-3.7	2.2	1.9	1.8	1.3	.4	-.4
Nonfinancial corporations												
Output per all-employee hour	3.3	-.2	.9	2.1	-2.9	1.2	2.6	1.8	.7	1.5	.0	.3
Output	4.4	-.9	1.6	3.4	1.5	2.8	4.1	2.7	1.5	2.1	1.4	2.4
Hours	1.0	-.6	.7	1.3	4.6	1.6	1.4	.8	.8	.6	1.5	2.0
Compensation per hour	3.5	2.6	2.5	3.5	-.5	2.7	4.3	3.9	3.3	3.0	2.0	2.0
Real compensation per hour	1.8	4.0	.0	.8	-5.5	-2.1	1.2	2.2	1.6	1.6	-.2	-1.7
Total unit costs .....	.9	2.0	3.3	.3	2.4	2.4	1.7	1.7	2.9	1.6	2.0	2.1
Unit labor costs .....	.1	2.9	1.5	1.3	2.5	1.4	1.6	2.0	2.6	1.5	2.1	1.7
Unit nonlabor costs	3.0	-.2	8.2	-2.3	2.2	4.9	1.8	1.0	3.8	2.1	1.9	3.2
Unit profits	3.0	-.5	3.3	-8.5	14.7	-1.2	-1.7	-2.1	-8.4	-.8	1.9	1.8
Implicit price deflator	1.1	1.8	3.3	-.5	3.5	2.0	1.3	1.4	1.7	1.4	2.0	2.1

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		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Alabama	1,909.9	1,900.5	1,901.5	189.5	146.6	137.3	9.9	7.7	7.2
Birmingham	446.9	451.7	450.8	39.6	30.2	28.2	8.9	6.7	6.3
Huntsville	128.4	130.4	130.7	10.1	6.9	6.1	7.9	5.3	4.6
Mobile	215.8	213.5	211.8	22.9	19.6	18.7	10.6	9.2	8.8
Montgomery	136.3	137.8	137.4	10.1	9.1	8.7	7.4	6.6	6.3
Tuscaloosa	69.4	69.0	70.3	5.6	4.4	4.1	8.1	6.3	5.8
Alaska	273.7	265.9	261.1	26.9	25.8	23.9	9.8	9.7	9.1
Arizona	1,581.1	1,605.0	1,614.4	115.9	109.0	97.3	7.3	6.8	6.0
Phoenix	975.6	998.1	1,004.9	56.3	53.6	48.1	5.8	5.4	4.8
Tucson	304.4	305.2	306.9	17.7	15.4	14.1	5.8	5.1	4.6
Arkansas	1,081.9	1,087.5	1,096.5	89.4	86.0	83.6	8.3	7.9	7.6
Fayetteville-Springdale	54.5	56.1	57.3	2.6	2.2	2.1	4.7	3.9	3.7
Fort Smith	87.5	89.5	89.0	6.1	5.3	5.2	7.0	6.0	5.8
Little Rock-North Little Rock	251.8	256.9	257.7	17.4	19.6	18.4	6.9	7.6	7.1
Pine Bluff	38.9	36.3	36.3	3.1	3.3	3.2	7.9	9.1	8.9
California¹	13,541.3	13,980.7	13,891.5	901.8	838.6	750.9	6.7	6.0	5.4
Anaheim-Santa Ana	1,261.0	1,319.0	1,307.3	50.4	45.7	42.1	4.0	3.5	3.2
Bakersfield	227.1	230.8	226.6	24.7	21.4	20.3	10.9	9.3	8.9
Fresno	309.5	301.9	311.4	29.6	28.0	25.1	9.6	9.3	8.1
Los Angeles-Long Beach ¹	4,123.0	4,272.0	4,210.0	322.0	282.0	247.0	7.8	6.6	5.9
Modesto	151.3	153.8	155.1	15.6	17.1	13.8	10.3	11.1	8.9
Oakland	1,029.9	1,065.5	1,063.3	58.0	56.3	51.0	5.6	5.3	4.8
Oxnard-Ventura	330.5	342.6	338.4	24.9	20.7	19.7	7.5	6.0	5.8
Riverside-San Bernardino	849.7	917.9	908.7	57.5	58.9	54.3	6.8	6.4	6.0
Sacramento	655.9	682.5	685.0	35.6	38.0	34.2	5.4	5.6	5.0
Salinas-Seaside-Monterey	155.4	159.6	158.8	11.8	10.5	9.7	7.6	6.6	6.2
San Diego	1,029.9	1,078.0	1,080.2	51.8	52.6	48.4	5.0	4.9	4.5
San Francisco	878.1	894.3	893.9	40.6	36.9	34.1	4.6	4.1	3.8
San Jose	806.0	813.5	806.0	44.3	37.9	33.7	5.5	4.7	4.2
Santa Barbara-Santa Maria-Lompoc	177.8	182.0	181.4	8.3	8.1	7.9	4.7	4.4	4.4
Santa Rosa-Petaluma	184.1	190.3	184.9	9.5	9.3	8.1	5.1	4.9	4.4
Stockton	190.9	189.0	192.4	17.5	18.0	15.0	9.2	9.5	7.8
Vallejo-Fairfield-Napa	186.8	193.6	189.6	11.1	11.3	9.7	5.9	5.8	5.1
Colorado	1,696.5	1,664.6	1,668.4	119.6	118.6	106.6	7.1	7.1	6.4
Boulder-Longmont	129.3	128.2	128.6	7.4	7.0	6.3	5.7	5.5	4.9
Denver	901.4	881.4	886.1	58.2	58.8	53.3	6.5	6.7	6.0
Connecticut	1,749.9	1,784.8	1,796.2	63.9	60.1	56.8	3.6	3.4	3.2
Bridgeport-Milford	229.2	232.4	234.1	10.6	9.5	8.8	4.6	4.1	3.8
Hartford	419.8	432.4	433.1	13.4	12.8	12.7	3.2	3.0	2.9
New Britain	73.9	74.5	74.9	3.0	2.8	2.7	4.1	3.8	3.5
New Haven-Meriden	272.6	279.0	281.3	10.0	9.1	8.9	3.7	3.3	3.2
Stamford	119.5	121.0	121.4	3.2	2.8	2.6	2.7	2.3	2.2
Waterbury	103.8	102.4	103.7	5.2	5.4	4.4	5.0	5.3	4.3
Delaware	333.3	341.1	336.7	12.9	11.7	9.4	3.9	3.4	2.8
Wilmington	283.2	267.1	285.0	13.5	12.7	9.1	4.8	4.4	3.2
District of Columbia	341.2	359.9	358.4	25.8	21.8	21.8	7.6	6.0	6.1
Washington	2,067.2	2,160.6	2,149.5	71.6	71.7	68.6	3.5	3.3	3.2
Florida¹	5,711.2	5,985.4	5,925.3	338.1	355.8	336.4	5.9	5.9	5.7
Daytona Beach	142.5	149.2	148.3	7.5	6.6	7.3	5.2	4.4	4.9
Fort Lauderdale-Hollywood-Pompano Beach	590.2	617.4	610.1	26.0	28.5	28.0	4.4	4.6	4.6
Fort Myers-Cape Coral	123.5	137.0	135.3	5.6	5.6	5.5	4.5	4.1	4.1
Gainesville	101.6	107.1	106.4	3.6	3.5	3.6	3.5	3.2	3.3
Jacksonville	429.0	453.5	449.6	22.3	25.9	23.3	5.2	5.7	5.2
Lakeland-Winter Haven	170.9	181.2	178.1	22.3	21.7	20.6	13.0	12.0	11.6
Melbourne-Titusville-Palm Bay	175.6	180.6	179.3	10.2	10.4	9.5	5.8	5.8	5.3
Miami-Hialeah	913.1	937.1	926.4	61.3	59.6	55.7	6.7	6.4	6.0
Orlando	543.7	580.2	575.6	25.0	28.3	27.0	4.6	4.9	4.7
Pensacola	149.9	153.3	152.6	9.4	9.3	9.7	6.3	6.1	6.4
Sarasota	110.4	115.5	115.0	4.3	4.3	4.0	3.9	3.7	3.5
Tallahassee	119.9	126.3	124.2	4.8	5.3	5.0	4.0	4.2	4.0
Tampa-St. Petersburg-Clearwater	940.1	974.0	962.8	47.2	49.0	47.1	5.0	5.0	4.9
West Palm Beach-Boca Raton-DeLray Beach	373.2	401.6	397.4	26.5	29.2	26.3	7.1	7.3	6.6

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		
	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a	Aug. 1986	July 1987	Aug. 1987 ^a
Georgia	3,088.7	3,078.1	3,082.3	182.9	161.0	155.5	5.9	5.2	5.0
Albany	57.6	54.8	55.5	7.0	4.8	4.9	12.2	8.8	8.8
Athens	72.9	73.0	73.5	3.6	2.8	3.0	4.9	3.9	4.1
Atlanta	1,436.2	1,464.1	1,457.2	68.1	65.8	64.7	4.7	4.5	4.4
Augusta	176.8	176.0	175.5	10.4	9.4	9.2	5.9	5.4	5.3
Columbus	100.5	98.2	98.5	7.3	5.6	5.7	7.3	5.7	5.8
Macon-Warner Robins	129.1	128.1	127.6	7.4	6.1	5.8	5.7	4.8	4.5
Savannah	109.7	109.3	108.3	7.0	6.1	6.2	6.4	5.5	5.7
Hawaii	494.3	510.6	506.8	24.1	20.2	18.9	4.9	4.0	3.7
Honolulu	370.1	382.8	379.2	16.7	13.7	12.9	4.5	3.6	3.4
Idaho	486.8	464.8	477.5	44.5	35.3	33.9	9.1	7.6	7.1
Boise City	103.2	101.6	103.6	5.5	5.5	4.8	5.3	5.5	4.6
Illinois¹	5,751.1	5,874.0	5,864.5	452.7	419.3	398.9	7.9	7.1	6.8
Aurora-Elgin	172.7	178.4	178.0	11.1	9.5	8.5	6.4	5.3	4.8
Bloomington-Normal	62.1	63.9	63.5	2.8	3.0	2.7	4.5	4.6	4.2
Champaign-Urbana-Rantoul	80.9	85.4	82.9	3.7	3.7	3.4	4.6	4.3	4.1
Chicago	3,156.5	3,238.4	3,232.5	231.6	213.1	203.7	7.3	6.8	6.3
Davenport-Rock Island-Moline	184.4	182.3	180.3	17.6	13.3	12.9	9.5	7.3	7.2
Decatur	60.9	59.3	58.9	7.2	5.7	5.4	11.8	9.6	9.1
Joliet	190.4	192.7	191.6	13.1	15.3	13.2	6.9	7.9	6.9
Kankakee	45.2	46.0	45.8	4.0	4.1	3.9	8.9	8.9	8.5
Lake County	258.1	268.0	267.7	12.7	11.1	10.9	4.9	4.1	4.1
Peoria	154.5	156.2	154.5	13.2	11.9	11.1	8.5	7.6	7.2
Rockford	148.5	150.8	151.2	12.5	15.0	13.4	8.4	10.0	8.9
Springfield	112.5	106.9	112.1	6.0	5.3	5.2	5.3	4.9	4.8
Indiana	2,780.1	2,767.6	2,773.8	171.4	171.1	160.7	6.2	6.2	5.8
Anderson	61.3	59.3	60.1	3.7	4.3	4.7	8.1	7.3	7.8
Bloomington	56.0	57.4	58.6	1.9	2.2	2.5	3.4	3.8	4.2
Elkhart-Goshen	89.9	93.7	93.1	3.8	4.9	4.2	4.3	5.2	4.5
Evansville	144.8	142.7	141.9	8.3	10.1	9.1	5.7	7.1	6.4
Fort Wayne	191.1	195.0	195.2	8.7	10.4	9.8	4.6	5.3	5.0
Gary-Hammond	261.0	253.3	250.3	33.7	21.9	20.9	12.9	8.7	8.4
Indianapolis	655.1	663.6	665.6	30.1	34.1	32.2	4.6	5.1	4.8
Kokomo	51.2	50.5	50.8	4.9	4.6	3.6	9.6	9.1	7.2
Lafayette	61.5	62.7	62.2	2.3	2.6	2.4	3.7	4.2	3.9
Muncie	57.3	57.2	56.9	3.6	3.7	3.9	6.3	6.4	6.9
South Bend-Mishawaka	124.7	126.6	124.9	6.5	8.5	6.4	5.2	6.7	5.1
Terre Haute	58.4	56.8	56.8	3.4	3.6	3.3	5.8	6.3	5.8
Iowa	1,439.4	1,448.0	1,414.7	92.6	67.2	65.8	6.4	4.6	4.8
Cedar Rapids	86.7	87.9	86.0	4.6	4.1	4.1	5.3	4.7	4.7
Des Moines	216.3	219.3	217.0	11.3	8.5	8.4	5.2	3.9	3.9
Dubuque	42.3	42.9	42.2	2.8	2.2	2.0	6.7	5.0	4.8
Iowa City	54.4	54.1	54.7	1.3	1.0	1.0	2.4	1.9	1.8
Sioux City	57.7	60.2	57.9	4.2	4.4	3.3	7.3	7.3	5.7
Waterloo-Cedar Falls	68.6	66.5	65.6	11.5	4.4	4.5	16.7	6.6	6.9
Kansas	1,229.6	1,254.0	1,238.0	64.4	55.6	52.6	5.2	4.4	4.2
Lawrence	35.7	36.9	37.3	1.4	1.5	1.3	3.9	4.1	3.4
Topeka	87.4	89.1	88.6	4.2	3.8	3.7	4.8	4.3	4.2
Wichita LMA	223.6	235.7	232.4	13.7	10.6	10.0	6.1	4.5	4.3
Kentucky	1,694.4	1,679.9	1,671.4	145.3	148.7	124.5	8.6	8.9	7.4
Lexington-Fayette	179.3	176.5	176.1	9.4	9.8	7.7	5.3	5.6	4.4
Louisville	494.7	494.3	490.9	31.8	34.7	31.3	6.4	7.0	6.4
Owensboro	45.4	43.6	43.5	4.6	4.8	4.1	10.0	11.1	9.5
Louisiana	2,003.5	1,956.0	1,961.6	275.9	211.9	202.4	13.8	10.8	10.3
Alexandria	61.8	61.4	61.6	6.8	5.7	5.4	11.0	9.3	8.7
Baton Rouge	262.8	264.3	265.4	29.5	24.5	23.5	11.2	9.3	8.9
Houma-Thibodaux	77.8	72.9	72.2	15.4	9.9	9.2	19.8	13.6	12.7
Lafayette	108.1	100.3	100.6	17.2	11.2	10.7	16.0	11.2	10.6
Lake Charles	76.0	77.8	76.7	11.4	9.1	8.8	15.0	11.8	11.5
Monroe	70.3	70.4	70.3	6.8	6.4	6.1	9.6	9.2	8.6
New Orleans	610.6	602.5	604.8	70.1	55.6	54.2	11.5	9.2	9.0
Shreveport	168.6	164.9	163.6	19.6	16.4	15.4	11.6	9.9	9.4
Maine	583.9	605.2	618.8	25.8	29.9	18.7	4.4	4.9	3.0
Lewiston-Auburn	39.9	41.9	42.0	2.5	2.8	1.8	6.3	8.7	4.2
Portland	120.5	124.9	126.9	2.7	3.3	2.1	2.2	2.6	1.7

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Maryland	2,389.7	2,427.7	2,407.5	99.6	102.1	93.4	4.2	4.2	3.9
Baltimore	1,165.1	1,168.9	1,158.6	57.5	52.9	49.5	4.9	4.5	4.3
Massachusetts¹	3,136.7	3,132.0	3,153.4	116.0	79.9	88.7	3.7	2.6	2.8
Boston	1,542.9	1,546.5	1,553.4	50.6	34.1	39.0	3.3	2.2	2.5
Brockton	97.8	97.9	99.4	4.1	2.8	3.2	4.2	2.9	3.2
Fall River	77.4	75.7	78.0	4.3	3.6	3.3	5.5	4.8	4.2
Fitchburg-Leominster	46.6	44.6	45.8	2.4	1.6	1.7	5.1	3.5	3.8
Lawrence-Haverhill	183.8	184.5	186.1	8.8	7.5	7.6	4.8	4.0	4.1
Lowell	152.0	148.1	150.4	6.6	4.1	4.7	4.3	2.8	3.1
New Bedford	87.5	83.7	84.6	4.3	3.4	3.4	4.9	4.1	4.0
Pittsfield	42.8	42.6	43.6	1.5	1.3	1.5	3.5	3.1	3.4
Springfield	251.2	254.1	254.4	10.2	6.3	7.2	4.0	2.5	2.8
Worcester	211.4	212.3	212.8	8.2	5.5	5.8	3.9	2.6	2.7
Michigan¹	4,418.5	4,598.8	4,685.7	348.0	406.9	389.4	7.9	8.8	8.3
Ann Arbor	147.5	156.2	159.4	6.9	7.0	7.4	4.7	4.5	4.7
Battle Creek	62.3	64.2	66.1	5.5	4.9	5.6	8.8	7.7	8.5
Benton Harbor	75.9	78.9	80.2	5.6	5.5	5.6	7.3	7.0	6.9
Detroit	2,136.2	2,249.6	2,275.1	161.9	214.5	192.3	7.6	9.5	8.5
Flint	204.7	204.9	211.6	21.2	26.4	28.9	10.4	12.9	13.7
Grand Rapids	331.8	343.4	351.6	22.9	23.2	22.7	6.9	6.8	6.5
Jackson	61.7	63.3	65.3	5.1	4.8	5.3	8.2	7.6	8.1
Kalamazoo	111.3	115.3	116.9	6.3	7.3	6.4	5.7	6.3	5.5
Lansing-East Lansing	225.3	234.4	241.6	14.5	19.8	18.7	6.4	8.4	7.7
Muskegon	68.2	68.6	71.0	6.5	5.8	6.4	9.6	8.4	9.1
Saginaw-Bay City-Midland	181.2	188.5	194.8	15.6	15.5	15.6	8.6	8.2	8.0
Minnesota	2,223.4	2,270.8	2,261.1	93.0	104.3	103.6	4.2	4.6	4.6
Duluth	100.9	105.0	104.3	7.5	8.7	8.2	7.5	8.3	7.9
Minneapolis-St. Paul	1,318.4	1,348.5	1,346.0	46.5	52.9	53.5	3.5	3.9	4.0
Rochester	55.7	58.9	58.4	1.7	1.9	1.8	3.1	3.3	3.0
St. Cloud	86.4	90.8	89.6	3.8	4.5	4.5	4.4	4.9	5.0
Mississippi	1,171.1	1,158.1	1,158.4	145.8	112.8	113.4	12.4	9.7	9.8
Jackson	196.1	198.5	198.1	16.5	14.2	13.7	8.4	7.2	6.9
Missouri	2,562.7	2,606.3	2,583.0	153.9	173.6	155.7	6.0	6.7	6.0
Kansas City	804.4	823.5	814.7	34.8	50.2	46.2	4.3	6.1	5.7
St. Joseph	41.1	40.9	40.8	2.9	2.9	2.8	6.9	7.1	6.8
St. Louis	1,258.1	1,271.6	1,261.0	93.0	92.6	83.7	7.4	7.3	6.6
Springfield	116.8	119.7	119.6	4.7	5.7	5.6	4.0	4.8	4.7
Montana	418.2	399.9	401.0	28.6	23.4	23.1	6.8	5.9	5.8
Nebraska	811.3	821.3	803.5	33.6	36.3	32.8	4.1	4.4	4.1
Lincoln	116.6	118.3	117.5	3.3	4.1	4.0	2.8	3.5	3.4
Omaha	313.1	314.7	310.4	14.8	15.5	14.4	4.7	4.9	4.7
Nevada	548.4	569.7	567.1	28.5	33.5	32.0	5.2	5.9	5.6
Las Vegas	312.2	329.5	326.8	17.9	21.6	20.1	5.7	6.5	6.1
Reno	138.5	140.7	140.4	5.8	6.7	6.8	4.2	4.8	4.8
New Hampshire	573.8	605.9	611.5	14.5	16.0	12.8	2.5	2.6	2.1
Nashua	91.5	95.9	97.2	2.5	2.5	2.3	2.7	2.6	2.3
Portsmouth-Dover-Rochester	131.1	136.3	136.0	3.4	3.4	2.4	2.6	2.5	1.8
New Jersey¹	3,951.1	4,025.0	4,022.0	176.4	181.5	155.2	4.5	4.5	3.9
Atlantic City	191.1	195.5	196.2	9.0	9.1	8.0	4.7	4.7	4.1
Bergen-Passaic	706.4	713.3	713.1	30.4	29.5	24.3	4.3	4.1	3.4
Jersey City	269.8	270.5	272.3	19.3	19.5	16.5	7.2	7.2	6.1
Middlesex-Somerset-Hunterdon	539.1	550.4	550.5	19.4	19.0	17.0	3.6	3.4	3.1
Monmouth-Ocean	474.5	489.1	488.0	16.0	17.2	14.6	3.4	3.5	3.0
Newark	964.7	980.9	976.4	46.5	46.9	40.7	4.8	4.8	4.2
Trenton	168.2	172.2	172.9	6.8	6.6	6.3	4.0	3.8	3.6
Vineland-Milville-Bridgeton	57.4	58.7	58.4	4.1	4.6	3.8	7.1	7.9	6.5
New Mexico	680.1	677.9	672.2	61.6	58.2	55.9	9.1	8.6	8.3
Albuquerque	255.7	257.6	254.1	16.5	16.2	16.0	6.4	6.3	6.3
Las Cruces	56.1	54.1	55.1	3.9	4.4	4.1	7.0	8.2	7.4
Santa Fe	66.3	68.0	67.3	3.4	3.6	3.6	5.1	5.3	5.3

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
New York¹	8,530.3	8,674.0	8,668.6	500.6	393.6	376.4	5.9	4.5	4.3
Albany-Schenectady-Troy	423.0	428.4	425.6	19.9	14.0	14.7	4.7	3.3	3.5
Binghamton	127.4	128.5	126.7	6.9	4.3	4.3	5.4	3.3	3.4
Buffalo	449.4	456.9	446.2	31.4	24.2	23.2	7.0	5.3	5.2
Elmira	40.6	43.0	42.3	2.4	1.4	1.5	5.9	3.3	3.5
Glens Falls	56.6	59.6	58.6	2.7	1.9	2.1	4.8	3.2	3.7
Nassau-Suffolk	1,443.4	1,472.0	1,449.1	64.0	43.2	48.0	4.4	2.9	3.3
New York	3,875.5	3,954.9	4,011.8	247.8	216.2	190.1	6.4	5.5	4.7
New York City ¹	3,180.0	3,246.0	3,316.0	218.0	195.0	169.0	6.9	6.0	5.1
Orange County	131.1	132.0	130.0	6.2	4.1	4.4	4.8	3.1	3.4
Poughkeepsie	130.7	131.7	131.6	5.0	2.8	3.3	3.8	2.1	2.5
Rochester	501.8	505.6	500.4	27.4	19.4	20.7	5.5	3.8	4.1
Syracuse	322.5	323.6	319.0	22.2	17.0	17.6	6.9	5.3	5.5
Utica-Rome	140.4	139.3	136.2	8.0	5.5	6.0	5.7	3.9	4.3
North Carolina¹	3,252.0	3,389.4	3,351.2	166.6	160.2	139.9	5.1	4.7	4.2
Asheville	66.4	91.2	69.8	4.5	4.3	3.5	5.1	4.7	3.9
Charlotte-Gastonia-Rock Hill	605.1	637.4	635.0	27.6	25.7	22.6	4.6	4.0	3.6
Greensboro-Winston-Salem-High Point	501.9	526.9	518.8	22.2	22.0	19.2	4.4	4.2	3.7
Raleigh-Durham	385.6	407.6	403.7	13.2	13.9	12.3	3.4	3.4	3.1
North Dakota	356.5	347.0	345.2	18.4	13.7	13.0	5.2	4.0	3.8
Bismarck	46.2	45.6	45.4	2.5	1.7	1.5	5.5	3.7	3.3
Fargo-Moorhead	82.0	84.1	82.9	2.7	2.5	2.5	3.3	3.0	3.0
Grand Forks	35.1	35.6	35.0	1.3	1.1	1.4	3.8	3.1	4.0
Ohio¹	5,261.1	5,325.5	5,271.9	422.8	358.0	363.6	8.0	6.7	6.9
Akron	317.2	321.3	319.0	24.7	21.6	23.1	7.8	6.7	7.2
Canton	190.1	189.1	188.8	17.9	14.1	14.8	9.4	7.5	7.8
Cincinnati	730.4	752.9	744.3	47.3	44.4	38.9	6.5	5.9	5.2
Cleveland	945.4	954.0	941.9	72.6	56.6	59.4	7.7	5.9	6.3
Columbus	679.2	697.2	691.9	41.5	35.9	36.6	6.1	5.1	5.3
Dayton-Springfield	463.0	467.3	465.3	30.5	24.8	26.8	6.6	5.3	5.8
Toledo	308.1	315.4	313.0	26.9	22.0	22.4	8.7	7.0	7.1
Youngstown-Warren	226.7	231.2	227.8	25.2	29.8	27.3	11.1	12.9	12.0
Oklahoma	1,599.7	1,567.1	1,553.4	151.3	111.5	101.9	9.5	7.1	6.6
Enid	30.9	29.9	29.7	2.6	1.8	1.8	8.4	6.1	6.1
Lawton	48.0	46.2	47.4	2.5	2.3	2.4	5.3	4.8	5.0
Oklahoma City	520.4	509.3	502.7	49.3	30.0	28.3	9.5	5.9	5.6
Tulsa	363.5	362.0	358.6	32.1	27.4	25.7	8.8	7.6	7.2
Oregon	1,364.9	1,362.6	1,366.0	104.5	76.9	73.4	7.7	5.6	5.4
Eugene-Springfield	132.1	131.4	131.5	10.3	6.7	6.5	7.8	5.1	4.9
Portland	606.7	615.5	617.9	41.7	31.4	30.8	6.9	5.1	5.0
Salem	130.7	131.2	131.4	9.5	7.0	6.5	7.2	5.3	5.0
Pennsylvania¹	5,789.5	5,787.3	5,828.7	366.3	334.7	302.6	6.3	5.8	5.2
Allentown-Bethlehem	323.5	323.5	324.3	20.3	17.3	12.7	6.3	5.3	3.9
Altoona	60.4	59.9	61.0	4.4	4.0	3.6	7.3	6.7	6.0
Beaver County	64.4	64.4	63.8	7.1	7.2	6.5	11.0	11.2	10.1
Erie	131.6	130.2	131.3	11.1	9.8	9.0	8.4	7.6	6.9
Harrisburg-Lebanon-Carlisle	312.8	318.7	322.6	13.0	10.5	9.4	4.2	3.3	2.9
Johnstown	97.0	97.3	98.0	8.9	7.9	7.1	9.1	8.1	7.3
Lancaster	216.7	219.9	224.6	7.0	6.5	5.8	3.2	3.0	2.6
Philadelphia	2,422.6	2,451.3	2,464.8	124.8	122.2	111.5	5.2	5.0	4.5
Pittsburgh	962.3	973.9	975.1	74.8	68.7	65.1	7.6	7.1	6.7
Reading	171.0	170.6	173.2	9.2	7.6	6.6	5.4	4.5	3.8
Scranton-Wilkes-Barre	355.6	350.7	351.3	25.3	24.1	20.9	7.1	6.9	5.9
Sharon	50.4	51.7	51.9	4.0	3.7	3.3	7.9	7.1	6.3
State College	58.2	57.7	59.1	3.2	3.0	2.8	5.5	5.2	4.7
Williamsport	57.3	58.9	59.9	3.3	2.7	2.4	5.8	4.6	4.0
York	211.6	211.5	215.3	10.6	8.7	7.7	5.0	4.1	3.6
Rhode Island	512.9	514.5	520.6	19.9	20.6	18.3	3.9	4.0	3.5
Pawtucket-Woonsocket-Attleboro	167.9	166.1	168.6	8.0	7.2	6.7	4.7	4.3	4.0
Providence	330.6	332.7	336.4	12.7	13.2	11.7	3.8	4.0	3.5
South Carolina	1,634.6	1,653.6	1,653.5	99.9	91.5	80.6	6.1	5.5	4.9
Charleston	221.0	233.3	232.9	10.8	10.7	9.5	4.9	4.6	4.1
Columbia	223.8	229.1	229.0	9.0	9.0	8.3	4.0	3.9	3.6
Greenville-Spartanburg	323.0	330.0	332.3	16.4	14.9	13.4	5.1	4.5	4.0
South Dakota	356.3	362.4	356.9	13.4	14.0	13.4	3.8	3.9	3.8
Rapid City	38.5	39.2	38.5	1.2	1.4	1.6	3.2	3.7	4.0
Sioux Falls	69.0	70.8	69.4	2.1	2.7	2.1	3.1	3.8	3.0

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P	Aug. 1986	July 1987	Aug. 1987 ^P
Tennessee	2,305.6	2,336.2	2,323.6	177.8	165.9	153.5	7.7	7.1	6.6
Chattanooga	198.7	200.8	201.2	13.1	12.2	11.6	6.6	6.1	5.7
Johnson City-Kingsport-Bristol	207.7	213.7	212.0	14.8	15.9	14.8	7.1	7.5	7.0
Knoxville	274.2	278.2	276.9	19.5	18.3	16.7	7.1	6.6	6.0
Memphis LMA	439.0	442.1	440.9	28.8	26.6	25.6	6.6	6.0	5.8
Nashville	502.7	509.2	504.0	24.8	24.5	23.4	4.9	4.8	4.6
Texas¹	8,186.5	8,636.3	8,590.1	745.2	753.8	710.1	9.1	8.7	8.3
Abilene	54.8	57.6	57.2	5.4	4.9	4.5	9.9	8.5	7.9
Amarillo	99.2	105.4	105.6	6.6	7.0	6.8	6.7	6.6	6.4
Austin	414.9	444.9	442.9	23.9	30.7	29.6	5.8	6.9	6.7
Beaumont-Port Arthur	163.6	168.5	167.1	23.9	22.1	20.6	14.6	13.1	12.3
Brazoria	80.8	85.5	85.3	9.3	8.9	8.2	11.5	10.4	9.6
Brownsville-Harlingen	94.9	99.5	99.3	14.2	14.6	13.6	14.9	14.6	13.7
Bryan-College Station	56.2	59.6	58.5	3.8	3.7	3.3	6.8	6.2	5.6
Corpus Christi	164.8	172.2	169.9	20.2	20.6	19.0	12.3	12.0	11.2
Dallas	1,413.4	1,492.5	1,487.6	80.8	100.1	95.8	5.7	6.7	6.4
El Paso	225.6	242.1	242.4	25.1	26.6	25.5	11.1	11.0	10.5
Fort Worth-Arlington	655.7	714.1	712.2	43.1	53.9	50.1	6.6	7.5	7.0
Galveston-Texas City	109.3	113.8	114.4	12.1	12.7	12.5	11.1	11.2	10.9
Houston	1,618.7	1,675.7	1,662.3	176.3	158.1	146.5	10.9	9.3	8.8
Killeen-Temple	90.0	97.5	97.0	7.0	7.8	7.5	7.7	8.0	7.8
Laredo	44.4	47.1	46.1	7.2	7.1	6.6	16.2	15.1	14.2
Longview-Marshall	81.4	83.2	82.5	10.5	9.3	8.7	12.9	11.1	10.6
Lubbock	109.7	115.8	116.0	7.2	7.8	7.3	6.6	6.8	6.3
McAllen-Edinburg-Mission	138.2	148.1	147.3	26.5	26.6	26.1	19.2	18.0	17.7
Midland	52.5	53.2	52.3	6.5	4.9	4.4	12.4	9.2	8.4
Odessa	58.9	58.3	57.3	10.6	6.2	5.5	18.1	10.7	9.7
San Angelo	45.5	47.4	47.1	3.3	2.9	2.8	7.2	6.2	6.0
San Antonio	577.7	629.6	628.2	41.9	52.3	50.1	7.3	8.3	8.0
Sherman-Denison	48.3	51.6	51.6	3.9	4.1	3.9	8.0	8.0	7.5
Texarkana	56.9	59.5	59.1	4.8	5.0	4.7	8.5	8.4	7.9
Tyler	76.4	80.0	79.5	7.2	7.2	6.9	9.4	9.0	8.7
Victoria	38.9	39.9	39.8	4.1	3.5	3.3	10.6	8.7	8.4
Waco	90.1	96.2	95.6	7.1	7.9	7.8	7.9	8.2	8.2
Wichita Falls	56.6	60.4	60.2	4.8	4.6	4.4	8.5	7.7	7.3
Utah	758.7	754.6	756.3	43.2	47.4	45.8	5.7	6.3	6.1
Provo-Orem	95.7	95.9	97.2	6.6	6.4	6.7	6.9	6.7	6.9
Salt Lake City-Ogden	502.8	501.0	500.7	24.7	28.8	27.4	4.9	5.8	5.5
Vermont	296.7	295.5	299.0	11.6	9.5	8.7	3.9	3.2	2.9
Burlington	72.9	74.9	75.9	2.3	1.8	1.8	3.2	2.4	2.4
Virginia	2,881.3	3,015.5	2,994.9	136.7	129.8	123.9	4.7	4.3	4.1
Charlottesville	61.9	63.8	62.7	2.4	1.9	1.9	3.9	3.1	3.0
Danville	49.3	50.1	49.6	4.5	3.2	3.3	9.1	6.5	6.6
Lynchburg	67.9	69.7	69.3	4.1	3.5	3.4	6.0	5.0	4.8
Norfolk-Virginia Beach-Newport News	577.9	603.2	601.2	27.6	28.4	26.8	4.8	4.7	4.5
Richmond-Petersburg	407.6	430.4	426.9	17.2	16.1	15.4	4.2	3.7	3.6
Roanoke	116.5	123.7	123.1	5.2	4.7	5.6	4.5	3.8	4.5
Washington	2,214.6	2,225.1	2,231.9	170.8	157.6	140.7	7.7	7.1	6.3
Seattle	965.9	985.0	987.3	60.8	57.2	52.6	6.3	5.8	5.3
West Virginia	735.9	751.1	739.2	78.1	72.9	67.3	10.6	9.7	9.1
Charleston	115.7	119.3	118.6	9.9	9.7	9.7	8.6	8.1	8.2
Huntington-Ashland	125.9	126.7	125.9	13.1	12.2	11.8	10.4	9.6	9.4
Parkersburg-Marietta	72.1	72.5	72.3	7.1	5.5	5.6	9.9	7.6	7.8
Wheeling	71.3	72.0	71.3	7.2	5.6	5.7	10.1	7.8	8.0
Wisconsin	2,419.9	2,513.2	2,499.9	146.4	129.9	121.0	6.1	5.2	4.8
Appleton-Oshkosh-Neenah	159.8	167.0	167.0	9.1	7.8	7.0	5.7	4.7	4.2
Eau Claire	67.2	71.6	70.5	3.7	3.5	3.3	5.6	4.9	4.7
Green Bay	101.7	104.8	105.3	5.3	5.1	4.7	5.2	4.8	4.5
Janesville-Beloit	68.9	70.6	67.4	8.8	4.6	6.7	12.7	6.5	9.9
Kenosha	50.9	54.3	51.9	4.9	3.6	4.3	9.6	6.6	8.3
La Crosse	48.8	51.5	51.5	2.4	2.2	1.9	4.9	4.3	3.7
Madison	203.7	213.6	213.4	8.2	7.6	6.6	4.0	3.6	3.1
Milwaukee	709.8	735.7	738.3	40.6	35.2	33.3	5.7	4.8	4.5
Racine	84.9	86.8	86.1	6.6	5.8	5.8	7.8	6.7	6.7
Sheboygan	52.9	56.0	56.1	2.8	3.1	2.5	5.3	5.5	4.5
Wausau	58.4	61.3	61.0	3.4	3.0	2.7	5.8	5.0	4.5
Wyoming	255.1	247.2	247.6	19.5	17.2	16.2	7.6	7.0	6.5

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

² Not available.

^P = preliminary.

NOTE: Data refer to place of residence. Estimates for 1986 have been

benchmarked to 1986 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

¹ Beginning in May 1956, these areas were chosen to provide coverage in each State and the District of Columbia

² 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			
			Occupation—Continued		
			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
			Industry		
			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
Occupation					
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 ¹								
	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					

¹ 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 ¹							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	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			

¹ See footnote 1, table D.

² 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:

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

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the 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 non-manufacturing 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. ¹	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. ²	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. ²	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. ²	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. ²	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.

¹ 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.

² 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

¹Less 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 1986¹

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 ²	5,000	2,908,000	100
State	4,800	3,194,000	80
Local	14,700	6,276,000	62

¹ 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.

² 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 ¹	Relative error ²	
		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 ³ . . . . .	.4	—	—

¹ The average percent revision in employment for the 1982-86 benchmarks.

² Relative errors relate to 1982 data.

³ 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 ¹	Relative error ² (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

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to 1982 data.

Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same

establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

Table Q. Errors of preliminary employment estimates

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total	110,800	104,900	Nondurable goods—Continued		
Total private ¹	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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