



EMPLOYMENT AND EARNINGS

October 1988

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Bureau of Labor Statistics





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Calendar of Features

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

Household data

Annual averages Jan.
Union affiliation Jan.

Revised seasonally adjusted series Jan., Feb.

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

Establishment data

National annual averages:

Industry divisions (preliminary) Jan.

Industry detail (final) Mar.

Women employees (final) Mar.

National data revised to reflect new benchmarks and new seasonal adjustment factors June

Revised historical national data Supplement¹

State and area annual averages May

Area definitions May

State and area labor force data

Annual averages May

¹ The latest supplement was published in August 1988.

Employment and Earnings

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Employment and Unemployment Developments, September 1988

Employment rose and unemployment edged down in September. Both the overall and civilian worker jobless rates, which had risen slightly in August, fell two-tenths of a percentage point to 5.3 and 5.4 percent, respectively.

Nonfarm payroll employment, as measured by the monthly survey of business establishments, rose by 255,000 to 106.7 million in September. More than 100,000 of this increase occurred in government employment, largely related to gains in public education. Total civilian employment, as measured by the monthly survey of households, edged up to 115.3 million.

Unemployment

After rising slightly in August, both the level and rate of unemployment eased back down in September. The number of unemployed persons fell by 250,000 in September to 6.6 million, and the civilian worker unemployment rate declined from 5.6 to 5.4 percent, seasonally adjusted. Both of these measures have moved within relatively narrow ranges most of this year. (See table A-33.)

Adult men accounted for the over-the-month decline in unemployment as their jobless rate returned to the July level of 4.5 percent. In contrast, the rates for adult women (4.8 percent), teenagers (15.7 percent), whites (4.8 percent), and blacks (10.8 percent) showed little or no change over the month. The jobless rate for Hispanics dropped by a percentage point to 7.4 percent. (See tables A-33 and A-34.)

The median duration of unemployment declined slightly over the month to 5.5 weeks. The number of persons working part time for economic reasons—persons often referred to as the partially unemployed—was little changed at 5.1 million. (See tables A-40 and A-35.)

Civilian employment and the labor force

Total civilian employment edged up to 115.3 million, and the employment-population ratio was at a high of 62.4 percent. The civilian labor force numbered 121.9 million. Labor force growth has been relatively slow thus far in 1988. (See table A-33.)

Discouraged workers

In the third quarter of 1988, there were 930,000 discouraged workers—persons who want to work but have

not looked for jobs because they believe they could not find any. Their number was about the same as in the second quarter of 1988. More than half of the discouraged total were women, and a third were black. (See table A-53.)

Industry payroll employment

Employment in nonagricultural establishments was up by 255,000 in September to a level of 106.7 million, seasonally adjusted. This job gain was slightly larger than those posted in the previous 2 months but much smaller than the average increase of 345,000 experienced during the first half of the year. Employment growth in September was concentrated in the service-producing sector, particularly in government. For the second straight month, private industries posted a small employment gain; increases averaged only 120,000, compared with over 300,000 a month in the first 7 months of the year. (See table B-4.)

In the service-producing sector, government jobs increased by 115,000, seasonally adjusted, paced by strong fall hiring in state and local education. Employment in the services industry showed a relatively modest employment increase of 65,000 in September. Health services jobs, which have risen by 430,000 over the year, accounted for most of the services increase. In contrast, business services, one of the strongest performers throughout the expansion, has shown little growth in the last 2 months. Wholesale trade continued its pattern of consistent job growth with an increase of 25,000 jobs. The transportation and public utilities industry also added 25,000 jobs, concentrated in the transportation component. Employment in the other private service sector industries—retail trade, and finance, insurance, and real estate—was little changed in September.

In the goods-producing sector, factory employment edged down for the second consecutive month, after having risen consistently over the prior year and a half. Small job gains in machinery and autos were more than offset by small but widespread declines in other manufacturing industries. In the construction industry, the number of jobs was also little changed, while employment in the oil and gas component of the mining industry has edged down over the last 2 months.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged up by 0.1

hour to 34.7 hours in September, seasonally adjusted, following a sharp decline in the previous month. The factory workweek rose by 0.2 hour to 41.2 hours, and manufacturing overtime edged up 0.1 hour to 4.0 hours. Both factory hours and overtime continue to be quite high by historical standards. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 126.0 (1977=100), rose 0.4 percent, seasonally adjusted. The index for manufacturing was also up by 0.4 percent, to 96.5. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers increased 0.5 percent in September, seasonally adjusted. Average weekly earnings rose 0.8

percent. Prior to seasonal adjustment, average hourly earnings increased 15 cents to \$9.40, while average weekly earnings were up by \$3.37 to \$327.12. (See tables C-1 and C-7.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 180.4 (1977=100) in September, seasonally adjusted, an increase of 0.5 percent from August. For the 12 months ended in September, the increase was 3.3 percent. In dollars of constant purchasing power, the HEI decreased 0.8 percent during the 12-month period ended in August. The HEI is computed so as to exclude the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. (Beginning in 1989, the Hourly Earnings Index will no longer be published in this publication.) (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 4	January	February 3
November	December 2	February	March 10
December	January 6	March	April 7

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1954 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												
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	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 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	
1987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
Monthly data, seasonally adjusted²												
1987:												
September	184,904	121,706	65.8	114,615	1,743	112,872	3,184	109,688	7,091	5.8	63,198	
October	185,052	122,128	66.0	114,951	1,741	113,210	3,249	109,961	7,177	5.9	62,924	
November	185,225	122,349	66.1	115,259	1,755	113,504	3,172	110,332	7,090	5.8	62,876	
December	185,370	122,472	66.1	115,494	1,750	113,744	3,215	110,529	6,978	5.7	62,898	
1988:												
January	185,571	122,924	66.2	115,878	1,749	114,129	3,293	110,836	7,046	5.7	62,647	
February	185,705	123,084	66.3	116,145	1,736	114,409	3,228	111,182	6,938	5.6	62,821	
March	185,847	122,639	66.0	115,839	1,736	114,103	3,204	110,899	6,801	5.5	63,208	
April	185,964	123,055	66.2	118,445	1,732	114,713	3,228	111,485	6,610	5.4	62,909	
May	186,088	122,692	65.9	115,909	1,714	114,195	3,035	111,160	6,783	5.5	63,396	
June	186,247	123,157	66.1	116,703	1,685	115,018	3,085	111,933	6,455	5.2	63,090	
July	186,402	123,357	66.2	116,732	1,673	115,059	3,046	112,014	6,625	5.4	63,045	
August	186,522	123,723	66.3	116,872	1,692	115,180	3,151	112,029	6,851	5.5	62,799	
September	186,666	123,628	66.2	117,032	1,704	115,328	3,169	112,158	6,596	5.3	63,038	

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, 1977 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												
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	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 ¹	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
Monthly data, seasonally adjusted²												
1987:												
September	88,683	67,776	76.4	63,949	1,581	62,368	2,547	59,821	3,827	5.6	20,907	
October	88,756	67,947	76.6	64,048	1,580	62,468	2,569	59,899	3,899	5.7	20,809	
November	88,849	68,019	76.6	64,174	1,593	62,581	2,491	60,090	3,845	5.7	20,830	
December	88,924	68,030	76.5	64,245	1,589	62,656	2,523	60,133	3,785	5.6	20,894	
1988:												
January	89,033	68,243	76.6	64,396	1,588	62,808	2,593	60,216	3,847	5.6	20,790	
February	89,099	68,343	76.7	64,636	1,577	63,059	2,510	60,548	3,707	5.4	20,756	
March	89,168	68,148	76.4	64,332	1,573	62,759	2,474	60,285	3,816	5.6	21,020	
April	89,225	68,445	76.7	64,892	1,569	63,323	2,467	60,856	3,553	5.2	20,780	
May	89,287	68,318	76.5	64,583	1,553	63,030	2,391	60,639	3,736	5.5	20,969	
June	89,367	68,429	76.6	64,934	1,523	63,411	2,422	60,988	3,495	5.1	20,938	
July	89,445	68,521	76.6	65,002	1,512	63,490	2,471	61,019	3,519	5.1	20,924	
August	89,504	68,723	76.8	64,954	1,529	63,425	2,526	60,899	3,768	5.5	20,781	
September	89,577	68,608	76.6	65,052	1,540	63,512	2,489	61,023	3,555	5.2	20,970	
Annual averages												
WOMEN												
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	
1987	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
Monthly data, seasonally adjusted²												
1987:												
September	96,221	53,930	56.0	50,666	162	50,504	637	49,867	3,264	6.1	42,291	
October	96,295	54,181	56.3	50,903	161	50,742	680	50,062	3,278	6.1	42,114	
November	96,376	54,330	56.4	51,085	162	50,923	681	50,242	3,245	6.0	42,046	
December	96,446	54,442	56.4	51,249	161	51,088	692	50,396	3,193	5.9	42,004	
1988:												
January	96,538	54,681	56.6	51,482	161	51,321	700	50,621	3,200	5.9	41,857	
February	96,606	54,740	56.7	51,509	159	51,350	717	50,633	3,231	5.9	41,866	
March	96,679	54,491	56.4	51,507	163	51,344	730	50,614	2,985	5.5	42,188	
April	96,739	54,610	56.5	51,553	163	51,390	761	50,629	3,057	5.6	42,129	
May	96,801	54,374	56.2	51,327	161	51,166	645	50,521	3,047	5.6	42,427	
June	96,880	54,728	56.5	51,769	162	51,607	662	50,944	2,960	5.4	42,152	
July	96,957	54,836	56.6	51,730	161	51,569	575	50,994	3,106	5.7	42,121	
August	97,018	55,000	56.7	51,918	163	51,755	625	51,130	3,083	5.6	42,018	
September	97,089	55,020	56.7	51,979	164	51,815	680	51,135	3,041	5.5	42,069	

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, 1954 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								
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
1987	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
Monthly data, seasonally adjusted ²								
1987:								
September	183,161	119,963	65.5	112,872	7,091	5.9	5.8	6.1
October	183,311	120,387	65.7	113,210	7,177	6.0	5.9	6.1
November	183,470	120,594	65.7	113,504	7,090	5.9	5.8	6.0
December	183,620	120,722	65.7	113,744	6,978	5.8	5.7	5.9
1988:								
January	183,822	121,175	65.9	114,129	7,046	5.8	5.8	5.9
February	183,969	121,348	66.0	114,409	6,938	5.7	5.6	5.9
March	184,111	120,903	65.7	114,103	6,801	5.6	5.7	5.5
April	184,232	121,323	65.9	114,713	6,610	5.4	5.3	5.6
May	184,374	120,978	65.6	114,195	6,783	5.6	5.6	5.6
June	184,562	121,472	65.8	115,018	6,455	5.3	5.2	5.4
July	184,729	121,684	65.9	115,059	6,625	5.4	5.3	5.7
August	184,830	122,031	66.0	115,180	6,851	5.6	5.6	5.6
September	184,962	121,924	65.9	115,328	6,596	5.4	5.3	5.5

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 1988										
	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	184,982	121,842	65.9	115,474	6,368	5.2	63,119	27,538	8,603	3,160	23,818
16 to 19 years	14,477	7,728	53.4	8,516	1,212	15.7	6,749	381	5,784	41	563
16 to 17 years	7,197	3,103	43.1	2,519	584	18.8	4,094	116	3,771	10	198
18 to 19 years	7,279	4,624	63.5	3,996	628	13.6	2,655	266	1,994	30	365
20 to 24 years	18,307	14,312	78.2	13,171	1,141	8.0	3,995	1,465	1,775	90	665
25 to 54 years	101,873	84,641	83.1	81,046	3,595	4.2	17,231	12,087	1,024	1,114	3,008
25 to 34 years	42,695	35,601	83.4	33,730	1,871	5.3	7,094	5,112	682	298	1,003
25 to 29 years	21,300	17,750	83.3	16,733	1,017	5.7	3,550	2,413	448	121	569
30 to 34 years	21,395	17,850	83.4	16,997	853	4.8	3,545	2,699	234	177	434
35 to 44 years	35,006	29,783	85.1	28,713	1,071	3.6	5,222	3,726	267	329	900
35 to 39 years	18,954	16,076	84.8	15,485	590	3.7	2,679	2,079	171	180	456
40 to 44 years	16,051	13,708	85.4	13,228	481	3.5	2,343	1,653	97	150	444
45 to 54 years	24,171	19,257	79.7	18,604	653	3.4	4,914	3,250	74	486	1,104
45 to 49 years	13,030	10,805	82.9	10,409	395	3.7	2,226	1,526	46	211	441
50 to 54 years	11,140	8,452	75.9	8,194	258	3.1	2,688	1,723	26	275	663
55 to 64 years	21,628	11,864	54.9	11,514	351	3.0	9,763	4,704	32	694	4,334
55 to 59 years	10,814	7,120	65.8	6,916	204	2.9	3,694	2,075	16	335	1,268
60 to 64 years	10,814	4,745	43.9	4,598	147	3.1	6,069	2,630	16	358	3,066
65 years and over	28,678	3,297	11.5	3,227	70	2.1	25,381	6,899	9	1,222	15,250
65 to 69 years	9,853	1,977	20.1	1,930	45	2.3	7,878	2,809	5	333	4,730
70 to 74 years	7,678	843	11.0	830	15	1.8	6,833	2,448	1	238	4,148
75 years and over	11,147	477	4.3	467	10	2.1	10,670	3,642	4	653	6,372
Men											
16 years and over	88,037	66,925	76.0	63,742	3,183	4.6	21,112	507	4,343	1,743	14,519
16 to 19 years	7,286	3,983	54.7	3,340	643	16.1	3,303	20	3,002	19	263
16 to 17 years	3,672	1,650	44.9	1,327	323	19.6	2,022	7	1,929	5	81
18 to 19 years	3,614	2,333	64.5	2,013	319	13.7	1,281	13	1,073	14	182
20 to 24 years	8,856	7,499	84.7	6,929	569	7.6	1,358	25	917	55	361
25 to 54 years	49,817	46,676	93.7	44,928	1,748	3.7	3,140	201	407	755	1,777
25 to 34 years	20,996	19,650	94.5	18,955	895	4.5	1,146	81	303	215	547
25 to 29 years	10,463	9,796	93.6	9,321	476	4.9	667	48	221	95	303
30 to 34 years	10,533	10,054	95.5	9,635	419	4.2	479	33	82	120	244
35 to 44 years	17,115	16,247	94.9	15,724	523	3.2	868	58	72	229	508
35 to 39 years	9,282	8,825	95.1	8,554	270	3.1	458	26	47	127	257
40 to 44 years	7,832	7,422	94.8	7,170	253	3.4	410	32	26	102	251
45 to 54 years	11,706	10,579	90.4	10,249	330	3.1	1,127	63	31	311	722
45 to 49 years	6,326	5,856	92.6	5,668	187	3.2	471	33	20	132	286
50 to 54 years	5,379	4,723	87.8	4,580	143	3.0	656	29	11	178	437
55 to 64 years	10,185	6,795	66.7	6,602	193	2.8	3,391	87	15	443	2,846
55 to 59 years	5,163	4,061	78.7	3,942	119	2.9	1,102	36	13	233	820
60 to 64 years	5,023	2,734	54.4	2,660	74	2.7	2,289	51	2	210	2,026
65 years and over	11,893	1,973	16.6	1,943	30	1.5	9,920	174	3	471	9,272
65 to 69 years	4,462	1,158	25.9	1,141	16	1.4	3,305	38	3	150	3,113
70 to 74 years	3,324	509	15.3	502	8	1.6	2,814	43		120	2,651
75 years and over	4,107	306	7.5	300	6	2.1	3,801	93		201	3,508
Women											
16 years and over	96,925	54,918	56.7	51,732	3,186	5.8	42,008	27,031	4,260	1,417	9,299
16 to 19 years	7,191	3,745	52.1	3,176	569	15.2	3,446	362	2,762	22	300
16 to 17 years	3,525	1,453	41.2	1,192	261	18.0	2,072	109	1,842	5	116
18 to 19 years	3,666	2,292	62.5	1,983	309	13.5	1,374	253	921	17	184
20 to 24 years	9,451	6,814	72.1	6,242	572	8.4	2,638	1,441	857	36	304
25 to 54 years	52,056	37,965	72.9	36,118	1,847	4.9	14,091	11,886	617	359	1,229
25 to 34 years	21,699	15,750	72.6	14,774	976	6.2	5,949	5,031	379	83	456
25 to 29 years	10,837	7,954	73.4	7,412	541	6.8	2,883	2,365	227	26	266
30 to 34 years	10,862	7,796	71.8	7,362	434	5.6	3,066	2,666	152	57	190
35 to 44 years	17,891	13,537	75.7	12,989	548	4.0	4,354	3,668	195	100	392
35 to 39 years	9,672	7,251	75.0	6,931	320	4.4	2,421	2,046	124	53	199
40 to 44 years	8,219	6,286	76.5	6,058	228	3.6	1,933	1,621	71	48	193
45 to 54 years	12,466	8,678	69.6	8,355	323	3.7	3,787	3,187	43	176	361
45 to 49 years	6,704	4,949	73.8	4,741	208	4.2	1,755	1,493	28	79	155
50 to 54 years	5,761	3,729	64.7	3,614	115	3.1	2,032	1,694	15	97	226
55 to 64 years	11,442	5,070	44.3	4,912	158	3.1	6,372	4,617	17	250	1,488
55 to 59 years	5,651	3,059	54.1	2,974	85	2.8	2,592	2,039	3	102	448
60 to 64 years	5,791	2,011	34.7	1,938	73	3.6	3,780	2,578	14	148	1,040
65 years and over	16,785	1,324	7.9	1,284	40	3.0	15,461	6,725	7	751	5,978
65 to 69 years	5,391	819	15.2	789	29	3.6	4,573	2,771	2	183	1,617
70 to 74 years	4,354	334	7.7	328	7	2.1	4,019	2,405	1	116	1,497
75 years and over	7,040	171	2.4	167	4	2.3	6,869	3,549	4	452	2,864

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 1988										
	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	158,422	104,959	66.3	100,177	4,782	4.6	53,463	23,970	6,472	2,406	20,615
16 to 19 years	11,804	6,690	56.7	5,772	918	13.7	5,115	320	4,343	31	420
16 to 17 years	5,830	2,731	46.8	2,268	462	16.9	3,099	99	2,845	7	148
18 to 19 years	5,975	3,959	66.3	3,504	455	11.5	2,016	221	1,497	24	273
20 to 24 years	15,169	12,139	80.0	11,354	785	6.5	3,030	1,171	1,367	54	439
25 to 54 years	86,688	72,689	83.9	69,954	2,734	3.8	14,000	10,182	725	814	2,278
25 to 34 years	35,908	30,254	84.3	28,891	1,363	4.5	5,654	4,252	468	220	715
30 to 34 years	17,836	15,097	84.6	14,363	735	4.9	2,738	1,968	289	91	391
35 to 44 years	18,072	15,156	83.9	14,529	628	4.1	2,916	2,284	179	128	325
35 to 44 years	29,981	25,671	85.6	24,831	840	3.3	4,310	3,195	213	233	668
35 to 39 years	16,092	13,769	85.6	13,306	463	5.5	2,324	1,794	128	113	329
40 to 44 years	13,889	11,903	85.7	11,525	378	3.2	1,986	1,437	85	119	339
45 to 54 years	20,799	16,764	80.6	16,233	531	3.2	4,035	2,735	45	361	895
45 to 49 years	11,229	9,441	84.1	9,118	323	3.4	1,787	1,254	28	166	352
50 to 54 years	9,570	7,323	76.5	7,114	208	4.4	2,248	1,503	17	195	542
55 to 64 years	18,941	10,491	55.4	10,202	289	2.8	8,450	4,127	31	551	3,740
55 to 59 years	9,391	6,284	66.9	6,121	163	2.6	3,107	1,782	15	255	1,056
60 to 64 years	9,550	4,207	44.1	4,081	126	3.0	5,343	2,346	16	297	2,684
65 years and over	25,819	2,950	11.4	2,894	56	1.9	22,869	8,170	5	956	13,737
65 to 69 years	8,789	1,758	20.0	1,722	37	2.1	7,032	2,542	2	243	4,244
70 to 74 years	6,945	761	11.0	750	9	1.2	6,183	2,262		178	3,744
75 years and over	10,084	431	4.3	422	10	2.3	9,654	3,366	4	535	5,750
Men											
16 years and over	75,976	58,313	76.8	55,862	2,451	4.2	17,663	385	3,310	1,311	12,657
16 to 19 years	5,954	3,441	57.8	2,952	489	14.2	2,513	17	2,276	13	206
16 to 17 years	2,983	1,443	48.4	1,190	253	17.5	1,539	7	1,457	5	70
18 to 19 years	2,971	1,997	67.2	1,761	236	11.8	974	11	819	8	136
20 to 24 years	7,421	6,372	85.9	5,961	411	6.4	1,049	21	759	30	239
25 to 54 years	42,900	40,621	94.7	39,261	1,360	3.3	2,279	131	261	555	1,332
25 to 34 years	17,885	17,106	95.6	16,418	689	4.0	779	44	197	158	380
25 to 29 years	8,855	8,413	95.0	8,051	363	4.3	442	24	144	70	204
30 to 34 years	9,030	8,693	96.3	8,367	326	3.8	337	20	53	88	176
35 to 44 years	14,828	14,220	95.9	13,812	408	2.9	608	44	51	157	355
35 to 39 years	7,987	7,679	96.1	7,456	223	2.9	308	19	29	80	179
40 to 44 years	6,841	6,541	95.6	6,356	185	2.8	299	25	22	77	176
45 to 54 years	10,187	9,295	91.2	9,032	263	2.8	892	43	13	239	598
45 to 49 years	5,516	5,149	93.3	5,001	148	2.9	367	17	12	110	228
50 to 54 years	4,671	4,146	88.8	4,031	115	2.8	525	25	2	129	369
55 to 64 years	8,979	6,070	67.6	5,904	166	2.7	2,909	70	13	351	2,474
55 to 59 years	4,506	3,620	80.3	3,523	97	2.7	886	27	12	172	675
60 to 64 years	4,473	2,450	54.8	2,381	68	2.8	2,023	43	2	179	1,799
65 years and over	10,723	1,809	16.9	1,783	26	1.4	8,914	146		363	8,406
65 to 69 years	4,011	1,062	26.5	1,049	14	1.3	2,949	30		107	2,812
70 to 74 years	3,004	470	15.6	464	5	1.1	2,533	35		91	2,408
75 years and over	3,708	277	7.5	270	7	2.4	3,432	81		165	3,186
Women											
16 years and over	82,446	46,646	56.6	44,315	2,331	5.0	35,800	23,585	3,162	1,095	7,958
16 to 19 years	5,851	3,249	55.5	2,820	429	13.2	2,602	303	2,067	18	214
16 to 17 years	2,847	1,287	45.2	1,078	209	16.3	1,560	93	1,388	2	78
18 to 19 years	3,004	1,962	65.3	1,743	219	11.2	1,042	210	679	17	136
20 to 24 years	7,749	5,767	74.4	5,393	374	6.5	1,982	1,149	608	24	201
25 to 54 years	43,788	32,068	73.2	30,693	1,374	4.3	11,721	10,051	464	259	946
25 to 34 years	18,023	13,148	72.9	12,474	674	5.1	4,876	4,208	271	61	336
25 to 29 years	8,981	6,684	74.4	6,312	372	5.6	2,296	1,944	145	21	187
30 to 34 years	9,042	6,463	71.5	6,162	302	4.7	2,579	2,264	126	40	149
35 to 44 years	15,153	11,451	75.6	11,019	432	3.8	3,702	3,151	163	76	313
35 to 39 years	8,105	6,090	75.1	5,850	240	3.9	2,016	1,733	99	33	150
40 to 44 years	7,048	5,362	76.1	5,169	193	3.6	1,687	1,418	63	42	163
45 to 54 years	10,612	7,469	70.4	7,201	268	3.6	3,143	2,692	31	122	297
45 to 49 years	5,713	4,292	75.1	4,117	175	4.1	1,420	1,224	16	56	124
50 to 54 years	4,899	3,177	64.8	3,083	93	2.9	1,723	1,468	15	66	173
55 to 64 years	9,962	4,421	44.4	4,298	123	2.8	5,541	4,057	18	200	1,266
55 to 59 years	4,885	2,664	54.5	2,598	66	2.5	2,221	1,754	4	82	381
60 to 64 years	5,077	1,757	34.6	1,700	57	3.3	3,320	2,303	14	118	885
65 years and over	15,096	1,141	7.6	1,111	30	2.6	13,955	8,024	5	594	5,332
65 to 69 years	4,778	696	14.6	673	23	3.3	4,083	2,512	2	136	1,432
70 to 74 years	3,941	291	7.4	286	4	1.4	3,650	2,227		87	1,336
75 years and over	6,376	154	2.4	152	3	1.7	6,222	3,285	4	370	2,564

**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 1988										
	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	20,762	13,178	63.5	11,764	1,414	10.7	7,584	2,691	1,538	672	2,684
16 to 19 years	2,182	861	39.5	585	275	32.0	1,321	56	1,132	9	124
16 to 17 years	1,129	316	28.0	201	115	36.3	813	14	752	4	43
18 to 19 years	1,053	544	51.7	384	161	29.5	509	42	380	6	82
20 to 24 years	2,516	1,785	70.9	1,470	315	17.7	731	236	267	36	192
25 to 54 years	11,540	9,182	79.6	8,414	768	8.4	2,357	1,333	134	263	629
25 to 34 years	5,253	4,191	79.8	3,727	464	11.1	1,062	624	104	79	255
25 to 29 years	2,673	2,065	77.3	1,806	259	12.5	608	343	76	30	160
30 to 34 years	2,580	2,126	82.4	1,920	206	9.7	454	281	28	49	96
35 to 44 years	3,749	3,110	83.0	2,916	194	6.2	639	339	24	69	207
35 to 39 years	2,137	1,769	82.8	1,657	112	6.3	368	193	15	49	111
40 to 44 years	1,611	1,341	83.2	1,259	82	6.1	270	146	8	20	96
45 to 54 years	2,538	1,881	74.1	1,772	109	5.8	657	370	6	115	167
45 to 49 years	1,350	1,046	77.5	985	62	5.9	304	195	4	44	62
50 to 54 years	1,187	835	70.3	787	48	5.7	353	174	2	70	105
55 to 64 years	2,112	1,059	50.1	1,014	45	4.3	1,053	446	1	121	486
55 to 59 years	1,101	645	58.6	618	27	4.2	456	218	1	62	175
60 to 64 years	1,012	414	41.0	396	18	4.4	597	228		59	311
65 years and over	2,411	290	12.0	280	11	3.6	2,121	620	4	243	1,253
65 to 69 years	884	173	19.6	169	5	2.9	711	225	3	83	401
70 years and over	1,527	117	7.7	112	6	5.1	1,410	394	1	161	853
Men											
16 years and over	9,324	6,569	70.4	5,919	649	9.9	2,756	98	731	377	1,549
16 to 19 years	1,077	443	41.1	299	144	32.5	634	3	579	5	47
16 to 17 years	569	172	30.2	107	65	37.9	397	1	391		5
18 to 19 years	508	271	53.3	192	79	29.0	237	2	188	6	43
20 to 24 years	1,146	917	80.0	779	138	15.0	229	2	99	24	103
25 to 54 years	5,175	4,508	87.1	4,159	348	7.7	667	58	49	170	391
25 to 34 years	2,377	2,099	88.3	1,909	190	9.1	278	25	42	57	154
25 to 29 years	1,209	1,048	86.7	945	103	9.8	161	18	30	25	89
30 to 34 years	1,168	1,051	90.0	964	87	8.3	117	7	13	32	65
35 to 44 years	1,671	1,477	88.4	1,384	93	6.3	193	14	3	47	130
35 to 39 years	953	848	89.0	806	42	5.0	105	7	2	32	64
40 to 44 years	717	629	87.7	578	51	8.1	88	7		15	66
45 to 54 years	1,127	931	82.6	867	64	6.9	196	19	4	66	107
45 to 49 years	600	515	85.8	479	37	7.1	85	16	2	23	45
50 to 54 years	527	416	79.0	388	28	6.7	111	3	2	43	62
55 to 64 years	952	561	58.9	545	16	2.9	391	13	1	76	302
55 to 59 years	498	328	65.9	316	12	3.6	170	4		45	120
60 to 64 years	454	233	51.3	229	4	1.8	221	9		31	182
65 years and over	973	139	14.3	135	4	3.0	834	22	3	102	706
65 to 69 years	386	80	20.7	78	2	3.1	306	6	3	42	256
70 years and over	587	59	10.1	58	2	(¹)	528	16		61	451
Women											
16 years and over	11,438	6,609	57.8	5,845	765	11.6	4,828	2,592	807	294	1,135
16 to 19 years	1,105	418	37.8	266	132	31.5	687	53	553	4	77
16 to 17 years	560	144	25.8	95	50	34.4	415	13	361	4	38
18 to 19 years	545	274	50.2	192	82	30.0	272	40	192		39
20 to 24 years	1,370	868	63.4	691	177	20.4	502	234	168	12	89
25 to 54 years	6,365	4,674	73.4	4,255	420	9.0	1,690	1,275	85	93	238
25 to 34 years	2,876	2,092	72.7	1,818	274	13.1	784	599	62	22	101
25 to 29 years	1,464	1,017	69.5	861	156	15.3	447	325	46	5	71
30 to 34 years	1,412	1,075	76.1	956	119	11.0	337	274	15	17	31
35 to 44 years	2,078	1,633	78.6	1,532	101	6.2	445	325	21	22	77
35 to 39 years	1,184	921	77.8	851	70	7.6	263	186	13	17	47
40 to 44 years	894	712	79.6	681	31	4.4	182	139	8	5	30
45 to 54 years	1,411	950	67.3	905	45	4.7	461	351	2	49	60
45 to 49 years	750	531	70.8	506	25	4.7	219	179	2	21	17
50 to 54 years	660	419	63.4	399	20	4.8	242	171		27	43
55 to 64 years	1,160	498	42.9	469	29	5.9	662	433		45	184
55 to 59 years	602	317	52.6	301	15	4.8	286	214		17	54
60 to 64 years	558	181	32.5	167	14	7.8	376	219		28	129
65 years and over	1,438	151	10.5	144	6	4.3	1,287	598	1	141	547
65 to 69 years	498	93	18.7	91	3	2.8	405	219		41	145
70 years and over	940	58	6.1	54	4	(¹)	882	378	1	100	402

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 1988								Not in labor force
	Civilian noninstitutional population	Civilian labor force						Percent of labor force	
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries				Number
TOTAL									
16 years and over	26,540	16,884	63.6	15,297	209	15,088	1,586	9.4	9,656
16 to 19 years	2,672	1,038	38.8	744	7	737	294	28.3	1,634
16 to 17 years	1,368	372	27.2	251	-	251	122	32.7	995
18 to 19 years	1,305	665	51.0	493	7	486	173	25.9	639
20 to 24 years	3,138	2,173	69.3	1,817	12	1,805	356	16.4	965
25 to 54 years	15,184	11,952	78.7	11,091	137	10,956	860	7.2	3,231
25 to 34 years	6,787	5,347	78.8	4,839	70	4,769	508	9.5	1,440
25 to 29 years	3,463	2,653	76.6	2,370	39	2,331	282	10.6	812
30 to 34 years	3,324	1,434	43.1	2,468	31	2,438	226	15.8	628
35 to 44 years	5,025	4,112	81.8	3,882	29	3,853	231	5.6	912
35 to 39 years	2,862	2,307	80.6	2,179	14	2,166	129	5.6	555
40 to 44 years	2,163	1,805	83.4	1,703	16	1,687	102	5.7	358
45 to 54 years	3,372	2,493	73.9	2,371	37	2,333	122	4.9	879
45 to 49 years	1,802	1,364	75.7	1,291	18	1,273	72	5.3	439
50 to 54 years	1,570	1,129	71.9	1,080	20	1,060	50	4.4	440
55 to 64 years	2,687	1,373	51.1	1,312	36	1,276	62	4.5	1,313
55 to 59 years	1,423	836	58.7	795	25	770	41	4.9	587
60 to 64 years	1,264	538	42.5	517	11	506	21	3.9	726
65 years and over	2,859	347	12.1	333	18	315	14	3.9	2,512
65 to 69 years	1,064	218	20.5	209	4	205	9	4.1	846
70 to 74 years	733	82	11.2	79	11	68	3	3.7	649
75 years and over	1,063	46	4.3	45	3	42	1	(¹)	1,017
Men									
16 years and over	12,061	8,612	71.4	7,880	170	7,710	732	8.5	3,449
16 to 19 years	1,332	542	40.7	388	5	383	153	28.3	791
16 to 17 years	689	207	30.0	136	-	136	70	34.0	483
18 to 19 years	643	335	52.2	252	5	247	83	24.8	308
20 to 24 years	1,435	1,127	78.5	968	8	961	158	14.1	309
25 to 54 years	6,916	6,055	87.5	5,666	118	5,549	388	6.4	861
25 to 34 years	3,111	2,744	88.2	2,538	63	2,475	206	7.5	367
25 to 29 years	1,607	1,383	86.0	1,270	34	1,236	113	8.2	225
30 to 34 years	1,504	1,361	90.5	1,268	29	1,239	93	6.9	142
35 to 44 years	2,287	2,027	88.6	1,912	22	1,890	115	5.7	260
35 to 39 years	1,295	1,146	88.5	1,098	9	1,090	48	4.2	149
40 to 44 years	992	881	88.8	814	13	801	67	7.6	111
45 to 54 years	1,518	1,284	84.6	1,216	33	1,184	68	5.3	234
45 to 49 years	811	707	87.2	667	15	652	39	5.6	104
50 to 54 years	708	577	81.6	549	18	531	28	4.9	130
55 to 64 years	1,207	725	60.1	698	26	672	27	3.7	482
55 to 59 years	656	441	67.2	419	15	404	22	4.9	216
60 to 64 years	550	284	51.6	279	11	268	5	1.9	266
65 years and over	1,170	164	14.0	160	14	146	4	2.4	1,006
65 to 69 years	451	95	21.1	93	3	89	3	2.9	356
70 to 74 years	320	39	12.2	37	8	29	1	(¹)	280
75 years and over	399	29	7.3	30	3	27	-	(¹)	370
Women									
16 years and over	14,479	8,272	57.1	7,417	39	7,378	855	10.3	6,208
16 to 19 years	1,340	496	37.0	355	2	353	141	28.4	844
16 to 17 years	678	166	24.5	114	-	114	51	31.0	512
18 to 19 years	662	330	49.9	241	2	239	89	27.0	332
20 to 24 years	1,703	1,046	61.5	849	4	845	198	18.9	656
25 to 54 years	8,268	5,897	71.3	5,425	19	5,407	472	8.0	2,370
25 to 34 years	3,676	2,603	70.8	2,301	7	2,294	302	11.6	1,073
25 to 29 years	1,656	1,270	68.4	1,100	5	1,095	189	13.3	587
30 to 34 years	1,620	1,333	73.3	1,200	2	1,199	133	10.0	486
35 to 44 years	2,738	2,086	76.2	1,970	7	1,963	116	5.5	652
35 to 39 years	1,567	1,161	74.1	1,081	5	1,076	81	6.9	406
40 to 44 years	1,171	924	78.9	889	3	887	35	3.8	247
45 to 54 years	1,854	1,209	65.2	1,155	5	1,150	55	4.5	645
45 to 49 years	991	657	66.2	624	3	621	33	5.0	335
50 to 54 years	862	552	64.1	531	2	529	22	3.9	310
55 to 64 years	1,480	649	43.8	614	10	604	35	5.3	831
55 to 59 years	766	395	51.5	376	10	366	19	4.8	371
60 to 64 years	714	254	35.5	238	-	238	15	6.1	460
65 years and over	1,690	183	10.8	174	4	169	10	5.3	1,507
65 to 69 years	613	123	20.0	116	1	116	6	5.0	490
70 to 74 years	413	43	10.4	42	3	39	2	(¹)	369
75 years and over	664	17	2.6	15	-	15	1	(¹)	647

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. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
TOTAL								
Civilian noninstitutional population	183,161	184,962	79,740	80,751	88,785	89,735	14,637	14,477
Civilian labor force	119,884	121,842	62,157	62,942	50,182	51,172	7,545	7,728
Percent of population	65.5	65.9	77.9	77.9	56.5	57.0	51.5	53.4
Employed	113,027	115,474	59,373	60,402	47,349	48,556	6,305	6,516
Agriculture	3,277	3,250	2,433	2,325	615	642	229	282
Nonagricultural industries	109,750	112,225	56,941	58,077	46,734	47,914	6,076	6,234
Unemployed	6,857	6,368	2,783	2,540	2,833	2,616	1,240	1,212
Unemployment rate	5.7	5.2	4.5	4.0	5.6	5.1	16.4	15.7
Not in labor force	63,277	63,119	17,583	17,808	38,603	38,562	7,092	6,749
White								
Civilian noninstitutional population	157,242	158,422	69,309	70,022	75,983	76,595	11,950	11,804
Civilian labor force	103,295	104,959	54,236	54,872	42,556	43,397	6,502	6,690
Percent of population	65.7	66.3	78.3	78.4	56.0	56.7	54.4	56.7
Employed	98,261	100,177	52,133	52,910	40,557	41,495	5,571	5,772
Agriculture	3,018	3,041	2,215	2,161	587	605	215	275
Nonagricultural industries	95,244	97,136	49,918	50,750	39,970	40,889	5,357	5,497
Unemployed	5,033	4,782	2,103	1,962	1,999	1,902	931	918
Unemployment rate	4.9	4.6	3.9	3.6	4.7	4.4	14.3	13.7
Not in labor force	53,947	53,463	15,073	15,150	33,427	33,198	5,447	5,115
Black								
Civilian noninstitutional population	20,426	20,762	8,093	8,247	10,162	10,333	2,171	2,182
Civilian labor force	13,018	13,178	6,039	6,126	6,116	6,192	863	861
Percent of population	63.7	63.5	74.6	74.3	60.2	59.9	39.8	39.5
Employed	11,398	11,764	5,463	5,620	5,345	5,558	591	585
Agriculture	197	156	165	123	19	26	13	6
Nonagricultural industries	11,201	11,608	5,297	5,497	5,326	5,532	578	579
Unemployed	1,619	1,414	576	506	771	633	272	275
Unemployment rate	12.4	10.7	9.5	8.3	12.6	10.2	31.5	32.0
Not in labor force	7,408	7,584	2,054	2,121	4,046	4,141	1,307	1,321

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	September 1988									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	14,611	7,059	48.3	6,194	1,254	4,940	865	112	753	12.2
16 to 19 years	10,303	4,507	43.7	3,826	424	3,403	680	75	606	15.1
20 to 24 years	4,307	2,552	59.3	2,368	830	1,538	185	37	147	7.2
High school	7,279	3,073	42.2	2,512	201	2,311	562	68	494	18.3
College	7,332	3,985	54.4	3,682	1,052	2,630	303	44	259	7.6
Full-time students	6,199	2,963	47.8	2,717	443	2,273	246	20	225	8.3
Part-time students	1,133	1,023	90.3	965	609	356	57	24	34	5.6
Men, 16 to 24 years	7,461	3,551	47.6	3,089	651	2,438	462	74	388	13.0
16 to 19 years	5,327	2,316	43.5	1,942	242	1,700	374	53	321	16.1
20 to 24 years	2,134	1,236	57.9	1,147	409	738	89	21	67	7.2
High school	3,930	1,686	42.9	1,359	132	1,227	327	50	277	19.4
College	3,531	1,865	52.8	1,730	519	1,211	135	24	111	7.2
Full-time students	3,041	1,426	46.9	1,320	261	1,058	107	14	93	7.5
Part-time students	490	439	89.6	411	258	153	28	10	18	6.4
Women, 16 to 24 years	7,150	3,507	49.1	3,105	602	2,503	402	38	365	11.5
16 to 19 years	4,976	2,191	44.0	1,884	182	1,703	307	22	285	14.0
20 to 24 years	2,173	1,316	60.6	1,220	421	800	96	16	80	7.3
High school	3,349	1,387	41.4	1,153	69	1,083	234	17	217	16.9
College	3,801	2,120	55.8	1,952	533	1,419	168	20	148	7.9
Full-time students	3,158	1,536	48.7	1,397	182	1,215	139	6	133	9.0
Part-time students	643	584	90.8	555	351	204	29	14	15	5.0
White										
Total, 16 to 24 years	11,882	6,151	51.8	5,476	1,088	4,389	675	77	597	11.0
16 to 19 years	8,318	3,954	47.5	3,421	372	3,049	533	53	479	13.5
20 to 24 years	3,564	2,197	61.6	2,055	715	1,340	142	24	118	6.5
Men	6,112	3,074	50.3	2,721	554	2,167	353	45	308	11.5
Women	5,771	3,077	53.3	2,756	533	2,222	322	32	289	10.5
High school	5,708	2,627	46.0	2,203	163	2,040	424	44	380	16.2
College	6,175	3,524	57.1	3,274	924	2,349	250	33	217	7.1
Full-time students	5,206	2,624	50.4	2,425	370	2,054	199	10	189	7.6
Part-time students	968	900	92.9	849	554	295	51	23	28	5.7
Black										
Total, 16 to 24 years	2,072	684	33.0	506	122	384	178	32	146	26.0
16 to 19 years	1,574	438	27.9	297	36	261	142	22	120	32.3
20 to 24 years	498	248	49.4	210	87	123	37	11	26	14.8
Men	1,013	345	34.0	245	63	182	99	27	72	28.8
Women	1,059	340	32.1	261	59	202	79	5	73	23.2
High school	1,286	376	29.3	245	32	214	131	24	107	34.8
College	786	308	39.2	261	91	170	47	8	39	15.3
Full-time students	671	227	33.9	186	46	140	41	8	33	17.9
Part-time students	116	81	70.2	75	44	30	7	1	6	8.0
Hispanic origin										
Total, 16 to 24 years	1,045	454	43.5	371	105	266	83	14	69	18.3
16 to 19 years	779	286	36.8	212	35	177	75	14	61	26.0
20 to 24 years	265	168	63.2	159	71	89	6	-	8	5.0
Men	542	222	41.0	180	49	131	42	6	36	19.1
Women	502	232	46.2	191	56	135	41	8	33	17.5
High school	624	200	32.1	134	23	112	66	12	54	33.0
College	421	254	60.2	237	83	154	17	2	15	6.6
Full-time students	313	152	48.6	138	42	96	15	1	14	9.7
Part-time students	108	101	94.2	99	41	59	2	1	1	2.0

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 1988									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL NOT ENROLLED										
Total, 16 to 24 years	18,174	14,981	82.4	13,493	11,727	1,766	1,489	1,326	163	9.9
16 to 19 years	4,173	3,221	77.2	2,689	1,990	699	532	461	71	16.5
20 to 24 years	14,000	11,760	84.0	10,803	9,736	1,067	957	864	92	8.1
Less than 4 years of high school	4,252	2,820	66.3	2,329	1,996	333	491	447	44	17.4
4 years of high school	9,224	7,825	84.8	7,047	6,037	1,010	778	688	90	9.9
1 to 3 years of college	3,042	2,765	90.9	2,608	2,296	313	157	128	29	5.7
4 years of college or more	1,656	1,571	94.9	1,508	1,398	111	63	63	-	4.0
Men, 16 to 24 years	8,681	7,930	91.3	7,180	6,565	615	750	693	56	9.5
16 to 19 years	1,959	1,667	85.1	1,398	1,114	284	269	241	28	16.1
20 to 24 years	6,722	6,263	93.2	5,782	5,452	331	481	452	28	7.7
Less than 4 years of high school	2,268	1,897	83.6	1,615	1,462	154	282	277	5	14.8
4 years of high school	4,359	4,094	93.9	3,731	3,406	325	363	325	37	8.9
1 to 3 years of college	1,348	1,262	93.7	1,186	1,091	95	76	63	14	6.1
4 years of college or more	706	677	95.9	648	607	40	29	29	1	4.3
Women, 16 to 24 years	9,493	7,052	74.3	6,313	5,161	1,151	739	632	107	10.5
16 to 19 years	2,215	1,554	70.2	1,291	876	415	263	221	42	16.9
20 to 24 years	7,278	5,497	75.5	5,021	4,285	737	476	412	64	8.7
Less than 4 years of high school	1,984	923	46.5	714	534	180	209	170	39	22.7
4 years of high school	4,865	3,731	76.7	3,316	2,631	685	416	363	53	11.1
1 to 3 years of college	1,694	1,503	88.7	1,423	1,205	217	80	65	15	5.4
4 years of college or more	950	895	94.2	861	790	70	34	34	-	3.8
White										
Total, 16 to 24 years	15,092	12,678	84.0	11,649	10,151	1,498	1,028	912	116	8.1
16 to 19 years	3,486	2,736	78.5	2,350	1,745	605	385	338	48	14.1
20 to 24 years	11,606	9,942	85.7	9,299	8,406	893	643	575	69	6.5
Men	7,263	6,739	92.8	6,192	5,691	500	547	500	47	8.1
Women	7,829	5,939	75.9	5,458	4,460	998	482	412	69	8.1
Less than 4 years of high school	3,491	2,367	67.8	2,036	1,722	314	331	306	25	14.0
4 years of high school	7,581	6,559	86.5	6,017	5,197	820	542	475	67	8.3
1 to 3 years of college	2,508	2,306	91.9	2,199	1,941	259	106	82	24	4.6
4 years of college or more	1,511	1,445	95.6	1,396	1,291	105	49	49	-	3.4
Black										
Total, 16 to 24 years	2,626	1,962	74.7	1,549	1,327	223	412	374	38	21.0
16 to 19 years	608	422	69.5	289	211	78	134	115	18	31.7
20 to 24 years	2,018	1,539	76.3	1,261	1,116	145	279	259	20	18.1
Men	1,210	1,015	83.9	833	739	95	182	175	8	17.9
Women	1,416	946	66.8	716	588	128	230	200	30	24.3
Less than 4 years of high school	649	376	58.0	233	215	18	144	133	10	38.2
4 years of high school	1,468	1,133	77.2	909	751	158	224	201	23	19.8
1 to 3 years of college	438	385	87.8	341	298	44	43	39	4	11.3
4 years of college or more	71	67	(²)	66	64	3	1	1	-	(²)
Hispanic origin										
Total, 16 to 24 years	2,270	1,743	76.8	1,569	1,400	169	174	151	24	10.0
16 to 19 years	578	402	69.6	341	273	68	61	49	13	15.3
20 to 24 years	1,692	1,341	79.3	1,228	1,127	101	113	102	11	8.4
Men	1,173	1,087	92.6	984	909	76	103	95	8	9.4
Women	1,097	656	59.9	585	492	93	72	56	16	10.9
Less than 4 years of high school	1,171	768	65.7	697	622	75	72	63	9	9.4
4 years of high school	831	725	87.3	636	560	76	89	74	15	12.3
1 to 3 years of college	221	207	93.5	199	182	17	8	8	-	3.9
4 years of college or more	48	43	(²)	38	37	1	5	5	-	(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. 1987	Sept. 1988	Total		Employed		Unemployed			
			Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Number		Percent of labor force	
							Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,850	7,890	7,227	7,261	6,923	7,008	304	253	4.2	3.5
30 to 44 years	6,156	5,826	5,842	5,540	5,581	5,344	261	196	4.5	3.5
30 to 34 years	875	633	826	592	759	554	67	38	8.1	6.4
35 to 39 years	2,515	2,070	2,385	1,965	2,283	1,894	102	71	4.3	3.6
40 to 44 years	2,766	3,123	2,631	2,983	2,539	2,896	92	87	3.5	2.9
45 years and over	1,694	2,064	1,385	1,721	1,342	1,664	43	57	3.1	3.3
NONVETERANS										
Total, 30 to 44 years	19,666	20,631	18,693	19,645	17,977	18,958	716	687	3.8	3.5
30 to 34 years	8,935	9,175	8,515	8,779	8,178	8,439	337	340	4.0	3.9
35 to 39 years	6,304	6,928	6,020	6,593	5,796	6,405	224	188	3.7	2.9
40 to 44 years	4,427	4,528	4,158	4,273	4,003	4,114	155	159	3.7	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 1988							
	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	96,033	94,338	1,695	19,441	16,432	3,009	4,873	1,496
16 to 19 years	2,414	2,267	147	4,101	3,725	378	536	676
16 to 17 years	322	296	26	2,197	2,115	82	127	457
18 to 19 years	2,093	1,972	121	1,904	1,610	294	409	219
20 years and over	93,619	92,071	1,548	15,340	12,707	2,633	4,337	819
20 to 24 years	10,566	10,273	293	2,605	2,117	488	901	240
25 years and over	83,051	81,797	1,254	12,735	10,590	2,145	3,435	579
25 to 54 years	71,914	70,844	1,070	9,131	7,374	1,757	3,136	459
55 years and over	11,138	10,954	184	3,603	3,216	387	299	121
Men, 16 years and over	57,466	56,495	971	6,277	5,094	1,183	2,621	562
16 to 19 years	1,356	1,267	89	1,984	1,803	181	293	349
20 years and over	56,110	55,228	882	4,293	3,291	1,002	2,328	213
20 to 24 years	5,860	5,699	161	1,069	852	217	474	95
25 years and over	50,249	49,528	721	3,225	2,439	786	1,854	118
25 to 54 years	43,205	42,599	606	1,724	1,095	629	1,688	61
55 years and over	7,044	6,929	115	1,502	1,345	157	166	57
Women, 16 years and over	38,567	37,843	724	13,164	11,338	1,826	2,252	934
16 to 19 years	1,058	1,000	58	2,118	1,922	196	242	327
20 years and over	37,509	36,843	666	11,047	9,416	1,631	2,009	607
20 to 24 years	4,706	4,574	132	1,537	1,265	272	427	144
25 years and over	32,804	32,269	535	9,510	8,151	1,359	1,581	463
25 to 54 years	28,709	28,244	465	7,410	6,280	1,130	1,448	399
55 years and over	4,095	4,025	70	2,100	1,871	229	133	63
White								
Men, 16 years and over	50,446	49,600	846	5,416	4,485	931	2,002	450
16 to 19 years	1,179	1,095	84	1,772	1,618	154	213	276
20 years and over	49,265	48,504	761	3,645	2,868	777	1,788	174
20 to 24 years	5,065	4,920	145	895	722	173	332	79
25 years and over	44,200	43,584	616	2,749	2,145	604	1,457	95
25 to 54 years	37,899	37,379	520	1,363	898	465	1,311	49
55 years and over	6,301	6,205	96	1,386	1,247	139	146	46
Women, 16 years and over	32,526	31,957	569	11,789	10,274	1,515	1,583	748
16 to 19 years	937	888	49	1,883	1,710	173	178	251
20 years and over	31,588	31,068	520	9,907	8,565	1,342	1,405	497
20 to 24 years	4,055	3,962	93	1,337	1,111	226	267	108
25 years and over	27,532	27,106	426	8,569	7,452	1,117	1,138	389
25 to 54 years	23,989	23,616	373	6,704	5,772	932	1,043	332
55 years and over	3,543	3,490	53	1,865	1,680	185	96	57
Black								
Men, 16 years and over	5,278	5,181	97	640	444	196	550	99
16 to 19 years	146	146	-	153	135	18	76	67
20 years and over	5,133	5,035	98	487	309	178	474	32
20 to 24 years	656	641	15	122	88	34	125	12
25 years and over	4,476	4,394	82	364	221	143	350	18
25 to 54 years	3,894	3,827	67	266	139	127	339	9
55 years and over	582	567	15	99	82	17	11	9
Women, 16 years and over	4,800	4,688	112	1,045	781	264	601	164
16 to 19 years	100	93	7	185	162	23	61	71
20 years and over	4,700	4,595	105	859	618	241	540	93
20 to 24 years	546	519	27	145	105	40	144	33
25 years and over	4,153	4,076	77	716	515	201	396	60
25 to 54 years	3,737	3,669	68	518	355	163	364	57
55 years and over	416	407	9	198	160	38	32	3

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 1988									
	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	98,461	66.3	93,244	5,217	5.3	50,139	22,451	7,958	2,229	17,501
Husbands	40,050	78.3	39,018	1,032	2.6	11,069	194	200	876	9,798
With employed wife	25,879	92.1	25,300	579	2.2	2,216	69	94	293	1,760
With unemployed wife	1,032	94.8	926	107	10.3	57	3	5	7	42
With wife not in labor force	13,139	59.9	12,792	347	2.6	8,796	122	102	575	7,996
Wives	29,184	57.1	28,095	1,089	3.7	21,935	17,749	339	358	3,490
With employed husband	26,226	67.2	25,300	926	3.5	12,792	11,497	287	125	883
With unemployed husband	685	66.4	579	107	15.6	347	319	4	1	23
With husband not in labor force	2,273	20.5	2,216	57	2.5	8,796	5,933	47	231	2,584
Relatives in married-couple families	13,106	62.8	11,814	1,292	9.9	7,760	710	5,315	347	1,389
16 to 19 years	4,955	52.4	4,343	612	12.4	4,497	103	4,053	27	314
20 to 24 years	4,689	76.0	4,332	357	7.6	1,485	125	1,120	40	200
25 years and over	3,462	66.1	3,139	323	9.3	1,778	482	142	280	875
Women who maintain families	6,682	62.4	6,116	566	8.5	4,030	2,760	184	190	897
Relatives in families maintained by women	5,536	60.2	4,610	926	16.7	3,663	658	1,603	265	1,137
16 to 19 years	1,448	49.2	1,079	369	25.5	1,493	61	1,284	11	138
20 to 24 years	1,558	75.2	1,289	269	17.3	514	105	232	26	151
25 years and over	2,530	60.4	2,242	288	11.4	1,656	492	87	228	848
Men who maintain families	2,149	75.7	2,040	109	5.1	691	34	37	97	523
Relatives in families maintained by men	1,754	63.9	1,551	203	11.6	990	346	280	96	269
16 to 19 years	314	53.5	237	77	24.5	273	11	221		41
20 to 24 years	482	80.5	428	54	11.3	117	40	38	7	31
25 years and over	958	61.5	886	72	7.5	600	295	21	89	197

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. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
Total, 16 years and over	3,437	3,183	5.2	4.8	3,420	3,186	6.4	5.8
Married, spouse present	1,337	1,122	3.2	2.7	1,284	1,186	4.3	3.9
Widowed, divorced, or separated	395	413	6.1	6.0	811	736	7.6	6.9
Single (never married)	1,705	1,649	9.7	9.1	1,325	1,264	9.8	9.1
White, 16 years and over	2,590	2,451	4.5	4.2	2,443	2,331	5.3	5.0
Married, spouse present	1,121	934	3.0	2.5	1,039	1,011	4.0	3.8
Widowed, divorced, or separated	276	287	5.1	5.1	561	508	6.6	5.9
Single (never married)	1,193	1,231	8.1	8.1	843	812	7.7	7.2
Black, 16 years and over	716	649	11.1	9.9	903	765	13.8	11.6
Married, spouse present	170	150	5.3	4.6	206	134	8.6	5.6
Widowed, divorced, or separated	109	116	11.5	11.5	233	208	12.4	10.9
Single (never married)	437	384	18.9	16.7	464	423	20.2	18.4
Total, 25 years and over	2,135	1,971	3.9	3.6	2,133	2,044	4.9	4.6
Married, spouse present	1,211	1,043	3.0	2.6	1,043	994	3.8	3.6
Widowed, divorced, or separated	374	378	6.0	5.8	745	659	7.3	6.4
Single (never married)	551	550	6.8	6.4	345	391	5.9	6.4
White, 25 years and over	1,634	1,551	3.4	3.2	1,523	1,528	4.2	4.1
Married, spouse present	1,017	859	2.8	2.4	843	860	3.5	3.5
Widowed, divorced, or separated	264	271	5.1	5.0	515	445	6.4	5.4
Single (never married)	353	421	5.3	5.9	165	223	3.7	4.8
Black, 25 years and over	421	368	8.2	7.1	554	456	10.6	8.6
Married, spouse present	148	147	4.9	4.8	167	102	7.6	4.6
Widowed, divorced, or separated	100	99	10.8	10.3	214	194	11.7	10.4
Single (never married)	174	123	15.0	10.6	173	160	14.3	12.8

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
Total, 16 years and over	6,857	6,368	5.7	5.2	5.2	4.8	6.4	5.8
Managerial and professional specialty	689	624	2.4	2.1	2.0	1.7	2.9	2.5
Executive, administrative, and managerial	374	322	2.7	2.2	2.2	1.9	3.4	2.7
Professional specialty	315	302	2.1	1.9	1.7	1.5	2.6	2.4
Technical, sales, and administrative support	1,622	1,573	4.4	4.2	3.3	3.3	5.0	4.7
Technicians and related support	112	92	3.1	2.5	2.7	2.7	3.6	2.1
Sales occupations	670	658	4.7	4.6	3.0	3.0	6.6	6.2
Administrative support, including clerical	840	822	4.4	4.3	4.4	4.1	4.4	4.4
Service occupations	1,197	1,056	7.5	6.5	6.9	5.3	7.9	7.3
Private household	44	53	5.1	5.9	(¹)	(¹)	5.0	5.2
Protective service	102	66	5.2	3.3	4.5	2.1	9.2	9.6
Service, except private household and protective	1,051	936	8.0	7.0	7.8	6.3	8.1	7.4
Precision production, craft, and repair	742	603	5.1	4.3	5.0	4.4	6.0	3.0
Mechanics and repairers	162	140	3.4	3.2	3.4	3.1	3.1	4.3
Construction trades	393	288	7.2	5.3	7.2	5.4	10.1	2.3
Other precision production, craft, and repair	187	175	4.3	4.1	3.9	4.5	6.0	2.9
Operators, fabricators, and laborers	1,502	1,513	7.8	7.7	7.4	7.0	8.9	9.8
Machine operators, assemblers, and inspectors	657	715	7.4	8.1	6.4	6.5	8.9	10.3
Transportation and material moving occupations	277	224	5.5	4.2	5.5	4.3	5.6	3.3
Handlers, equipment cleaners, helpers, and laborers	568	573	10.5	10.5	10.5	10.4	10.4	10.9
Construction laborers	151	145	15.4	13.9	15.3	14.4	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	418	429	9.4	9.7	9.2	9.2	10.0	11.4
Farming, forestry, and fishing	219	258	5.8	6.7	5.5	6.7	7.3	6.9
No previous work experience	854	716						
16 to 19 years	565	462						
20 to 24 years	146	150						
25 years and over	142	104						

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. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
Total, 16 years and over	6,857	6,368	5.7	5.2	5.2	4.8	6.4	5.8
Nonagricultural private wage and salary workers	5,095	4,794	5.7	5.3	5.4	4.8	6.0	5.8
Mining	49	52	5.8	6.8	5.6	6.9	7.1	5.9
Construction	604	474	9.6	7.4	9.8	7.7	7.6	4.4
Manufacturing	1,191	1,181	5.4	5.4	4.9	4.7	6.4	6.6
Durable goods	680	666	5.2	5.1	5.0	4.8	5.8	5.8
Lumber and wood products	55	37	7.0	5.0	6.7	5.2	9.3	3.7
Furniture and fixtures	28	34	4.3	4.7	4.4	4.7	4.2	4.6
Stone, clay, and glass products	40	37	5.9	5.7	6.2	5.4	4.8	6.4
Primary metal industries	56	41	6.6	4.9	5.7	4.9	11.1	4.8
Fabricated metal products	75	87	5.6	6.2	5.3	5.3	6.9	9.2
Machinery, except electrical	129	135	5.0	5.0	4.6	4.4	6.1	6.9
Electrical machinery, equipment, and supplies	96	79	4.4	3.9	3.4	3.0	5.7	5.0
Transportation equipment	149	130	5.5	4.8	5.4	5.0	5.9	4.1
Automobiles	106	72	8.4	5.8	7.6	5.8	11.4	6.2
Other transportation equipment	44	58	3.1	3.9	3.5	4.3	1.6	2.6
Professional and photographic equipment	27	29	3.6	4.0	3.5	4.0	3.8	4.1
Other durable goods industries	24	57	4.6	10.6	5.6	11.1	3.4	10.2
Nondurable goods	511	516	5.8	5.7	4.8	4.5	7.0	7.4
Food and kindred products	139	124	7.2	6.8	6.2	5.4	9.0	9.4
Textile mill products	47	42	6.5	5.7	4.8	5.0	8.0	6.6
Apparel and other textile products	106	126	8.3	10.1	6.7	6.1	8.8	11.3
Paper and allied products	41	18	5.3	2.4	5.1	1.9	5.9	3.6
Printing and publishing	81	90	4.5	4.8	4.8	4.7	4.1	5.0
Chemicals and allied products	46	39	3.7	3.0	3.2	2.8	5.0	3.3
Rubber and miscellaneous plastics products	33	55	4.4	6.5	3.9	5.3	5.5	8.6
Other nondurable goods industries	18	22	4.5	5.4	3.0	7.4	8.0	1.9
Transportation and public utilities	240	218	3.8	3.5	3.6	3.5	4.5	3.2
Transportation	183	167	5.1	4.5	5.1	4.7	5.0	3.9
Communications and other public utilities	57	51	2.1	2.0	1.1	1.6	4.0	2.7
Wholesale and retail trade	1,428	1,391	6.3	6.0	5.3	5.0	7.3	7.1
Wholesale trade	173	177	3.9	3.9	3.8	3.6	4.4	4.7
Retail trade	1,255	1,214	6.9	6.6	5.9	5.5	7.7	7.4
Finance, insurance, and real estate	229	223	3.1	3.0	2.8	2.6	3.3	3.3
Service industries	1,354	1,255	5.6	5.0	5.3	4.2	5.8	5.4
Professional services	544	469	4.0	3.3	2.7	2.3	4.6	3.7
Other service industries	810	786	7.6	7.1	7.2	5.7	7.9	8.5
Agricultural wage and salary workers	132	175	7.3	9.7	6.8	9.2	9.5	11.6
Government, self-employed, and unpaid family workers	776	682	2.8	2.4	2.2	2.1	3.5	2.8
No previous work experience	854	716	-	-	-	-	-	-

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. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
NUMBER OF UNEMPLOYED												
Total unemployed	6,857	6,368	2,783	2,540	2,833	2,616	1,240	1,212	5,033	4,782	1,619	1,414
Job losers	2,942	2,732	1,789	1,565	969	944	184	223	2,210	2,101	667	575
On layoff	643	636	432	356	178	247	33	33	524	500	113	118
Other job losers	2,299	2,096	1,357	1,209	791	697	151	190	1,686	1,601	554	457
Job leavers	1,086	1,099	423	415	485	470	178	213	862	866	184	204
Reentrants	1,975	1,821	486	463	1,175	1,044	314	314	1,397	1,369	525	398
New entrants	854	717	85	97	205	158	565	462	564	447	244	237
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	42.9	42.9	64.3	61.6	34.2	36.1	14.8	18.4	43.9	33.5	41.2	40.6
On layoff	9.4	10.0	15.5	14.0	6.3	9.5	2.7	2.7	10.4	10.5	7.0	8.3
Other job losers	33.5	32.9	48.8	47.6	27.9	26.6	12.1	15.7	33.5	23.0	34.2	32.3
Job leavers	15.8	17.3	15.2	16.4	17.1	18.0	14.4	17.6	17.1	18.1	11.4	14.5
Reentrants	28.8	28.6	17.5	18.2	41.5	39.9	25.3	25.9	27.8	28.6	32.4	28.1
New entrants	12.5	11.3	3.0	3.8	7.2	6.0	45.5	38.1	11.2	9.3	15.1	16.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.4	2.2	2.9	2.5	2.0	1.9	2.4	2.9	2.1	1.5	5.1	4.4
Job leavers .....	.9	.9	.7	.7	1.0	.9	2.4	2.8	.8	.8	1.4	1.6
Reentrants	1.6	1.5	.8	.7	2.3	2.0	4.2	4.1	1.4	1.3	4.0	3.0
New entrants .....	.7	.6	.1	.2	.4	.3	7.5	6.0	.5	.4	1.9	1.8

**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 1988						
	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	6,368	100.0	51.9	25.6	22.4	10.1	12.3
Job losers	2,732	100.0	40.7	27.5	31.8	14.3	17.5
On layoff	636	100.0	56.6	23.1	20.2	10.5	9.8
Other job losers	2,096	100.0	35.9	28.8	35.3	15.5	19.8
Job leavers	1,099	100.0	58.4	28.2	13.4	6.5	6.9
Reentrants	1,821	100.0	61.2	21.5	17.2	7.2	10.1
New entrants	717	100.0	61.1	25.0	13.8	7.3	6.6
Men, 20 years and over	2,540	100.0	40.3	27.4	32.3	12.9	19.4
Job losers	1,565	100.0	35.2	26.1	38.7	15.1	23.5
On layoff	356	100.0	57.0	19.8	23.2	11.9	11.3
Other job losers	1,209	100.0	28.8	28.0	43.2	16.1	27.1
Job leavers	415	100.0	49.9	32.5	17.6	8.6	9.0
Reentrants	463	100.0	46.8	27.3	26.0	10.6	15.4
New entrants	97	100.0	49.1	27.4	23.5	6.6	16.8
Women, 20 years and over	2,616	100.0	56.5	23.7	19.8	9.9	9.9
Job losers	944	100.0	44.3	29.7	26.0	15.0	11.0
On layoff	247	100.0	55.9	27.8	16.3	8.4	8.0
Other job losers	697	100.0	40.2	30.4	29.5	17.4	12.1
Job leavers	470	100.0	58.0	26.9	15.2	7.6	7.6
Reentrants	1,044	100.0	65.3	17.9	16.8	6.7	10.0
New entrants	158	100.0	66.9	16.6	16.5	6.8	9.7
Both sexes, 16 to 19 years	1,212	100.0	66.6	26.1	7.3	4.8	2.6
Job losers	223	100.0	64.5	27.7	7.8	5.6	2.2
On layoff	33	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	190	100.0	65.7	28.4	6.0	4.6	1.4
Job leavers	213	100.0	76.1	22.8	1.1	-	1.1
Reentrants	314	100.0	68.9	25.2	5.9	3.6	2.4
New entrants	462	100.0	61.7	27.4	10.9	7.6	3.4

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. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
	Total, 16 years and over	6,857	6,368	100.0	100.0	5,228	4,873	100.0	100.0
Less than 5 weeks	3,391	3,308	49.5	51.9	2,253	2,224	43.1	45.6
5 to 14 weeks	1,764	1,632	25.7	25.6	1,442	1,318	27.6	27.0
5 to 10 weeks	1,250	1,133	18.2	17.8	1,036	910	19.8	18.7
11 to 14 weeks	515	500	7.5	7.9	407	408	7.8	8.4
15 weeks and over	1,701	1,428	24.8	22.4	1,532	1,331	29.3	27.3
15 to 26 weeks	744	644	10.9	10.1	649	585	12.4	12.0
27 weeks and over	957	784	14.0	12.3	884	746	16.9	15.3
27 to 51 weeks	411	303	6.0	4.8	384	287	7.3	5.9
52 weeks and over	546	481	8.0	7.6	500	459	9.6	9.4
Average (mean) duration, in weeks	13.9	13.3			16.0	15.6		
Median duration, in weeks	5.1	4.8			6.8	6.3		

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	
	September 1988							Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
Total, 16 years and over	6,368	3,308	1,632	644	784	13.3	4.8	49.5	51.9	24.8	22.4
16 to 19 years	1,212	807	316	58	31	6.4	3.8	68.3	66.6	8.8	7.3
20 to 24 years	1,141	705	246	97	93	9.4	4.0	56.5	61.8	17.7	16.7
25 to 34 years	1,871	939	487	225	219	13.1	5.0	46.1	50.2	26.2	23.8
35 to 44 years	1,071	428	300	123	220	19.3	8.3	41.9	40.0	30.8	32.0
45 to 54 years	653	256	200	89	108	17.4	7.4	36.8	39.2	42.7	30.1
55 to 64 years	351	147	62	46	95	23.6	9.4	29.2	42.0	43.1	40.4
65 years and over	70	26	21	6	17	(¹)	(¹)	39.4	(¹)	34.5	(¹)
Men, 16 years and over	3,183	1,444	866	364	509	16.3	6.4	44.8	45.4	30.4	27.4
16 to 19 years	643	421	170	36	16	6.5	3.8	68.6	65.6	8.9	8.0
20 to 24 years	569	316	152	56	44	9.3	4.5	54.3	55.5	20.6	17.7
25 to 34 years	895	368	256	125	145	16.8	7.1	41.7	41.2	32.0	30.2
35 to 44 years	523	158	157	72	135	24.2	10.5	29.8	30.3	43.3	39.7
45 to 54 years	330	111	86	51	82	23.8	9.9	31.3	33.5	49.5	40.5
55 to 64 years	193	59	36	22	76	31.6	16.0	24.3	30.5	48.8	51.0
65 years and over	30	11	9	-	10	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,186	1,864	766	281	274	10.4	4.3	54.1	58.5	19.2	17.4
16 to 19 years	569	386	146	23	15	6.3	3.7	67.9	67.8	8.8	6.5
20 to 24 years	572	389	93	41	49	9.4	3.7	58.5	68.0	14.9	15.6
25 to 34 years	976	571	231	100	74	9.7	4.3	50.1	58.5	20.9	17.8
35 to 44 years	548	270	143	50	84	14.7	5.3	52.7	49.2	19.5	24.6
45 to 54 years	323	146	114	37	25	10.9	5.9	44.7	45.1	33.1	19.5
55 to 64 years	158	88	26	24	19	13.7	4.5	35.2	56.0	36.0	27.5
65 years and over	40	15	11	6	8	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,782	2,559	1,180	501	542	12.5	4.7	50.7	53.5	23.6	21.8
Men	2,451	1,148	625	289	389	16.0	5.9	45.4	46.9	29.7	27.7
Women	2,331	1,411	555	212	153	8.9	4.1	56.2	60.5	17.2	15.7
Black, 16 years and over	1,414	681	391	126	217	16.0	5.6	45.3	48.1	28.7	24.2
Men	649	270	204	65	111	17.8	7.5	40.7	41.6	34.0	27.1
Women	765	410	187	61	106	14.4	4.7	49.0	53.7	24.4	21.8
Men, 16 years and over:											
Married, spouse present	1,122	401	296	150	275	22.5	9.6	34.3	35.7	38.7	37.9
Widowed, divorced, or separated	413	147	112	60	94	21.1	9.5	30.2	35.7	45.0	37.1
Single (never married)	1,649	896	458	154	140	10.9	4.6	56.4	54.3	20.6	17.9
Women, 16 years and over:											
Married, spouse present	1,186	703	301	84	98	9.7	4.2	54.3	59.3	17.4	15.3
Widowed, divorced, or separated	736	407	171	76	83	11.5	4.5	45.7	55.3	27.5	21.6
Single (never married)	1,264	755	295	121	94	10.3	4.2	59.2	59.7	15.8	17.0

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	
								Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
	September 1988										
OCCUPATION											
Managerial and professional specialty	624	277	167	105	75	14.9	6.7	42.1	44.3	28.9	28.8
Technical, sales, and administrative support	1,573	843	425	111	194	13.0	4.7	49.7	53.6	21.3	19.4
Service occupations	1,056	637	250	83	85	9.6	4.1	56.9	60.3	20.5	15.9
Precision production, craft, and repair	603	279	152	73	99	16.7	6.2	44.3	46.2	32.0	28.6
Operators, fabricators, and laborers	1,513	683	385	191	254	16.3	6.4	44.5	45.1	31.5	29.4
Farming, forestry, and fishing	258	142	67	20	30	12.3	4.6	54.6	54.9	22.0	19.4
INDUSTRY¹											
Agriculture	175	98	46	15	16	12.1	4.5	48.9	55.8	25.3	17.9
Construction	492	270	127	45	50	12.5	4.6	47.3	54.9	29.3	19.3
Manufacturing	1,182	493	330	127	232	18.8	7.3	45.0	41.7	33.9	30.4
Durable goods	666	247	188	67	165	22.1	9.5	42.2	37.1	34.6	34.8
Nondurable goods	516	246	143	60	67	14.6	5.5	48.7	47.7	32.9	24.6
Transportation and public utilities	246	118	61	29	37	14.4	6.1	43.4	48.1	28.5	27.1
Wholesale and retail trade	1,402	781	355	113	152	11.9	4.5	51.1	55.7	22.7	19.0
Finance and service industries	1,746	935	442	204	165	11.1	4.8	51.5	53.6	20.8	21.1
Public administration	189	88	49	30	23	14.3	6.2	40.2	46.5	29.9	27.7
No previous work experience	716	437	180	52	47	9.9	4.1	57.2	61.1	16.7	13.9

¹ Includes wage and salary workers only.

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

Sex, age, and race	September 1988								
	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	6,368	5,601	19.8	7.9	75.8	34.8	17.7	5.0	1.61
16 to 19 years	1,212	1,166	10.3	3.9	78.8	21.4	13.6	4.8	1.33
20 to 24 years	1,141	1,032	24.1	9.0	79.7	36.8	17.8	3.9	1.71
25 to 34 years	1,871	1,607	22.0	7.7	74.4	38.0	19.5	5.5	1.67
35 to 44 years	1,071	928	22.7	12.8	74.4	41.4	18.2	3.9	1.73
45 to 54 years	653	518	23.6	8.3	75.9	39.2	18.9	7.9	1.74
55 to 64 years	351	290	16.2	5.9	64.5	38.6	17.9	4.1	1.47
65 years and over	70	60	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	3,183	2,738	20.6	7.7	77.9	32.1	19.7	4.9	1.63
16 to 19 years	643	617	10.2	1.9	82.0	17.5	15.6	3.2	1.30
20 to 24 years	569	501	26.9	12.8	78.6	38.5	17.6	3.2	1.78
25 to 34 years	895	730	20.1	7.4	77.9	32.5	21.9	6.2	1.66
35 to 44 years	523	427	28.1	14.3	77.3	42.6	23.0	3.3	1.89
45 to 54 years	330	275	22.5	5.1	78.2	33.1	20.7	8.7	1.68
55 to 64 years	193	159	22.0	5.0	62.9	37.1	23.9	6.3	1.57
65 years and over	30	29	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,186	2,863	19.1	8.0	73.8	37.4	15.7	5.1	1.59
16 to 19 years	569	549	10.4	6.2	75.0	25.9	11.3	6.6	1.35
20 to 24 years	572	531	21.5	5.5	80.6	35.2	18.1	4.5	1.65
25 to 34 years	976	877	23.5	7.9	71.5	42.6	17.4	4.9	1.68
35 to 44 years	548	501	18.2	11.6	71.9	40.3	14.2	4.6	1.61
45 to 54 years	323	243	24.7	12.3	73.3	46.1	16.5	7.0	1.80
55 to 64 years	158	131	8.4	6.1	66.4	40.5	11.5	2.3	1.35
65 years and over	40	31	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,782	4,161	20.0	8.6	75.5	37.2	17.2	4.8	1.63
Men	2,451	2,094	21.3	8.3	77.1	34.3	19.6	4.9	1.66
Women	2,331	2,067	18.7	8.9	73.7	40.2	14.8	4.7	1.61
Black, 16 years and over	1,414	1,287	19.6	5.4	76.9	26.7	18.2	5.2	1.52
Men	649	570	18.2	4.9	81.2	22.1	19.1	4.6	1.50
Women	765	717	20.6	5.9	73.5	30.4	17.4	5.7	1.54

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 1988								
	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	6,368	5,601	19.8	7.9	75.8	34.8	17.7	5.0	1.61
Job losers ¹	2,732	2,084	25.3	9.4	79.7	36.9	19.0	4.2	1.74
Job leavers	1,099	1,090	18.3	10.4	74.5	39.5	16.2	4.4	1.63
Reentrants	1,821	1,713	16.9	6.4	71.2	33.7	16.9	6.9	1.52
New entrants	717	715	13.1	3.4	77.2	24.1	17.8	3.5	1.39
Men, 16 years and over	3,183	2,738	20.6	7.7	77.9	32.1	19.7	4.9	1.63
Job losers ¹	1,697	1,310	25.3	8.1	79.2	33.4	20.7	4.4	1.71
Job leavers	542	521	19.2	12.1	76.4	35.1	19.6	4.2	1.67
Reentrants	623	585	15.2	5.5	74.5	32.6	19.8	7.7	1.55
New entrants	321	321	14.0	3.4	81.3	20.9	16.2	3.1	1.39
Women, 16 years and over	3,186	2,863	19.1	8.0	73.8	37.4	15.7	5.1	1.59
Job losers ¹	1,035	774	25.3	11.5	80.6	43.0	16.1	3.9	1.80
Job leavers	556	568	17.4	8.8	72.9	43.5	13.2	4.6	1.60
Reentrants	1,198	1,127	17.9	6.7	69.5	34.4	15.4	6.7	1.51
New entrants	396	394	12.4	3.6	73.9	26.6	19.0	3.8	1.39

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. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
All industries	113,027	115,474	62,622	63,742	50,405	51,732
16 to 19 years	6,305	6,516	3,248	3,340	3,057	3,176
16 to 17 years	2,614	2,519	1,320	1,327	1,294	1,192
18 to 19 years	3,691	3,996	1,928	2,013	1,762	1,983
20 to 24 years	13,438	13,171	7,062	6,929	6,377	6,242
25 to 54 years	78,697	81,046	43,746	44,928	34,952	36,118
25 to 34 years	33,454	33,730	18,766	18,955	14,688	14,774
35 to 44 years	27,557	28,713	15,144	15,724	12,413	12,989
45 to 54 years	17,686	18,604	9,835	10,249	7,851	8,355
55 to 64 years	11,476	11,514	6,669	6,602	4,808	4,912
55 to 59 years	6,964	6,916	4,002	3,942	2,962	2,974
60 to 64 years	4,513	4,598	2,666	2,660	1,846	1,938
65 years and over	3,110	3,227	1,897	1,943	1,212	1,284
Agriculture	3,277	3,250	2,627	2,565	650	685
16 to 19 years	229	282	194	240	35	42
16 to 17 years	111	121	97	101	13	19
18 to 19 years	119	161	97	138	22	23
20 to 24 years	383	336	329	281	54	55
25 to 54 years	1,901	1,892	1,468	1,450	433	442
25 to 34 years	815	819	646	652	169	166
35 to 44 years	611	619	472	452	139	167
45 to 54 years	476	455	350	346	125	108
55 to 64 years	459	448	366	347	93	101
55 to 59 years	234	254	173	194	61	60
60 to 64 years	226	194	193	153	33	41
65 years and over	305	291	270	247	35	44
Nonagricultural industries	109,750	112,225	59,995	61,177	49,755	51,048
16 to 19 years	6,076	6,234	3,054	3,100	3,022	3,133
16 to 17 years	2,504	2,399	1,223	1,226	1,281	1,173
18 to 19 years	3,572	3,835	1,831	1,875	1,741	1,960
20 to 24 years	13,055	12,835	6,732	6,648	6,323	6,186
25 to 54 years	76,797	79,154	42,278	43,477	34,519	35,677
25 to 34 years	32,639	32,911	18,121	18,303	14,519	14,608
35 to 44 years	26,947	28,094	14,672	15,272	12,274	12,822
45 to 54 years	17,210	18,149	9,485	9,902	7,725	8,247
55 to 64 years	11,017	11,066	6,303	6,255	4,714	4,811
55 to 59 years	6,730	6,662	3,829	3,748	2,901	2,913
60 to 64 years	4,287	4,404	2,474	2,507	1,813	1,898
65 years and over	2,805	2,936	1,627	1,696	1,178	1,240

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-22. Employed civilians by occupation, sex, and age

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
Total	113,027	115,474	62,622	63,742	59,373	60,402	50,405	51,732	47,349	48,556
Managerial and professional specialty	28,107	29,537	15,743	16,395	15,656	16,316	12,364	13,142	12,276	13,035
Executive, administrative, and managerial	13,692	14,302	8,577	8,714	8,545	8,672	5,116	5,588	5,074	5,531
Officials and administrators, public administration	568	567	334	332	332	332	234	235	234	235
Other executive, administrative, and managerial	9,476	10,063	6,372	6,556	6,346	6,519	3,104	3,507	3,072	3,460
Management-related occupations	3,648	3,672	1,871	1,827	1,867	1,820	1,777	1,845	1,768	1,836
Professional specialty	14,415	15,235	7,167	7,681	7,112	7,644	7,248	7,554	7,202	7,504
Engineers	1,722	1,849	1,610	1,734	1,608	1,729	112	115	112	115
Mathematical and computer scientists	656	745	406	479	407	479	249	266	250	264
Natural scientists	417	395	318	312	318	312	99	83	99	83
Health diagnosing occupations	842	912	690	730	690	730	152	182	152	181
Health assessment and treating occupations	2,203	2,163	294	312	290	311	1,909	1,851	1,909	1,848
Teachers, college and university	601	723	352	441	349	437	249	282	246	283
Teachers, except college and university	3,538	3,833	950	1,019	939	1,016	2,588	2,814	2,570	2,789
Lawyers and judges	665	765	541	639	541	639	124	126	125	126
Other professional specialty occupations	3,770	3,850	2,004	2,014	1,970	1,991	1,766	1,836	1,739	1,814
Technical, sales, and administrative support	35,080	35,509	12,308	12,463	11,673	11,886	22,771	23,046	21,200	21,334
Technicians and related support	3,432	3,676	1,741	1,918	1,714	1,889	1,692	1,758	1,676	1,731
Health technologists and technicians	1,223	1,307	213	230	205	226	1,010	1,077	1,000	1,063
Engineering and science technicians	1,063	1,196	842	952	829	935	221	244	219	234
Technicians, except health, engineering, and science	1,146	1,174	686	736	680	729	460	438	457	435
Sales occupations	13,470	13,575	7,007	6,879	6,620	6,512	6,463	6,696	5,518	5,686
Supervisors and proprietors	3,562	3,623	2,380	2,342	2,371	2,329	1,182	1,281	1,151	1,232
Sales representatives, finance and business services	2,295	2,413	1,348	1,427	1,338	1,413	947	986	912	946
Sales representatives, commodities, except retail	1,567	1,579	1,301	1,245	1,300	1,232	266	333	253	329
Sales workers, retail and personal services	5,985	5,900	1,954	1,850	1,591	1,529	4,031	4,050	3,165	3,139
Sales-related occupations	61	61	23	15	21	9	38	46	38	39
Administrative support, including clerical	18,177	18,259	3,561	3,667	3,339	3,485	14,616	14,592	14,005	13,917
Supervisors	767	741	312	331	310	328	455	410	451	408
Computer equipment operators	944	861	316	296	304	288	627	565	610	531
Secretaries, stenographers, and typists	4,930	4,736	87	91	82	84	4,843	4,645	4,662	4,476
Financial records processing	2,372	2,520	196	221	190	203	2,176	2,299	2,139	2,242
Mail and message distributing	964	981	622	616	595	592	343	364	327	343
Other administrative support, including clerical	8,200	8,420	2,028	2,112	1,858	1,990	6,172	6,308	5,816	5,916
Service occupations	14,754	15,223	5,783	6,069	4,879	5,180	8,972	9,153	7,859	8,090
Private household	816	851	26	16	22	10	790	835	654	731
Protective service	1,856	1,971	1,599	1,697	1,554	1,656	257	274	249	267
Service, except private household and protective	12,082	12,400	4,158	4,356	3,302	3,514	7,924	8,045	6,957	7,091
Food service	5,165	5,233	1,893	2,019	1,276	1,412	3,272	3,213	2,557	2,551
Health service	1,771	1,888	187	177	170	165	1,585	1,711	1,511	1,624
Cleaning and building service	2,828	3,005	1,622	1,761	1,479	1,586	1,206	1,244	1,145	1,163
Personal service	2,317	2,275	455	398	377	351	1,862	1,877	1,743	1,753
Precision production, craft, and repair	13,714	13,514	12,557	12,333	12,227	12,045	1,157	1,181	1,139	1,138
Mechanics and repairers	4,541	4,281	4,375	4,149	4,259	4,053	167	132	165	132
Construction trades	5,047	5,145	4,933	5,038	4,772	4,891	114	107	112	101
Other precision production, craft, and repair	4,126	4,088	3,249	3,146	3,196	3,100	876	941	862	906
Operators, fabricators, and laborers	17,796	18,106	13,189	13,495	12,189	12,324	4,606	4,611	4,377	4,410
Machine operators, assemblers, and inspectors	8,163	8,156	4,762	4,850	4,590	4,625	3,401	3,307	3,291	3,229
Manufacturing industries	6,812	6,781	3,930	3,993	3,813	3,832	2,881	2,788	2,811	2,737
Durable goods	3,811	3,751	2,594	2,587	2,529	2,483	1,216	1,164	1,191	1,147
Nondurable goods	3,001	3,030	1,336	1,406	1,285	1,349	1,665	1,624	1,620	1,590
Nonmanufacturing industries	1,352	1,375	832	857	777	793	520	518	481	492
Transportation and material moving occupations	4,785	5,056	4,438	4,632	4,319	4,498	347	425	339	416
Motor vehicle operators	3,523	3,745	3,208	3,353	3,106	3,244	315	392	306	384
Other transportation and material moving occupations	1,262	1,311	1,230	1,279	1,213	1,254	32	32	32	32
Handlers, equipment cleaners, helpers, and laborers	4,847	4,893	3,989	4,014	3,279	3,200	858	879	747	765
Construction laborers	829	899	799	853	720	764	31	46	30	42
Other handlers, equipment cleaners, helpers, and laborers	4,018	3,994	3,190	3,160	2,559	2,436	827	834	717	723
Farming, forestry, and fishing	3,577	3,586	3,041	2,986	2,749	2,652	536	600	497	549
Farm operators and managers	1,336	1,374	1,119	1,143	1,114	1,129	217	231	211	231
Other farming, forestry, and fishing occupations	2,240	2,212	1,921	1,843	1,635	1,523	319	369	286	319

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
TOTAL						
Total, 16 years and over (thousands)	113,027	115,474	62,622	63,742	50,405	51,732
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.9	25.6	25.1	25.7	24.5	25.4
Executive, administrative, and managerial	12.1	12.4	13.7	13.7	10.1	10.8
Professional specialty	12.8	13.2	11.4	12.1	14.4	14.6
Technical, sales, and administrative support	31.0	30.8	19.7	19.6	45.2	44.5
Technicians and related support	3.0	3.2	2.8	3.0	3.4	3.4
Sales occupations	11.9	11.8	11.2	10.8	12.8	12.9
Administrative support, including clerical	16.1	15.8	5.7	5.8	29.0	28.2
Service occupations	13.1	13.2	9.2	9.5	17.8	17.7
Private household .....	.7	.7	(¹)	(¹)	1.6	1.6
Protective service	1.6	1.7	2.6	2.7	.5	.5
Service, except private household and protective	10.7	10.7	6.6	6.8	15.7	15.6
Precision production, craft, and repair	12.1	11.7	20.1	19.3	2.3	2.3
Operators, fabricators, and laborers	15.7	15.7	21.1	21.2	9.1	8.9
Machine operators, assemblers, and inspectors	7.2	7.1	7.6	7.6	6.7	6.4
Transportation and material moving occupations	4.2	4.4	7.1	7.3	.7	.8
Handlers, equipment cleaners, helpers, and laborers	4.3	4.2	6.4	6.3	1.7	1.7
Farming, forestry, and fishing	3.2	3.1	4.9	4.7	1.1	1.2
White						
Total, 16 years and over (thousands)	98,261	100,177	55,014	55,862	43,247	44,315
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.9	26.7	26.2	26.9	25.5	26.5
Executive, administrative, and managerial	12.8	13.1	14.5	14.5	10.7	11.4
Professional specialty	13.1	13.6	11.7	12.4	14.8	15.1
Technical, sales, and administrative support	31.5	31.0	20.0	19.6	46.1	45.4
Technicians and related support	3.0	3.1	2.8	3.0	3.3	3.3
Sales occupations	12.5	12.3	11.8	11.4	13.3	13.5
Administrative support, including clerical	16.0	15.6	5.3	5.3	29.5	28.6
Service occupations	11.9	12.0	8.3	8.6	16.5	16.3
Private household .....	.6	.7	(¹)	(¹)	1.3	1.5
Protective service	1.5	1.6	2.4	2.5	.5	.4
Service, except private household and protective	9.8	9.8	5.9	6.1	14.7	14.4
Precision production, craft, and repair	12.7	12.1	20.8	20.0	2.3	2.3
Operators, fabricators, and laborers	14.7	14.8	19.7	20.0	8.4	8.2
Machine operators, assemblers, and inspectors	6.7	6.7	7.2	7.3	6.1	5.9
Transportation and material moving occupations	4.0	4.1	6.6	6.8	.7	.8
Handlers, equipment cleaners, helpers, and laborers	4.0	4.0	5.8	5.9	1.6	1.6
Farming, forestry, and fishing	3.3	3.3	5.0	4.9	1.2	1.3
Black						
Total, 16 years and over (thousands)	11,398	11,764	5,749	5,919	5,649	5,845
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	14.8	15.0	12.7	12.9	17.0	17.1
Executive, administrative, and managerial	6.2	6.8	6.2	6.6	6.2	6.9
Professional specialty	8.6	8.2	6.5	6.4	10.9	10.1
Technical, sales, and administrative support	27.3	28.4	15.7	18.0	39.0	38.9
Technicians and related support	2.7	3.2	1.9	2.7	3.5	3.7
Sales occupations	7.2	7.0	5.1	5.3	9.4	8.6
Administrative support, including clerical	17.3	18.2	8.7	10.0	26.1	26.5
Service occupations	22.2	22.6	17.1	17.1	27.4	28.2
Private household	1.7	1.5	.1	.1	3.4	2.9
Protective service	2.7	2.9	4.3	4.4	1.0	1.4
Service, except private household and protective	17.8	18.2	12.7	12.7	23.0	23.9
Precision production, craft, and repair	8.3	8.5	14.5	15.0	1.9	2.0
Operators, fabricators, and laborers	25.1	23.7	35.9	33.8	14.0	13.4
Machine operators, assemblers, and inspectors	11.0	10.2	11.3	10.7	10.7	9.7
Transportation and material moving occupations	6.7	6.8	12.5	12.2	.9	1.4
Handlers, equipment cleaners, helpers, and laborers	7.4	6.7	12.2	10.9	2.5	2.4
Farming, forestry, and fishing	2.3	1.8	4.1	3.2	.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 1988								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	103,400	1,077	17,035	85,288	8,592	232	1,626	1,500	123
16 to 19 years	6,162	162	263	5,738	57	15	222	33	27
16 to 17 years	2,367	101	61	2,205	25	6	88	14	19
18 to 19 years	3,795	60	201	3,533	31	9	134	19	8
20 to 24 years	12,540	120	1,045	11,374	291	4	266	62	9
25 to 34 years	30,871	183	4,227	26,461	1,995	45	517	286	16
35 to 44 years	25,428	187	5,344	19,897	2,583	83	294	311	13
45 to 54 years	16,337	135	3,662	12,540	1,755	58	144	291	19
55 to 64 years	9,728	172	2,111	7,444	1,316	22	126	298	24
55 to 59 years	5,882	89	1,337	4,457	773	6	71	168	15
60 to 64 years	3,845	84	774	2,987	543	16	56	130	8
65 years and over	2,335	118	383	1,834	596	5	57	218	16
Men, 16 years and over	55,524	143	8,051	47,329	5,625	28	1,278	1,245	42
16 to 19 years	3,062	48	127	2,887	25	13	191	30	19
16 to 17 years	1,205	38	32	1,135	16	5	75	12	14
18 to 19 years	1,857	10	95	1,752	10	8	116	17	5
20 to 24 years	6,443	22	443	5,978	200	5	223	54	4
25 to 34 years	17,031	29	2,097	14,904	1,270	3	406	240	6
35 to 44 years	13,599	10	2,405	11,184	1,669	4	210	242	1
45 to 54 years	8,729	18	1,771	6,941	1,172	1	111	236	-
55 to 64 years	5,387	11	1,014	4,362	867	1	99	244	3
55 to 59 years	3,240	7	642	2,591	507	1	57	134	3
60 to 64 years	2,147	4	372	1,771	360	-	43	111	-
65 years and over	1,273	6	194	1,074	421	2	39	199	9
Women, 16 years and over	47,877	934	8,984	37,959	2,967	204	348	255	81
16 to 19 years	3,100	114	135	2,851	31	2	31	4	8
16 to 17 years	1,162	63	29	1,070	10	1	13	2	5
18 to 19 years	1,938	50	106	1,781	21	1	19	1	3
20 to 24 years	6,096	98	602	5,396	91	-	43	7	5
25 to 34 years	13,841	154	2,130	11,557	725	42	111	46	9
35 to 44 years	11,829	177	2,939	8,713	914	79	85	70	13
45 to 54 years	7,607	117	1,891	5,599	582	57	34	56	19
55 to 64 years	4,341	162	1,097	3,082	449	21	27	54	20
55 to 59 years	2,643	82	695	1,865	266	5	14	35	12
60 to 64 years	1,698	79	402	1,217	183	16	13	19	8
65 years and over	1,062	112	190	760	175	3	18	19	8

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	September 1988												
	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	3,250	83	58	9	22	91		18	29	4	45	16	2,875
Mining	753	116	80	33	18	80		7	227	26	117	49	-
Construction	7,953	1,054	172	58	93	471		34	4,407	89	547	1,005	25
Manufacturing	21,393	2,464	1,835	745	673	2,499		346	3,958	6,781	814	1,182	96
Durable goods	12,752	1,484	1,221	515	282	1,409		198	2,727	3,751	459	616	90
Nondurable goods	8,642	979	615	230	391	1,091		148	1,231	3,030	356	567	5
Transportation and public utilities	7,980	939	451	275	276	2,134		232	1,228	99	1,839	502	6
Wholesale and retail trade	23,698	2,104	459	154	9,686	2,364	-	4,317	1,494	313	1,052	1,717	37
Wholesale trade	4,756	526	101	90	1,809	780		56	337	161	562	324	10
Retail trade	18,942	1,578	358	65	7,877	1,584		4,261	1,157	152	489	1,393	27
Finance, insurance, and real estate	7,937	1,975	181	149	1,918	3,188	-	277	141	22	15	13	57
Services	37,035	4,403	11,227	1,989	862	5,977	851	7,808	1,754	799	561	372	434
Private households	1,083	1	12	6	4	14	851	61	12	1	10	18	95
Other service industries	35,952	4,402	11,215	1,983	858	5,962	-	7,747	1,743	798	551	354	339
Professional services	23,721	2,296	9,995	1,653	156	4,266		4,286	377	203	318	89	82
Public administration	5,475	1,165	771	264	26	1,455		1,334	275	24	68	36	56

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. 1987	Sept. 1988	Total		Wage and salary workers ¹			
			Sept. 1987	Sept. 1988	Paid absences		Unpaid absences	
					Sept. 1987	Sept. 1988	Sept. 1987	Sept. 1988
Total, 16 years and over	5,804	4,810	5,711	4,733	3,109	2,501	2,054	1,760
Vacation	3,344	2,303	3,308	2,279	2,366	1,678	678	413
Illness	1,254	1,310	1,228	1,293	484	549	665	668
Bad weather	31	52	22	46	(²)	(²)	(²)	(²)
Industrial dispute	89	45	89	45	(²)	(²)	(²)	(²)
All other reasons	1,085	1,099	1,065	1,070	259	274	712	679
Men, 16 years and over	2,930	2,350	2,850	2,300	1,694	1,262	865	770
Vacation	1,757	1,220	1,731	1,203	1,321	903	281	198
Illness	672	642	645	631	264	270	335	316
All other reasons ³	500	489	473	466	108	89	249	256
Women, 16 years and over	2,874	2,459	2,861	2,433	1,415	1,240	1,188	992
Vacation	1,588	1,083	1,576	1,076	1,045	775	395	216
Illness	582	669	583	662	220	280	330	353
All other reasons ³	705	707	703	694	150	185	462	423

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 1988					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	110,664	3,172	107,492	100.0	100.0	100.0
1 to 34 hours	25,441	874	24,566	23.0	27.5	22.9
1 to 4 hours	713	45	668	.6	1.4	.6
5 to 14 hours	4,406	198	4,208	4.0	6.2	3.9
15 to 29 hours	13,045	451	12,593	11.8	14.2	11.7
30 to 34 hours	7,277	180	7,097	6.6	5.7	6.6
35 hours and over	85,223	2,299	82,924	77.0	72.5	77.1
35 to 39 hours	7,295	142	7,153	6.6	4.5	6.7
40 hours	43,563	614	42,949	39.4	19.4	40.0
41 hours and over	34,365	1,543	32,822	31.1	48.6	30.5
41 to 48 hours	12,160	245	11,915	11.0	7.7	11.1
49 to 59 hours	12,996	451	12,545	11.7	14.2	11.7
60 hours and over	9,209	847	8,362	8.3	26.7	7.8
Average hours, total at work	39.7	44.6	39.5			
Average hours, workers on full-time schedules	44.0	52.3	43.8			

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 1988					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	25,441	7,057	18,384	24,566	6,788	17,780
Economic reasons	4,704	1,695	3,009	4,458	1,585	2,873
Slack work	2,041	1,223	818	1,885	1,125	760
Material shortages or repairs to plant and equipment	68	68	-	65	65	-
New job started during week	270	270	-	265	265	-
Job terminated during week	134	134	-	130	130	-
Could find only part-time work	2,191	-	2,191	2,113	-	2,113
Other reasons	20,738	5,363	15,375	20,106	5,200	14,906
Does not want, or unavailable for, full-time work	12,909	-	12,909	12,530	-	12,530
Vacation	1,248	1,248	-	1,230	1,230	-
Illness	1,425	1,274	151	1,390	1,245	145
Bad weather	686	686	-	626	626	-
Industrial dispute	13	13	-	13	13	-
Legal or religious holiday	552	552	-	548	548	-
Full time for this job	1,748	-	1,748	1,714	-	1,714
All other reasons	2,156	1,590	566	2,057	1,541	516
Average hours:						
Economic reasons	21.9	24.0	20.7	22.0	24.2	20.8
Other reasons	21.2	26.2	19.5	21.3	26.3	19.6
Worked 30 to 34 hours:						
Economic reasons	1,470	739	731	1,434	716	718
Other reasons	5,807	2,756	3,051	5,663	2,686	2,977

**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 1988								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	107,492	4,458	14,906	88,128	55,306	11,915	20,907	39.5	43.8
Wage and salary workers	99,100	3,913	13,424	81,763	52,478	11,304	17,981	39.4	43.4
Mining	671	9	20	642	358	91	193	44.8	45.8
Construction	6,247	373	307	5,567	3,635	688	1,244	40.7	43.1
Manufacturing	20,060	444	687	18,929	11,669	3,109	4,151	42.4	43.6
Durable goods	11,947	162	278	11,507	6,982	1,923	2,602	42.9	43.7
Nondurable goods	8,113	282	409	7,422	4,686	1,186	1,550	41.7	43.5
Transportation and public utilities	7,220	209	417	6,594	4,112	961	1,521	42.2	44.2
Wholesale and retail trade	20,933	1,210	4,961	14,762	8,717	2,361	3,684	37.1	44.0
Finance, insurance, and real estate	6,973	152	710	6,111	4,137	750	1,224	39.8	42.4
Service industries	31,756	1,461	6,079	24,216	16,264	2,822	5,130	37.5	43.1
Private households	1,045	214	422	409	266	57	86	26.5	43.2
All other industries	30,711	1,247	5,657	23,807	15,998	2,765	5,044	37.9	43.1
Public administration	5,241	54	242	4,945	3,590	522	833	41.7	43.1
Self-employed workers	8,160	539	1,388	6,233	2,764	600	2,869	41.2	48.2
Unpaid family workers	232	6	93	133	64	11	58	36.2	47.1

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 1988							
	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	107,492	4,458	14,906	88,128	55,306	32,822	39.5	43.8
16 to 19 years	6,107	488	3,503	2,116	1,614	502	25.4	40.2
16 to 17 years	2,344	108	1,975	261	216	45	18.1	36.8
18 to 19 years	3,764	380	1,528	1,856	1,400	456	30.0	40.7
20 years and over	101,385	3,971	11,403	86,011	53,690	32,321	40.4	43.9
20 to 24 years	12,409	753	1,996	9,660	6,584	3,076	37.9	42.7
25 years and over	88,976	3,219	9,406	76,351	47,106	29,245	40.7	44.0
25 to 44 years	58,608	2,119	5,242	51,247	31,108	20,139	41.2	44.1
45 to 64 years	27,636	975	2,888	23,773	15,093	8,680	40.7	43.8
65 years and over	2,731	124	1,276	1,331	906	425	29.5	42.3
Men, 16 years and over	58,877	1,967	4,486	52,424	29,215	23,209	42.5	45.3
16 to 19 years	3,043	237	1,659	1,147	809	338	26.6	41.4
16 to 17 years	1,202	70	982	150	118	32	18.7	37.2
18 to 19 years	1,840	166	677	997	693	304	31.8	42.0
20 years and over	55,834	1,730	2,827	51,277	28,406	22,871	43.4	45.4
20 to 24 years	6,490	352	818	5,320	3,359	1,961	39.8	43.8
25 years and over	49,344	1,378	2,009	45,957	25,046	20,911	43.8	45.5
25 to 44 years	32,449	920	750	30,779	16,310	14,469	44.6	45.7
45 to 64 years	15,322	394	576	14,352	8,209	6,143	43.7	45.3
65 years and over	1,572	64	683	825	527	298	31.0	43.0
Women, 16 years and over	48,615	2,491	10,420	35,704	26,090	9,614	35.9	41.6
16 to 19 years	3,065	251	1,844	970	806	164	24.2	38.8
16 to 17 years	1,142	37	993	112	99	13	17.4	36.2
18 to 19 years	1,923	214	851	858	708	150	28.2	39.1
20 years and over	45,550	2,240	8,576	34,734	25,285	9,449	36.7	41.7
20 to 24 years	5,919	401	1,178	4,340	3,224	1,116	35.8	41.3
25 years and over	39,632	1,839	7,397	30,396	22,062	8,334	36.9	41.8
25 to 44 years	26,159	1,198	4,492	20,469	14,797	5,672	37.2	41.7
45 to 64 years	12,314	581	2,313	9,420	6,885	2,535	36.9	41.8
65 years and over	1,159	60	593	506	379	127	27.6	41.1
RACE								
White, 16 years and over	93,117	3,663	13,367	76,087	46,294	29,793	39.6	44.0
Men	51,491	1,623	3,940	45,928	24,696	21,232	42.8	45.5
Women	41,626	2,041	9,428	30,157	21,597	8,560	35.7	41.7
Black, 16 years and over	11,013	635	1,111	9,267	7,067	2,200	38.7	41.9
Men	5,541	269	395	4,877	3,451	1,426	40.3	43.0
Women	5,472	366	716	4,390	3,616	774	37.0	40.7
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,646	853	1,373	35,420	18,846	16,574	44.4	45.8
Widowed, divorced, or separated	5,941	242	302	5,397	3,051	2,346	42.9	45.2
Single (never married)	15,290	872	2,810	11,608	7,499	4,109	37.8	43.6
Women, 16 years and over:								
Married, spouse present	27,027	1,238	6,173	19,616	14,553	5,063	35.6	41.3
Widowed, divorced, or separated	9,462	514	1,139	7,809	5,562	2,247	38.5	42.2
Single (never married)	12,125	740	3,109	8,276	5,972	2,304	34.5	41.7

**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 1988								
	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	107,189	4,426	14,828	87,935	55,101	11,906	20,928	39.5	43.8
Managerial and professional specialty	28,414	440	2,619	25,356	13,786	3,298	8,272	42.6	45.3
Executive, administrative, and managerial	13,751	193	741	12,817	6,437	1,776	4,604	44.3	46.1
Professional specialty	14,664	247	1,878	12,539	7,349	1,521	3,668	41.0	44.6
Technical, sales, and administrative support	33,941	1,122	6,132	26,688	17,937	3,494	5,257	38.0	42.8
Technicians and related support	3,486	57	386	3,043	2,084	426	534	39.9	42.7
Sales occupations	13,010	570	2,741	9,699	4,962	1,369	3,368	39.1	45.6
Administrative support, including clerical	17,445	494	3,005	13,945	10,891	1,700	1,354	36.8	40.8
Service occupations	14,596	1,346	4,075	9,175	6,542	1,024	1,609	34.1	42.7
Private household	822	160	340	322	206	46	70	27.2	43.7
Protective service	1,880	32	165	1,683	978	237	468	43.7	46.7
Service, except private household and protective	11,894	1,153	3,571	7,169	5,358	741	1,071	33.1	41.8
Precision production, craft, and repair	12,979	544	435	12,000	7,405	1,775	2,820	42.2	43.9
Operators, fabricators, and laborers	17,259	974	1,567	14,717	9,431	2,316	2,970	40.2	43.5
Machine operators, assemblers, and inspectors	7,761	310	347	7,104	4,786	1,207	1,112	40.9	42.6
Transportation and material moving occupations	4,842	247	390	4,206	2,206	594	1,406	43.1	46.4
Handlers, equipment cleaners, helpers, and laborers	4,656	418	831	3,407	2,439	515	453	36.1	42.0
Men, 16 years and over¹	58,494	1,922	4,380	52,192	28,996	7,394	15,802	42.6	45.3
Managerial and professional specialty	15,846	155	704	14,987	7,079	1,874	6,034	45.5	47.0
Executive, administrative, and managerial	8,419	101	236	8,083	3,481	1,089	3,512	46.5	47.6
Professional specialty	7,426	54	468	6,904	3,598	785	2,522	44.4	46.4
Technical, sales, and administrative support	12,040	263	1,128	10,649	5,456	1,613	3,581	42.8	45.8
Technicians and related support	1,834	33	98	1,703	1,039	259	406	42.4	44.0
Sales occupations	6,685	155	632	5,899	2,410	857	2,631	44.6	47.9
Administrative support, including clerical	3,521	75	399	3,048	2,007	497	544	39.7	42.7
Service occupations	5,841	341	1,158	4,342	2,925	504	913	37.7	44.1
Private household	14	6	5	3	1	1	1	(²)	(²)
Protective service	1,625	25	116	1,484	835	210	439	44.7	47.1
Service, except private household and protective	4,202	310	1,037	2,855	2,088	293	473	35.0	42.5
Precision production, craft, and repair	11,876	493	333	11,049	6,776	1,612	2,661	42.4	44.0
Operators, fabricators, and laborers	12,891	670	1,056	11,164	6,761	1,791	2,612	41.2	44.3
Machine operators, assemblers, and inspectors	4,633	172	123	4,378	2,741	785	851	42.3	43.5
Transportation and material moving occupations	4,429	204	246	3,979	2,021	578	1,379	44.2	46.8
Handlers, equipment cleaners, helpers, and laborers	3,829	334	687	2,808	1,998	427	382	36.2	42.1
Women, 16 years and over¹	48,695	2,504	10,448	35,744	26,105	4,512	5,126	35.9	41.6
Managerial and professional specialty	12,569	285	1,915	10,369	6,707	1,424	2,238	38.9	42.9
Executive, administrative, and managerial	5,332	93	505	4,734	2,955	687	1,091	40.9	43.5
Professional specialty	7,237	193	1,410	5,635	3,751	737	1,147	37.4	42.5
Technical, sales, and administrative support	21,901	859	5,004	16,038	12,482	1,881	1,676	35.3	40.8
Technicians and related support	1,652	24	288	1,340	1,045	167	128	37.2	41.0
Sales occupations	6,325	416	2,109	3,801	2,552	512	737	33.3	42.2
Administrative support, including clerical	13,923	419	2,607	10,898	8,884	1,203	811	36.0	40.3
Service occupations	8,754	1,005	2,917	4,833	3,617	519	696	31.8	41.5
Private household	808	154	335	319	205	45	69	27.3	43.6
Protective service	255	7	49	199	143	27	29	37.5	43.3
Service, except private household and protective	7,692	843	2,533	4,315	3,269	448	598	32.1	41.3
Precision production, craft, and repair	1,103	51	102	951	629	163	159	39.4	42.4
Operators, fabricators, and laborers	4,368	304	511	3,553	2,670	525	358	37.5	41.0
Machine operators, assemblers, and inspectors	3,128	178	224	2,727	2,044	422	260	38.8	41.1
Transportation and material moving occupations	413	43	143	227	185	15	27	31.7	39.4
Handlers, equipment cleaners, helpers, and laborers	827	83	143	600	441	88	71	35.4	41.4

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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Noninstitutional population ¹	184,904	185,052	185,225	185,370	185,571	185,705	185,847	185,964	186,088	186,247	186,402	186,522	186,666
Labor force ¹	121,706	122,128	122,349	122,472	122,924	123,084	122,639	123,055	122,692	123,157	123,357	123,723	123,628
Percent of population ²	65.8	66.0	66.1	66.1	66.2	66.3	66.0	66.2	65.9	66.1	66.2	66.3	66.2
Total employed ¹	114,615	114,951	115,259	115,494	115,878	116,145	115,839	116,445	115,909	116,703	116,732	116,872	117,032
Employment-population ratio ³	62.0	62.1	62.2	62.3	62.4	62.5	62.3	62.6	62.3	62.7	62.6	62.7	62.7
Resident Armed Forces	1,743	1,741	1,755	1,750	1,749	1,736	1,736	1,732	1,714	1,685	1,673	1,692	1,704
Civilian employed	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018	115,059	115,180	115,328
Agriculture	3,184	3,249	3,172	3,215	3,293	3,228	3,204	3,228	3,035	3,085	3,046	3,151	3,169
Nonagricultural industries	109,688	109,961	110,332	110,529	110,836	111,182	110,899	111,485	111,160	111,933	112,014	112,029	112,158
Unemployed	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	6,783	6,455	6,625	6,851	6,596
Unemployment rate ⁴	5.8	5.9	5.8	5.7	5.7	5.6	5.5	5.4	5.5	5.2	5.4	5.5	5.3
Not in labor force	63,198	62,924	62,876	62,898	62,647	62,621	63,208	62,909	63,396	63,090	63,045	62,799	63,038
Men													
Noninstitutional population ¹	88,683	88,756	88,849	88,924	89,033	89,099	89,168	89,225	89,287	89,367	89,445	89,504	89,577
Labor force ¹	67,776	67,947	68,019	68,030	68,243	68,343	68,148	68,445	68,318	68,429	68,521	68,723	68,608
Percent of population ²	76.4	76.6	76.6	76.5	76.6	76.7	76.4	76.7	76.5	76.6	76.6	76.8	76.6
Total employed ¹	63,949	64,048	64,174	64,245	64,396	64,636	64,332	64,892	64,583	64,934	65,002	64,954	65,052
Employment-population ratio ³	72.1	72.2	72.2	72.2	72.3	72.5	72.1	72.7	72.3	72.7	72.7	72.6	72.6
Resident Armed Forces	1,581	1,580	1,593	1,589	1,588	1,577	1,573	1,569	1,553	1,523	1,512	1,529	1,540
Civilian employed	62,368	62,468	62,581	62,656	62,808	63,059	62,759	63,323	63,030	63,411	63,490	63,425	63,512
Unemployed	3,827	3,899	3,845	3,785	3,847	3,707	3,816	3,553	3,736	3,495	3,519	3,768	3,555
Unemployment rate ⁴	5.6	5.7	5.7	5.6	5.6	5.4	5.6	5.2	5.5	5.1	5.1	5.5	5.2
Not in labor force	20,907	20,809	20,830	20,894	20,790	20,756	21,020	20,780	20,969	20,938	20,924	20,781	20,970
Women													
Noninstitutional population ¹	96,221	96,295	96,376	96,446	96,538	96,606	96,679	96,739	96,801	96,880	96,957	97,018	97,089
Labor force ¹	53,930	54,181	54,330	54,442	54,681	54,740	54,491	54,610	54,374	54,728	54,836	55,000	55,020
Percent of population ²	56.0	56.3	56.4	56.4	56.6	56.7	56.4	56.5	56.2	56.5	56.6	56.7	56.7
Total employed ¹	50,666	50,903	51,085	51,249	51,482	51,509	51,507	51,553	51,327	51,769	51,730	51,918	51,979
Employment-population ratio ³	52.7	52.9	53.0	53.1	53.3	53.3	53.3	53.3	53.0	53.4	53.4	53.5	53.5
Resident Armed Forces	162	161	162	161	161	159	163	163	161	162	161	163	164
Civilian employed	50,504	50,742	50,923	51,088	51,321	51,350	51,344	51,390	51,166	51,607	51,569	51,755	51,815
Unemployed	3,264	3,278	3,245	3,193	3,200	3,231	2,985	3,057	3,047	2,960	3,106	3,083	3,041
Unemployment rate ⁴	6.1	6.1	6.0	5.9	5.9	5.9	5.5	5.6	5.6	5.4	5.7	5.6	5.5
Not in labor force	42,291	42,114	42,046	42,004	41,857	41,866	42,188	42,129	42,427	42,152	42,121	42,018	42,069

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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Civilian noninstitutional population ¹	183,161	183,311	183,470	183,620	183,822	183,969	184,111	184,232	184,374	184,562	184,729	184,830	184,962
Civilian labor force	119,963	120,387	120,594	120,722	121,175	121,348	120,903	121,323	120,978	121,472	121,684	122,031	121,924
Percent of population	65.5	65.7	65.7	65.7	65.9	66.0	65.7	65.9	65.6	65.8	65.9	66.0	65.9
Employed	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018	115,059	115,180	115,328
Employment-population ratio ²	61.6	61.8	61.9	61.9	62.1	62.2	62.0	62.3	61.9	62.3	62.3	62.3	62.4
Unemployed	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	6,783	6,455	6,625	6,851	6,596
Unemployment rate	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4	5.6	5.3	5.4	5.6	5.4
Men, 20 years and over													
Civilian noninstitutional population ¹	79,740	79,807	79,885	80,002	80,120	80,203	80,260	80,326	80,402	80,526	80,608	80,669	80,751
Civilian labor force	62,085	62,211	62,299	62,246	62,440	62,696	62,497	62,791	62,662	62,667	62,769	62,925	62,881
Percent of population	77.9	78.0	78.0	77.8	77.9	78.2	77.9	78.2	77.9	77.8	77.9	78.0	77.9
Employed	58,967	59,037	59,164	59,185	59,287	59,625	59,407	59,883	59,590	59,797	59,954	59,834	60,024
Employment-population ratio ²	73.9	74.0	74.1	74.0	74.0	74.3	74.0	74.5	74.1	74.3	74.4	74.2	74.3
Agriculture	2,345	2,343	2,297	2,298	2,323	2,280	2,253	2,255	2,181	2,208	2,247	2,311	2,236
Nonagricultural industries	56,622	56,694	56,867	56,887	56,964	57,344	57,154	57,627	57,409	57,588	57,706	57,523	57,788
Unemployed	3,118	3,174	3,135	3,063	3,154	3,071	3,089	2,909	3,072	2,870	2,815	3,090	2,857
Unemployment rate	5.0	5.1	5.0	4.9	5.1	4.9	4.9	4.6	4.9	4.6	4.5	4.9	4.5
Not in labor force	17,655	17,596	17,586	17,754	17,680	17,507	17,763	17,535	17,740	17,859	17,839	17,744	17,870
Women, 20 years and over													
Civilian noninstitutional population ¹	88,785	88,843	88,923	89,010	89,110	89,178	89,261	89,307	89,382	89,502	89,588	89,670	89,735
Civilian labor force	49,922	50,095	50,254	50,361	50,558	50,640	50,542	50,612	50,441	50,642	50,775	50,934	50,912
Percent of population	56.2	56.4	56.5	56.6	56.7	56.8	56.6	56.7	56.4	56.6	56.7	56.8	56.7
Employed	47,251	47,480	47,634	47,750	47,977	48,005	48,132	48,170	47,960	48,169	48,199	48,466	48,452
Employment-population ratio ²	53.2	53.4	53.6	53.6	53.8	53.8	53.9	53.9	53.7	53.8	53.8	54.0	54.0
Agriculture	600	636	636	643	646	654	656	692	587	616	542	586	633
Nonagricultural industries	46,651	46,844	46,998	47,107	47,331	47,351	47,476	47,478	47,373	47,553	47,657	47,881	47,818
Unemployed	2,671	2,615	2,620	2,611	2,581	2,635	2,411	2,442	2,481	2,473	2,576	2,468	2,461
Unemployment rate	5.4	5.2	5.2	5.2	5.1	5.2	4.8	4.8	4.9	4.9	5.1	4.8	4.8
Not in labor force	38,863	38,748	38,669	38,649	38,552	38,538	38,719	38,695	38,941	38,860	38,813	38,736	38,823
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,637	14,661	14,663	14,609	14,592	14,588	14,591	14,598	14,590	14,534	14,533	14,491	14,477
Civilian labor force	7,956	8,081	8,041	8,113	8,177	8,011	7,865	7,919	7,875	8,163	8,141	8,172	8,131
Percent of population	54.4	55.1	54.8	55.5	56.0	54.9	53.9	54.2	54.0	56.2	56.0	56.4	56.2
Employed	6,654	6,693	6,706	6,809	6,865	6,779	6,564	6,660	6,645	7,051	6,907	6,879	6,853
Employment-population ratio ²	45.5	45.7	45.7	46.6	47.0	46.5	45.0	45.6	45.5	48.5	47.5	47.5	47.3
Agriculture	239	270	239	274	323	293	295	280	267	260	257	254	301
Nonagricultural industries	6,415	6,423	6,467	6,535	6,542	6,486	6,269	6,380	6,378	6,791	6,650	6,625	6,552
Unemployed	1,302	1,388	1,335	1,304	1,312	1,232	1,301	1,259	1,230	1,112	1,234	1,293	1,278
Unemployment rate	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9	15.6	13.6	15.2	15.8	15.7
Not in labor force	6,681	6,580	6,622	6,496	6,415	6,577	6,726	6,679	6,715	6,371	6,392	6,319	6,346

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional

population.

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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
WHITE													
Civilian noninstitutional population ¹	157,242	157,342	157,449	157,552	157,676	157,773	157,868	157,943	158,034	158,166	158,279	158,340	158,422
Civilian labor force	103,357	103,669	103,731	103,907	104,252	104,530	104,171	104,574	104,209	104,691	104,603	105,007	105,043
Percent of population	65.7	65.9	65.9	66.0	66.1	66.3	66.0	66.2	65.9	66.2	66.1	66.3	66.3
Employed	98,069	98,317	98,492	98,779	99,044	99,474	99,274	99,751	99,297	99,932	99,725	99,901	100,019
Employment-population ratio ²	62.4	62.5	62.6	62.7	62.8	63.0	62.9	63.2	62.8	63.2	63.0	63.1	63.1
Unemployed	5,288	5,352	5,239	5,128	5,208	5,056	4,897	4,824	4,913	4,759	4,878	5,106	5,024
Unemployment rate	5.1	5.2	5.1	4.9	5.0	4.8	4.7	4.6	4.7	4.5	4.7	4.9	4.8
Men, 20 years and over													
Civilian labor force	54,213	54,375	54,381	54,368	54,455	54,650	54,522	54,699	54,618	54,662	54,732	54,825	54,850
Percent of population	78.2	78.4	78.3	78.2	78.3	78.5	78.2	78.5	78.3	78.2	78.3	78.4	78.3
Employed	51,803	51,864	51,969	52,046	52,053	52,389	52,245	52,538	52,314	52,491	52,603	52,464	52,594
Employment-population ratio ²	74.7	74.8	74.9	74.9	74.8	75.2	75.0	75.4	75.1	75.2	75.2	75.0	75.1
Unemployed	2,410	2,511	2,412	2,322	2,402	2,260	2,277	2,161	2,304	2,171	2,129	2,361	2,255
Unemployment rate	4.4	4.6	4.4	4.3	4.4	4.1	4.2	4.0	4.2	4.0	3.9	4.3	4.1
Women, 20 years and over													
Civilian labor force	42,308	42,379	42,464	42,569	42,710	42,915	42,841	42,986	42,827	42,921	42,887	43,177	43,170
Percent of population	55.7	55.7	55.8	55.9	56.1	56.3	56.2	56.3	56.1	56.2	56.1	56.4	56.4
Employed	40,409	40,538	40,606	40,712	40,896	40,985	41,183	41,297	41,104	41,183	41,040	41,399	41,371
Employment-population ratio ²	53.2	53.3	53.4	53.5	53.7	53.8	54.0	54.1	53.8	53.9	53.7	54.1	54.0
Unemployed	1,899	1,841	1,858	1,857	1,813	1,930	1,658	1,689	1,723	1,738	1,847	1,778	1,799
Unemployment rate	4.5	4.3	4.4	4.4	4.2	4.5	3.9	3.9	4.0	4.0	4.3	4.1	4.2
Both sexes, 16 to 19 years													
Civilian labor force	6,836	6,915	6,886	6,970	7,087	6,965	6,807	6,889	6,764	7,108	6,983	7,005	7,023
Percent of population	57.2	57.9	57.7	58.6	59.6	58.6	57.2	58.0	57.0	59.9	58.9	59.2	59.5
Employed	5,857	5,915	5,917	6,021	6,095	6,100	5,845	5,916	5,879	6,258	6,081	6,038	6,054
Employment-population ratio ²	49.0	49.5	49.6	50.6	51.2	51.3	49.1	49.8	49.5	52.7	51.3	51.0	51.3
Unemployed	979	1,000	969	949	992	865	962	973	885	850	902	967	969
Unemployment rate	14.3	14.5	14.1	13.6	14.0	12.4	14.1	14.1	13.1	12.0	12.9	13.8	13.8
Men	15.1	15.1	14.8	14.9	14.4	12.2	15.7	14.5	13.8	12.8	14.6	13.8	15.0
Women	13.4	13.8	13.3	12.3	13.6	12.7	12.4	13.7	12.4	11.1	11.1	13.8	12.5
BLACK													
Civilian noninstitutional population ¹	20,426	20,453	20,482	20,508	20,539	20,569	20,596	20,622	20,650	20,683	20,715	20,736	20,762
Civilian labor force	13,028	13,152	13,193	13,215	13,222	13,168	13,098	13,078	13,069	12,989	13,293	13,262	13,191
Percent of population	63.8	64.3	64.4	64.4	64.4	64.0	63.6	63.4	63.3	62.8	64.2	64.0	63.5
Employed	11,421	11,556	11,589	11,605	11,608	11,504	11,420	11,482	11,452	11,489	11,774	11,764	11,771
Employment-population ratio ²	55.9	56.5	56.6	56.6	56.5	55.9	55.4	55.5	55.5	55.5	56.8	56.7	56.7
Unemployed	1,607	1,596	1,604	1,610	1,614	1,663	1,678	1,597	1,617	1,500	1,519	1,498	1,419
Unemployment rate	12.3	12.1	12.2	12.2	12.2	12.6	12.8	12.2	12.4	11.5	11.4	11.3	10.8
Men, 20 years and over													
Civilian labor force	6,032	6,023	6,045	6,043	6,115	6,166	6,127	6,163	6,107	6,064	6,070	6,154	6,123
Percent of population	74.5	74.3	74.5	74.3	75.0	75.6	75.0	75.3	74.5	73.8	73.8	74.7	74.2
Employed	5,421	5,431	5,430	5,430	5,497	5,472	5,429	5,511	5,449	5,458	5,492	5,566	5,581
Employment-population ratio ²	67.0	67.0	66.9	66.8	67.5	67.1	66.4	67.3	66.5	66.5	66.8	67.6	67.7
Unemployed	611	592	615	613	618	694	699	652	658	606	578	588	542
Unemployment rate	10.1	9.8	10.2	10.1	10.1	11.3	11.4	10.6	10.8	10.0	9.5	9.6	8.8
Women, 20 years and over													
Civilian labor force	6,067	6,177	6,207	6,224	6,244	6,131	6,136	6,093	6,059	6,074	6,307	6,182	6,147
Percent of population	59.7	60.7	60.9	61.0	61.1	59.9	59.9	59.4	59.0	59.0	61.2	59.9	59.5
Employed	5,357	5,495	5,537	5,544	5,550	5,495	5,465	5,407	5,414	5,421	5,650	5,572	5,564
Employment-population ratio ²	52.7	54.0	54.3	54.3	54.3	53.7	53.3	52.7	52.7	52.7	54.8	54.0	53.8
Unemployed	710	682	670	680	694	636	671	686	645	652	657	610	583
Unemployment rate	11.7	11.0	10.8	10.9	11.1	10.4	10.9	11.3	10.6	10.7	10.4	9.9	9.5

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	929	952	941	948	863	870	834	822	903	852	917	926	921
Percent of population	42.8	43.8	43.3	43.7	39.8	40.0	38.3	37.7	41.4	39.0	42.0	42.4	42.2
Employed	643	630	622	631	561	537	526	564	589	610	632	626	627
Employment-population ratio ²	29.6	29.0	28.6	29.1	25.8	24.7	24.2	25.9	27.0	28.0	28.9	28.7	28.7
Unemployed	286	322	319	317	302	333	308	258	314	242	285	300	294
Unemployment rate	30.8	33.8	33.9	33.4	35.0	38.3	36.9	31.4	34.8	28.4	31.1	32.4	31.9
Men	31.5	32.5	32.2	33.5	35.1	42.0	39.0	27.6	33.3	30.4	30.4	32.2	31.7
Women	30.0	35.2	35.8	33.4	34.9	34.7	35.0	35.5	36.6	25.9	31.8	32.7	32.2
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,965	13,003	13,043	13,082	13,115	13,153	13,192	13,230	13,268	13,306	13,344	13,381	13,419
Civilian labor force	8,581	8,654	8,763	8,772	8,879	9,017	8,803	8,828	8,859	9,027	8,984	8,935	9,063
Percent of population	66.2	66.6	67.2	67.1	67.7	68.6	66.7	66.7	66.8	67.8	67.3	66.8	67.5
Employed	7,877	7,935	7,978	8,058	8,238	8,268	8,079	8,010	8,058	8,219	8,264	8,185	8,394
Employment-population ratio ²	60.8	61.0	61.2	61.6	62.8	62.9	61.2	60.5	60.7	61.8	61.9	61.2	62.6
Unemployed	704	719	785	714	642	749	724	818	801	809	720	750	669
Unemployment rate	8.2	8.3	9.0	8.1	7.2	8.3	8.2	9.3	9.0	9.0	8.0	8.4	7.4

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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018	115,059	115,180	115,328
Married men, spouse present	40,404	40,556	40,645	40,711	40,404	40,475	40,481	40,459	40,267	40,485	40,535	40,505	40,531
Married women, spouse present	28,069	28,099	28,175	28,249	28,441	28,707	28,805	28,859	28,567	28,713	28,654	28,832	28,801
Women who maintain families	6,151	6,178	6,237	6,227	6,168	6,157	6,160	6,055	5,957	6,085	6,145	6,282	6,251
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,624	1,705	1,595	1,599	1,666	1,677	1,648	1,678	1,526	1,562	1,539	1,580	1,593
Self-employed workers	1,415	1,430	1,407	1,450	1,454	1,414	1,423	1,385	1,346	1,359	1,346	1,416	1,438
Unpaid family workers	139	140	155	156	138	114	142	155	159	167	148	163	134
Nonagricultural industries:													
Wage and salary workers	101,282	101,522	101,943	101,997	102,507	102,683	102,279	102,538	101,927	103,000	103,133	103,097	103,415
Government	16,928	17,033	17,118	17,064	17,197	16,948	16,908	17,015	16,887	17,064	16,959	17,112	17,103
Private industries	84,354	84,489	84,825	84,933	85,310	85,735	85,371	85,523	85,040	85,935	86,174	85,984	86,312
Private households	1,100	1,222	1,286	1,200	1,147	1,170	1,175	1,092	1,156	1,150	1,123	1,108	1,085
Other industries	83,254	83,267	83,539	83,733	84,163	84,565	84,196	84,431	83,884	84,786	85,051	84,877	85,227
Self-employed workers	8,204	8,274	8,222	8,280	8,150	8,312	8,366	8,637	8,917	8,577	8,528	8,491	8,575
Unpaid family workers	297	242	235	248	237	228	248	281	307	301	255	243	228
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,261	5,353	5,534	5,262	5,367	5,566	5,343	5,194	4,844	5,317	5,382	5,181	5,053
Slack work	2,213	2,377	2,408	2,284	2,396	2,478	2,520	2,236	2,227	2,364	2,490	2,318	2,190
Could only find part-time work	2,683	2,655	2,696	2,638	2,640	2,598	2,535	2,502	2,315	2,637	2,581	2,491	2,356
Voluntary part time	14,415	14,488	14,523	14,711	14,571	14,572	14,603	15,016	14,790	14,507	15,070	15,021	15,314
Nonagricultural industries:													
Part time for economic reasons	4,986	5,067	5,241	5,004	5,145	5,254	5,106	4,924	4,623	5,076	5,185	4,959	4,814
Slack work	2,034	2,196	2,209	2,111	2,260	2,327	2,325	2,121	2,120	2,199	2,351	2,178	2,031
Could only find part-time work	2,603	2,557	2,597	2,552	2,566	2,457	2,475	2,397	2,236	2,566	2,545	2,429	2,284
Voluntary part time	13,987	14,011	14,064	14,222	14,096	14,123	14,141	14,592	14,338	14,083	14,669	14,585	14,861

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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	114,195	115,018	115,059	115,180	115,328
16 to 24 years	20,116	20,096	20,065	20,112	20,312	20,271	19,916	19,990	19,773	20,404	20,159	20,153	20,060
16 to 19 years	6,654	6,693	6,706	6,809	6,865	6,779	6,564	6,660	6,645	7,051	6,907	6,879	6,853
16 to 17 years	2,754	2,768	2,734	2,826	2,776	2,752	2,657	2,682	2,649	2,820	2,691	2,645	2,650
18 to 19 years	3,911	3,936	3,985	3,994	4,061	4,045	3,906	3,967	3,995	4,227	4,210	4,170	4,213
20 to 24 years	13,462	13,403	13,359	13,303	13,447	13,491	13,353	13,330	13,128	13,353	13,253	13,273	13,208
25 years and over	92,735	93,071	93,424	93,625	93,778	94,118	94,239	94,686	94,359	94,592	95,016	95,119	95,263
25 to 54 years	78,307	78,477	78,731	78,916	79,170	79,351	79,588	79,946	79,920	80,088	80,481	80,657	80,647
55 years and over	14,491	14,641	14,663	14,716	14,581	14,673	14,566	14,712	14,438	14,542	14,469	14,553	14,651
Men, 16 years and over	62,368	62,468	62,581	62,656	62,808	63,059	62,759	63,323	63,030	63,411	63,490	63,425	63,512
16 to 24 years	10,448	10,403	10,370	10,369	10,456	10,444	10,349	10,427	10,351	10,591	10,446	10,508	10,414
16 to 19 years	3,401	3,431	3,417	3,471	3,521	3,434	3,352	3,440	3,439	3,614	3,537	3,591	3,489
16 to 17 years	1,391	1,409	1,390	1,451	1,444	1,406	1,376	1,397	1,369	1,418	1,388	1,392	1,396
18 to 19 years	2,021	2,034	2,040	2,035	2,053	2,046	1,982	2,042	2,068	2,184	2,150	2,149	2,099
20 to 24 years	7,047	6,972	6,953	6,898	6,935	7,010	6,998	6,987	6,912	6,977	6,910	6,917	6,925
25 years and over	51,900	52,047	52,210	52,299	52,338	52,623	52,469	52,862	52,654	52,793	53,064	52,972	53,078
25 to 54 years	43,408	43,488	43,592	43,690	43,848	43,992	43,975	44,336	44,175	44,278	44,541	44,463	44,595
55 years and over	8,514	8,580	8,605	8,629	8,470	8,567	8,467	8,530	8,466	8,542	8,534	8,529	8,495
Women, 16 years and over	50,504	50,742	50,923	51,088	51,321	51,350	51,344	51,390	51,166	51,607	51,569	51,755	51,815
16 to 24 years	9,668	9,693	9,695	9,743	9,857	9,826	9,567	9,563	9,422	9,814	9,713	9,645	9,647
16 to 19 years	3,253	3,262	3,289	3,338	3,344	3,345	3,212	3,220	3,206	3,438	3,370	3,288	3,364
16 to 17 years	1,363	1,359	1,344	1,375	1,332	1,346	1,281	1,285	1,280	1,402	1,303	1,253	1,254
18 to 19 years	1,890	1,902	1,945	1,965	2,008	1,999	1,924	1,925	1,927	2,043	2,060	2,021	2,114
20 to 24 years	6,415	6,431	6,406	6,405	6,513	6,481	6,355	6,343	6,216	6,376	6,343	6,357	6,283
25 years and over	40,835	41,024	41,214	41,326	41,440	41,495	41,770	41,824	41,705	41,798	41,953	42,147	42,185
25 to 54 years	34,899	34,989	35,139	35,226	35,322	35,359	35,613	35,610	35,745	35,809	35,939	36,194	36,052
55 years and over	5,977	6,061	6,058	6,087	6,111	6,106	6,099	6,182	5,972	5,999	5,935	6,024	6,156

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

(In thousands)

Sex and age	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	6,783	6,455	6,625	6,851	6,596
16 to 24 years	2,692	2,689	2,641	2,547	2,659	2,525	2,637	2,532	2,519	2,341	2,468	2,513	2,460
16 to 19 years	1,302	1,388	1,335	1,304	1,312	1,232	1,301	1,259	1,230	1,112	1,234	1,293	1,278
16 to 17 years	618	710	649	613	638	580	568	580	509	512	569	607	682
18 to 19 years	701	679	691	688	689	655	732	658	720	627	630	671	612
20 to 24 years	1,390	1,301	1,306	1,243	1,347	1,293	1,336	1,273	1,289	1,229	1,234	1,220	1,182
25 years and over	4,445	4,482	4,442	4,412	4,393	4,416	4,161	4,082	4,251	4,077	4,150	4,358	4,181
25 to 54 years	3,931	3,993	3,909	3,939	3,896	3,926	3,730	3,625	3,744	3,654	3,691	3,871	3,728
55 years and over	499	474	513	488	527	499	441	446	520	442	461	476	437
Men, 16 years and over	3,827	3,899	3,845	3,785	3,847	3,707	3,816	3,553	3,736	3,495	3,519	3,768	3,555
16 to 24 years	1,435	1,432	1,414	1,378	1,456	1,333	1,423	1,315	1,354	1,247	1,334	1,359	1,338
16 to 19 years	709	725	710	722	693	636	727	644	664	625	704	678	698
16 to 17 years	341	372	356	347	348	285	313	291	275	290	302	297	388
18 to 19 years	382	354	355	367	360	354	414	352	388	360	370	371	325
20 to 24 years	726	707	704	656	763	697	696	671	690	622	630	681	640
25 years and over	2,427	2,462	2,419	2,390	2,391	2,390	2,385	2,243	2,363	2,235	2,174	2,426	2,253
25 to 54 years	2,139	2,182	2,109	2,112	2,070	2,095	2,089	1,951	2,051	1,940	1,906	2,118	1,997
55 years and over	283	277	313	282	351	305	299	276	323	279	275	301	248
Women, 16 years and over	3,264	3,278	3,245	3,193	3,200	3,231	2,985	3,057	3,047	2,960	3,106	3,083	3,041
16 to 24 years	1,257	1,257	1,227	1,169	1,203	1,192	1,214	1,217	1,166	1,094	1,134	1,154	1,122
16 to 19 years	593	663	625	582	619	596	574	615	566	487	530	615	580
16 to 17 years	277	338	293	266	290	295	255	289	234	222	267	310	294
18 to 19 years	319	325	336	321	329	301	318	306	332	267	260	300	287
20 to 24 years	664	594	602	587	584	596	640	602	600	607	604	539	542
25 years and over	2,018	2,020	2,023	2,022	2,002	2,026	1,776	1,838	1,888	1,842	1,976	1,933	1,928
25 to 54 years	1,792	1,811	1,800	1,827	1,826	1,831	1,641	1,674	1,693	1,714	1,785	1,753	1,731
55 years and over	216	197	200	206	175	194	142	170	197	163	186	175	189

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4	5.6	5.3	5.4	5.6	5.4
16 to 24 years	11.8	11.8	11.6	11.2	11.6	11.1	11.7	11.2	11.3	10.3	10.9	11.1	10.9
16 to 19 years	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9	15.6	13.6	15.2	15.8	15.7
16 to 17 years	18.3	20.4	19.2	17.8	18.7	17.4	17.6	17.8	16.1	15.4	17.5	18.7	20.5
18 to 19 years	15.2	14.7	14.8	14.7	14.5	13.9	15.8	14.2	15.3	12.9	13.0	13.9	12.7
20 to 24 years	9.4	8.8	8.9	8.5	9.1	8.7	9.1	8.7	8.9	8.4	8.5	8.4	8.2
25 years and over	4.6	4.6	4.5	4.5	4.5	4.5	4.2	4.1	4.3	4.1	4.2	4.4	4.2
25 to 54 years	4.8	4.8	4.7	4.8	4.7	4.7	4.5	4.3	4.5	4.4	4.4	4.6	4.4
55 years and over	3.3	3.1	3.4	3.2	3.5	3.3	2.9	2.9	3.5	2.9	3.1	3.2	2.9
Men, 16 years and over	5.8	5.9	5.8	5.7	5.8	5.6	5.7	5.3	5.6	5.2	5.3	5.6	5.3
16 to 24 years	12.1	12.1	12.0	11.7	12.2	11.3	12.1	11.2	11.6	10.5	11.3	11.5	11.4
16 to 19 years	17.3	17.4	17.2	17.2	16.4	15.6	17.8	15.8	16.2	14.7	16.6	15.9	16.7
16 to 17 years	19.7	20.9	20.4	19.3	19.4	16.9	18.5	17.2	16.7	17.0	17.9	17.6	21.7
18 to 19 years	15.9	14.8	14.8	15.3	14.9	14.7	17.3	14.7	15.8	14.2	14.7	14.7	13.4
20 to 24 years	9.3	9.2	9.2	8.7	9.9	9.0	9.1	8.8	9.1	8.2	8.4	9.0	8.5
25 years and over	4.5	4.5	4.4	4.4	4.4	4.3	4.3	4.1	4.3	4.1	3.9	4.4	4.1
25 to 54 years	4.7	4.8	4.6	4.6	4.5	4.5	4.5	4.2	4.4	4.2	4.1	4.5	4.3
55 years and over	3.2	3.1	3.5	3.2	4.0	3.4	3.4	3.1	3.7	3.2	3.1	3.4	2.8
Women, 16 years and over	6.1	6.1	6.0	5.9	5.9	5.9	5.5	5.6	5.6	5.4	5.7	5.6	5.5
16 to 24 years	11.5	11.5	11.2	10.7	10.9	10.8	11.3	11.3	11.0	10.0	10.5	10.7	10.4
16 to 19 years	15.4	16.9	16.0	14.8	15.6	15.1	15.2	16.0	15.0	12.4	13.6	15.8	14.7
16 to 17 years	16.9	19.9	17.9	16.2	17.9	18.0	16.6	18.4	15.5	13.7	17.0	19.8	19.0
18 to 19 years	14.4	14.6	14.7	14.1	14.1	13.1	14.2	13.7	14.7	11.6	11.2	12.9	12.0
20 to 24 years	9.4	8.5	8.6	8.4	8.2	8.4	9.1	8.7	8.8	8.7	8.7	7.8	7.9
25 years and over	4.7	4.7	4.7	4.7	4.6	4.7	4.1	4.2	4.3	4.2	4.5	4.4	4.4
25 to 54 years	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.5	4.5	4.6	4.7	4.6	4.6
55 years and over	3.5	3.1	3.2	3.3	2.8	3.1	2.3	2.7	3.2	2.6	3.0	2.8	3.0

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total (all civilian workers)	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4	5.6	5.3	5.4	5.6	5.4
Men, 20 years and over	5.0	5.1	5.0	4.9	5.1	4.9	4.9	4.6	4.9	4.6	4.5	4.9	4.5
Women, 20 years and over	5.4	5.2	5.2	5.2	5.1	5.2	4.8	4.8	4.9	4.9	5.1	4.8	4.8
Both sexes, 16 to 19 years	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9	15.6	13.6	15.2	15.8	15.7
White	5.1	5.2	5.1	4.9	5.0	4.8	4.7	4.6	4.7	4.5	4.7	4.9	4.8
Black and other	10.9	10.8	11.0	10.9	10.9	11.3	11.5	10.7	11.3	10.3	10.0	10.0	9.4
Black	12.3	12.1	12.2	12.2	12.2	12.6	12.8	12.2	12.4	11.5	11.4	11.3	10.8
Hispanic origin	8.2	8.3	9.0	8.1	7.2	8.3	8.2	9.3	9.0	9.0	8.0	8.4	7.4
Married men, spouse present	3.7	3.7	3.5	3.4	3.6	3.4	3.4	3.0	3.3	3.1	3.0	3.4	3.1
Married women, spouse present	4.2	4.2	4.2	4.3	4.2	4.1	4.0	3.8	3.9	3.7	4.1	4.1	3.8
Women who maintain families	8.8	8.9	8.5	8.4	8.9	8.3	7.5	8.7	8.4	7.8	8.6	7.4	8.1
Full-time workers	5.5	5.6	5.5	5.4	5.4	5.3	5.3	5.1	5.2	4.9	5.0	5.3	5.1
Part-time workers	8.4	8.3	8.2	8.0	8.3	7.9	7.7	7.4	7.7	7.8	8.1	7.4	7.5
Unemployed 15 weeks and over ¹	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.2	1.3	1.4	1.3
Labor force time lost ²	6.8	6.8	6.8	6.6	6.6	6.6	6.5	6.2	6.4	6.3	6.4	6.5	6.4
INDUSTRY													
Nonagricultural private wage and salary workers	5.9	5.9	5.8	5.7	5.8	5.7	5.6	5.3	5.7	5.4	5.4	5.6	5.4
Goods-producing industries	7.0	7.0	6.5	6.4	7.1	6.9	6.5	6.5	6.6	6.0	6.3	6.8	6.5
Mining	7.4	8.3	7.0	8.0	7.7	7.8	7.9	8.4	10.4	6.7	5.3	6.8	8.6
Construction	11.9	11.2	10.6	10.6	12.2	11.0	10.7	10.6	10.5	10.2	10.2	11.0	9.2
Manufacturing	5.6	5.7	5.3	5.1	5.6	5.6	5.2	5.3	5.4	4.8	5.2	5.6	5.6
Durable goods	5.4	5.2	4.8	4.8	5.5	5.9	5.2	4.8	4.9	4.4	5.0	5.0	5.5
Nondurable goods	5.9	6.5	5.9	5.6	5.8	5.3	5.3	6.0	6.0	5.4	5.6	6.4	5.9
Service-producing industries	5.3	5.4	5.5	5.3	5.3	5.1	5.2	4.7	5.2	5.1	5.0	5.1	4.9
Transportation and public utilities	4.1	4.4	4.5	4.6	3.6	3.6	4.2	3.8	4.4	4.1	3.5	3.8	3.7
Wholesale and retail trade	6.4	6.5	6.8	6.2	6.1	6.4	6.8	5.9	6.3	5.9	6.2	6.5	6.1
Finance and service industries	4.8	4.7	4.8	4.8	4.9	4.5	4.2	4.1	4.6	4.6	4.5	4.4	4.3
Government workers	3.4	3.3	3.4	3.2	3.0	2.8	2.8	3.0	2.9	2.8	3.1	3.1	2.7
Agricultural wage and salary workers	8.6	10.6	11.1	10.9	11.5	10.2	11.0	10.6	13.9	9.7	10.8	11.4	11.3

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.

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

(Numbers in thousands)

Weeks of unemployment	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
DURATION													
Less than 5 weeks	3,220	3,223	3,218	3,229	3,089	3,084	3,009	3,125	3,075	3,066	2,965	3,197	3,139
5 to 14 weeks	1,949	2,093	2,029	1,968	2,263	2,145	2,101	1,956	2,110	1,890	2,078	1,957	1,823
15 weeks and over	1,904	1,801	1,834	1,791	1,733	1,740	1,722	1,540	1,609	1,512	1,629	1,676	1,596
15 to 26 weeks	917	844	899	892	839	841	887	725	784	727	838	859	789
27 weeks and over	987	957	935	899	894	899	835	816	825	785	791	817	807
Average (mean) duration, in weeks	14.2	14.1	14.0	14.2	14.4	14.4	13.7	13.4	13.8	12.9	13.6	13.7	13.7
Median duration, in weeks	5.8	6.2	6.1	6.0	6.4	6.4	6.6	5.6	5.9	6.0	6.3	5.9	5.5
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	45.5	45.3	45.4	46.2	43.6	44.3	44.0	47.2	45.3	47.4	44.4	46.8	47.9
5 to 14 weeks	27.6	29.4	28.7	28.2	31.9	30.8	30.8	29.5	31.1	29.2	31.1	28.7	27.8
15 weeks and over	26.9	25.3	25.9	25.6	24.5	25.0	25.2	23.3	23.7	23.4	24.4	24.5	24.3
15 to 26 weeks	13.0	11.9	12.7	12.8	11.8	12.1	13.0	10.9	11.5	11.2	12.6	12.6	12.0
27 weeks and over	14.0	13.4	13.2	12.9	12.6	12.9	12.2	12.3	12.1	12.1	11.9	12.0	12.3

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

(Numbers in thousands)

Reasons for unemployment	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NUMBER OF UNEMPLOYED													
Job losers	3,313	3,388	3,307	3,200	3,209	3,207	3,139	2,916	3,236	3,059	3,087	3,138	3,087
On layoff	820	944	878	856	888	884	899	821	793	863	852	891	816
Other job losers	2,493	2,444	2,429	2,344	2,320	2,323	2,240	2,095	2,443	2,196	2,235	2,247	2,271
Job leavers	981	960	926	946	1,082	961	1,075	993	926	944	904	997	994
Reentrants	1,908	1,845	1,974	1,945	1,917	1,951	1,756	1,784	1,789	1,723	1,901	1,869	1,761
New entrants	882	914	855	909	885	864	887	915	807	777	776	793	745
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	46.8	47.7	46.8	45.7	45.2	45.9	45.8	44.1	47.9	47.0	46.3	46.2	46.9
On layoff	11.6	13.3	12.4	12.2	12.5	12.7	13.1	12.4	11.7	13.3	12.8	13.1	12.4
Other job losers	35.2	34.4	34.4	33.5	32.7	33.3	32.7	31.7	36.2	33.8	33.5	33.1	34.5
Job leavers	13.8	13.5	13.1	13.5	15.3	13.8	15.7	15.0	13.7	14.5	13.6	14.7	15.1
Reentrants	26.9	26.0	28.0	27.8	27.0	27.9	25.6	27.0	26.5	26.5	28.5	27.5	26.7
New entrants	12.5	12.9	12.1	13.0	12.5	12.4	12.9	13.8	11.9	11.9	11.6	11.7	11.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.4	2.7	2.5	2.5	2.6	2.5
Job leavers .....	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.7	.8	.8
Reentrants	1.6	1.5	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.6	1.5	1.4
New entrants .....	.7	.8	.7	.8	.7	.7	.7	.8	.7	.6	.6	.6	.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-42. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Employment status and sex	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Noninstitutional population ¹	180,135	180,641	181,517	182,008	182,530	183,115	183,743	184,253	184,749	185,216	185,707	186,099	186,530
Labor force ¹	117,214	117,887	118,653	119,330	119,898	120,307	120,893	121,352	121,786	122,316	122,882	122,968	123,569
Percent of population ²	65.1	65.3	65.4	65.6	65.7	65.7	65.8	65.9	65.9	66.0	66.2	66.1	66.2
Total employed ¹	108,910	109,684	110,452	110,910	111,668	112,186	113,012	113,873	114,587	115,235	115,954	116,352	116,878
Employment-population ratio ³	60.5	60.7	60.8	60.9	61.2	61.3	61.5	61.8	62.0	62.2	62.4	62.5	62.7
Resident Armed Forces	1,721	1,700	1,692	1,687	1,695	1,750	1,741	1,726	1,733	1,749	1,740	1,710	1,690
Civilian employed	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642	115,189
Agriculture	3,111	3,093	3,206	3,148	3,132	3,176	3,212	3,237	3,180	3,212	3,241	3,116	3,122
Nonagricultural industries	104,078	104,891	105,555	106,075	106,841	107,260	108,059	108,910	109,674	110,274	110,972	111,526	112,067
Unemployed	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	6,616	6,691
Unemployment rate ⁴	7.1	7.0	6.9	7.1	6.9	6.8	6.5	6.2	5.9	5.8	5.6	5.4	5.4
Not in labor force	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899	62,825	63,131	62,960
Men													
Noninstitutional population ¹	86,133	86,376	86,957	87,201	87,463	87,775	88,101	88,358	88,605	88,843	89,100	89,293	89,509
Labor force ¹	66,036	66,217	66,670	66,873	67,055	67,319	67,616	67,676	67,795	67,999	68,245	68,397	68,617
Percent of population ²	76.7	76.7	76.7	76.7	76.7	76.7	76.6	76.6	76.5	76.5	76.6	76.6	76.7
Total employed ¹	61,526	61,735	62,222	62,271	62,492	62,790	63,232	63,492	63,859	64,156	64,455	64,803	65,003
Employment-population ratio ³	71.4	71.5	71.6	71.4	71.4	71.5	71.8	71.9	72.1	72.2	72.3	72.6	72.6
Resident Armed Forces	1,569	1,551	1,539	1,533	1,540	1,592	1,583	1,567	1,572	1,587	1,579	1,548	1,527
Civilian employed	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568	62,875	63,254	63,476
Unemployed	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843	3,790	3,595	3,614
Unemployment rate ⁴	6.8	6.8	6.7	6.9	6.8	6.7	6.5	6.2	5.8	5.7	5.6	5.3	5.3
Not in labor force	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845	20,856	20,896	20,892
Women													
Noninstitutional population ¹	94,000	94,265	94,560	94,807	95,067	95,341	95,642	95,896	96,144	96,372	96,608	96,806	97,022
Labor force ¹	51,178	51,669	51,983	52,456	52,844	52,988	53,277	53,676	53,991	54,318	54,638	54,571	54,952
Percent of population ²	54.4	54.8	55.0	55.3	55.6	55.6	55.7	56.0	56.2	56.4	56.6	56.4	56.6
Total employed ¹	47,384	47,948	48,230	48,640	49,176	49,396	49,780	50,381	50,728	51,079	51,499	51,549	51,876
Employment-population ratio ³	50.4	50.9	51.0	51.3	51.7	51.8	52.0	52.5	52.8	53.0	53.3	53.3	53.5
Resident Armed Forces	151	149	152	154	155	158	158	160	161	161	161	162	163
Civilian employed	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918	51,338	51,387	51,713
Unemployed	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239	3,138	3,021	3,077
Unemployment rate ⁴	7.4	7.2	7.2	7.3	6.9	6.8	6.6	6.1	6.0	6.0	5.7	5.5	5.6
Not in labor force	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055	41,970	42,235	42,070

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
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, and age	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Civilian noninstitutional population ¹	178,414	178,941	179,825	180,321	180,835	181,365	182,002	182,527	183,016	183,467	183,967	184,389	184,840
Civilian labor force	115,494	116,187	116,962	117,642	118,203	118,557	119,151	119,626	120,053	120,568	121,142	121,258	121,880
Percent of population	64.7	64.9	65.0	65.2	65.4	65.4	65.5	65.5	65.6	65.7	65.8	65.8	65.9
Employed	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642	115,189
Employment-population ratio ²	60.1	60.3	60.5	60.6	60.8	60.9	61.1	61.4	61.7	61.9	62.1	62.2	62.3
Unemployed	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	6,616	6,691
Unemployment rate	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5
Men, 20 years and over													
Civilian noninstitutional population ¹	77,313	77,571	78,169	78,393	78,647	78,883	79,217	79,466	79,678	79,898	80,194	80,418	80,676
Civilian labor force	60,347	60,586	61,109	61,183	61,369	61,657	61,925	62,051	62,091	62,253	62,544	62,707	62,858
Percent of population	78.1	78.1	78.2	78.0	78.0	78.2	78.2	78.1	77.9	77.9	78.0	78.0	77.9
Employed	56,658	56,936	57,420	57,399	57,599	57,873	58,308	58,607	58,858	59,129	59,440	59,757	59,937
Employment-population ratio ²	73.3	73.4	73.5	73.2	73.2	73.4	73.6	73.8	73.9	74.0	74.1	74.3	74.3
Agriculture	2,230	2,236	2,332	2,282	2,259	2,308	2,322	2,359	2,322	2,313	2,286	2,215	2,265
Nonagricultural industries	54,428	54,700	55,088	55,117	55,340	55,566	55,986	56,248	56,536	56,816	57,154	57,542	57,673
Unemployed	3,689	3,650	3,688	3,784	3,771	3,784	3,617	3,444	3,233	3,124	3,105	2,950	2,921
Unemployment rate	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0	5.0	4.7	4.6
Not in labor force	16,966	16,985	17,060	17,210	17,278	17,226	17,292	17,415	17,587	17,645	17,650	17,711	17,818
Women, 20 years and over													
Civilian noninstitutional population ¹	86,651	86,900	87,187	87,449	87,699	87,935	88,236	88,468	88,701	88,925	89,183	89,397	89,664
Civilian labor force	47,290	47,736	48,000	48,448	48,893	49,005	49,308	49,648	49,926	50,237	50,580	50,565	50,874
Percent of population	54.6	54.9	55.1	55.4	55.8	55.7	55.9	56.1	56.3	56.5	56.7	56.6	56.7
Employed	44,139	44,686	44,931	45,331	45,886	46,070	46,452	46,959	47,255	47,621	48,038	48,100	48,372
Employment-population ratio ²	50.9	51.4	51.5	51.8	52.3	52.4	52.6	53.1	53.3	53.6	53.9	53.8	53.9
Agriculture	582	590	620	595	620	622	620	617	610	638	652	632	587
Nonagricultural industries	43,557	44,096	44,311	44,736	45,266	45,448	45,832	46,342	46,645	46,983	47,386	47,468	47,785
Unemployed	3,152	3,050	3,070	3,117	3,007	2,935	2,856	2,689	2,671	2,615	2,542	2,465	2,502
Unemployment rate	6.7	6.4	6.4	6.4	6.2	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9
Not in labor force	39,361	39,164	39,187	39,001	38,806	38,930	38,928	38,820	38,775	38,688	38,603	38,832	38,790
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,450	14,470	14,469	14,479	14,489	14,547	14,548	14,593	14,638	14,644	14,590	14,574	14,500
Civilian labor force	7,856	7,865	7,853	8,012	7,941	7,895	7,919	7,927	8,036	8,078	8,018	7,986	8,148
Percent of population	54.4	54.4	54.3	55.3	54.8	54.3	54.4	54.3	54.9	55.2	55.0	54.8	56.2
Employed	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736	6,736	6,786	6,880
Employment-population ratio ²	44.2	44.0	44.3	44.8	44.8	44.6	44.8	45.1	46.0	46.0	46.2	46.6	47.4
Agriculture	299	267	254	271	253	246	270	261	248	261	304	269	271
Nonagricultural industries	6,094	6,095	6,156	6,222	6,235	6,246	6,241	6,320	6,493	6,475	6,432	6,516	6,609
Unemployed	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342	1,282	1,200	1,268
Unemployment rate	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0	15.0	15.6
Not in labor force	6,594	6,605	6,616	6,467	6,548	6,652	6,629	6,666	6,602	6,566	6,572	6,588	6,352

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
QUARTERLY AVERAGES**

A-44. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
WHITE													
Civilian noninstitutional population ¹	153,825	154,204	154,893	155,245	155,609	155,982	156,435	156,806	157,145	157,448	157,772	158,048	158,347
Civilian labor force	99,911	100,538	101,100	101,580	102,125	102,425	102,777	103,179	103,374	103,769	104,317	104,491	104,884
Percent of population	65.0	65.2	65.3	65.4	65.6	65.7	65.7	65.8	65.8	65.9	66.1	66.1	66.2
Employed	93,701	94,491	94,977	95,314	96,005	96,350	96,941	97,622	98,056	98,529	99,264	99,660	99,882
Employment-population ratio ²	60.9	61.3	61.3	61.4	61.7	61.8	62.0	62.3	62.4	62.6	62.9	63.1	63.1
Unemployed	6,210	6,047	6,123	6,266	6,120	6,075	5,835	5,558	5,318	5,240	5,053	4,832	5,003
Unemployment rate	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.6	4.8
Men, 20 years and over													
Civilian labor force	52,952	53,136	53,509	53,554	53,699	53,970	54,111	54,196	54,198	54,375	54,542	54,660	54,802
Percent of population	78.5	78.5	78.5	78.4	78.4	78.6	78.5	78.4	78.3	78.3	78.3	78.3	78.3
Employed	50,099	50,390	50,705	50,660	50,843	51,074	51,344	51,559	51,729	51,960	52,229	52,448	52,554
Employment-population ratio ²	74.3	74.5	74.4	74.2	74.2	74.4	74.5	74.6	74.7	74.8	75.0	75.2	75.1
Unemployed	2,853	2,746	2,805	2,894	2,856	2,896	2,766	2,637	2,469	2,415	2,313	2,212	2,248
Unemployment rate	5.4	5.2	5.2	5.4	5.3	5.4	5.1	4.9	4.6	4.4	4.2	4.0	4.1
Women, 20 years and over													
Civilian labor force	40,186	40,580	40,783	41,128	41,560	41,574	41,778	42,101	42,294	42,471	42,822	42,911	43,078
Percent of population	53.9	54.3	54.5	54.8	55.2	55.1	55.3	55.6	55.7	55.8	56.2	56.2	56.3
Employed	37,889	38,375	38,505	38,863	39,367	39,458	39,753	40,188	40,400	40,619	41,022	41,195	41,270
Employment-population ratio ²	50.9	51.4	51.4	51.8	52.3	52.3	52.6	53.0	53.2	53.4	53.8	53.9	53.9
Unemployed	2,297	2,206	2,278	2,265	2,193	2,115	2,025	1,913	1,893	1,852	1,801	1,717	1,808
Unemployment rate	5.7	5.4	5.6	5.5	5.3	5.1	4.8	4.5	4.5	4.4	4.2	4.0	4.2
Both sexes, 16 to 19 years													
Civilian labor force	6,773	6,822	6,808	6,899	6,865	6,881	6,888	6,882	6,882	6,924	6,953	6,920	7,004
Percent of population	57.1	57.5	57.4	58.1	57.8	57.8	57.8	57.6	57.5	58.1	58.5	58.3	59.2
Employed	5,713	5,727	5,767	5,791	5,795	5,817	5,844	5,874	5,926	5,951	6,013	6,018	6,058
Employment-population ratio ²	48.2	48.3	48.6	48.8	48.8	48.9	49.0	49.1	49.6	49.9	50.6	50.7	51.2
Unemployed	1,060	1,095	1,040	1,107	1,071	1,064	1,044	1,008	956	973	940	903	946
Unemployment rate	15.6	16.1	15.3	16.1	15.6	15.5	15.2	14.6	13.9	14.0	13.5	13.0	13.5
Men	16.8	17.1	15.7	17.0	16.4	16.0	16.3	16.0	14.6	14.9	14.1	13.7	14.5
Women	14.4	14.9	14.8	15.1	14.8	14.9	13.9	13.2	13.1	13.1	12.9	12.4	12.5
BLACK													
Civilian noninstitutional population ¹	19,701	19,790	19,863	19,945	20,028	20,120	20,218	20,310	20,398	20,481	20,568	20,651	20,737
Civilian labor force	12,363	12,477	12,569	12,734	12,597	12,719	12,851	12,853	13,072	13,187	13,162	13,045	13,249
Percent of population	62.8	63.0	63.3	63.8	62.9	63.2	63.6	63.3	64.1	64.4	64.0	63.2	63.9
Employed	10,529	10,588	10,733	10,846	10,759	10,918	11,051	11,160	11,438	11,583	11,511	11,474	11,770
Employment-population ratio ²	53.4	53.5	54.0	54.4	53.7	54.3	54.7	54.9	56.1	56.6	56.0	55.6	56.8
Unemployed	1,834	1,889	1,836	1,888	1,838	1,800	1,800	1,693	1,634	1,603	1,652	1,571	1,479
Unemployment rate	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2	12.5	12.0	11.2
Men, 20 years and over													
Civilian labor force	5,760	5,802	5,883	5,928	5,901	5,949	5,993	6,007	6,049	6,037	6,136	6,111	6,115
Percent of population	74.3	74.5	75.0	75.2	74.5	74.7	74.8	74.7	74.8	74.4	75.2	74.6	74.3
Employed	5,032	5,025	5,122	5,162	5,122	5,195	5,281	5,312	5,404	5,430	5,466	5,473	5,546
Employment-population ratio ²	64.9	64.5	65.3	65.4	64.6	65.2	65.9	66.0	66.9	66.9	67.0	66.8	67.3
Unemployed	728	778	761	766	779	754	712	694	645	607	670	639	569
Unemployment rate	12.6	13.4	12.9	12.9	13.2	12.7	11.9	11.6	10.7	10.0	10.9	10.5	9.3
Women, 20 years and over													
Civilian labor force	5,712	5,778	5,779	5,875	5,849	5,917	5,989	5,988	6,102	6,203	6,170	6,075	6,212
Percent of population	58.3	58.7	58.5	59.2	58.7	59.1	59.5	59.3	60.1	60.9	60.3	59.1	60.2
Employed	4,957	5,038	5,074	5,126	5,130	5,179	5,232	5,298	5,401	5,525	5,503	5,414	5,595
Employment-population ratio ²	50.6	51.2	51.4	51.7	51.5	51.7	52.0	52.4	53.2	54.2	53.8	52.7	54.2
Unemployed	755	740	705	749	719	738	757	689	700	677	667	661	617
Unemployment rate	13.2	12.8	12.2	12.7	12.3	12.5	12.6	11.5	11.5	10.9	10.8	10.9	9.9

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-44. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	891	896	908	931	846	853	869	859	922	947	856	859	921
Percent of population	41.4	41.7	42.5	43.6	39.6	39.8	40.4	39.7	42.5	43.6	39.4	39.4	42.2
Employed	540	525	537	557	507	544	538	550	633	628	541	588	628
Employment-population ratio ²	25.1	24.4	25.1	26.1	23.7	25.4	25.1	25.4	29.2	28.9	24.9	27.0	28.8
Unemployed	352	372	371	373	339	308	331	309	289	319	314	271	293
Unemployment rate	39.5	41.5	40.8	40.1	40.1	36.2	38.1	36.0	31.3	33.7	36.7	31.6	31.8
Men	40.4	42.7	40.9	39.6	40.2	36.7	36.9	35.9	32.6	32.7	38.6	30.6	31.4
Women	38.3	40.1	40.7	40.7	40.0	35.6	39.3	36.1	30.0	34.8	34.8	32.8	32.2
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	11,969	12,075	12,184	12,290	12,397	12,504	12,692	12,809	12,926	13,043	13,153	13,268	13,382
Civilian labor force	7,806	7,809	7,862	8,010	8,171	8,256	8,402	8,495	8,526	8,730	8,900	8,905	8,994
Percent of population	65.2	64.7	64.5	65.2	65.9	66.0	66.2	66.3	66.0	66.9	67.7	67.1	67.2
Employed	6,976	6,973	7,015	7,150	7,280	7,425	7,593	7,740	7,832	7,990	8,195	8,096	8,281
Employment-population ratio ²	58.3	57.7	57.6	58.2	58.7	59.4	59.8	60.4	60.6	61.3	62.3	61.0	61.9
Unemployed	830	836	847	860	891	831	809	755	694	739	705	809	713
Unemployment rate	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5	7.9	9.1	7.9

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	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
EMPLOYED													
Full-time workers	88,406	89,252	89,807	90,133	90,870	91,279	92,039	92,561	93,298	93,903	94,565	95,055	95,265
Men, 16 years and over	53,868	54,163	54,528	54,521	54,758	54,945	55,356	55,552	55,927	56,159	56,414	56,866	56,942
Men, 20 years and over	52,478	52,765	53,177	53,100	53,392	53,608	54,026	54,239	54,507	54,752	55,040	55,379	55,453
Women, 16 years and over	34,539	35,102	35,253	35,628	36,119	36,367	36,625	37,035	37,432	37,742	38,031	38,256	38,414
Women, 20 years and over	33,469	34,038	34,236	34,552	35,090	35,351	35,587	35,989	36,288	36,605	36,948	37,184	37,253
Both sexes, 16 to 19 years	2,460	2,449	2,395	2,481	2,388	2,320	2,427	2,333	2,503	2,546	2,577	2,492	2,559
Part-time workers	18,729	18,782	18,994	19,048	19,021	19,208	19,280	19,536	19,439	19,678	19,705	19,478	19,782
Men, 16 years and over	6,078	6,054	6,151	6,205	6,176	6,295	6,275	6,360	6,350	6,454	6,424	6,366	6,534
Men, 20 years and over	4,159	4,198	4,245	4,278	4,183	4,297	4,286	4,347	4,337	4,410	4,407	4,357	4,469
Women, 16 years and over	12,672	12,741	12,824	12,832	12,871	12,925	12,981	13,173	13,109	13,237	13,256	13,108	13,269
Women, 20 years and over	10,644	10,673	10,710	10,767	10,754	10,749	10,882	10,971	10,912	11,050	11,086	10,902	11,045
Both sexes, 16 to 19 years	3,925	3,911	4,039	4,003	4,084	4,163	4,111	4,219	4,190	4,218	4,212	4,219	4,268
UNEMPLOYED													
Looking for full-time work	6,802	6,714	6,711	6,844	6,679	6,619	6,373	6,045	5,767	5,670	5,550	5,277	5,320
Men, 16 years and over	3,933	3,885	3,861	3,987	3,913	3,899	3,769	3,609	3,399	3,302	3,152	3,086	3,117
Men, 20 years and over	3,459	3,426	3,472	3,527	3,514	3,533	3,373	3,215	3,015	2,930	2,881	2,734	2,738
Women, 16 years and over	2,880	2,824	2,831	2,875	2,764	2,701	2,590	2,455	2,393	2,393	2,315	2,215	2,238
Women, 20 years and over	2,555	2,486	2,495	2,541	2,440	2,400	2,297	2,179	2,133	2,100	2,035	1,973	1,993
Both sexes, 16 to 19 years	788	802	744	776	725	686	703	652	619	639	634	570	590
Looking for part-time work	1,507	1,497	1,497	1,555	1,557	1,513	1,519	1,419	1,424	1,417	1,391	1,328	1,368
Men, 16 years and over	579	597	573	629	637	617	613	590	563	554	571	529	543
Men, 20 years and over	232	226	221	249	252	254	252	222	214	197	231	210	182
Women, 16 years and over	918	906	926	925	902	907	910	833	851	871	823	807	812
Women, 20 years and over	595	577	574	562	574	551	558	499	531	528	508	484	507
Both sexes, 16 to 19 years	680	694	702	745	732	708	709	698	679	692	652	634	679

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	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642	115,189
Married men, spouse present	39,149	39,278	39,424	39,605	39,704	39,899	40,020	40,072	40,325	40,637	40,453	40,404	40,524
Married women, spouse present	26,350	26,784	26,818	26,973	27,336	27,450	27,839	28,242	28,180	28,174	28,651	28,713	28,762
Women who maintain families	5,605	5,560	5,726	5,780	5,862	5,977	5,943	5,982	6,097	6,214	6,161	6,032	6,226
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,492	1,520	1,587	1,508	1,524	1,594	1,655	1,631	1,613	1,633	1,664	1,589	1,570
Self-employed workers	1,448	1,411	1,460	1,475	1,433	1,420	1,416	1,440	1,411	1,429	1,430	1,363	1,400
Unpaid family workers	175	165	169	167	168	170	142	166	149	150	131	160	148
Nonagricultural industries:													
Wage and salary workers	95,964	96,747	97,666	98,042	98,523	98,964	99,731	100,417	101,116	101,821	102,489	102,488	103,215
Government	16,026	16,169	16,249	16,312	16,434	16,371	16,546	16,715	16,866	17,072	17,017	16,989	17,058
Private industries	79,937	80,579	81,417	81,730	82,088	82,594	83,184	83,701	84,250	84,749	85,472	85,500	86,157
Private households	1,271	1,220	1,221	1,269	1,245	1,206	1,228	1,212	1,162	1,236	1,164	1,133	1,105
Other industries	78,666	79,358	80,196	80,461	80,844	81,387	81,956	82,489	83,088	83,513	84,308	84,367	85,051
Self-employed workers	7,791	7,921	7,691	7,754	7,985	8,076	8,128	8,196	8,211	8,259	8,276	8,710	8,531
Unpaid family workers	277	255	257	241	265	256	256	273	270	242	237	296	242
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,628	5,469	5,509	5,783	5,479	5,601	5,578	5,327	5,324	5,383	5,425	5,118	5,205
Slack work	2,436	2,294	2,356	2,565	2,440	2,469	2,469	2,327	2,370	2,356	2,464	2,276	2,333
Could only find part-time work	2,830	2,877	2,830	2,872	2,722	2,796	2,734	2,675	2,631	2,663	2,591	2,485	2,476
Voluntary part time	13,568	13,678	13,833	13,909	13,952	14,058	14,153	14,425	14,475	14,574	14,582	14,771	15,135
Nonagricultural industries:													
Part time for economic reasons	5,365	5,250	5,272	5,515	5,258	5,344	5,283	5,047	5,052	5,104	5,168	4,874	4,986
Slack work	2,280	2,167	2,203	2,426	2,289	2,310	2,276	2,155	2,187	2,172	2,304	2,147	2,187
Could only find part-time work	2,732	2,777	2,749	2,776	2,661	2,699	2,642	2,594	2,555	2,569	2,499	2,399	2,419
Voluntary part time	13,108	13,224	13,372	13,506	13,536	13,605	13,686	13,958	14,013	14,099	14,120	14,338	14,705

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	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	114,642	115,189
16 to 24 years	20,319	20,305	20,371	20,276	20,224	20,182	20,193	20,129	20,258	20,091	20,166	20,056	20,124
16 to 19 years	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736	6,736	6,786	6,880
16 to 17 years	2,484	2,482	2,551	2,638	2,612	2,691	2,696	2,684	2,788	2,776	2,728	2,717	2,662
18 to 19 years	3,896	3,892	3,886	3,850	3,846	3,819	3,828	3,891	3,927	3,972	4,004	4,063	4,198
20 to 24 years	13,926	13,943	13,961	13,783	13,736	13,689	13,683	13,548	13,518	13,355	13,430	13,270	13,245
25 years and over	86,882	87,670	88,411	88,927	89,768	90,237	91,091	91,999	92,631	93,373	94,045	94,545	95,133
25 to 54 years	72,672	73,385	74,146	74,549	75,398	75,949	76,645	77,547	78,175	78,708	79,370	79,985	80,595
55 years and over	14,234	14,303	14,219	14,372	14,403	14,302	14,397	14,454	14,495	14,673	14,607	14,564	14,558
Men, 16 years and over	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568	62,875	63,254	63,476
16 to 24 years	10,615	10,562	10,660	10,554	10,552	10,522	10,504	10,394	10,492	10,381	10,417	10,456	10,456
16 to 19 years	3,299	3,249	3,262	3,339	3,354	3,325	3,341	3,318	3,428	3,440	3,436	3,498	3,539
16 to 17 years	1,287	1,299	1,313	1,371	1,352	1,373	1,385	1,363	1,406	1,417	1,409	1,395	1,392
18 to 19 years	2,008	1,961	1,968	1,964	1,984	1,967	1,965	1,949	2,002	2,036	2,027	2,098	2,133
20 to 24 years	7,316	7,313	7,398	7,215	7,199	7,198	7,163	7,075	7,064	6,941	6,981	6,958	6,917
25 years and over	49,341	49,622	50,045	50,165	50,402	50,677	51,163	51,513	51,805	52,185	52,477	52,770	53,038
25 to 54 years	40,891	41,172	41,620	41,731	42,034	42,267	42,659	42,992	43,300	43,590	43,938	44,263	44,533
55 years and over	8,450	8,464	8,400	8,437	8,374	8,422	8,481	8,528	8,514	8,605	8,501	8,513	8,519
Women, 16 years and over	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918	51,338	51,387	51,713
16 to 24 years	9,703	9,743	9,711	9,722	9,672	9,659	9,689	9,735	9,767	9,710	9,750	9,600	9,668
16 to 19 years	3,094	3,113	3,147	3,154	3,134	3,168	3,170	3,262	3,312	3,296	3,300	3,288	3,341
16 to 17 years	1,197	1,183	1,238	1,267	1,260	1,317	1,311	1,321	1,382	1,359	1,320	1,322	1,270
18 to 19 years	1,888	1,931	1,918	1,886	1,862	1,852	1,863	1,942	1,926	1,935	1,977	1,965	2,065
20 to 24 years	6,609	6,630	6,563	6,568	6,538	6,492	6,520	6,473	6,454	6,414	6,450	6,312	6,328
25 years and over	37,541	38,048	38,366	38,763	39,366	39,561	39,928	40,485	40,826	41,188	41,568	41,772	42,095
25 to 54 years	31,781	32,213	32,526	32,817	33,364	33,682	33,986	34,555	34,875	35,118	35,431	35,722	36,062
55 years and over	5,784	5,839	5,820	5,935	6,029	5,880	5,916	5,926	5,982	6,069	6,105	6,051	6,039

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

(In thousands)

Sex and age	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	6,616	6,691
16 to 24 years	3,183	3,216	3,111	3,198	3,110	3,007	2,998	2,851	2,710	2,626	2,607	2,464	2,481
16 to 19 years	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342	1,282	1,200	1,268
16 to 17 years	652	685	660	681	668	652	669	653	614	657	595	534	619
18 to 19 years	795	822	789	843	772	754	744	697	671	686	692	668	638
20 to 24 years	1,720	1,712	1,667	1,680	1,657	1,604	1,590	1,505	1,414	1,283	1,326	1,264	1,212
25 years and over	5,136	4,984	5,091	5,207	5,143	5,108	4,886	4,609	4,509	4,445	4,324	4,137	4,230
25 to 54 years	4,515	4,390	4,487	4,653	4,561	4,536	4,413	4,106	4,020	3,947	3,850	3,674	3,783
55 years and over	625	574	617	563	576	561	486	504	481	492	489	469	458
Men, 16 years and over	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843	3,790	3,595	3,614
16 to 24 years	1,746	1,744	1,652	1,735	1,704	1,625	1,618	1,545	1,456	1,408	1,404	1,305	1,344
16 to 19 years	820	832	760	819	792	746	767	740	703	719	685	644	693
16 to 17 years	360	367	355	356	367	342	360	362	332	358	315	285	329
18 to 19 years	446	465	411	470	412	404	413	387	359	359	376	367	355
20 to 24 years	926	912	892	916	912	879	851	805	753	689	719	661	650
25 years and over	2,779	2,729	2,798	2,859	2,878	2,893	2,769	2,628	2,497	2,424	2,389	2,280	2,284
25 to 54 years	2,414	2,374	2,443	2,510	2,513	2,532	2,466	2,295	2,187	2,134	2,085	1,981	2,007
55 years and over	366	347	367	347	360	359	313	325	295	291	318	293	275
Women, 16 years and over	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239	3,138	3,021	3,077
16 to 24 years	1,437	1,472	1,458	1,463	1,405	1,382	1,361	1,306	1,254	1,218	1,203	1,159	1,137
16 to 19 years	643	671	683	700	661	657	641	606	593	623	596	556	575
16 to 17 years	292	318	305	324	301	310	309	291	282	299	280	248	290
18 to 19 years	349	356	378	372	360	350	332	311	312	327	316	302	282
20 to 24 years	794	801	775	764	745	725	739	700	661	594	607	603	562
25 years and over	2,356	2,255	2,293	2,348	2,265	2,214	2,118	1,981	2,012	2,022	1,935	1,856	1,946
25 to 54 years	2,101	2,016	2,044	2,144	2,048	2,005	1,947	1,811	1,822	1,813	1,766	1,694	1,756
55 years and over	260	226	250	216	216	202	173	179	186	201	170	177	183

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Civilian workers)

Sex and age	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5
16 to 24 years	13.5	13.7	13.2	13.6	13.3	13.0	12.9	12.4	11.8	11.6	11.4	10.9	11.0
16 to 19 years	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0	15.0	15.6
16 to 17 years	20.8	21.6	20.6	20.5	20.4	19.5	19.9	19.6	18.0	19.1	17.9	16.4	18.9
18 to 19 years	17.0	17.4	16.9	18.0	16.7	16.5	16.3	15.2	14.6	14.7	14.7	14.1	13.2
20 to 24 years	11.0	10.9	10.7	10.9	10.8	10.5	10.4	10.0	9.5	8.8	9.0	8.7	8.4
25 years and over	5.6	5.4	5.4	5.5	5.4	5.4	5.1	4.8	4.6	4.5	4.4	4.2	4.3
25 to 54 years	5.8	5.6	5.7	5.9	5.7	5.6	5.4	5.0	4.9	4.8	4.6	4.4	4.5
55 years and over	4.2	3.9	4.2	3.8	3.8	3.8	3.3	3.4	3.2	3.2	3.2	3.1	3.1
Men, 16 years and over	7.0	6.9	6.8	7.0	7.0	6.9	6.6	6.3	5.9	5.8	5.7	5.4	5.4
16 to 24 years	14.1	14.2	13.4	14.1	13.9	13.4	13.3	12.9	12.2	11.9	11.9	11.1	11.4
16 to 19 years	19.9	20.4	18.9	19.7	19.1	18.3	18.7	18.2	17.0	17.3	16.6	15.6	16.4
16 to 17 years	21.9	22.0	21.3	20.6	21.3	20.0	20.6	21.0	19.1	20.2	18.3	17.0	19.1
18 to 19 years	18.2	19.2	17.3	19.3	17.2	17.0	17.4	16.6	15.2	15.0	15.6	14.9	14.3
20 to 24 years	11.2	11.1	10.8	11.3	11.2	10.9	10.6	10.2	9.6	9.0	9.3	8.7	8.6
25 years and over	5.3	5.2	5.3	5.4	5.4	5.1	4.9	4.6	4.4	4.4	4.1	4.1	4.1
25 to 54 years	5.6	5.5	5.5	5.7	5.6	5.7	5.5	5.1	4.8	4.7	4.5	4.3	4.3
55 years and over	4.1	3.9	4.2	4.0	4.1	4.1	3.6	3.7	3.3	3.3	3.6	3.3	3.1
Women, 16 years and over	7.4	7.2	7.2	7.3	7.0	6.8	6.6	6.2	6.1	6.0	5.8	5.6	5.6
16 to 24 years	12.9	13.1	13.1	13.1	12.7	12.5	12.5	11.8	11.4	11.1	11.0	10.8	10.5
16 to 19 years	17.2	17.7	17.8	18.2	17.4	17.2	16.8	15.7	15.2	15.9	15.3	14.5	14.7
16 to 17 years	19.6	21.2	19.8	20.4	19.3	19.0	19.1	18.1	17.0	18.0	17.5	15.8	18.6
18 to 19 years	15.6	15.6	16.5	16.5	16.2	15.9	15.1	13.8	14.0	14.5	13.8	13.3	12.0
20 to 24 years	10.7	10.8	10.6	10.4	10.2	10.1	10.2	9.8	9.3	8.5	8.6	8.7	8.2
25 years and over	5.9	5.6	5.6	5.7	5.4	5.3	5.0	4.7	4.7	4.7	4.4	4.3	4.4
25 to 54 years	6.2	5.9	5.9	6.1	5.8	5.6	5.4	5.0	5.0	4.9	4.7	4.5	4.6
55 years and over	4.3	3.7	4.1	3.5	3.5	3.3	2.8	2.9	3.0	3.2	2.7	2.8	2.9

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total (all civilian workers)	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5
Men, 20 years and over	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0	5.0	4.7	4.6
Women, 20 years and over	6.7	6.4	6.4	6.2	6.0	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9
Both sexes, 16 to 19 years	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0	15.0	15.6
White	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.6	4.8
Black and other	13.4	13.7	13.1	13.5	13.1	12.6	12.5	11.8	11.2	10.9	11.2	10.7	9.8
Black	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2	12.5	12.0	11.2
Hispanic origin	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5	7.9	9.1	7.9
Married men, spouse present	4.3	4.2	4.4	4.4	4.3	4.4	4.2	4.0	3.7	3.5	3.5	3.1	3.2
Married women, spouse present	5.6	5.4	5.3	5.3	5.2	4.9	4.6	4.2	4.2	4.2	4.1	3.8	4.0
Women who maintain families	10.7	10.1	10.0	9.8	9.8	9.6	9.7	9.5	9.1	8.6	8.2	8.3	8.0
Full-time workers	6.9	6.7	6.7	6.8	6.6	6.5	6.2	5.9	5.6	5.5	5.4	5.1	5.1
Part-time workers	9.2	9.1	9.0	9.3	9.2	9.0	8.9	8.2	8.2	8.2	8.0	7.6	7.7
Unemployed 15 weeks and over ¹	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.3
Labor force time lost ²	8.2	7.9	8.0	8.1	7.9	7.7	7.5	7.2	6.9	6.7	6.6	6.3	6.4
INDUSTRY													
Nonagricultural private wage and salary workers	7.2	7.1	7.0	7.2	7.0	6.9	6.6	6.2	6.0	5.8	5.7	5.4	5.5
Goods-producing industries	9.1	8.7	8.5	8.6	8.5	8.8	8.1	7.5	7.0	6.6	6.8	6.4	6.5
Mining	9.2	8.7	10.5	13.9	15.7	14.7	12.2	11.2	8.0	7.8	7.8	8.5	6.9
Construction	13.5	13.0	13.0	12.6	12.7	14.0	12.2	11.9	11.3	10.8	11.3	10.4	10.1
Manufacturing	7.8	7.5	7.1	7.2	7.0	7.1	6.8	6.1	5.7	5.4	5.5	5.1	5.5
Durable goods	7.8	7.5	7.1	7.0	6.7	6.8	6.7	5.9	5.6	4.9	5.5	4.7	5.2
Nondurable goods	7.9	7.5	7.2	7.4	7.4	7.5	6.9	6.4	5.9	6.0	5.5	5.8	5.9
Service-producing industries	6.3	6.3	6.3	6.5	6.3	6.0	5.9	5.6	5.5	5.4	5.2	5.0	5.0
Transportation and public utilities	5.2	5.2	5.2	5.3	5.1	4.7	4.4	4.6	4.3	4.5	3.8	4.1	3.6
Wholesale and retail trade	7.7	7.7	7.5	7.9	7.6	7.3	7.3	7.0	6.8	6.5	6.4	6.0	6.3
Finance and service industries	5.5	5.4	5.6	5.6	5.6	5.3	5.1	4.8	4.9	4.8	4.6	4.4	4.4
Government workers	4.0	3.8	3.7	3.6	3.3	3.6	3.5	3.4	3.5	3.3	2.8	2.9	3.0
Agricultural wage and salary workers	13.3	12.2	12.3	14.8	12.4	10.9	11.1	9.4	10.0	10.9	10.9	11.4	11.2

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	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
DURATION													
Less than 5 weeks	3,498	3,437	3,454	3,551	3,431	3,376	3,353	3,214	3,203	3,223	3,061	3,089	3,100
5 to 14 weeks	2,529	2,489	2,550	2,695	2,498	2,513	2,448	2,191	2,078	2,030	2,170	1,985	1,953
15 weeks and over	2,284	2,250	2,229	2,199	2,303	2,211	2,124	2,052	1,907	1,809	1,732	1,554	1,634
15 to 26 weeks	1,045	1,016	1,075	1,001	1,090	1,031	990	977	899	878	856	745	829
27 weeks and over	1,239	1,234	1,153	1,199	1,213	1,180	1,133	1,075	1,008	930	876	808	805
Average (mean) duration, in weeks	15.4	15.4	15.0	14.8	15.4	15.1	14.9	14.8	14.2	14.1	14.1	13.4	13.6
Median duration, in weeks	7.0	6.9	6.9	6.8	7.1	7.0	6.8	6.7	6.3	6.1	6.5	5.8	5.9
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	42.1	42.0	42.0	42.0	41.7	41.7	42.3	43.1	44.6	45.6	44.0	46.6	46.4
5 to 14 weeks	30.4	30.4	31.0	31.9	30.3	31.0	30.9	29.4	28.9	28.7	31.2	30.0	29.2
15 weeks and over	27.5	27.5	27.1	26.0	28.0	27.3	26.8	27.5	26.5	25.6	24.9	23.4	24.4
15 to 26 weeks	12.6	12.4	13.1	11.8	13.2	12.7	12.5	13.1	12.5	12.4	12.3	11.2	12.4
27 weeks and over	14.9	15.1	14.0	14.2	14.7	14.6	14.3	14.4	14.0	13.2	12.6	12.2	12.0

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

(Numbers in thousands)

Reasons for unemployment	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
NUMBER OF UNEMPLOYED													
Job losers	4,215	4,044	4,043	4,160	4,006	3,938	3,866	3,624	3,410	3,298	3,185	3,070	3,104
On layoff	1,167	1,145	1,132	1,095	1,058	1,061	1,030	935	870	893	890	826	853
Other job losers	3,048	2,899	2,911	3,066	2,948	2,877	2,835	2,688	2,540	2,406	2,294	2,244	2,251
Job leavers	870	877	985	1,041	1,005	1,032	979	948	987	944	1,040	954	965
Reentrants	2,234	2,231	2,172	2,167	2,186	2,112	2,058	1,980	1,936	1,921	1,874	1,765	1,844
New entrants	1,018	1,035	1,017	1,058	1,042	1,002	1,002	924	860	893	879	833	771
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	50.6	49.4	49.2	49.4	48.6	48.7	48.9	48.5	47.4	46.7	45.6	46.4	46.4
On layoff	14.0	14.0	13.8	13.0	12.8	13.1	13.0	12.5	12.1	12.7	12.8	12.5	12.8
Other job losers	36.6	35.4	35.4	36.4	35.8	35.6	35.9	36.0	35.3	34.1	32.9	33.9	33.7
Job leavers	10.4	10.7	12.0	12.4	12.2	12.8	12.4	12.7	13.7	13.4	14.9	14.4	14.4
Reentrants	26.8	27.3	26.4	25.7	26.5	26.1	26.0	26.5	26.9	27.2	26.9	26.7	27.6
New entrants	12.2	12.6	12.4	12.6	12.7	12.4	12.7	12.4	12.0	12.7	12.6	12.6	11.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.6	3.5	3.5	3.5	3.4	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.5
Job leavers .....	.8	.8	.8	.9	.8	.9	.8	.8	.8	.8	.9	.8	.8
Reentrants	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5
New entrants .....	.9	.9	.9	.9	.9	.8	.8	.8	.7	.7	.7	.7	.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason, sex, and race	1985		1986				1987				1988		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Total not in labor force	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899	62,825	63,131	62,960
Do not want a job now	56,789	56,756	57,135	56,831	56,802	57,026	56,983	57,008	57,490	57,408	57,414	57,589	58,423
Current activity:													
Going to school	6,293	6,321	6,225	6,483	6,172	6,333	6,394	6,403	6,388	6,414	6,325	6,352	7,133
Ill, disabled	3,835	3,990	4,154	4,057	4,079	3,957	4,111	4,193	4,426	4,467	4,254	4,464	4,434
Keeping house	27,032	26,857	26,724	26,538	26,183	26,024	26,182	25,550	25,646	25,513	25,289	25,330	25,457
Retired	15,088	15,225	15,208	15,316	15,818	16,055	15,872	16,250	16,317	16,508	16,862	16,784	16,776
Other activity	4,541	4,364	4,824	4,437	4,550	4,657	4,424	4,611	4,713	4,507	4,684	4,659	4,622
Want a job now	5,995	6,002	5,772	5,842	5,943	5,861	5,780	5,871	5,802	5,462	5,510	5,313	5,313
Reason not looking:													
School attendance	1,389	1,481	1,428	1,378	1,535	1,425	1,348	1,470	1,556	1,389	1,310	1,276	1,426
Ill health, disability	785	862	841	869	912	763	848	914	847	834	850	844	804
Home responsibilities	1,397	1,366	1,375	1,293	1,208	1,356	1,231	1,325	1,274	1,234	1,182	1,215	1,140
Think cannot get a job	1,221	1,175	1,081	1,129	1,138	1,147	1,135	1,048	992	910	1,027	910	930
Job-market factors	818	775	771	767	742	824	762	694	635	581	700	589	590
Personal factors	403	400	310	362	396	323	373	354	357	329	327	321	340
Other reasons ¹	1,204	1,117	1,047	1,174	1,150	1,170	1,218	1,114	1,132	1,094	1,141	1,068	1,013
Men													
Total not in labor force	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845	20,856	20,896	20,892
Do not want a job now	18,044	18,138	18,391	18,393	18,320	18,444	18,459	18,585	18,945	18,878	18,997	18,854	19,180
Want a job now	2,004	1,980	1,945	1,941	2,084	2,008	1,994	2,062	2,064	1,918	1,971	1,872	1,946
Reason not looking:													
School attendance	660	705	741	654	812	676	661	750	773	737	633	674	693
Ill health, disability	365	398	373	453	448	360	408	463	416	414	406	370	386
Think cannot get a job	500	490	424	406	425	493	469	428	431	358	462	403	443
Other reasons ¹	479	387	408	428	399	479	456	421	444	409	471	425	424
Women													
Total not in labor force	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055	41,970	42,235	42,070
Do not want a job now	38,745	38,618	38,744	38,438	38,482	38,582	38,524	38,423	38,545	38,530	38,417	38,735	39,243
Want a job now	3,991	4,022	3,827	3,901	3,860	3,853	3,786	3,809	3,738	3,545	3,539	3,440	3,367
Reason not looking:													
School attendance	729	776	688	723	723	749	687	720	784	653	677	602	733
Ill health, disability	419	464	469	416	464	403	440	451	431	421	444	474	418
Home responsibilities	1,397	1,366	1,375	1,293	1,208	1,356	1,231	1,325	1,274	1,234	1,182	1,215	1,140
Think cannot get a job	721	685	657	723	713	654	666	619	561	552	566	507	487
Other reasons ¹	725	731	639	746	751	691	762	693	688	685	670	643	590
White													
Total not in labor force	53,914	53,666	53,793	53,665	53,484	53,557	53,658	53,627	53,771	53,679	53,455	53,557	53,463
Do not want a job now	49,429	49,294	49,514	49,403	49,214	49,336	49,437	49,284	49,536	49,564	49,536	49,640	49,751
Want a job now	4,419	4,396	4,283	4,311	4,270	4,238	4,198	4,344	4,252	4,045	4,020	3,883	3,673
Reason not looking:													
School attendance	991	1,051	1,013	964	1,017	972	951	1,093	1,062	986	945	905	904
Ill health, disability	592	602	633	606	634	541	617	683	648	646	644	637	559
Home responsibilities	1,038	1,023	1,028	1,005	900	992	912	959	948	909	837	858	810
Think cannot get a job	810	803	731	756	797	806	771	714	643	620	697	593	576
Other reasons ¹	988	918	877	981	921	927	946	896	951	884	897	891	823
Black													
Total not in labor force	7,338	7,313	7,294	7,211	7,431	7,401	7,367	7,457	7,326	7,294	7,406	7,606	7,488
Do not want a job now	5,949	5,940	5,957	5,913	6,028	6,034	5,962	6,169	6,088	6,083	6,094	6,372	6,215
Want a job now	1,351	1,380	1,329	1,303	1,430	1,389	1,402	1,294	1,237	1,210	1,320	1,242	1,289
Reason not looking:													
School attendance	317	343	382	342	428	374	346	315	333	341	351	312	337
Ill health, disability	191	234	210	216	256	190	225	193	168	165	195	186	238
Home responsibilities	306	289	291	266	270	308	291	313	275	304	310	318	264
Think cannot get a job	359	348	307	295	284	292	327	298	315	237	266	262	313
Other reasons ¹	177	166	139	184	191	225	212	175	145	163	198	164	137

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 1987	III 1988	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL										
Total not in labor force	61,815	61,798	5,686	5,423	3,574	3,526	21,362	21,291	31,194	31,558
Do not want a job now	56,366	56,816	4,678	4,586	2,813	2,838	18,232	18,419	30,644	30,970
Current activity:										
Going to school	3,521	3,774	2,129	2,154	837	969	539	632	16	20
Ill, disabled	4,423	4,447	33	50	163	122	2,283	2,202	1,943	2,072
Keeping house	25,588	25,380	463	419	1,163	1,174	12,192	12,197	11,771	11,588
Retired	16,550	17,044	-	-	-	-	413	481	16,137	16,563
Other activity	6,285	6,171	2,053	1,963	650	573	2,805	2,907	777	727
Want a job now	5,449	4,982	1,006	835	759	690	3,134	2,927	551	588
Reason for not looking:										
School attendance	882	808	481	406	144	149	256	252	1	-
Ill health, disability	834	791	37	24	40	42	590	540	167	186
Home responsibilities	1,388	1,237	82	71	256	206	993	915	57	46
Think cannot get a job	1,025	952	179	139	149	148	566	531	132	134
Job-market factors	651	600	109	70	102	95	389	377	51	57
Personal factors	374	352	70	69	48	52	177	153	80	77
Other reasons ¹	1,320	1,194	227	195	170	143	729	635	194	222
Men										
Total not in labor force	19,946	20,000	2,707	2,544	1,091	1,065	4,105	4,180	12,040	12,211
Do not want a job now	18,196	18,311	2,250	2,129	910	818	3,267	3,424	11,768	11,941
Current activity:										
Going to school	1,775	1,850	1,093	1,103	467	480	213	269	2	-
Ill, disabled	2,276	2,290	11	19	95	64	1,268	1,281	900	924
Keeping house	443	468	60	52	26	10	127	168	229	238
Retired	10,458	10,692	-	-	-	-	321	359	10,137	10,334
Other activity	3,245	3,012	1,086	955	322	264	1,338	1,347	500	445
Want a job now	1,750	1,689	456	416	180	247	841	755	274	271
Reason for not looking:										
School attendance	407	379	252	232	57	71	96	75	1	-
Ill health, disability	404	376	14	6	15	17	297	265	78	89
Think cannot get a job	433	448	88	79	57	82	201	212	89	75
Other reasons ¹	506	487	102	99	51	77	247	203	106	107
Women										
Total not in labor force	41,869	41,798	2,979	2,879	2,483	2,461	17,255	17,111	19,152	19,347
Do not want a job now	38,170	38,505	2,429	2,459	1,905	2,020	14,960	14,996	18,874	19,031
Current activity:										
Going to school	1,746	1,924	1,036	1,051	371	490	325	364	13	20
Ill, disabled	2,147	2,158	22	31	69	57	1,013	921	1,042	1,148
Keeping house	25,145	24,912	404	368	1,137	1,164	12,063	12,029	11,541	11,351
Retired	6,092	6,352	-	-	-	-	91	122	6,001	6,230
Other activity	3,040	3,159	967	1,009	328	309	1,468	1,560	277	282
Want a job now	3,699	3,293	549	420	577	441	2,294	2,117	279	316
Reason not looking:										
School attendance	475	429	229	174	86	78	160	177	-	-
Ill health, disability	430	415	23	19	24	26	294	274	89	97
Home responsibilities	1,388	1,237	82	71	256	206	993	915	57	46
Think cannot get a job	592	504	91	59	93	66	364	319	43	59
Other reasons	815	708	124	97	118	65	483	432	90	114

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 1987	III 1988	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
WHITE												
Total not in labor force	52,841	52,518	6,976	6,659	17,861	17,563	28,003	28,298	16,845	16,783	35,995	35,736
Do not want a job now	48,741	48,975	5,740	5,657	15,450	15,489	27,553	27,827	15,541	15,567	33,201	33,408
Current activity:												
Going to school	2,685	2,771	2,270	2,283	403	469	13	18	1,369	1,397	1,316	1,374
Ill, disabled	3,495	3,442	135	134	1,786	1,683	1,574	1,627	1,837	1,747	1,658	1,695
Keeping house	22,684	22,444	1,301	1,316	10,658	10,565	10,724	10,561	344	365	22,350	22,079
Retired	14,920	15,384	-	-	383	429	14,538	14,954	9,461	9,710	5,459	5,674
Other activity	4,958	4,934	2,034	1,924	2,220	2,343	704	667	2,540	2,348	2,418	2,586
Want a job now	4,099	3,545	1,237	1,000	2,413	2,071	449	469	1,305	1,215	2,794	2,327
Reason for not looking:												
School attendance	607	517	425	355	180	163	-	-	285	241	322	275
Ill health, disability	638	552	59	45	444	376	135	129	321	278	317	274
Home responsibilities	1,061	902	233	174	778	688	50	41	-	-	1,061	902
Think cannot get a job	664	588	194	150	375	328	95	104	282	277	381	305
Other reasons ¹	1,129	991	326	276	636	516	169	195	417	419	713	571
BLACK												
Total not in labor force	7,105	7,284	1,814	1,813	2,610	2,726	2,681	2,746	2,482	2,579	4,623	4,705
Do not want a job now	5,992	6,134	1,379	1,386	2,027	2,118	2,587	2,631	2,140	2,198	3,852	3,935
Current activity:												
Going to school	595	714	520	625	76	87	-	2	280	298	315	416
Ill, disabled	808	916	57	36	412	462	340	418	372	496	436	419
Keeping house	2,173	2,156	255	233	1,050	1,097	869	827	82	83	2,091	2,073
Retired	1,357	1,401	-	-	21	44	1,334	1,357	827	806	530	595
Other activity	1,059	947	547	492	468	428	44	27	579	515	480	432
Want a job now	1,113	1,150	436	427	582	608	94	116	343	381	771	771
Reason for not looking:												
School attendance	198	197	148	146	51	51	-	-	76	95	122	102
Ill health, disability	160	222	11	17	119	148	30	58	65	97	95	126
Home responsibilities	281	265	96	86	180	174	4	5	-	-	281	265
Think cannot get a job	318	317	124	127	159	161	34	29	126	144	193	174
Other reasons ¹	156	149	57	51	73	74	26	24	76	45	80	104
HISPANIC ORIGIN												
Total not in labor force	4,303	4,278	1,149	1,081	2,048	2,057	1,106	1,140	1,189	1,130	3,115	3,148
Do not want a job now	3,813	3,752	939	858	1,792	1,785	1,084	1,107	1,050	960	2,764	2,792
Current activity:												
Going to school	359	331	310	293	50	38	-	-	202	163	157	168
Ill, disabled	326	346	23	20	175	187	128	137	199	171	127	174
Keeping house	2,096	2,074	319	316	1,366	1,283	411	474	58	53	2,037	2,022
Retired	535	511	-	-	23	35	512	476	332	338	204	173
Other activity	497	490	287	229	178	242	33	20	259	235	239	255
Want a job now	490	526	211	221	257	274	23	33	140	168	351	356
Reason for not looking:												
School attendance	101	94	75	60	25	35	-	-	50	43	51	51
Ill health, disability	58	34	8	9	34	16	16	10	26	18	32	16
Home responsibilities	170	170	55	65	115	104	-	2	-	-	170	170
Think cannot get a job	77	124	45	44	28	71	6	10	24	58	54	66
Other reasons ¹	84	104	28	43	55	48	1	11	40	49	44	53

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 1988							
	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	113	14	2	23	73	79	28	5
Lacks education or training	173	41	48	83	1	89	72	14
Other personal handicap	66	14	2	47	3	44	22	2
Job-market factors:								
Could not find work	352	45	64	215	29	201	137	64
Thinks no job available	248	25	31	165	28	171	58	39
Men								
Personal factors:								
Employers think too young or old	55	6	2	5	41	42	13	5
Lacks education or training	74	29	32	13	1	32	37	-
Other personal handicap	32	8	-	24	-	20	12	-
Job-market factors:								
Could not find work	173	29	33	100	11	112	51	37
Thinks no job available	114	8	15	69	21	71	31	17
Women								
Personal factors:								
Employers think too young or old	58	8	-	18	31	37	15	-
Lacks education or training	99	12	17	70	-	57	36	14
Other personal handicap	34	6	2	22	3	24	10	2
Job-market factors:								
Could not find work	179	16	31	115	18	89	85	28
Thinks no job available	135	18	16	94	7	100	27	22

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 1987	III 1988	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL												
Do not intend to seek work	53,492	53,947	5,506	5,559	17,344	17,359	30,644	31,030	46,238	46,421	5,740	5,907
Intend to seek work in the next 12 months	8,321	7,850	3,753	3,391	4,020	3,932	549	528	6,602	6,098	1,366	1,377
Never worked	1,229	1,087	1,102	892	126	192	-	3	828	674	316	303
Last worked over 5 years ago	1,254	1,185	58	38	1,052	984	143	163	929	817	279	301
Last worked 1 to 5 years ago	1,872	1,765	506	425	1,176	1,162	191	177	1,494	1,368	305	321
Worked during previous 12 months	3,966	3,814	2,086	2,036	1,664	1,592	214	185	3,351	3,238	466	452
Men												
Do not intend to seek work	17,176	17,463	2,230	2,190	3,190	3,318	11,756	11,957	14,656	14,800	2,039	2,132
Intend to seek work in the next 12 months	2,769	2,537	1,568	1,421	915	862	286	254	2,189	1,983	443	448
Never worked	503	382	481	344	23	38	-	-	340	231	126	121
Last worked over 5 years ago	270	253	10	9	182	182	78	62	178	169	79	64
Last worked 1 to 5 years ago	529	503	151	151	278	252	101	101	428	399	72	80
Worked during previous 12 months	1,467	1,398	927	916	434	391	107	92	1,244	1,184	167	183
Women												
Do not intend to seek work	36,316	36,484	3,276	3,370	14,153	14,041	18,888	19,073	31,582	31,621	3,701	3,776
Intend to seek work in the next 12 months	5,552	5,313	2,185	1,969	3,102	3,070	265	273	4,413	4,115	922	929
Never worked	726	704	622	548	102	154	-	3	488	443	190	182
Last worked over 5 years ago	984	931	49	28	870	801	65	101	751	648	199	237
Last worked 1 to 5 years ago	1,344	1,262	354	274	898	912	71	76	1,066	969	234	241
Worked during previous 12 months	1,498	2,415	1,159	1,120	1,230	1,201	108	93	2,107	2,054	299	269

**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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL								
Civilian noninstitutional population	183,016	184,840	157,145	158,347	20,398	20,737	12,926	13,382
Civilian labor force	121,201	123,042	104,304	105,829	13,293	13,453	8,622	9,103
Percent of population	66.2	66.6	66.4	66.8	65.2	64.9	66.7	68.0
Employed	114,069	116,426	99,118	100,941	11,588	11,919	7,940	8,399
Agriculture	3,494	3,415	3,217	3,188	210	167	420	440
Nonagricultural industries	110,574	113,010	95,900	97,753	11,378	11,752	7,520	7,959
Unemployed	7,133	6,617	5,187	4,888	1,704	1,534	683	704
Unemployment rate	5.9	5.4	5.0	4.6	12.8	11.4	7.9	7.7
Not in labor force	61,815	61,798	52,841	52,518	7,105	7,284	4,303	4,278
Men, 16 years and over								
Civilian noninstitutional population	87,033	87,982	75,286	75,941	9,150	9,314	6,401	6,633
Civilian labor force	67,087	67,981	58,441	59,159	6,668	6,734	5,212	5,503
Percent of population	77.1	77.3	77.6	77.9	72.9	72.3	81.4	83.0
Employed	63,388	64,594	55,696	56,605	5,857	6,007	4,830	5,087
Agriculture	2,747	2,711	2,510	2,518	182	142	373	391
Nonagricultural industries	60,641	61,882	53,186	54,087	5,675	5,865	4,457	4,695
Unemployed	3,699	3,387	2,744	2,554	810	728	382	416
Unemployment rate	5.5	5.0	4.7	4.3	12.2	10.8	7.3	7.6
Not in labor force	19,946	20,000	16,845	16,783	2,482	2,579	1,189	1,130
Men, 20 years and over								
Civilian noninstitutional population	79,678	80,676	69,257	69,973	8,082	8,236	5,728	5,948
Civilian labor force	62,439	63,219	54,473	55,101	6,106	6,166	4,837	5,090
Percent of population	78.4	78.4	78.7	78.7	75.6	74.9	84.4	85.6
Employed	59,459	60,539	52,239	53,062	5,472	5,611	4,539	4,763
Agriculture	2,468	2,406	2,252	2,224	164	133	350	348
Nonagricultural industries	56,991	58,134	49,987	50,838	5,307	5,477	4,189	4,415
Unemployed	2,980	2,680	2,234	2,039	634	555	299	327
Unemployment rate	4.8	4.2	4.1	3.7	10.4	9.0	6.2	6.4
Not in labor force	17,238	17,457	14,784	14,872	1,975	2,070	891	859
Women, 16 years and over								
Civilian noninstitutional population	95,983	96,859	81,859	82,405	11,248	11,424	6,525	6,749
Civilian labor force	54,114	55,061	45,864	46,670	6,625	6,719	3,410	3,601
Percent of population	56.4	56.8	56.0	56.6	58.9	58.8	52.3	53.4
Employed	50,680	51,832	43,421	44,336	5,731	5,912	3,110	3,313
Agriculture	747	704	707	671	28	25	47	49
Nonagricultural industries	49,933	51,128	42,714	43,666	5,703	5,887	3,063	3,264
Unemployed	3,434	3,229	2,442	2,334	894	806	300	288
Unemployment rate	6.3	5.9	5.3	5.0	13.5	12.0	8.8	8.0
Not in labor force	41,869	41,798	35,995	35,736	4,623	4,705	3,115	3,148
Women, 20 years and over								
Civilian noninstitutional population	88,701	89,664	75,928	76,541	10,147	10,318	5,862	6,079
Civilian labor force	49,810	50,745	42,181	42,950	6,113	6,214	3,134	3,276
Percent of population	56.2	56.6	55.6	56.1	60.2	60.2	53.5	53.9
Employed	47,000	48,114	40,194	41,050	5,370	5,564	2,894	3,037
Agriculture	681	647	645	615	25	24	45	46
Nonagricultural industries	46,319	47,467	39,549	40,435	5,346	5,540	2,849	2,991
Unemployed	2,810	2,631	1,987	1,899	742	650	239	239
Unemployment rate	5.6	5.2	4.7	4.4	12.1	10.5	7.6	7.3
Not in labor force	38,891	38,919	33,747	33,591	4,035	4,105	2,729	2,803
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,638	14,500	11,959	11,833	2,169	2,183	1,335	1,355
Civilian labor force	8,952	9,078	7,650	7,778	1,074	1,073	651	738
Percent of population	61.2	62.6	64.0	65.7	49.5	49.2	48.8	54.5
Employed	7,610	7,772	6,685	6,828	746	744	506	600
Agriculture	345	362	320	349	21	10	25	47
Nonagricultural industries	7,265	7,410	6,364	6,480	725	734	481	553
Unemployed	1,342	1,306	965	950	328	328	145	138
Unemployment rate	15.0	14.4	12.6	12.2	30.6	30.6	22.2	18.7
Not in labor force	5,686	5,423	4,309	4,055	1,095	1,110	683	617

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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL								
Civilian noninstitutional population	12,926	13,382	7,826	8,179	1,536	1,581	763	821
Civilian labor force	8,622	9,103	5,356	5,725	809	878	508	553
Percent of population	66.7	68.0	68.4	70.0	52.7	55.5	66.6	67.4
Employed	7,940	8,399	4,875	5,246	736	795	487	525
Agriculture	420	440	371	404	10	3	-	2
Nonagricultural industries	7,520	7,959	4,504	4,842	726	792	487	523
Unemployed	683	704	480	479	73	83	21	28
Unemployment rate	7.9	7.7	9.0	8.4	9.1	9.5	4.2	5.0
Not in labor force	4,303	4,278	2,471	2,453	727	703	255	268
Men, 16 years and over								
Civilian noninstitutional population	6,401	6,633	3,992	4,207	672	701	373	396
Civilian labor force	5,212	5,503	3,330	3,584	474	511	284	310
Percent of population	81.4	83.0	83.4	85.2	70.5	72.9	76.1	78.3
Employed	4,830	5,087	3,063	3,295	435	457	272	300
Agriculture	373	391	331	358	7	3	-	2
Nonagricultural industries	4,457	4,695	2,732	2,937	427	454	272	298
Unemployed	382	416	267	289	40	54	12	10
Unemployment rate	7.3	7.6	8.0	8.1	8.3	10.6	4.2	3.4
Not in labor force	1,189	1,130	662	623	198	190	90	86
Men, 20 years and over								
Civilian noninstitutional population	5,728	5,948	3,559	3,732	597	633	344	382
Civilian labor force	4,837	5,090	3,073	3,270	439	484	271	303
Percent of population	84.4	85.6	86.3	87.6	73.5	76.5	78.8	79.3
Employed	4,539	4,763	2,873	3,058	405	432	259	293
Agriculture	350	348	310	322	7	3	-	2
Nonagricultural industries	4,189	4,415	2,563	2,736	398	429	259	291
Unemployed	299	327	201	212	35	53	12	10
Unemployment rate	6.2	6.4	6.5	6.5	7.9	10.8	4.3	3.4
Not in labor force	891	859	486	462	157	148	74	79
Women, 16 years and over								
Civilian noninstitutional population	6,525	6,749	3,834	3,971	864	881	390	425
Civilian labor force	3,410	3,601	2,025	2,141	335	367	224	243
Percent of population	52.3	53.4	52.8	53.9	38.8	41.7	57.4	57.2
Employed	3,110	3,313	1,812	1,951	301	338	215	226
Agriculture	47	49	41	46	2	-	-	-
Nonagricultural industries	3,063	3,264	1,771	1,905	299	338	215	226
Unemployed	300	288	213	190	34	29	9	17
Unemployment rate	8.8	8.0	10.5	8.9	10.1	7.9	4.2	7.1
Not in labor force	3,115	3,148	1,809	1,830	530	514	165	182
Women, 20 years and over								
Civilian noninstitutional population	5,862	6,079	3,396	3,524	783	789	370	401
Civilian labor force	3,134	3,276	1,839	1,910	311	336	217	229
Percent of population	53.5	53.9	54.2	54.2	39.7	42.6	58.6	57.1
Employed	2,894	3,037	1,674	1,757	283	313	210	213
Agriculture	45	46	39	43	2	-	-	-
Nonagricultural industries	2,849	2,991	1,635	1,714	281	314	210	213
Unemployed	239	239	164	154	28	23	7	17
Unemployment rate	7.6	7.3	8.9	8.0	8.9	6.8	3.2	7.2
Not in labor force	2,729	2,803	1,558	1,614	473	453	153	171
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,335	1,355	871	923	156	159	49	38
Civilian labor force	651	738	443	545	59	58	21	20
Percent of population	48.8	54.5	50.9	59.0	37.8	36.5	(²)	(²)
Employed	506	600	328	431	48	5.0	18	20
Agriculture	25	47	23	39	1	-	-	-
Nonagricultural industries	481	553	305	392	47	50	18	20
Unemployed	145	138	115	114	11	8	3	1
Unemployment rate	22.2	18.7	26.0	20.9	(²)	(²)	(²)	(²)
Not in labor force	683	617	427	378	97	102	28	18

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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
CHARACTERISTIC								
Total (all civilian workers)	114,069	116,426	99,118	100,941	11,588	11,919	7,940	8,399
Men	63,388	64,594	55,696	56,605	5,857	6,007	4,830	5,087
Women	50,680	51,832	43,421	44,336	5,731	5,912	3,110	3,313
OCCUPATION								
Managerial and professional specialty	27,850	29,174	25,182	26,355	1,738	1,827	1,043	1,118
Executive, administrative, and managerial	13,726	14,473	12,588	13,241	754	843	539	602
Professional specialty	14,123	14,701	12,594	13,113	983	983	505	516
Technical, sales, and administrative support	35,224	35,765	31,050	31,314	3,122	3,311	1,939	2,100
Technicians and related support	3,476	3,648	2,997	3,073	324	381	123	167
Sales occupations	13,593	13,855	12,364	12,610	827	830	721	717
Administrative support, including clerical	18,155	18,262	15,689	15,631	1,970	2,099	1,094	1,216
Service occupations	15,120	15,495	11,990	12,244	2,636	2,724	1,347	1,606
Private household	926	930	687	707	220	206	97	145
Protective service	1,920	2,055	1,554	1,674	333	349	95	144
Service, except private household and protective	12,275	12,510	9,749	9,862	2,083	2,170	1,155	1,318
Precision production, craft, and repair	13,893	13,853	12,579	12,444	1,006	1,056	1,095	1,066
Mechanics and repairers	4,549	4,440	4,145	3,991	317	340	327	325
Construction trades	5,207	5,310	4,756	4,871	374	358	379	427
Other precision production, craft, and repair	4,137	4,103	3,679	3,582	315	358	390	315
Operators, fabricators, and laborers	18,019	18,314	14,717	15,080	2,798	2,746	2,018	2,031
Machine operators, assemblers, and inspectors	8,266	8,181	6,709	6,699	1,240	1,209	1,109	1,100
Transportation and material moving occupations	4,767	4,956	3,951	4,091	732	766	370	348
Handlers, equipment cleaners, helpers, and laborers	4,986	5,176	4,057	4,290	826	772	539	584
Construction laborers	877	957	737	801	125	135	116	148
Other handlers, equipment cleaners, helpers, and laborers	4,109	4,219	3,321	3,489	701	636	423	436
Farming, forestry, and fishing	3,962	3,825	3,600	3,504	289	255	497	477
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,806	1,746	1,605	1,567	154	135	356	367
Self-employed workers	1,507	1,491	1,436	1,443	53	32	58	68
Unpaid family workers	181	179	177	178	3	-	6	5
Nonagricultural industries:								
Wage and salary workers	102,000	104,131	87,957	89,639	11,019	11,351	7,102	7,505
Government	16,453	16,644	13,293	13,544	2,614	2,529	956	1,018
Private industries	85,547	87,488	74,664	76,095	8,405	8,822	6,146	6,487
Private households	1,238	1,177	933	898	274	257	120	164
Other industries	84,309	86,311	73,731	75,197	8,130	8,565	6,027	6,322
Self-employed workers	8,298	8,631	7,703	7,909	350	394	400	436
Unpaid family workers	276	248	240	205	8	7	17	19
FULL- AND PART-TIME STATUS¹								
Full-time schedules	93,863	95,800	81,336	82,943	9,684	9,892	6,621	7,080
Part time for economic reasons	5,617	5,468	4,594	4,463	853	821	635	632
Part time for noneconomic reasons	14,589	15,158	13,188	13,534	1,052	1,207	683	688

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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
CHARACTERISTIC								
Total (all civilian workers)	7,940	8,399	4,875	5,246	736	795	487	525
Men	4,830	5,087	3,063	3,295	435	457	272	300
Women	3,110	3,313	1,812	1,951	301	338	215	226
OCCUPATION								
Managerial and professional specialty	1,043	1,118	532	546	105	126	112	125
Executive, administrative, and managerial	539	602	281	311	53	65	69	76
Professional specialty	505	516	250	235	52	61	42	49
Technical, sales, and administrative support	1,939	2,100	1,110	1,166	201	217	173	187
Technicians and related support	123	167	71	90	11	22	9	13
Sales occupations	721	717	398	416	58	41	73	62
Administrative support, including clerical	1,094	1,216	641	660	132	154	91	112
Service occupations	1,347	1,606	784	1,041	135	151	54	71
Private household	97	145	59	77	3	2	1	6
Protective service	95	144	58	102	13	23	5	5
Service, except private household and protective	1,155	1,318	667	861	119	125	48	60
Precision production, craft, and repair	1,095	1,066	691	679	96	114	61	59
Mechanics and repairers	327	325	189	209	39	40	21	16
Construction trades	379	427	260	278	20	32	24	28
Other precision production, craft, and repair	390	315	242	192	37	42	16	15
Operators, fabricators, and laborers	2,018	2,031	1,333	1,384	186	180	81	81
Machine operators, assemblers, and inspectors	1,109	1,100	720	739	109	96	42	42
Transportation and material moving occupations	370	348	236	221	38	39	19	18
Handlers, equipment cleaners, helpers, and laborers	539	584	377	425	39	45	20	21
Construction laborers	116	148	82	109	8	11	2	4
Other handlers, equipment cleaners, helpers, and laborers	423	436	295	316	31	35	18	17
Farming, forestry, and fishing	497	477	426	430	14	7	6	3
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	356	367	318	344	8	1		
Self-employed workers	58	68	48	55	1	2		2
Unpaid family workers	6	5	6	5				
Nonagricultural industries:								
Wage and salary workers	7,102	7,505	4,285	4,599	704	769	440	470
Government	956	1,018	569	598	140	163	36	65
Private industries	6,146	6,487	3,716	4,000	563	606	403	405
Private households	120	164	76	91	3	3	1	6
Other industries	6,027	6,322	3,640	3,909	560	603	402	399
Self-employed workers	400	436	211	234	23	22	41	52
Unpaid family workers	17	19	7	9	-	1	6	1
FULL- AND PART-TIME STATUS²								
Full-time schedules	6,621	7,080	4,001	4,376	631	681	425	462
Part time for economic reasons	635	632	470	480	40	36	14	24
Part time for noneconomic reasons	683	688	404	390	66	79	48	39

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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
Total, 16 years and over	114,069	116,426	99,118	100,941	11,588	11,919	7,940	8,399
16 to 19 years	7,610	7,772	6,685	6,828	746	744	506	600
16 to 17 years	3,306	3,187	2,923	2,824	299	293	167	210
18 to 19 years	4,304	4,585	3,761	4,004	447	451	340	390
20 to 24 years	13,932	13,645	12,078	11,776	1,480	1,479	1,311	1,381
25 years and over	92,526	95,008	80,355	82,336	9,362	9,695	6,123	6,418
25 to 54 years	78,036	80,456	67,498	69,397	8,065	8,413	5,526	5,760
55 years and over	14,490	14,553	12,857	12,939	1,298	1,283	597	658
Men, 16 years and over	63,388	64,594	55,696	56,605	5,857	6,007	4,830	5,087
16 to 19 years	3,930	4,055	3,457	3,543	385	396	291	324
16 to 17 years	1,711	1,698	1,505	1,501	166	159	89	103
18 to 19 years	2,219	2,356	1,952	2,041	219	237	202	221
20 to 24 years	7,368	7,217	6,402	6,241	771	776	812	846
25 years and over	52,091	53,323	45,838	46,821	4,701	4,835	3,727	3,917
25 to 54 years	43,556	44,785	38,171	39,150	4,017	4,148	3,369	3,546
55 years and over	8,535	8,538	7,667	7,671	686	687	357	370
Women, 16 years and over	50,680	51,832	43,421	44,336	5,731	5,912	3,110	3,313
16 to 19 years	3,680	3,718	3,228	3,286	361	349	216	276
16 to 17 years	1,595	1,489	1,418	1,323	133	134	78	107
18 to 19 years	2,085	2,229	1,809	1,963	228	214	138	169
20 to 24 years	6,564	6,429	5,677	5,536	709	703	499	535
25 years and over	40,436	41,685	34,517	35,515	4,661	4,860	2,395	2,501
25 to 54 years	34,481	35,670	29,327	30,247	4,048	4,265	2,157	2,214
55 years and over	5,955	6,015	5,190	5,268	612	596	239	288

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

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

(Civilian workers)

Sex and age	Total		White		Black		Hispanic origin	
	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
Total, 16 years and over	5.9	5.4	5.0	4.6	12.8	11.4	7.9	7.7
16 to 19 years	15.0	14.4	12.6	12.2	30.6	30.6	22.2	18.7
16 to 17 years	16.1	16.7	13.7	14.4	33.2	33.8	25.6	24.7
18 to 19 years	14.1	12.7	11.8	10.6	28.7	28.4	20.5	15.1
20 to 24 years	9.1	8.1	7.6	6.6	20.1	18.7	9.6	9.7
25 years and over	4.5	4.1	3.9	3.6	9.7	8.2	6.1	6.1
25 to 54 years	4.8	4.4	4.1	3.8	10.3	8.8	6.3	6.2
55 years and over	3.1	2.9	2.8	2.7	5.7	3.8	4.2	5.2
Men, 16 years and over	5.5	5.0	4.7	4.3	12.2	10.8	7.3	7.6
16 to 19 years	15.5	14.9	12.9	12.7	31.5	30.3	22.4	21.7
16 to 17 years	16.9	16.9	14.3	14.4	33.6	34.3	29.7	28.1
18 to 19 years	14.3	13.3	11.7	11.4	29.8	27.3	18.7	18.3
20 to 24 years	8.7	7.8	7.4	6.5	17.8	16.9	7.7	8.6
25 years and over	4.2	3.7	3.6	3.3	9.0	7.6	5.8	6.0
25 to 54 years	4.4	3.9	3.8	3.4	9.5	8.3	6.0	5.9
55 years and over	3.0	2.8	2.7	2.6	6.5	2.8	4.0	5.6
Women, 16 years and over	6.3	5.9	5.3	5.0	13.5	12.0	8.8	8.0
16 to 19 years	14.5	13.9	12.4	11.7	29.6	30.9	22.0	15.0
16 to 17 years	15.3	16.5	12.9	14.4	32.6	33.1	20.4	21.2
18 to 19 years	13.9	12.0	11.9	9.7	27.6	29.5	22.9	10.5
20 to 24 years	9.6	8.5	7.8	6.7	22.4	20.5	12.6	11.4
25 years and over	5.0	4.7	4.2	4.1	10.3	8.8	6.6	6.4
25 to 54 years	5.3	4.9	4.4	4.3	11.1	9.3	6.8	6.6
55 years and over	3.1	3.0	2.9	2.7	4.8	4.9	4.4	4.3

**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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
DURATION								
Total, 16 years and over	7,133	6,617	5,187	4,888	1,704	1,534	683	704
Less than 5 weeks	3,303	3,189	2,472	2,405	708	692	354	386
5 to 14 weeks	2,115	1,971	1,496	1,463	553	452	193	208
15 weeks and over	1,715	1,457	1,218	1,020	444	390	135	110
15 to 26 weeks	724	666	520	496	180	155	63	61
27 weeks and over	991	791	698	524	264	235	73	49
Average (mean) duration, in weeks	13.8	13.2	13.5	12.4	15.1	15.7	11.7	9.3
Median duration, in weeks	5.9	5.4	5.5	5.2	6.9	6.4	4.8	4.6
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	46.3	48.2	47.7	49.2	41.5	45.1	51.9	54.8
5 to 14 weeks	29.7	29.8	28.8	29.9	32.4	29.5	28.3	29.5
15 weeks and over	24.0	22.0	23.5	20.9	26.0	25.4	19.8	15.6
15 to 26 weeks	10.2	10.1	10.0	10.1	10.6	10.1	9.2	8.7
27 weeks and over	13.9	12.0	13.5	10.7	15.5	15.3	10.6	6.9

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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
NUMBER OF UNEMPLOYED								
Total, 16 years and over	7,133	6,617	5,187	4,888	1,704	1,534	683	704
Job losers	3,157	2,859	2,347	2,176	733	619	342	360
On layoff	737	719	587	594	138	109	73	80
Other job losers	2,420	2,140	1,760	1,582	596	510	268	279
Job leavers	1,072	1,045	861	838	173	180	89	93
Reentrants	1,959	1,863	1,373	1,351	516	448	141	155
New entrants	944	850	606	524	282	286	112	96
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	44.3	43.2	45.2	44.5	43.0	40.4	50.0	51.1
On layoff	10.3	10.9	11.3	12.1	8.1	7.1	10.7	11.4
Other job losers	33.9	32.3	33.9	32.4	35.0	33.2	39.3	39.7
Job leavers	15.0	15.8	16.6	17.1	10.2	11.8	13.0	13.2
Reentrants	27.5	28.2	26.5	27.6	30.3	29.2	20.6	22.1
New entrants	13.2	12.8	11.7	10.7	16.5	18.7	16.4	13.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.6	2.3	2.3	2.1	5.5	4.6	4.0	4.0
Job leavers .....	.9	.8	.8	.8	1.3	1.3	1.0	1.0
Reentrants	1.6	1.5	1.3	1.3	3.9	3.3	1.6	1.7
New entrants .....	.8	.7	.6	.5	2.1	2.1	1.3	1.1

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	III 1987	III 1988	Total		Employed		Unemployed			
			III 1987	III 1988	III 1987	III 1988	Number		Percent of labor force	
							III 1987	III 1988	III 1987	III 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,847	7,897	7,243	7,284	6,911	7,039	331	245	4.6	3.4
30 to 44 years	6,183	5,867	5,901	5,605	5,620	5,405	281	200	4.8	3.6
35 to 34 years	895	658	845	617	774	584	71	33	8.4	5.4
35 to 39 years	2,552	2,106	2,432	2,002	2,314	1,929	119	73	4.9	3.7
40 to 44 years	2,736	3,103	2,623	2,986	2,532	2,893	91	93	3.5	3.1
45 years and over	1,663	2,030	1,342	1,680	1,292	1,634	50	45	3.8	2.7
NONVETERANS										
Total, 30 to 44 years	19,587	20,541	18,589	19,509	17,810	18,776	779	734	4.2	3.8
30 to 34 years	8,905	9,163	8,519	8,754	8,138	8,392	382	362	4.5	4.1
35 to 39 years	6,262	6,875	5,941	6,533	5,710	6,307	231	226	3.9	3.5
40 to 44 years	4,420	4,503	4,129	4,223	3,962	4,077	167	146	4.0	3.4

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

A-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 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL, 30 to 44 years												
Civilian noninstitutional population	5,501	5,219	581	570	293	261	16,833	17,611	1,980	2,080	1,741	1,877
Civilian labor force	5,275	5,013	529	520	274	253	16,089	16,876	1,792	1,860	1,624	1,771
Employed	5,059	4,848	471	490	258	244	15,505	16,319	1,636	1,711	1,518	1,668
Unemployed	216	165	58	30	16	9	584	557	156	149	106	103
Unemployment rate	4.1	3.3	11.0	5.8	6.0	3.5	3.6	3.3	8.7	8.0	6.5	5.8
30 to 34 years												
Civilian noninstitutional population	761	566	108	83	65	42	7,678	7,896	914	951	750	806
Civilian labor force	719	534	101	74	60	42	7,395	7,601	844	862	706	757
Employed	670	506	82	70	53	40	7,106	7,322	763	786	657	709
Unemployed	49	28	19	4	7	2	289	280	81	76	49	48
Unemployment rate	6.8	5.3	19.0	5.8	11.5	(¹)	3.9	3.7	9.6	8.8	6.9	6.4
35 to 39 years												
Civilian noninstitutional population	2,257	1,839	257	225	127	98	5,357	5,891	625	681	540	619
Civilian labor force	2,165	1,762	233	203	119	95	5,115	5,649	567	612	507	587
Employed	2,076	1,703	207	192	111	90	4,950	5,481	521	562	477	558
Unemployed	89	60	26	12	8	5	165	168	46	50	30	29
Unemployment rate	4.1	3.4	11.1	5.8	6.9	5.5	3.2	3.0	8.1	8.2	5.9	5.0
40 to 44 years												
Civilian noninstitutional population	2,483	2,814	215	262	101	120	3,797	3,823	441	448	451	451
Civilian labor force	2,391	2,717	195	242	96	116	3,579	3,626	382	385	412	426
Employed	2,314	2,640	182	229	94	114	3,449	3,516	353	362	385	401
Unemployed	77	77	13	14	1	2	129	110	29	23	27	25
Unemployment rate	3.2	2.8	6.6	5.7	1.3	1.7	3.6	3.0	7.6	5.9	6.6	5.8

¹ Data not shown where base is less than 60,000.
NOTE: Male Vietnam-era veterans are those who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who never served in the Armed Forces; published data are limited to those 30 to 44 years of age, the group that most closely corresponds to

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Type of family, race, and Hispanic origin	III 1987					III 1988				
	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	64,057	5,380	27.5	72.5	63.7	64,586	5,050	28.0	72.0	63.1
With children under 18 years of age	31,690	3,286	29.3	70.7	61.9	31,567	3,010	30.8	69.2	60.7
Married-couple families	50,691	3,698	17.7	82.3	73.7	51,051	3,379	17.6	82.4	73.4
With children under 18 years of age	24,286	2,285	16.3	83.7	75.2	24,058	2,027	16.2	83.8	74.9
Families maintained by women	10,637	1,366	51.4	48.6	38.9	10,661	1,349	52.2	47.8	38.8
With children under 18 years of age	6,373	879	60.3	39.7	29.9	6,383	842	62.4	37.6	29.8
Families maintained by men	2,729	316	38.8	61.2	53.0	2,875	322	36.6	63.4	56.5
With children under 18 years of age	1,031	123	49.6	50.4	43.1	1,127	141	51.8	48.2	41.1
White										
Total families	55,171	4,005	23.7	76.3	67.1	55,571	3,790	24.7	75.3	66.4
With children under 18 years of age	26,491	2,388	24.2	75.8	66.3	26,440	2,234	26.1	73.9	65.3
Married-couple families	45,753	3,063	17.4	82.6	73.5	46,066	2,813	17.7	82.3	73.3
With children under 18 years of age	21,529	1,866	16.4	83.6	74.7	21,363	1,683	16.2	83.8	75.0
Families maintained by women	7,313	727	45.9	54.1	43.5	7,267	743	49.4	50.6	41.6
With children under 18 years of age	4,169	440	52.5	47.5	35.2	4,212	452	58.8	41.2	33.2
Families maintained by men	2,105	216	38.0	62.0	55.6	2,239	234	31.8	68.2	61.8
With children under 18 years of age	793	83	50.0	50.0	43.9	864	99	45.5	54.5	46.5
Black										
Total families	7,119	1,181	40.7	59.3	51.6	7,174	1,109	39.8	60.2	51.3
With children under 18 years of age	4,176	776	45.1	54.9	48.1	4,062	686	46.9	53.1	45.0
Married-couple families	3,553	504	18.8	81.2	74.2	3,547	452	16.8	83.2	73.7
With children under 18 years of age	1,935	330	14.6	85.4	78.7	1,845	272	15.4	84.6	74.3
Families maintained by women	3,056	592	59.5	40.5	32.4	3,115	581	55.4	44.6	35.8
With children under 18 years of age	2,046	413	69.4	30.6	23.8	2,003	377	66.6	33.4	26.0
Families maintained by men	509	86	40.7	59.3	48.8	512	76	56.6	43.4	36.8
With children under 18 years of age	195	33	(¹)	(¹)	(¹)	214	37	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,420	544	27.2	72.8	61.9	4,574	531	27.0	73.0	63.4
With children under 18 years of age	2,857	363	29.8	70.2	57.6	2,942	362	28.2	71.8	63.0
Married-couple families	3,118	386	21.8	78.2	67.4	3,226	379	22.7	77.3	67.0
With children under 18 years of age	2,053	269	22.3	77.7	65.4	2,107	281	21.0	79.0	68.7
Families maintained by women	1,012	122	43.1	56.9	44.7	1,044	110	45.5	54.5	45.5
With children under 18 years of age	695	77	50.0	50.0	34.6	719	66	56.7	43.3	38.8
Families maintained by men	290	36	(¹)	(¹)	(¹)	304	41	(¹)	(¹)	(¹)
With children under 18 years of age	109	16	(¹)	(¹)	(¹)	116	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 1987			III 1988				
	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	5,890	29.6	70.4	61.6	5,465	29.8	70.2	61.2
Husbands	1,283	35.6	64.4	50.1	1,082	37.3	62.7	46.0
With children under 18 years of age	825	38.2	61.8	47.6	681	40.3	59.7	43.7
Wives	1,204	14.2	85.8	79.4	1,150	14.4	85.6	79.7
With children under 18 years of age	800	12.6	87.4	80.5	713	12.4	87.6	81.6
Relatives in married-couple families	1,553	12.1	87.9	82.6	1,396	11.8	88.2	81.0
Women who maintain families	619	80.9	19.1	11.8	548	85.3	14.7	8.5
With children under 18 years of age	531	87.4	12.6	7.2	480	90.0	10.0	5.0
Relatives in families maintained by women	899	32.1	67.9	56.5	945	31.1	68.9	57.5
Men who maintain families	124	66.9	33.1	22.5	128	67.3	32.7	24.1
With children under 18 years of age	64	85.9	14.1	7.2	76	84.3	15.7	8.5
Relatives in families maintained by men	208	27.0	73.0	66.2	218	22.8	77.2	71.8
White								
Total unemployed in families ¹	4,294	26.0	74.0	64.8	4,010	26.9	73.1	64.2
Husbands	1,077	35.8	64.2	48.5	907	38.7	61.3	46.7
With children under 18 years of age	683	39.2	60.8	45.0	563	41.7	58.3	42.4
Wives	1,005	13.3	86.7	80.4	961	13.8	86.2	80.4
With children under 18 years of age	656	11.6	88.4	81.8	578	11.5	88.5	82.9
Relatives in married-couple families	1,201	11.0	89.0	83.2	1,100	10.7	89.3	82.3
Women who maintain families	303	73.4	26.6	17.8	286	81.1	18.9	11.6
With children under 18 years of age	247	81.8	18.2	11.3	249	87.9	12.1	6.5
Relatives in families maintained by women	479	30.4	69.6	58.6	512	30.9	69.1	58.1
Men who maintain families	83	67.1	32.9	24.5	83	63.1	36.9	26.1
With children under 18 years of age	41	(²)	(²)	(²)	48	(²)	(²)	(²)
Relatives in families maintained by men	146	27.4	72.6	67.9	161	21.1	78.9	74.5
Black								
Total unemployed in families ¹	1,393	41.5	58.5	51.0	1,293	39.1	60.9	51.3
Husbands	162	32.5	67.5	59.3	131	29.6	70.4	54.5
With children under 18 years of age	113	29.5	70.5	63.7	91	33.3	66.7	50.5
Wives	159	20.1	79.9	74.5	149	15.7	84.3	76.6
With children under 18 years of age	116	18.6	81.4	75.4	106	15.1	84.9	75.9
Relatives in married-couple families	294	17.5	82.5	78.6	258	15.7	84.3	75.7
Women who maintain families	299	89.1	10.9	5.8	250	90.1	9.9	5.1
With children under 18 years of age	273	92.5	7.5	3.6	224	92.3	7.7	3.2
Relatives in families maintained by women	392	35.0	65.0	53.0	421	31.2	68.8	56.6
Men who maintain families	31	(²)	(²)	(²)	36	(²)	(²)	(²)
With children under 18 years of age	17	(²)	(²)	(²)	27	(²)	(²)	(²)
Relatives in families maintained by men	55	(²)	(²)	(²)	49	(²)	(²)	(²)
Hispanic origin								
Total unemployed in families ¹	592	28.4	71.6	61.4	598	27.5	72.5	62.9
Husbands	145	44.7	55.3	40.7	143	46.2	53.8	36.5
With children under 18 years of age	115	48.9	51.1	36.2	101	49.0	51.0	31.7
Wives	121	15.6	84.4	77.4	106	21.0	79.0	73.6
With children under 18 years of age	85	14.6	85.4	76.8	80	18.5	81.5	75.0
Relatives in married-couple families	164	10.6	89.4	81.0	173	10.0	90.0	81.9
Women who maintain families	48	(²)	(²)	(²)	39	(²)	(²)	(²)
With children under 18 years of age	42	(²)	(²)	(²)	35	(²)	(²)	(²)
Relatives in families maintained by women	80	31.2	68.8	57.2	94	22.7	77.3	67.1
Men who maintain families	10	(²)	(²)	(²)	18	(²)	(²)	(²)
With children under 18 years of age	8	(²)	(²)	(²)	9	(²)	(²)	(²)
Relatives in families maintained by men	24	(²)	(²)	(²)	25	(²)	(²)	(²)

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 1987				III 1988			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in families ¹	93,054	22.2	77.8	67.2	94,472	21.7	78.3	67.8
Husbands	38,513	29.9	70.1	53.1	38,957	29.2	70.8	53.8
With children under 18 years of age	22,428	31.8	68.2	48.3	22,394	31.4	68.6	48.2
Wives	27,033	8.4	91.6	87.0	27,559	7.8	92.2	87.7
With children under 18 years of age	14,685	4.8	95.2	91.5	14,732	4.1	95.9	92.2
Relatives in married-couple families	13,124	6.8	93.2	89.6	13,373	6.7	93.3	89.7
Women who maintain families	5,966	59.5	40.5	27.8	6,096	60.1	39.9	27.1
With children under 18 years of age	3,886	76.0	24.0	13.0	3,925	77.3	22.7	11.3
Relatives in families maintained by women	4,910	24.5	75.5	65.4	4,794	22.8	77.2	67.7
Men who maintain families	1,952	51.2	48.8	36.8	2,058	51.3	48.7	37.4
With children under 18 years of age	845	79.4	20.6	9.7	920	79.1	20.9	10.8
Relatives in families maintained by men	1,556	15.4	84.6	77.4	1,635	16.4	83.6	77.5
White								
Total employed in families ¹	81,190	21.6	78.4	67.4	82,274	21.1	78.9	68.1
Husbands	34,825	30.3	69.7	52.1	35,193	29.6	70.4	52.8
With children under 18 years of age	20,062	32.4	67.6	46.7	20,043	31.9	68.1	46.7
Wives	24,127	8.1	91.9	87.4	24,539	7.5	92.5	88.1
With children under 18 years of age	12,901	4.2	95.8	92.1	12,929	3.8	96.2	92.7
Relatives in married-couple families	11,632	6.6	93.4	89.9	11,787	6.6	93.4	89.8
Women who maintain families	4,241	57.2	42.8	29.1	4,314	57.3	42.7	29.0
With children under 18 years of age	2,739	75.2	24.8	12.6	2,742	75.8	24.2	11.9
Relatives in families maintained by women	3,614	25.3	74.7	64.4	3,482	23.2	76.8	67.3
Men who maintain families	1,541	50.6	49.4	36.4	1,657	50.1	49.9	37.5
With children under 18 years of age	666	78.3	21.7	9.5	730	77.0	23.0	11.6
Relatives in families maintained by men	1,209	14.1	85.9	78.2	1,303	15.5	84.5	78.5
Black								
Total employed in families ¹	9,078	27.9	72.1	64.0	9,248	27.8	72.2	63.7
Husbands	2,604	24.1	75.9	64.8	2,643	23.6	76.4	65.4
With children under 18 years of age	1,663	23.4	76.6	65.5	1,631	23.0	77.0	65.4
Wives	2,086	12.2	87.8	82.6	2,121	10.7	89.3	83.4
With children under 18 years of age	1,293	9.2	90.8	85.7	1,265	6.0	94.0	88.4
Relatives in married-couple families	1,045	9.6	90.4	86.6	1,102	9.0	91.0	86.5
Women who maintain families	1,571	66.0	34.0	24.5	1,653	68.1	31.9	21.8
With children under 18 years of age	1,062	78.7	21.3	13.4	1,113	80.9	19.1	9.6
Relatives in families maintained by women	1,174	22.6	77.4	68.1	1,169	22.2	77.8	68.3
Men who maintain families	330	56.3	43.7	37.1	313	59.3	40.7	33.7
With children under 18 years of age	151	85.1	14.9	9.0	160	88.8	11.2	5.7
Relatives in families maintained by men	268	22.7	77.3	71.9	245	21.5	78.5	71.8
Hispanic origin								
Total employed in families ¹	6,415	25.6	74.4	65.3	6,818	24.1	75.9	67.3
Husbands	2,500	37.1	62.9	50.3	2,652	35.4	64.6	52.9
With children under 18 years of age	1,804	39.1	60.9	47.2	1,886	38.5	61.5	48.5
Wives	1,556	8.0	92.0	86.3	1,600	7.5	92.5	87.5
With children under 18 years of age	1,051	6.3	93.7	88.0	1,033	5.6	94.4	89.7
Relatives in married-couple families	997	7.0	93.0	86.8	1,138	5.1	94.9	89.7
Women who maintain families	488	64.7	35.3	26.3	526	60.5	39.5	29.6
With children under 18 years of age	330	79.6	20.4	13.6	344	76.0	24.0	13.0
Relatives in families maintained by women	412	22.4	77.6	67.8	413	21.7	78.3	67.4
Men who maintain families	235	41.7	58.3	49.6	240	42.8	57.2	46.7
With children under 18 years of age	88	78.9	21.1	15.8	97	74.5	25.5	17.4
Relatives in families maintained by men	227	5.7	94.3	87.1	249	6.6	93.4	89.5

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		Median weekly earnings	
	III 1987	III 1988	III 1987	III 1988
TOTAL				
Total families with earners ¹	43,008	43,242	\$578	\$601
Married-couple families	34,077	34,143	644	674
One earner	12,720	12,463	403	420
Husband	9,665	9,619	470	487
Wife	2,217	2,006	246	240
Other family member	837	838	216	236
Two or more earners	21,358	21,680	790	826
Husband and wife	18,428	18,934	800	840
Husband and other family member(s)	2,239	2,116	771	807
Wife and other family member(s)	572	491	580	530
Other family members only	119	139	550	498
Families maintained by women	6,987	6,998	316	343
One earner	4,626	4,716	250	266
Householder	3,518	3,693	260	278
Other family member	1,108	1,023	212	221
Two or more earners	2,361	2,282	527	553
Families maintained by men	1,943	2,101	495	499
One earner	1,090	1,191	367	374
Two or more earners	853	910	691	714
White				
Total families with earners ¹	36,674	36,896	598	620
Married-couple families	30,336	30,365	653	683
One earner	11,421	11,206	412	431
Husband	8,777	8,725	478	494
Wife	1,909	1,737	243	241
Two or more earners	18,915	19,160	796	837
Husband and wife	16,383	16,728	804	851
Families maintained by women	4,892	4,882	326	360
Families maintained by men	1,446	1,649	508	500
Black				
Total families with earners ¹	5,083	5,142	409	445
Married-couple families	2,738	2,799	540	577
One earner	933	882	295	297
Husband	607	581	333	378
Wife	248	211	249	220
Two or more earners	1,805	1,918	702	700
Husband and wife	1,522	1,662	744	711
Families maintained by women	1,925	1,970	293	303
Families maintained by men	421	372	385	452
Hispanic origin				
Total families with earners ¹	3,228	3,305	417	489
Married-couple families	2,422	2,444	468	518
One earner	1,041	1,001	285	303
Husband	835	821	303	327
Wife	148	103	235	257
Two or more earners	1,382	1,444	616	682
Husband and wife	1,096	1,109	625	694
Families maintained by women	573	614	275	295
Families maintained by men	232	247	443	522

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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	III 1987	III 1988	III 1987	III 1988
Married-couple families ¹	2,760	2,450	\$407	\$465
Husband unemployed	874	655	264	292
Wife only earner	684	502	247	269
Wife and other earner(s)	107	111	550	482
Other earner(s) only	83	42	(²)	(²)
Wife unemployed	941	916	434	453
Husband only earner	766	791	398	426
Husband and other earner(s)	158	106	679	672
Other earner(s) only	17	19	(²)	(²)
Other member(s) unemployed	945	879	627	661
Husband or wife earner	409	330	469	492
Both husband and wife earners	471	505	797	872
Other combinations of earners	65	44	(²)	(²)
Families maintained by women ¹	595	608	265	292
Householder unemployed	112	61	206	(²)
Other member(s) unemployed	482	547	279	305
Families maintained by men ¹	180	202	388	368

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		Median weekly earnings	
	III 1987	III 1988	III 1987	III 1988
SEX AND AGE				
Total, 16 years and over	82,909	84,894	\$371	\$381
Men, 16 years and over	48,541	49,492	428	443
16 to 24 years	7,706	7,667	251	253
25 years and over	40,835	41,825	477	487
Women, 16 years and over	34,368	35,402	301	313
16 to 24 years	6,080	6,148	220	229
25 years and over	28,288	29,253	321	335
FAMILY RELATIONSHIP				
Husbands	31,154	31,031	486	500
Wives	17,652	18,032	317	328
Women who maintain families	4,757	4,842	294	317
Men who maintain families	1,529	1,685	406	421
Other person in families:				
Men	7,493	7,622	259	261
Women	4,991	5,106	223	237
All other men ¹	8,360	9,153	401	412
All other women ¹	6,973	7,423	322	339
RACE, HISPANIC ORIGIN, AND SEX				
White	71,033	72,773	381	390
Men	42,274	43,024	443	458
Women	28,759	29,750	305	315
Black	9,386	9,595	300	315
Men	4,884	5,017	328	343
Women	4,501	4,578	274	295
Hispanic origin	6,236	6,742	273	290
Men	3,945	4,219	299	307
Women	2,291	2,523	235	261

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 DATA**

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 1987	III 1988	III 1987	III 1988
SEX AND AGE				
Total, 16 years and over	17,731	17,702	\$105	\$110
Men, 16 years and over	5,504	5,519	100	106
16 to 24 years	3,109	3,151	88	93
25 years and over	2,395	2,369	122	136
Women, 16 years and over	12,227	12,182	108	112
16 to 24 years	3,951	3,831	87	91
25 years and over	8,276	8,351	123	127
FAMILY RELATIONSHIP				
Husbands	1,460	1,447	130	140
Wives	6,444	6,330	126	134
Women who maintain families	867	878	116	110
Men who maintain families	150	122	119	142
Other person in families:				
Men	3,109	3,054	87	92
Women	3,370	3,313	81	88
All other men ¹	782	897	114	124
All other women ¹	1,548	1,661	109	112
RACE, HISPANIC ORIGIN, AND SEX				
White	15,541	15,396	107	111
Men	4,697	4,669	100	106
Women	10,844	10,727	110	114
Black	1,723	1,815	94	99
Men	641	641	96	99
Women	1,082	1,174	93	98
Hispanic origin	1,136	1,078	109	114
Men	475	461	109	121
Women	661	617	108	108

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-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 1987	III 1988	III 1987	III 1988
TOTAL				
Managerial and professional specialty	20,901	22,028	\$519	\$557
Executive, administrative, and managerial	10,359	11,149	526	551
Professional specialty	10,542	10,879	515	561
Technical, sales, and administrative support	25,259	25,625	331	342
Technicians and related support	2,919	3,168	422	440
Sales occupations	7,968	7,995	372	366
Administrative support, including clerical	14,372	14,462	308	316
Service occupations	8,686	8,731	232	240
Private household	303	389	131	130
Protective service	1,760	1,737	425	415
Service, except private household and protective	6,623	6,605	215	222
Precision production, craft, and repair	11,369	11,394	415	427
Mechanics and repairers	3,871	3,809	419	431
Construction trades	3,800	3,826	416	421
Other precision production, craft, and repair	3,699	3,759	411	430
Operators, fabricators, and laborers	15,183	15,510	308	311
Machine operators, assemblers, and inspectors	7,690	7,638	292	302
Transportation and material moving occupations	3,869	3,975	392	388
Handlers, equipment cleaners, helpers, and laborers	3,625	3,897	274	270
Farming, forestry, and fishing	1,510	1,607	217	226
Men				
Managerial and professional specialty	11,503	12,187	634	669
Executive, administrative, and managerial	6,185	6,403	648	687
Professional specialty	5,319	5,784	621	650
Technical, sales, and administrative support	9,542	9,409	451	463
Technicians and related support	1,617	1,795	495	517
Sales occupations	4,735	4,507	477	474
Administrative support, including clerical	3,190	3,107	408	415
Service occupations	4,307	4,326	294	294
Private household	17	12	(¹)	(¹)
Protective service	1,553	1,479	445	424
Service, except private household and protective	2,737	2,836	248	249
Precision production, craft, and repair	10,503	10,375	423	444
Mechanics and repairers	3,732	3,690	418	434
Construction trades	3,756	3,752	417	423
Other precision production, craft, and repair	3,015	2,933	442	480
Operators, fabricators, and laborers	11,333	11,760	348	346
Machine operators, assemblers, and inspectors	4,567	4,619	353	363
Transportation and material moving occupations	3,718	3,803	395	392
Handlers, equipment cleaners, helpers, and laborers	3,048	3,338	288	277
Farming, forestry, and fishing	1,352	1,436	222	228
Women				
Managerial and professional specialty	9,397	9,841	446	466
Executive, administrative, and managerial	4,174	4,746	417	432
Professional specialty	5,223	5,095	466	490
Technical, sales, and administrative support	15,717	16,216	291	303
Technicians and related support	1,302	1,374	367	375
Sales occupations	3,233	3,488	237	264
Administrative support, including clerical	11,182	11,354	294	303
Service occupations	4,379	4,405	199	206
Private household	286	377	131	127
Protective service	207	258	323	316
Service, except private household and protective	3,886	3,770	201	208

See footnotes at end of table.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY DATA**

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

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	III 1987	III 1988	III 1987	III 1988
Women				
Precision production, craft, and repair	867	1,019	\$303	\$312
Mechanics and repairers	139	119	441	385
Construction trades	44	74	(¹)	(¹)
Other precision production, craft, and repair	684	826	284	298
Operators, fabricators, and laborers	3,850	3,750	227	243
Machine operators, assemblers, and inspectors	3,123	3,019	226	241
Transportation and material moving occupations	151	172	324	283
Handlers, equipment cleaners, helpers, and laborers	577	559	220	246
Farming, forestry, and fishing	158	171	187	219

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	Total United States		Metropolitan areas					
	III 1987	III 1988	Total		Central cities		Suburbs	
			III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL								
Civilian noninstitutional population	183,016	184,840	142,801	144,028	57,202	57,034	85,599	86,994
Civilian labor force	121,201	123,042	95,924	97,249	37,146	37,296	58,778	59,954
Percent of population	66.2	66.6	67.2	67.5	64.9	65.4	68.7	68.9
Employed	114,089	116,426	90,434	92,132	34,463	34,794	55,971	57,338
Unemployed	7,133	6,617	5,490	5,117	2,683	2,502	2,806	2,616
Unemployment rate	5.9	5.4	5.7	5.3	7.2	6.7	4.8	4.4
Not in labor force	61,815	61,798	46,878	46,779	20,056	19,739	26,821	27,040
Men, 20 years and over								
Civilian noninstitutional population	79,678	80,676	62,095	62,900	24,353	24,448	37,743	38,452
Civilian labor force	62,439	63,219	49,292	49,952	18,728	18,813	30,564	31,139
Percent of population	78.4	78.4	79.4	79.4	76.9	77.0	81.0	81.0
Employed	59,459	60,539	46,963	47,869	17,565	17,767	29,399	30,102
Unemployed	2,980	2,680	2,329	2,083	1,164	1,046	1,165	1,036
Unemployment rate	4.8	4.2	4.7	4.2	6.2	5.6	3.8	3.3
Not in labor force	17,238	17,457	12,803	12,949	5,624	5,635	7,179	7,314
Women, 20 years and over								
Civilian noninstitutional population	88,701	89,664	69,333	69,994	28,477	28,305	40,856	41,689
Civilian labor force	49,810	50,745	39,646	40,317	15,933	15,995	23,714	24,322
Percent of population	56.2	56.6	57.2	57.6	55.9	56.5	58.0	58.3
Employed	47,000	48,114	37,484	38,274	14,878	14,992	22,605	23,282
Unemployed	2,810	2,631	2,163	2,043	1,054	1,004	1,109	1,039
Unemployment rate	5.6	5.2	5.5	5.1	6.6	6.3	4.7	4.3
Not in labor force	38,891	38,919	29,686	29,677	12,544	12,310	17,142	17,367
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,638	14,500	11,373	11,134	4,373	4,281	7,000	6,853
Civilian labor force	8,952	9,078	6,985	6,980	2,485	2,487	4,500	4,494
Percent of population	61.2	62.6	61.4	62.7	56.8	58.1	64.3	65.8
Employed	7,610	7,772	5,987	5,988	2,020	2,035	3,967	3,953
Unemployed	1,342	1,306	998	992	465	452	533	540
Unemployment rate	15.0	14.4	14.3	14.2	16.7	18.2	11.8	12.0
Not in labor force	5,686	5,423	4,388	4,154	1,888	1,794	2,500	2,360
White								
Civilian noninstitutional population	157,145	158,347	121,079	121,759	42,874	42,543	78,206	79,217
Civilian labor force	104,304	105,829	81,532	82,555	28,070	28,070	53,462	54,484
Percent of population	66.4	66.8	67.3	67.8	65.5	66.0	68.4	68.8
Employed	99,118	100,941	77,657	78,876	26,543	26,599	51,113	52,277
Unemployed	5,187	4,888	3,876	3,679	1,527	1,471	2,348	2,208
Unemployment rate	5.0	4.8	4.8	4.5	5.4	5.2	4.4	4.1
Not in labor force	52,841	52,518	39,547	39,205	14,803	14,472	24,744	24,733
Black								
Civilian noninstitutional population	20,398	20,737	18,962	17,210	11,936	11,882	5,045	5,328
Civilian labor force	13,293	13,453	11,216	11,341	7,543	7,511	3,673	3,630
Percent of population	65.2	64.9	66.0	65.9	63.2	63.2	72.8	71.9
Employed	11,588	11,919	9,791	10,051	6,487	6,554	3,304	3,497
Unemployed	1,704	1,534	1,425	1,290	1,056	957	369	334
Unemployment rate	12.8	11.4	12.7	11.4	14.0	12.7	10.0	8.7
Not in labor force	7,105	7,284	5,766	5,869	4,393	4,371	1,372	1,498
Hispanic origin								
Civilian noninstitutional population	12,926	13,382	11,950	12,353	6,944	7,131	5,006	5,222
Civilian labor force	8,622	9,103	7,980	8,398	4,487	4,878	3,493	3,718
Percent of population	66.7	68.0	68.8	68.0	64.6	65.6	69.8	71.2
Employed	7,940	8,399	7,373	7,781	4,097	4,287	3,276	3,495
Unemployed	883	704	608	615	390	392	217	223
Unemployment rate	7.9	7.7	7.6	7.3	8.7	8.4	8.2	6.0
Not in labor force	4,303	4,278	3,969	3,957	2,457	2,452	1,512	1,504

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		1987	1988	1987	1988
	1987	1988	1987	1988	1987	1988				
TOTAL										
Civilian noninstitutional population	40,214	40,812	2,803	2,873	37,411	37,940	134,749	135,695	48,267	49,145
Civilian labor force	25,277	25,793	2,002	2,054	23,276	23,739	89,646	90,875	31,556	32,168
Percent of population	62.9	63.2	71.4	71.5	62.2	62.6	66.5	67.0	65.4	65.5
Employed	23,634	24,294	1,956	2,018	21,678	22,276	84,253	85,909	29,816	30,517
Unemployed	1,643	1,499	46	36	1,597	1,463	5,393	4,966	1,740	1,651
Unemployment rate	6.5	5.8	2.3	1.8	6.9	6.2	6.0	5.5	5.5	5.1
Not in labor force	14,937	15,019	802	818	14,135	14,201	45,103	44,821	16,712	16,977
Men, 20 years and over										
Civilian noninstitutional population	17,571	17,774	1,325	1,370	16,246	16,403	57,997	58,678	21,669	21,996
Civilian labor force	13,139	13,265	1,128	1,151	12,010	12,114	45,611	46,211	16,819	17,006
Percent of population	74.8	74.6	85.1	84.0	73.9	73.8	78.6	78.8	77.6	77.3
Employed	12,486	12,670	1,112	1,138	11,373	11,532	43,339	44,186	16,110	16,353
Unemployed	853	595	16	13	637	582	2,273	2,025	709	653
Unemployment rate	5.0	4.5	1.4	1.1	5.3	4.8	5.0	4.4	4.2	3.8
Not in labor force	4,432	4,508	197	219	4,235	4,290	12,385	12,467	4,850	4,990
Women, 20 years and over										
Civilian noninstitutional population	19,379	19,672	1,245	1,256	18,134	18,416	66,250	66,702	22,462	22,964
Civilian labor force	10,172	10,430	714	728	9,458	9,702	37,618	38,244	12,201	12,503
Percent of population	52.5	53.0	57.3	58.0	52.2	52.7	56.8	57.3	54.3	54.4
Employed	9,526	9,840	696	713	8,831	9,127	35,481	36,269	11,529	11,845
Unemployed	646	590	18	16	627	575	2,137	1,975	672	658
Unemployment rate	6.3	5.7	2.6	2.2	6.6	5.9	5.7	5.2	5.5	5.3
Not in labor force	9,207	9,242	531	528	8,676	8,714	28,632	28,458	10,262	10,461
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,264	3,366	233	246	3,032	3,120	10,502	10,316	4,136	4,185
Civilian labor force	1,967	2,097	159	174	1,807	1,923	6,416	6,420	2,536	2,658
Percent of population	60.2	62.3	68.5	70.9	59.6	61.6	61.1	62.2	61.3	63.5
Employed	1,622	1,784	148	167	1,474	1,617	5,434	5,454	2,176	2,318
Unemployed	345	314	11	7	333	306	963	966	360	340
Unemployment rate	17.5	14.9	7.1	4.1	18.4	15.9	15.3	15.0	14.2	12.8
Not in labor force	1,298	1,269	73	72	1,224	1,197	4,086	3,896	1,600	1,526
White										
Civilian noninstitutional population	36,065	36,587	2,717	2,803	33,348	33,784	112,429	112,779	44,716	45,568
Civilian labor force	22,772	23,274	1,940	2,016	20,832	21,258	74,986	75,849	29,318	29,980
Percent of population	63.1	63.6	71.4	71.9	62.5	62.9	66.7	67.3	65.6	65.8
Employed	21,461	22,065	1,898	1,982	19,563	20,083	71,284	72,387	27,833	28,554
Unemployed	1,311	1,209	41	34	1,270	1,175	3,702	3,462	1,484	1,426
Unemployment rate	5.8	5.2	2.1	1.7	6.1	5.5	4.9	4.6	5.1	4.8
Not in labor force	13,294	13,313	778	787	12,516	12,527	37,442	36,930	15,398	15,588
Black										
Civilian noninstitutional population	3,416	3,528	73	51	3,344	3,477	17,578	17,861	2,820	2,876
Civilian labor force	2,077	2,112	53	28	2,024	2,084	11,513	11,688	1,780	1,765
Percent of population	60.8	59.9	72.5	(¹)	60.5	59.9	65.5	65.4	63.1	61.4
Employed	1,797	1,868	49	26	1,749	1,842	10,013	10,339	1,575	1,580
Unemployed	279	244	4	2	275	242	1,499	1,350	205	184
Unemployment rate	13.5	11.5	(¹)	(¹)	13.6	11.6	13.0	11.5	11.5	10.4
Not in labor force	1,340	1,415	20	23	1,320	1,393	6,066	6,173	1,040	1,111
Hispanic origin										
Civilian noninstitutional population	976	1,029	51	53	925	976	11,921	12,299	1,004	1,082
Civilian labor force	642	707	33	37	609	670	7,935	8,361	687	743
Percent of population	65.8	68.7	(¹)	(¹)	65.9	68.7	66.6	68.0	68.4	68.6
Employed	567	618	31	29	536	588	7,310	7,727	630	673
Unemployed	75	89	2	7	73	82	625	634	58	70
Unemployment rate	11.7	12.6	(¹)	(¹)	12.0	12.2	7.9	7.6	8.4	9.4
Not in labor force	334	321	18	16	316	305	3,987	3,938	317	340

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, and Hispanic origin	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988	III 1987	III 1988
TOTAL												
Civilian noninstitutional population	27,321	27,431	155,695	157,409	18,274	18,133	124,528	125,895	9,047	9,298	31,167	31,514
Civilian labor force	15,689	15,975	105,512	107,067	10,373	10,480	85,551	86,769	5,316	5,495	19,961	20,298
Percent of population	57.4	58.2	67.8	68.0	56.8	57.8	68.7	68.9	58.8	59.1	64.0	64.4
Employed	13,937	14,348	100,131	102,078	9,119	9,309	81,316	82,823	4,819	5,039	18,816	19,255
Unemployed	1,752	1,627	5,381	4,990	1,254	1,171	4,235	3,946	498	456	1,145	1,043
Unemployment rate	11.2	10.2	5.1	4.7	12.1	11.2	5.0	4.5	9.4	8.3	5.7	5.1
Men, 20 years and over	9.3	8.3	4.1	3.6	10.5	9.5	4.0	3.5	7.0	6.0	4.4	4.1
Women, 20 years and over	10.6	9.5	4.9	4.5	11.5	10.3	4.7	4.4	8.7	8.0	5.7	5.0
Both sexes, 16 to 19 years	26.4	26.3	13.2	12.5	25.5	27.8	12.8	12.5	28.1	23.7	14.7	12.5
Men	27.8	26.7	13.5	12.8	27.4	29.9	13.3	13.2	28.5	21.4	14.0	11.4
Women	24.8	25.7	12.9	12.2	23.6	25.0	12.2	11.8	27.5	26.9	15.4	13.7
Not in labor force	11,632	11,456	50,183	50,342	7,901	7,653	38,977	39,126	3,731	3,804	11,206	11,216
White												
Civilian noninstitutional population	16,379	16,447	140,766	141,900	9,761	9,628	111,318	112,132	6,618	6,819	29,448	29,768
Civilian labor force	9,549	9,804	94,755	96,025	5,630	5,710	75,903	76,845	3,919	4,094	18,853	19,180
Percent of population	58.3	59.6	67.3	67.7	57.7	59.3	68.2	68.5	59.2	60.0	64.0	64.4
Employed	8,779	9,074	90,339	91,867	5,133	5,247	72,523	73,629	3,646	3,828	17,815	18,237
Unemployed	770	730	4,416	4,158	497	463	3,379	3,216	274	267	1,037	943
Unemployment rate	8.1	7.4	4.7	4.3	8.8	8.1	4.5	4.2	7.0	6.5	5.5	4.9
Men, 20 years and over	6.8	6.1	3.8	3.4	7.4	7.2	3.7	3.3	5.9	4.4	4.3	3.9
Women, 20 years and over	7.5	7.1	4.4	4.2	8.3	7.4	4.2	4.0	6.4	6.6	5.4	4.8
Both sexes, 16 to 19 years	20.2	19.0	11.8	11.5	21.3	18.6	11.2	11.3	18.4	19.5	14.2	12.1
Men	21.8	20.7	11.9	11.7	23.3	22.8	11.5	11.9	19.6	18.0	13.4	11.3
Women	18.1	16.7	11.8	11.2	18.9	12.8	10.9	10.8	16.9	21.9	15.0	12.8
Not in labor force	6,830	6,643	46,011	45,875	4,131	3,918	35,416	35,287	2,698	2,725	10,595	10,588
Black												
Civilian noninstitutional population	9,844	9,751	10,554	10,986	7,726	7,579	9,255	9,631	2,117	2,172	1,299	1,356
Civilian labor force	5,546	5,517	7,747	7,936	4,329	4,281	6,887	7,060	1,217	1,236	860	876
Percent of population	56.3	56.6	73.4	72.2	56.0	56.5	74.4	73.3	57.5	56.9	66.2	64.6
Employed	4,631	4,683	6,957	7,236	3,607	3,612	6,184	6,439	1,025	1,071	773	797
Unemployed	915	834	790	700	723	669	703	621	192	165	87	79
Unemployment rate	16.5	15.1	10.2	8.8	16.7	15.6	10.2	8.8	15.8	13.4	10.1	9.0
Men, 20 years and over	14.2	12.8	7.8	6.4	15.5	13.6	8.0	6.3	10.0	10.3	5.9	7.0
Women, 20 years and over	15.2	13.2	9.8	8.5	15.4	13.5	9.6	8.5	14.5	11.9	11.8	8.8
Both sexes, 16 to 19 years	35.9	38.6	26.5	24.8	31.4	40.5	27.2	25.3	48.7	33.6	22.1	20.7
Men	38.3	38.2	27.1	24.7	34.0	40.6	27.8	26.5	48.7	31.2	(¹)	(¹)
Women	33.7	39.0	25.8	24.9	29.2	40.3	26.4	24.1	(¹)	35.9	(¹)	(¹)
Not in labor force	4,298	4,234	2,808	3,050	3,397	3,299	2,368	2,570	901	936	439	480
Hispanic origin												
Civilian noninstitutional population	4,452	4,569	8,474	8,813	4,077	4,182	7,873	8,171	375	387	601	642
Civilian labor force	2,597	2,779	6,025	6,324	2,373	2,521	5,607	5,875	224	258	418	449
Percent of population	58.3	60.8	71.1	71.8	58.2	60.3	71.2	71.9	59.7	66.7	69.6	70.0
Employed	2,319	2,508	5,621	5,891	2,123	2,281	5,250	5,500	196	227	371	391
Unemployed	279	271	404	433	251	240	357	375	28	31	47	59
Unemployment rate	10.7	9.7	6.7	6.9	10.6	9.5	6.4	6.4	12.6	11.8	11.2	13.1
Men, 20 years and over	8.1	7.9	5.4	5.7	8.2	8.1	5.0	5.2	6.7	5.9	11.0	12.1
Women, 20 years and over	10.6	9.6	6.4	6.4	10.0	9.0	6.0	5.9	17.9	15.8	11.7	12.9
Both sexes, 16 to 19 years	27.6	21.9	19.1	17.1	27.1	20.7	20.0	17.0	32.3	(¹)	(¹)	(¹)
Men	26.7	26.7	19.8	19.0	26.5	27.2	20.2	19.6	(¹)	(¹)	(¹)	(¹)
Women	28.8	15.4	18.2	14.8	28.1	11.7	19.6	13.6	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,855	1,789	2,449	2,489	1,703	1,661	2,266	2,296	151	129	183	193

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. 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, 1936 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
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	26,608	12,297	854	1,165	10,278	18,306	2,936	1,762	4,664	1,447	3,502	905	(¹)	(¹)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,835	4,914	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	3,460	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	28,595	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	5,669	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	1,168	3,558
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	1,250	3,819
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	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,597	9,648	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,738
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	8,965
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,445
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,753	17,930	6,283	23,053	2,899	3,893	9,901
1987	102,310	85,295	24,784	721	4,998	19,065	77,525	5,385	5,872	18,509	6,549	24,196	2,943	3,963	10,109
Monthly data, seasonally adjusted															
1987:															
September	102,906	85,851	24,902	734	5,012	19,156	78,004	5,427	5,914	18,605	6,588	24,415	2,962	3,973	10,120
October	103,371	86,241	25,025	740	5,060	19,225	78,346	5,448	5,935	18,705	6,604	24,524	2,966	3,985	10,179
November	103,678	86,520	25,123	736	5,090	19,297	78,555	5,466	5,958	18,761	6,608	24,604	2,974	3,988	10,196
December	104,001	86,794	25,201	735	5,118	19,348	78,800	5,481	5,984	18,784	6,619	24,725	2,980	4,001	10,226
1988:															
January	104,262	87,044	25,180	728	5,083	19,369	79,082	5,499	6,010	18,927	6,633	24,795	2,973	4,006	10,239
February	104,729	87,475	25,271	731	5,150	19,390	79,458	5,513	6,035	19,045	6,636	24,975	2,972	4,014	10,268
March	105,020	87,700	25,330	733	5,192	19,405	79,690	5,530	6,061	19,050	6,651	25,078	2,970	4,031	10,319
April	105,281	87,973	25,435	737	5,238	19,460	79,846	5,543	6,089	19,093	6,650	25,163	2,963	4,041	10,304
May	105,489	88,139	25,466	739	5,237	19,490	80,023	5,556	6,115	19,130	6,656	25,216	2,957	4,050	10,343
June	106,057	88,678	25,592	740	5,308	19,544	80,465	5,582	6,148	19,205	6,679	25,472	2,951	4,049	10,379
July	106,271	88,941	25,663	740	5,330	19,593	80,608	5,598	6,174	19,261	6,684	25,561	2,951	4,059	10,320
August ^p	106,440	89,035	25,646	737	5,335	19,574	80,794	5,602	6,193	19,274	6,688	25,632	2,956	4,076	10,373
September ^p	106,695	89,177	25,637	730	5,351	19,556	81,058	5,625	6,218	19,308	6,693	25,696	2,971	4,118	10,429

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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1987) and all seasonally adjusted data (beginning January 1984) 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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Total		102,471	103,288	106,069	106,253	107,097					
Total private		86,478	86,556	89,619	89,903	89,911	70,085	70,135	72,533	72,800	72,765
Mining		734	740	744	744	736	527	534	539	539	532
Metal mining	10	44.1	44.5	50.6	51.5		33.4	34.0	39.0	39.9	
Iron ores	101	6.7	6.6	7.4	7.4		5.2	5.1	6.0	6.0	
Copper ores	102	13.4	14.2	14.2	14.6		10.6	11.3	11.0	11.4	
Coal mining	11,12	163.3	164.1	153.5	152.9		133.5	134.5	125.3	124.8	
Bituminous coal and lignite mining	12	161.3	162.1	151.6	150.9		131.8	132.8	123.7	123.1	
Oil and gas extraction	13	412.4	416.6	423.2	422.5	416.8	271.2	276.2	284.8	284.0	
Crude petroleum, natural gas, and natural gas liquids	131,2	205.1	204.1	201.2	199.9	-	101.5	101.6	101.4	99.9	
Oil and gas field services	138	207.3	212.5	222.0	222.6		169.7	174.6	183.4	184.1	
Nonmetallic minerals, except fuels	14	114.5	115.2	117.0	117.4		88.8	89.3	90.1	90.2	
Crushed and broken stone	142	41.8	41.8	43.2	43.2		33.4	33.4	34.2	34.2	
Sand and gravel	144	36.4	36.5	36.9	37.0		-	-	-	-	
Chemical and fertilizer minerals	147	16.7	17.3	17.2	17.5						
Construction		5,352	5,290	5,639	5,698	5,645	4,233	4,176	4,460	4,512	4,462
General building contractors	15	1,403.2	1,382.8	1,475.4	1,485.2	1,460.6	1,038.7	1,020.9	1,095.8	1,104.9	
Residential building construction	152	738.5	730.7	798.7	801.5	-	532.0	525.2	583.0	586.0	
Operative builders	153	57.5	55.2	55.0	54.4		28.7	27.0	25.9	25.1	
Nonresidential building construction	154	607.2	596.9	621.7	629.3		478.0	468.7	486.9	493.8	
Heavy construction contractors	16	843.2	836.2	844.7	859.6	-	714.8	708.8	715.7	729.6	-
Highway and street construction	161	325.5	319.7	325.7	330.3	-	277.7	272.5	275.2	279.5	
Heavy construction, except highway	162	517.7	516.5	519.0	529.3	-	437.1	436.3	440.5	450.1	
Special trade contractors	17	3,105.9	3,071.2	3,318.7	3,353.2	-	2,479.4	2,446.5	2,648.9	2,677.5	
Plumbing, heating, and air conditioning	171	659.6	653.6	693.1	697.0	-	492.3	486.6	516.9	520.1	
Painting, paper hanging, and decorating	172	189.9	184.4	196.9	198.7	-	162.2	156.0	168.6	169.4	
Electrical work	173	554.2	553.9	594.3	600.9		433.7	433.8	464.9	471.4	
Masonry, stonework, and plastering	174	513.5	513.8	564.1	572.7		442.2	440.9	490.4	497.6	
Carpentering and flooring	175	197.3	191.6	198.7	201.3	-	154.1	149.7	155.6	157.3	
Roofing and sheet metal work	176	226.5	222.6	227.7	233.0		183.9	180.6	182.3	187.8	-
Manufacturing		19,198	19,327	19,504	19,661	19,733	13,098	13,240	13,268	13,421	13,508
Durable goods		11,232	11,335	11,499	11,541	11,619	7,453	7,563	7,636	7,680	7,770
Lumber and wood products	24	763.3	764.3	775.8	778.0	772.1	640.4	640.5	648.5	651.2	643.4
Logging camps and logging contractors	241	91.3	91.5	94.9	95.2	-	76.9	76.8	79.6	79.9	-
Sawmills and planing mills	242	204.0	206.0	204.8	204.9		180.5	182.2	180.4	180.7	
Sawmills and planing mills, general	2421	166.6	168.0	168.1	167.5		147.5	148.6	148.2	147.6	
Hardwood dimension and flooring	2426	33.9	34.5	33.1	33.9		29.8	30.4	29.1	30.0	
Millwork, plywood, and structural members	243	269.0	268.2	272.8	273.6		222.7	221.7	225.2	225.9	
Millwork	2431	105.0	104.2	108.2	107.9	-	85.5	84.4	88.0	87.8	
Wood kitchen cabinets	2434	71.5	72.0	71.5	71.7		57.6	57.9	57.3	57.6	
Hardwood veneer and plywood	2435	24.5	24.5	24.2	24.7		21.4	21.5	21.2	21.6	
Softwood veneer and plywood	2436	38.3	38.3	38.0	38.3	-	34.9	35.0	34.3	34.5	-
Wood containers	244	42.7	42.4	44.5	44.3		36.4	36.0	37.8	37.9	
Wood buildings and mobile homes	245	73.3	73.0	75.4	75.5	-	55.9	55.6	57.6	57.8	
Mobile homes	2451	48.5	48.4	50.4	51.3	-	39.5	39.4	41.1	42.1	
Miscellaneous wood products	249	83.0	83.2	83.4	84.5	-	68.0	68.2	67.9	69.0	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Durable goods—Continued											
Furniture and fixtures	25	521.8	527.5	526.6	534.8	538.6	417.4	422.2	418.4	426.4	431.4
Household furniture	251	306.5	311.2	306.6	313.6	-	258.8	262.7	258.2	264.5	-
Wood household furniture	2511	139.1	140.3	138.2	143.7	-	121.8	122.8	120.1	125.6	-
Upholstered household furniture	2512	99.8	101.3	101.1	102.6	-	83.6	85.0	84.9	86.1	-
Metal household furniture	2514	22.9	23.9	23.8	22.8	-	18.1	19.0	18.8	17.7	-
Mattresses and bedspings	2515	29.0	29.5	30.2	30.7	-	22.1	22.6	23.5	23.9	-
Office furniture	252	68.8	69.0	68.4	68.3	-	52.0	52.2	51.4	51.4	-
Public building and related furniture	253	29.3	29.1	30.6	30.9	-	22.5	22.3	23.8	24.1	-
Partitions and fixtures	254	77.2	77.5	78.1	78.3	-	56.0	56.5	56.4	57.0	-
Miscellaneous furniture and fixtures	259	40.0	40.7	42.9	43.7	-	28.1	28.5	28.6	29.4	-
Stone, clay, and glass products	32	593.1	592.8	598.9	599.6	598.7	460.2	461.1	468.1	469.0	468.0
Flat glass	321	14.7	14.8	15.2	15.0	-	11.4	11.5	11.9	11.7	-
Glass and glassware, pressed or blown	322	87.0	87.5	85.2	86.3	-	74.8	75.3	73.6	74.8	-
Glass containers	3221	45.1	44.9	43.6	43.7	-	40.7	40.5	39.6	39.7	-
Pressed and blown glass, nec	3229	41.9	42.6	41.6	42.6	-	34.1	34.8	34.0	35.1	-
Products of purchased glass	323	51.0	51.0	52.4	52.9	-	36.2	36.5	39.6	40.2	-
Cement, hydraulic	324	21.4	20.9	20.9	20.9	-	16.6	16.2	16.1	16.0	-
Structural clay products	325	38.4	38.7	39.4	39.6	-	30.3	30.6	30.8	30.9	-
Pottery and related products	326	36.7	37.0	38.0	37.7	-	29.4	29.7	30.3	30.1	-
Concrete, gypsum, and plaster products	327	219.7	218.4	219.8	218.9	-	171.1	170.6	170.7	170.1	-
Concrete block and brick	3271	20.7	20.3	21.2	21.0	-	13.8	13.6	13.9	13.7	-
Concrete products, nec	3272	72.3	72.3	73.6	73.9	-	55.5	55.7	56.3	56.8	-
Ready-mixed concrete	3273	107.2	106.3	105.9	105.0	-	86.9	86.3	85.6	84.9	-
Misc. nonmetallic mineral products	329	111.3	111.6	114.7	114.4	-	80.2	80.6	84.6	84.3	-
Abrasive products	3291	21.5	21.5	22.1	22.0	-	14.6	14.6	15.4	15.3	-
Asbestos products	3292	8.7	8.7	8.9	9.0	-	6.7	6.8	6.7	6.8	-
Mineral wool	3296	25.0	25.2	24.5	24.4	-	-	-	-	-	-
Primary metal industries	33	752.8	762.9	778.4	781.9	789.7	568.4	579.0	594.3	598.5	606.1
Blast furnaces and basic steel products	331	273.7	276.3	282.9	280.7	280.1	208.0	210.9	219.8	217.7	216.6
Blast furnaces and steel mills	3312	207.5	209.4	212.7	211.2	-	159.2	161.2	166.7	165.3	-
Steel pipe and tubes	3317	23.8	24.1	25.4	25.4	-	17.4	17.8	19.2	19.3	-
Iron and steel foundries	332	130.0	132.9	138.6	139.6	-	102.2	105.2	110.8	112.1	-
Gray iron foundries	3321	80.7	83.0	83.9	85.3	-	65.3	67.5	68.3	69.8	-
Malleable iron foundries	3322	8.9	9.1	9.0	8.6	-	6.4	6.7	6.8	6.3	-
Steel foundries, nec	3325	26.6	26.8	31.4	31.4	-	19.9	20.2	24.5	24.7	-
Primary nonferrous metals	333	40.0	40.5	42.0	42.3	-	28.6	29.2	30.9	31.3	-
Primary aluminum	3334	21.3	21.7	22.6	22.6	-	15.2	15.7	17.0	17.1	-
Nonferrous rolling and drawing	335	181.6	183.6	182.2	185.4	-	130.1	132.1	129.4	133.1	-
Copper rolling and drawing	3351	23.5	23.8	23.8	24.5	-	18.4	18.7	18.0	18.8	-
Aluminum sheet, plate, and foil	3353	28.2	28.3	27.7	27.8	-	20.5	20.5	19.1	19.0	-
Nonferrous wire drawing and insulating	3357	77.7	78.9	77.9	80.1	-	54.8	56.1	55.4	57.9	-
Nonferrous foundries	336	85.5	87.0	88.4	89.4	-	68.7	70.2	70.7	71.8	-
Aluminum foundries	3361	52.9	53.9	54.7	54.8	-	43.2	44.3	44.7	44.9	-
Fabricated metal products	34	1,403.9	1,422.1	1,447.7	1,455.1	1,468.0	1,041.0	1,059.2	1,076.0	1,083.5	1,097.2
Metal cans and shipping containers	341	56.6	57.4	55.2	55.0	-	48.3	49.1	47.4	47.3	-
Metal cans	3411	45.8	46.3	44.2	44.0	-	39.7	40.1	38.4	38.3	-
Cutlery, hand tools, and hardware	342	131.3	133.5	131.7	132.4	-	96.3	98.6	97.0	97.2	-
Hand and edge tools, and hand saws and blades	3423,5	45.2	46.0	46.0	45.9	-	33.2	33.8	33.0	33.2	-
Hardware, nec	3429	75.1	76.6	74.8	75.7	-	55.8	57.2	56.6	56.7	-
Plumbing and heating, except electric	343	60.9	61.8	63.3	63.7	-	43.4	44.3	45.7	46.2	-
Plumbing fittings and brass goods	3432	24.7	24.8	25.8	25.6	-	18.0	18.1	18.8	18.7	-
Heating equipment, except electric	3433	25.5	25.9	25.4	26.2	-	17.4	17.7	17.6	18.4	-
Fabricated structural metal products	344	431.6	434.7	445.1	445.8	-	309.1	311.8	320.3	320.4	-
Fabricated structural metal	3441	77.6	78.4	79.1	80.2	-	55.5	56.4	57.3	58.1	-
Metal doors, sash, and trim	3442	95.4	95.4	96.6	96.4	-	71.5	71.3	71.3	71.0	-
Fabricated plate work (boiler shops)	3443	85.6	87.0	91.7	90.6	-	55.0	56.7	61.4	59.9	-
Sheet metal work	3444	110.0	111.0	113.7	114.3	-	83.1	83.6	85.4	85.9	-
Architectural metal work	3446	30.6	30.6	31.3	31.2	-	22.3	22.3	23.1	23.0	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	91.5	92.8	96.3	97.2		69.8	71.2	73.7	74.9	
Screw machine products	3451	45.6	46.6	49.8	49.9		37.2	38.2	40.9	41.1	
Bolts, nuts, rivets, and washers	3452	45.9	46.2	46.5	47.3		32.6	33.0	32.8	33.8	
Metal forgings and stampings	346	227.4	234.7	231.4	231.9		179.4	186.8	183.0	183.6	
Iron and steel forgings	3462	28.8	29.6	29.4	29.8		21.9	22.8	22.5	22.9	
Automotive stampings	3465	91.8	96.3	91.6	90.6		77.2	81.7	77.0	76.0	
Metal stampings, nec	3469	95.7	97.7	99.0	100.3		72.4	74.4	75.1	76.4	
Metal services, nec	347	112.5	114.1	116.3	118.0		90.3	91.5	92.7	94.5	
Plating and polishing	3471	73.3	74.1	75.6	76.8		59.2	60.0	60.7	62.0	
Metal coating and allied services	3479	39.2	40.0	40.7	41.2		31.1	31.5	32.0	32.5	
Ordnance and accessories, nec	348	76.5	76.5	78.2	78.1		47.9	48.1	49.4	49.7	
Ammunition, except for small arms, nec	3483	42.0	42.1	42.7	42.8		24.4	24.5	24.2	24.5	
Misc. fabricated metal products	349	215.6	216.6	230.2	233.0		156.5	157.8	166.8	169.7	
Valves and pipe fittings	3494	80.0	80.8	87.8	88.6		53.6	54.4	59.3	59.9	
Misc. fabricated wire products	3496	52.0	51.4	54.5	55.0		39.6	39.4	41.4	42.1	
Machinery, except electrical	35	2,019.7	2,036.6	2,141.9	2,145.8	2,160.6	1,194.3	1,212.8	1,275.2	1,278.5	1,296.2
Engines and turbines	351	86.1	88.2	87.3	88.2	-	54.4	55.9	57.8	58.5	-
Turbines and turbine generator sets	3511	24.2	24.9	22.4	22.6		12.6	12.8	13.0	13.1	
Internal combustion engines, nec	3519	61.9	63.3	64.9	65.6		41.8	43.1	44.8	45.4	
Farm and garden machinery	352	92.6	95.5	102.4	100.3		62.1	65.4	72.1	70.6	
Farm machinery and equipment	3523	69.1	69.9	76.2	76.0		44.7	45.9	52.0	52.4	
Construction and related machinery	353	215.5	217.8	234.4	235.7		128.4	131.0	143.5	144.6	
Construction machinery	3531	79.4	79.8	84.0	84.5		47.6	48.6	52.3	53.0	
Mining machinery	3532	17.2	17.2	18.3	18.4		10.4	10.5	11.3	11.3	
Oil field machinery	3533	37.8	39.3	44.9	45.0		22.4	23.3	27.3	27.7	
Conveyors and conveying equipment	3535	32.8	32.8	34.2	34.7		17.1	17.4	18.3	18.3	
Industrial trucks and tractors	3537	24.6	24.7	26.6	26.7		17.3	17.3	18.3	18.3	
Metalworking machinery	354	285.6	288.4	297.8	299.6		203.9	206.5	212.9	214.7	
Machine tools, metal cutting types	3541	44.6	45.1	46.0	46.2		27.9	28.3	29.0	29.3	
Machine tools, metal forming types	3542	16.4	16.9	17.5	17.5		10.2	10.7	11.2	11.2	
Special dies, tools, jigs, and fixtures	3544	135.5	136.8	140.5	141.4		103.5	104.7	107.6	108.3	
Machine tool accessories	3545	51.8	52.3	55.5	56.2		36.6	37.1	39.4	40.0	
Power driven hand tools	3546	20.2	20.1	20.1	20.5		14.9	14.9	14.5	15.0	
Special industry machinery	355	161.6	163.6	172.8	174.1		96.3	98.2	103.6	104.7	
Food products machinery	3551	38.0	38.3	40.6	40.6		23.0	23.3	24.5	24.4	
Textile machinery	3552	19.9	20.2	20.8	21.1		13.3	13.5	13.8	14.1	
Printing trades machinery	3555	26.6	26.9	28.9	29.1		15.6	16.0	17.5	17.8	
General industrial machinery	356	244.6	247.6	258.4	258.7		156.1	159.3	166.5	166.9	
Pumps and pumping equipment	3561	43.5	44.0	45.8	46.1		24.8	25.5	26.7	26.7	
Ball and roller bearings	3562	40.5	41.3	42.4	41.7		31.3	32.1	32.8	32.1	
Air and gas compressors	3563	20.1	20.0	21.1	21.3		11.6	11.7	12.3	12.5	
Blowers and fans	3564	29.7	29.9	30.4	30.4		19.1	19.3	19.6	19.6	
Speed changers, drives, and gears	3566	19.1	19.3	20.4	20.5		12.9	13.2	14.0	14.2	
Power transmission equipment, nec	3568	16.1	16.7	17.5	17.8		10.6	11.1	11.8	12.1	
Office and computing machines	357	489.6	486.2	516.1	518.6		165.7	164.6	167.1	168.6	
Electronic computing equipment	3573	436.7	432.9	461.6	464.2		140.9	139.1	141.7	143.7	
Refrigeration and service machinery	358	174.8	177.1	182.5	180.4		124.6	127.2	132.1	129.5	
Refrigeration and heating equipment	3585	124.4	126.3	131.0	128.9		90.9	93.1	97.2	94.8	
Misc. machinery, except electrical	359	269.3	272.2	290.2	290.2		202.8	204.7	219.6	220.4	
Carburetors, pistons, rings, and valves	3592	31.0	31.2	31.3	31.3		24.7	24.8	24.8	24.9	
Machinery, except electrical, nec	3599	238.3	241.0	258.9	258.9		178.1	179.9	194.8	195.5	
Electrical and electronic equipment	36	2,080.6	2,091.1	2,111.6	2,129.2	2,130.6	1,219.5	1,231.4	1,236.8	1,254.6	1,263.7
Electric distributing equipment	361	107.5	108.3	109.8	109.9	-	77.5	78.4	78.8	78.5	-
Transformers	3612	48.9	49.3	49.8	49.7		35.6	36.0	36.2	36.0	
Switchgear and switchboard apparatus	3613	58.6	59.0	60.0	60.2		41.9	42.4	42.6	42.5	
Electrical industrial apparatus	362	180.9	181.6	187.3	187.1		124.0	124.8	129.9	130.1	
Motors and generators	3621	85.8	86.8	89.4	88.9		65.6	66.7	70.2	69.5	
Industrial controls	3622	60.2	60.0	62.1	62.3		34.5	34.3	35.8	36.6	
Household appliances	363	135.4	137.5	134.2	137.9		107.5	109.7	107.7	110.9	
Household refrigerators and freezers	3632	29.0	28.6	29.6	29.9		23.5	23.1	24.0	24.2	
Household laundry equipment	3633	22.0	22.8	22.8	22.8		17.3	18.2	18.6	18.6	
Electric housewares and fans	3634	35.3	36.0	34.6	37.4		27.2	27.9	27.4	29.8	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	189.6	192.1	187.4	193.4		137.5	139.8	134.8	140.1	
Electric lamps	3641	25.2	25.3	24.8	25.7		21.5	21.6	21.1	21.8	
Current-carrying wiring devices	3643	74.9	75.6	73.2	75.3		49.8	50.3	47.5	49.2	
Noncurrent-carrying wiring devices	3644	15.2	15.4	14.9	16.0		11.0	11.2	10.8	11.7	
Residential lighting fixtures	3645	26.2	26.9	26.8	28.1		19.8	20.4	20.2	21.5	
Radio and TV receiving equipment	365	84.4	85.3	81.8	84.1		58.0	59.1	56.2	58.3	
Radio and TV receiving sets	3651	63.8	64.2	61.7	63.3		42.8	43.3	40.9	42.0	
Communication equipment	366	606.2	604.9	598.5	597.3		253.2	252.9	249.6	250.9	
Telephone and telegraph apparatus	3661	117.3	116.9	118.8	118.6		66.4	66.2	69.7	70.1	
Radio and TV communication equipment	3662	488.9	488.0	479.7	478.7		186.8	186.7	179.9	180.8	
Electronic components and accessories	367	628.5	631.5	663.1	666.3		358.5	360.9	375.0	377.9	
Electronic tubes	3671-3	38.2	38.1	37.6	38.7		24.3	24.5	24.2	24.8	
Semiconductors and related devices	3674	247.7	248.6	267.5	268.4		96.1	96.9	105.2	106.0	
Electronic components, nec	3679	270.2	271.9	280.3	280.7		183.5	184.6	188.1	188.9	
Misc. electrical equipment and supplies	369	148.1	149.9	149.5	153.2		103.3	105.8	104.8	107.9	
Storage batteries	3691	27.9	28.7	28.2	30.4		21.8	22.6	21.0	23.2	
Engine electrical equipment	3694	65.0	66.0	66.1	66.4		49.0	50.3	50.4	50.5	
Transportation equipment	37	2,026.2	2,061.9	2,025.7	2,008.3	2,050.7	1,260.2	1,299.2	1,251.8	1,236.7	1,278.3
Motor vehicles and equipment	371	844.3	868.1	839.9	827.0	868.1	650.2	675.9	650.4	638.9	677.8
Motor vehicles and car bodies	3711	364.8	379.0	348.7	337.6	-	269.1	285.0	258.6	249.0	-
Truck and bus bodies	3713	43.6	43.8	43.6	43.3		34.3	34.4	34.0	33.7	
Motor vehicle parts and accessories	3714	386.3	395.0	394.3	391.8		307.8	317.0	315.4	312.9	
Truck trailers	3715	31.6	32.1	32.9	33.7		24.9	25.2	26.2	26.9	
Aircraft and parts	372	700.3	706.6	697.9	695.0		344.8	352.6	338.1	334.8	
Aircraft	3721	360.8	362.8	368.6	367.9		159.5	162.0	161.2	159.6	
Aircraft engines and engine parts	3724	154.3	157.3	149.6	147.2		76.2	79.5	73.0	71.0	
Aircraft equipment, nec	3728	185.2	186.5	179.7	179.9		109.1	111.1	103.9	104.2	
Ship and boat building and repairing	373	185.8	189.5	188.7	186.9		138.9	143.6	138.7	138.7	
Ship building and repairing	3731	124.4	127.4	122.0	121.3		89.5	93.4	84.1	84.8	
Boat building and repairing	3732	61.4	62.1	66.7	65.6		49.4	50.2	54.6	53.9	
Railroad equipment	374	27.6	28.1	31.8	32.1		19.1	19.6	23.2	23.5	
Guided missiles, space vehicles, and parts	376	204.8	205.2	205.7	206.1		64.6	63.9	60.4	60.5	
Guided missiles and space vehicles	3761	155.2	155.3	153.8	154.1		48.0	47.8	42.4	42.8	
Miscellaneous transportation equipment	379	51.9	52.8	50.9	50.4		34.6	35.4	33.7	32.9	
Travel trailers and campers	3792	20.5	20.8	20.4	20.5		15.6	16.0	15.9	15.8	
Instruments and related products	38	696.3	696.1	714.6	720.4	720.2	377.2	379.6	393.0	398.4	399.2
Engineering and scientific instruments	381	83.1	82.8	86.7	86.4	-	37.4	37.5	40.2	40.2	-
Measuring and controlling devices	382	237.0	236.9	235.5	237.6		132.0	132.6	133.8	135.8	
Environmental controls	3822	41.7	41.7	41.4	41.5		26.8	27.1	27.4	27.5	
Process control instruments	3823	53.1	52.8	53.5	53.8		27.6	27.4	28.8	28.9	
Instruments to measure electricity	3825	102.0	101.6	100.6	102.0		50.4	50.2	50.6	52.1	
Optical instruments and lenses	383	33.5	33.6	35.0	35.1		16.1	16.3	17.9	18.0	
Medical instruments and supplies	384	187.2	188.9	198.8	202.4		111.7	113.6	119.8	123.0	
Surgical and medical instruments	3841	93.2	93.6	97.9	100.2		53.6	53.8	56.0	58.4	
Surgical appliances and supplies	3842	80.0	81.5	85.9	87.2		50.2	52.0	55.3	56.1	
Ophthalmic goods	385	36.8	37.3	38.2	38.4		25.3	25.6	26.0	26.3	
Photographic equipment and supplies	386	107.3	105.2	109.9	109.9		46.4	45.6	47.5	47.3	
Watches, clocks, and watchcases	387	11.4	11.4	10.5	10.6		8.3	8.4	7.8	7.8	
Miscellaneous manufacturing	39	374.5	379.8	377.5	387.7	389.5	273.9	277.9	273.8	283.2	286.1
Jewelry, silverware, and plated ware	391	53.9	55.2	52.6	56.4	-	37.3	38.4	36.3	39.6	-
Jewelry, precious metal	3911	38.1	39.3	36.7	39.8		26.1	27.2	25.1	27.8	
Musical instruments	393	12.7	13.0	12.1	12.6		10.7	10.9	10.0	10.5	
Toys and sporting goods	394	99.1	100.9	105.6	106.5		74.8	76.4	78.7	79.3	
Dolls, games, toys, and children's vehicles	3942,4	46.5	47.6	47.5	48.5		34.7	35.7	34.2	35.4	
Sporting and athletic goods, nec	3949	52.6	53.3	58.1	58.0		40.1	40.7	44.5	43.9	
Pens, pencils, office, and art supplies	395	32.9	32.9	33.8	33.2		22.8	23.0	24.0	23.5	
Costume jewelry and notions	396	42.7	42.2	36.6	41.3		33.2	32.6	27.8	32.5	
Costume jewelry	3961	22.4	21.9	18.2	21.8		17.4	16.9	13.5	17.0	
Miscellaneous manufactures	399	133.2	135.6	136.8	137.7		95.1	96.6	97.0	97.8	
Signs and advertising displays	3993	58.6	59.0	60.0	60.2		40.6	40.7	41.6	41.8	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Nondurable goods		7,966	7,992	8,005	8,120	8,114	5,645	5,677	5,632	5,741	5,738
Food and kindred products	20	1,712.9	1,708.9	1,669.9	1,721.8	1,712.1	1,231.7	1,229.3	1,187.1	1,236.9	1,229.1
Meat products	201	389.1	392.9	399.6	400.7	-	329.5	332.9	338.4	339.6	-
Meat packing plants	2011	135.8	138.0	142.2	142.9	-	113.8	115.9	118.8	119.6	-
Sausages and other prepared meats	2013	80.3	80.6	80.4	80.7	-	59.0	59.3	59.4	59.6	-
Poultry dressing plants	2016	151.9	153.1	156.3	156.3	-	137.5	138.7	141.7	141.9	-
Dairy products	202	166.3	164.3	168.7	167.9	-	101.8	99.8	102.8	101.6	-
Cheese, natural and processed	2022	42.6	42.3	43.8	44.1	-	32.8	32.5	33.5	33.5	-
Fluid milk	2026	81.5	81.2	81.5	81.4	-	41.0	40.5	40.6	40.5	-
Preserved fruits and vegetables	203	307.4	300.3	259.1	297.9	-	262.7	256.4	214.6	252.2	-
Canned specialties	2032	26.7	27.1	24.3	26.2	-	19.4	19.8	17.1	19.1	-
Canned fruits and vegetables	2033	129.6	121.2	90.7	120.1	-	114.6	106.7	76.7	105.8	-
Frozen fruits and vegetables	2037	54.6	56.2	48.5	55.3	-	49.0	50.6	42.7	49.4	-
Grain mill products	204	127.5	128.8	132.4	133.5	-	87.6	89.4	92.1	93.5	-
Flour and other grain mill products	2041	22.7	23.2	24.2	24.1	-	15.3	15.9	16.8	16.7	-
Prepared feeds, nec	2048	42.4	42.7	44.4	44.0	-	26.6	27.1	28.0	27.9	-
Bakery products	205	210.2	211.0	207.6	208.9	-	128.5	129.2	126.5	128.2	-
Bread, cake, and related products	2051	163.7	163.9	161.7	161.8	-	91.2	91.5	91.1	91.6	-
Cookies and crackers	2052	46.5	47.1	45.9	47.1	-	37.3	37.7	35.4	36.6	-
Sugar and confectionery products	206	92.8	97.3	89.9	97.0	-	72.9	77.0	69.7	76.6	-
Cane and beet sugar	2061-3	19.0	21.9	17.3	18.7	-	14.7	17.3	13.1	14.4	-
Confectionery products	2065	53.5	55.1	52.5	58.2	-	44.3	45.9	43.0	48.5	-
Fats and oils	207	33.9	34.9	34.1	33.9	-	23.9	25.0	25.1	24.8	-
Beverages	208	208.2	206.0	203.0	204.9	-	90.1	88.7	86.2	87.3	-
Malt beverages	2082	40.8	40.7	40.3	40.2	-	25.8	25.7	24.2	24.3	-
Bottled and canned soft drinks	2086	122.2	119.8	121.5	121.0	-	40.4	39.3	41.5	40.8	-
Misc. food and kindred products	209	177.5	173.4	175.5	177.1	-	134.7	130.9	131.7	133.1	-
Tobacco manufactures	21	54.3	57.2	49.0	51.9	54.8	40.9	43.3	35.7	38.4	40.7
Cigarettes	211	40.3	39.4	38.4	38.1	-	30.2	28.9	28.7	28.1	-
Textile mill products	22	731.8	735.5	714.0	722.8	724.2	635.2	639.0	618.9	625.3	628.0
Weaving mills, cotton	221	100.8	102.2	97.4	97.3	-	91.2	92.5	88.0	88.0	-
Weaving mills, synthetics	222	88.4	89.5	91.3	89.2	-	78.6	79.7	80.8	78.3	-
Weaving and finishing mills, wool	223	18.7	18.5	18.8	19.3	-	15.3	15.1	15.2	15.7	-
Narrow fabric mills	224	23.4	23.5	23.6	24.9	-	20.3	20.4	20.0	21.4	-
Knitting mills	225	215.2	214.4	206.2	209.0	-	189.0	188.2	182.1	183.7	-
Women's hosiery, except socks	2251	35.7	35.2	32.6	32.7	-	31.9	31.4	29.9	29.9	-
Hosiery, nec	2252	35.8	35.3	35.0	35.3	-	32.2	31.7	31.6	31.8	-
Knit outerwear mills	2253	72.5	72.7	69.5	70.3	-	64.7	64.8	62.0	62.8	-
Knit underwear mills	2254	25.9	26.0	25.3	25.8	-	21.9	22.0	21.3	21.6	-
Circular knit fabric mills	2257	26.1	26.0	25.3	25.6	-	22.6	22.5	22.0	22.4	-
Textile finishing, except wool	226	60.7	61.2	55.8	58.4	-	50.8	51.6	46.4	48.2	-
Finishing plants, cotton	2261	24.1	24.3	22.5	23.8	-	20.4	20.6	18.5	19.6	-
Finishing plants, synthetics	2262	22.5	22.5	20.3	21.0	-	18.2	18.4	16.5	16.8	-
Floor covering mills	227	58.7	59.3	58.4	59.0	-	47.6	48.0	47.3	47.7	-
Yarn and thread mills	228	112.0	112.3	109.0	111.0	-	100.4	100.9	97.6	99.4	-
Yarn mills, except wool	2281	82.5	83.0	81.2	82.2	-	74.8	75.3	73.5	74.5	-
Throwing and winding mills	2282	15.5	15.3	14.8	15.1	-	13.7	13.5	13.0	13.2	-
Miscellaneous textile goods	229	53.9	54.6	53.5	54.7	-	42.0	42.6	41.5	42.9	-
Apparel and other textile products	23	1,099.4	1,111.8	1,062.0	1,092.1	1,095.3	922.7	934.9	890.2	919.2	921.5
Men's and boys' suits and coats	231	57.3	58.1	56.9	58.7	-	49.2	50.2	49.1	51.1	-
Men's and boys' furnishings	232	308.9	311.3	304.0	310.1	-	266.3	268.6	262.0	267.5	-
Men's and boys' shirts and nightwear	2321	86.5	86.9	82.3	83.4	-	74.2	74.5	70.5	71.4	-
Men's and boys' separate trousers	2327	48.9	49.5	47.8	48.6	-	42.8	43.3	41.7	42.0	-
Men's and boys' work clothing	2328	95.6	96.6	94.1	95.8	-	83.4	84.5	82.3	83.8	-
Women's and misses' outerwear	233	352.6	353.6	326.9	341.1	-	293.7	295.0	270.3	283.8	-
Women's and misses' blouses and waists	2331	46.7	46.9	43.5	44.2	-	38.7	39.1	35.5	36.3	-
Women's and misses' dresses	2335	82.6	83.6	73.4	81.1	-	69.0	70.0	59.8	67.3	-
Women's and misses' suits and coats	2337	43.3	43.5	41.0	42.9	-	36.0	36.2	33.7	35.4	-
Women's and misses' outerwear, nec	2339	180.0	179.6	169.0	172.9	-	150.0	149.7	141.3	144.8	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	72.4	73.2	69.4	70.5	-	59.3	60.1	57.4	58.5	-
Women's and children's underwear	2341	59.4	60.0	57.3	57.7	-	50.4	51.1	49.1	49.5	-
Brassieres and allied garments	2342	13.0	13.2	12.1	12.8	-	8.9	9.0	8.3	9.0	-
Children's outerwear	236	58.6	59.9	55.7	55.8	-	48.9	50.1	46.9	47.2	-
Children's dresses and blouses	2361	24.7	25.0	23.3	23.5	-	21.7	21.9	20.4	20.5	-
Misc. apparel and accessories	238	41.9	42.6	41.1	43.2	-	35.2	35.7	33.9	35.7	-
Misc. fabricated textile products	239	190.0	195.4	190.3	194.8	-	156.1	161.4	156.5	161.2	-
Curtains and draperies	2391	25.6	25.8	24.5	25.0	-	20.8	20.9	20.1	20.7	-
House furnishings, nec	2392	53.0	54.9	53.1	54.8	-	45.1	46.8	44.7	46.7	-
Automotive and apparel trimmings	2396	38.5	40.2	38.2	38.5	-	32.1	33.9	31.4	31.8	-
Paper and allied products	26	682.8	684.6	692.6	694.4	692.4	518.2	521.4	524.3	525.2	524.1
Paper and pulp mills	261,2,6	191.4	190.7	194.9	194.4	-	145.3	145.3	148.9	147.8	-
Paper mills, except building paper	262	168.2	167.7	171.3	171.0	-	127.1	127.2	130.2	129.4	-
Paperboard mills	263	54.0	53.9	54.4	54.2	-	40.7	40.9	41.4	41.3	-
Misc. converted paper products	264	233.9	234.3	236.2	236.7	-	173.5	174.3	173.2	173.9	-
Paper coating and glazing	2641	59.2	58.7	59.6	59.4	-	38.0	37.6	36.4	36.2	-
Envelopes	2642	26.6	27.0	26.8	26.9	-	20.5	21.0	20.5	20.6	-
Bags, except textile bags	2643	52.1	52.9	53.1	53.5	-	41.0	41.9	41.5	42.0	-
Paperboard containers and boxes	265	203.5	205.7	207.1	209.1	-	158.7	160.9	160.8	162.2	-
Folding paperboard boxes	2651	44.7	45.1	45.2	45.7	-	35.2	35.8	35.8	36.1	-
Corrugated and solid fiber boxes	2653	110.1	111.3	112.2	112.7	-	83.9	84.8	84.4	84.8	-
Sanitary food containers	2654	22.9	22.9	24.2	24.1	-	19.8	19.8	20.7	20.5	-
Printing and publishing	27	1,509.7	1,513.1	1,564.1	1,567.1	1,570.4	841.7	845.6	871.6	874.2	874.0
Newspapers	271	470.2	472.5	478.0	476.4	-	170.9	173.4	171.5	170.7	-
Periodicals	272	123.0	122.4	127.9	128.0	-	45.8	45.8	45.5	45.3	-
Books	273	110.6	108.1	113.6	113.4	-	58.8	56.2	60.6	59.8	-
Book publishing	2731	82.4	80.3	84.5	84.5	-	36.8	34.4	37.2	36.5	-
Book printing	2732	28.2	27.8	29.1	28.9	-	22.0	21.8	23.4	23.3	-
Miscellaneous publishing	274	78.2	78.5	82.4	82.5	-	41.5	41.6	41.7	41.6	-
Commercial printing	275	527.5	531.6	551.0	554.0	-	382.1	386.1	400.8	403.9	-
Commercial printing, letterpress	2751	164.0	165.3	171.0	172.7	-	117.9	118.6	122.1	123.8	-
Commercial printing, lithographic	2752	335.9	338.2	351.2	352.4	-	242.1	245.0	255.8	256.9	-
Manifold business forms	276	49.4	49.8	51.3	51.5	-	34.0	34.2	35.1	35.3	-
Blankbooks and bookbinding	278	73.4	72.6	79.5	80.8	-	58.8	58.1	62.7	63.6	-
Printing trade services	279	53.4	53.2	56.1	56.3	-	40.0	39.8	41.4	41.6	-
Chemicals and allied products	28	1,035.3	1,034.3	1,072.9	1,077.4	1,072.8	582.5	584.4	603.0	607.3	603.4
Industrial inorganic chemicals	281	130.4	129.9	134.2	133.5	-	67.6	67.7	67.7	67.0	-
Industrial inorganic chemicals, nec	2819	86.8	86.4	89.7	89.3	-	48.6	48.7	48.7	48.3	-
Plastics materials and synthetics	282	168.0	167.1	171.5	172.0	-	110.2	109.4	112.7	113.4	-
Plastics materials and resins	2821	76.8	76.1	79.8	80.0	-	45.2	45.0	47.1	47.3	-
Organic fibers, noncellulosic	2824	64.2	63.7	64.3	64.4	-	45.2	44.2	45.7	46.0	-
Drugs	283	216.9	215.9	231.4	233.1	-	99.1	98.7	103.6	104.4	-
Pharmaceutical preparations	2834	171.3	170.8	182.9	184.3	-	76.6	76.5	80.0	80.6	-
Soap, cleaners, and toilet goods	284	157.4	158.5	164.1	167.4	-	101.4	103.0	106.2	108.7	-
Soap and other detergents	2841	44.8	44.4	45.4	45.9	-	28.2	27.9	28.4	28.5	-
Polishing, sanitation, and finishing preparations	2842,3	41.4	41.4	43.1	43.8	-	23.2	23.4	24.6	25.1	-
Toilet preparations	2844	71.2	72.7	75.6	77.7	-	50.0	51.7	53.2	55.1	-
Paints and allied products	285	63.3	62.5	63.4	62.9	-	31.3	30.7	31.8	31.6	-
Industrial organic chemicals	286	151.5	151.4	157.6	157.5	-	86.2	86.7	91.0	91.7	-
Cyclic crudes and intermediates	2865	29.1	29.0	30.1	30.1	-	18.8	18.7	18.5	18.6	-
Gum, wood, and industrial organic chemicals, nec	2861,9	122.4	122.4	127.5	127.4	-	67.4	68.0	72.5	73.1	-
Agricultural chemicals	287	50.5	51.4	51.6	51.9	-	31.4	32.4	32.9	33.0	-
Miscellaneous chemical products	289	97.3	97.6	99.1	99.1	-	55.3	55.8	57.1	57.5	-
Petroleum and coal products	29	168.4	167.6	170.5	170.4	169.0	110.7	110.3	111.3	112.2	112.3
Petroleum refining	291	127.8	127.0	129.5	129.4	-	81.8	81.4	82.6	83.4	-
Paving and roofing materials	295	28.2	28.2	27.9	27.8	-	21.8	21.9	21.5	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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	824.0	832.5	870.1	874.1	876.1	636.9	645.4	674.7	679.5	682.2
Tires and inner tubes	301	85.9	86.0	87.5	86.0	-	61.1	60.7	63.5	62.9	-
Rubber and plastics footwear	302	11.6	12.0	11.9	11.9	-	9.6	9.9	9.5	9.8	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	22.3	22.7	24.7	24.7	-	16.0	16.6	18.3	18.3	-
Fabricated rubber products, nec	306	103.2	105.1	108.1	108.3	-	78.7	80.7	82.8	82.8	-
Miscellaneous plastics products	307	601.0	606.7	637.9	643.2	-	471.5	477.5	500.6	505.7	-
Leather and leather products	31	147.5	146.8	140.1	147.9	147.2	124.0	122.9	114.7	122.4	122.4
Leather tanning and finishing	311	14.4	14.6	13.4	14.4	-	12.0	12.1	11.1	12.0	-
Footwear, except rubber	314	87.9	87.0	82.4	87.0	-	76.2	75.1	69.5	74.3	-
Men's footwear, except athletic	3143	38.0	37.8	36.8	38.7	-	31.2	30.9	29.4	31.2	-
Women's footwear, except athletic	3144	32.3	31.2	29.1	30.2	-	28.6	27.5	25.5	26.8	-
Luggage	316	10.8	11.0	11.3	12.1	-	7.6	7.8	7.9	8.7	-
Handbags and personal leather goods	317	16.3	16.7	15.5	16.2	-	13.4	13.6	11.9	12.5	-
Transportation and public utilities		5,398	5,474	5,598	5,607	5,672	4,475	4,549	4,643	4,650	4,708
Transportation		3,158	3,247	3,325	3,332	3,412	-	-	-	-	-
Railroad transportation	40	314.7	313.7	305.4	304.9	-	-	-	-	-	-
Class I railroads ²	4011	276.4	274.3	263.3	262.8	-	-	-	-	-	-
Local and interurban passenger transit	41	243.1	305.5	259.6	256.0	-	220.9	282.1	235.2	231.7	-
Local and suburban transportation	411	108.1	110.4	115.2	115.5	-	98.7	100.7	104.7	105.1	-
Taxicabs	412	32.9	32.8	32.7	32.4	-	-	-	-	-	-
Intercity highway transportation	413	32.2	32.2	32.2	32.7	-	29.3	29.0	29.0	29.4	-
School buses	415	48.0	107.3	55.5	51.3	-	-	-	-	-	-
Trucking and warehousing	42	1,486.8	1,508.6	1,560.1	1,569.8	-	1,295.2	1,316.1	1,361.0	1,369.2	-
Trucking and trucking terminals	421,3	1,379.4	1,387.5	1,449.0	1,456.1	-	1,205.2	1,213.1	1,268.3	1,274.1	-
Public warehousing	422	107.4	121.1	111.1	113.7	-	90.0	103.0	92.7	95.1	-
Water transportation	44	178.6	181.7	192.8	188.8	-	-	-	-	-	-
Local water transportation	445	28.8	28.3	29.4	29.9	-	-	-	-	-	-
Water transportation services	446	95.0	100.3	109.9	105.9	-	-	-	-	-	-
Transportation by air	45	613.0	615.5	655.1	658.7	-	-	-	-	-	-
Air transportation	451,2	538.9	541.6	575.9	579.1	-	-	-	-	-	-
Air transportation services	458	74.1	73.9	79.2	79.6	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.7	18.4	17.0	16.9	-	13.6	13.5	11.9	12.0	-
Transportation services	47	303.4	303.9	334.9	337.1	-	-	-	-	-	-
Freight forwarding	471	64.2	64.6	69.4	69.9	-	-	-	-	-	-
Communication and public utilities		2,240	2,227	2,273	2,275	2,260	-	-	-	-	-
Communication	48	1,301.7	1,297.2	1,323.3	1,326.3	-	987.9	983.9	999.2	1,000.7	-
Telephone communication	481	914.6	910.3	917.0	918.9	-	676.9	673.4	671.7	672.1	-
Radio and television broadcasting	483	233.5	233.7	246.0	246.1	-	191.7	191.7	202.5	203.0	-
Radio broadcasting	4832	115.8	114.8	118.6	118.3	-	-	-	-	-	-
Television broadcasting	4833	117.7	118.9	127.4	127.8	-	-	-	-	-	-
Electric, gas, and sanitary services	49	938.1	930.1	949.8	949.0	-	745.6	736.3	753.8	753.0	-
Electric services	491	450.2	446.8	450.6	449.8	-	344.8	340.3	344.4	344.0	-
Gas production and distribution	492	168.5	166.1	170.8	170.5	-	134.1	131.8	135.7	135.4	-
Combination utility services	493	206.8	204.6	205.5	204.9	-	170.7	168.3	169.1	168.2	-
Sanitary services	495	85.2	85.5	94.6	95.4	-	73.8	74.2	82.1	83.0	-
Wholesale trade		5,926	5,934	6,209	6,228	6,240	4,752	4,757	5,010	5,026	5,032
Durable goods	50	3,480	3,480	3,699	3,714	3,716	2,760	2,757	2,960	2,972	-
Motor vehicles and automotive equipment	501	438.9	437.8	457.3	457.7	-	352.3	350.4	368.0	367.8	-
Automobiles and other motor vehicles	5012	113.0	112.5	119.7	120.4	-	-	-	-	-	-
Automotive parts and supplies	5013	294.9	294.5	306.6	305.6	-	-	-	-	-	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	144.4	144.3	144.6	146.3	-	117.1	117.6	116.7	117.7	
Furniture	5021	63.6	62.8	65.1	65.6	-	-	-	-	-	-
Home furnishings	5023	80.8	81.5	79.5	80.7	-	-	-	-	-	-
Lumber and construction materials	503	243.5	243.5	279.9	283.0	-	201.1	200.5	229.5	231.8	-
Lumber, plywood, and millwork	5031	111.1	110.7	127.6	129.0	-	-	-	-	-	-
Construction materials, nec	5039	132.4	132.8	152.3	154.0	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	84.0	85.3	89.1	89.6	-	69.4	70.1	72.9	73.1	-
Metals and minerals, except petroleum	505	135.4	136.6	146.9	147.6	-	106.2	107.2	116.6	117.6	
Electrical goods	506	497.9	499.2	527.5	530.5	-	379.0	379.5	406.5	409.5	
Electrical apparatus and equipment	5063	274.1	274.1	294.1	296.8	-	-	-	-	-	-
Electrical appliances, TV and radios	5064	68.4	68.9	68.4	68.9	-	-	-	-	-	-
Electronic parts and equipment	5065	155.4	156.2	165.0	164.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	267.7	265.3	274.1	274.8	-	216.9	214.8	221.4	222.0	
Hardware	5072	91.9	91.3	94.1	93.6	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	109.6	108.7	112.6	113.5	-	-	-	-	-	-
Machinery, equipment, and supplies	508	1,467.4	1,465.5	1,565.6	1,568.0	-	1,157.2	1,154.0	1,255.6	1,257.9	
Commercial machines and equipment	5081	546.4	546.6	580.3	579.9	-	-	-	-	-	-
Construction and mining machinery	5082	78.7	78.7	83.4	83.5	-	-	-	-	-	-
Farm machinery and equipment	5083	117.8	116.5	124.4	124.1	-	-	-	-	-	-
Industrial machinery and equipment	5084	304.8	305.1	327.6	329.1	-	-	-	-	-	-
Industrial supplies	5085	130.1	129.9	138.4	138.7	-	-	-	-	-	-
Professional equipment and supplies	5086	177.6	176.8	191.3	191.9	-	-	-	-	-	-
Miscellaneous durable goods	509	200.5	202.7	214.2	216.4	-	160.9	163.2	173.1	174.5	
Scrap and waste materials	5093	90.4	91.6	99.8	100.6	-	-	-	-	-	-
Nondurable goods	51	2,446	2,454	2,510	2,514	2,524	1,992	2,000	2,050	2,054	
Paper and paper products	511	204.9	204.5	213.0	213.2	-	166.8	166.4	173.0	173.7	
Drugs, proprietaries, and sundries	512	168.4	169.2	176.1	176.0	-	140.1	140.6	147.8	147.8	
Apparel, piece goods, and notions	513	200.9	201.5	203.2	205.3	-	152.2	152.9	156.9	158.5	
Groceries and related products	514	797.2	795.8	810.5	811.5	-	675.4	673.3	687.1	685.6	
Groceries, general line	5141	251.5	250.8	259.1	259.7	-	-	-	-	-	-
Meats and meat products	5147	66.2	65.5	65.0	64.8	-	-	-	-	-	-
Fresh fruits and vegetables	5148	102.0	103.7	105.0	104.7	-	-	-	-	-	-
Chemicals and allied products	516	131.0	130.8	134.8	134.8	-	96.6	96.3	99.8	99.7	
Petroleum and petroleum products	517	200.1	199.6	206.3	206.4	-	155.8	155.6	161.7	162.2	
Petroleum bulk stations and terminals	5171	84.4	84.5	89.0	89.0	-	-	-	-	-	-
Petroleum products, nec	5172	115.7	115.1	117.3	117.4	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	154.2	152.2	159.4	158.8	-	127.0	125.4	131.3	130.9	
Beer and ale	5181	97.6	96.0	101.0	100.9	-	-	-	-	-	-
Wines and distilled beverages	5182	56.6	56.2	58.4	57.9	-	-	-	-	-	-
Miscellaneous nondurable goods	519	463.0	468.5	485.3	479.6	-	375.2	380.6	394.6	389.7	
Farm supplies	5191	149.7	153.2	162.7	158.6	-	-	-	-	-	-
Retail trade		18,694	18,701	19,357	19,409	19,405	16,618	16,602	17,155	17,201	17,176
Building materials and garden supplies	52	762.3	753.6	789.9	782.4	-	634.6	625.1	656.2	648.3	
Lumber and other building materials	521	424.8	418.6	433.2	429.9	-	360.8	353.8	365.5	362.1	
Hardware stores	525	158.7	157.9	167.9	167.1	-	131.9	130.6	139.8	138.9	
General merchandise stores	53	2,397.9	2,415.7	2,484.1	2,482.8	2,494.2	2,241.6	2,254.3	2,293.2	2,293.5	
Department stores	531	2,000.5	2,015.1	2,065.1	2,061.9	-	1,885.7	1,895.4	1,918.2	1,916.9	
Variety stores	533	237.9	239.2	243.0	243.4	-	217.4	218.8	222.0	222.3	
Misc. general merchandise stores	539	159.5	161.4	176.0	177.5	-	138.5	140.1	153.0	154.3	
Food stores	54	2,968.2	2,964.1	3,109.2	3,117.5	3,124.6	2,732.9	2,727.1	2,859.4	2,870.0	
Grocery stores	541	2,617.1	2,615.2	2,746.8	2,750.9	-	2,420.4	2,416.7	2,539.8	2,545.8	
Meat markets and freezer provisioners	542	57.6	57.7	59.3	58.7	-	-	-	-	-	-
Dairy products stores	545	29.2	28.5	26.4	27.1	-	-	-	-	-	-
Retail bakeries	546	171.3	172.4	177.2	178.0	-	155.7	157.1	160.2	160.8	
Automotive dealers and service stations	55	2,034.7	2,029.2	2,113.2	2,118.3	2,109.8	1,710.6	1,699.7	1,769.3	1,773.4	
New and used car dealers	551,2	986.2	991.9	1,020.4	1,024.0	-	820.9	822.7	845.7	848.9	
Auto and home supply stores	553	327.0	325.3	336.3	336.9	-	265.2	263.5	272.8	272.9	
Gasoline service stations	554	618.0	612.9	641.4	642.7	-	540.5	534.0	557.7	558.7	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Retail trade—Continued											
Apparel and accessory stores	56	1,099.2	1,093.7	1,093.2	1,095.1	-	930.6	924.4	924.1	925.4	-
Men's and boys' clothing and furnishings	561	104.1	103.3	103.0	102.2	-	85.5	84.6	83.7	82.8	-
Women's ready-to-wear stores	562	380.9	380.9	380.3	376.4	-	323.2	322.5	320.2	316.2	-
Family clothing stores	565	258.8	253.8	260.4	259.5	-	225.5	220.8	227.2	226.3	-
Shoe stores	566	224.0	224.2	217.2	220.0	-	184.2	184.0	181.1	183.9	-
Furniture and home furnishings stores	57	797.8	802.3	818.1	821.1	-	661.6	664.0	669.1	671.1	-
Furniture and home furnishings stores	571	447.2	447.2	459.3	458.6	-	368.3	367.5	374.1	372.8	-
Furniture stores	5712	276.3	278.0	284.9	284.6	-	-	-	-	-	-
Household appliance stores	572	87.0	89.3	88.0	88.5	-	74.1	76.0	73.9	74.7	-
Radio, television, and music stores	573	263.6	265.8	270.8	274.0	-	219.2	220.5	221.1	223.6	-
Radio and television stores	5732	191.9	192.8	194.2	196.1	-	-	-	-	-	-
Music stores	5733	71.7	73.0	76.6	77.9	-	-	-	-	-	-
Eating and drinking places	58	6,333.3	6,318.0	6,540.5	6,574.4	6,556.2	5,770.5	5,749.7	5,965.9	5,992.4	-
Miscellaneous retail	59	2,300.6	2,324.5	2,408.7	2,417.3	-	1,935.5	1,957.6	2,018.2	2,027.0	-
Drug stores and proprietary stores	591	576.6	576.5	587.7	588.4	-	490.4	491.8	500.4	500.9	-
Liquor stores	592	123.3	123.0	124.8	124.6	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	765.7	774.3	802.4	803.8	-	639.9	647.3	669.3	670.8	-
Sporting goods and bicycle shops	5941	135.0	138.1	142.2	144.9	-	-	-	-	-	-
Book stores	5942	73.0	81.8	75.4	75.8	-	-	-	-	-	-
Stationery stores	5943	75.0	75.4	76.9	76.3	-	-	-	-	-	-
Jewelry stores	5944	147.0	147.0	152.8	153.9	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	159.1	154.1	173.7	170.5	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	60.1	59.6	59.1	59.5	-	-	-	-	-	-
Nonstore retailers	596	273.5	280.9	270.9	273.2	-	246.5	253.1	241.9	243.4	-
Mail order houses	5961	129.8	133.6	125.8	126.5	-	-	-	-	-	-
Merchandising machine operators	5962	86.6	88.1	89.1	89.2	-	-	-	-	-	-
Fuel and ice dealers	598	105.4	106.5	110.9	111.4	-	87.1	88.1	91.7	92.0	-
Retail stores, nec	599	370.1	377.9	420.3	424.5	-	300.2	307.0	338.3	342.8	-
Finance, insurance, and real estate³		6,661	6,600	6,777	6,770	6,707	4,898	4,830	4,931	4,929	4,858
Finance		3,315	3,287	3,333	3,324	3,296	-	-	-	-	-
Banking	60	1,748.4	1,729.2	1,751.5	1,748.7	-	1,264.5	1,245.3	1,255.2	1,251.4	-
Commercial and stock savings banks	602	1,577.3	1,560.5	1,574.4	1,570.7	-	1,137.0	1,120.3	1,124.6	1,120.8	-
State banks, Federal Reserve	6022	346.6	343.8	348.1	347.1	-	-	-	-	-	-
State banks, not Federal Reserve	6023,4	376.0	371.3	379.1	378.7	-	-	-	-	-	-
Mutual savings banks	603	85.5	83.8	86.9	86.5	-	-	-	-	-	-
Credit agencies other than banks	61	902.3	894.2	899.2	897.6	-	675.2	667.4	671.8	670.8	-
Savings and loan associations	612	400.9	398.4	394.5	393.1	-	306.4	303.3	299.7	299.2	-
Federal savings and loan associations	6122	222.6	221.0	222.9	222.3	-	-	-	-	-	-
State associations, insured	6123	173.3	172.6	167.0	166.2	-	-	-	-	-	-
Personal credit institutions	614	238.5	237.6	249.7	249.7	-	183.8	182.9	193.3	193.6	-
Business credit institutions	615	56.7	57.1	66.5	67.5	-	-	-	-	-	-
Mortgage bankers and brokers	616	181.3	176.3	165.7	165.1	-	-	-	-	-	-
Security, commodity brokers, and services	62	456.6	456.2	462.8	458.6	-	-	-	-	-	-
Security brokers and dealers	621	357.2	357.3	356.2	352.0	-	-	-	-	-	-
Holding and other investment offices	67	208.1	207.1	219.5	219.0	-	-	-	-	-	-
Insurance		2,036	2,028	2,087	2,086	2,077	-	-	-	-	-
Insurance carriers	63	1,428.6	1,422.8	1,459.6	1,457.6	-	964.2	956.7	974.2	975.3	-
Life insurance	631	585.4	583.6	596.6	595.0	-	360.2	357.6	359.3	356.6	-
Medical service and health insurance	632	198.9	198.3	204.6	204.8	-	160.1	159.4	165.8	165.7	-
Fire, marine, and casualty insurance	633	535.2	534.4	553.9	552.8	-	360.3	358.4	369.7	373.5	-
Title insurance	636	61.7	59.4	57.3	57.5	-	-	-	-	-	-
Insurance agents, brokers, and service	64	607.5	605.1	627.4	628.5	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,310	1,285	1,357	1,360	1,334	-	-	-	-	-
Real estate	65	1,299.4	1,274.4	1,347.2	1,350.3	-	-	-	-	-	
Real estate operators and lessors	651	551.5	541.7	564.4	568.5	-	-	-	-	-	
Real estate agents and managers	653	545.8	536.5	577.6	577.3	-	-	-	-	-	
Subdividers and developers	655	167.5	161.8	171.7	171.0	-	-	-	-	-	
Combined real estate, insurance, etc	66	10.3	10.2	9.9	9.8	-	-	-	-	-	
Services		24,515	24,490	25,791	25,786	25,773	21,484	21,447	22,527	22,522	22,489
Hotels and other lodging places	70	1,612.5	1,550.5	1,725.3	1,730.3	-	-	-	-	-	
Hotels, motels, and tourist courts	701	1,536.1	1,505.0	1,640.6	1,644.4	-	1,378.3	1,344.8	1,470.7	1,473.3	
Personal services	72	1,126.6	1,138.5	1,181.4	1,179.2	-	-	-	-	-	
Laundry, cleaning, and garment services	721	406.2	406.6	415.6	415.3	-	361.9	362.2	370.1	369.2	
Photographic studios, portrait	722	52.5	56.4	52.6	53.5	-	-	-	-	-	
Beauty shops	723	351.6	354.2	355.9	354.0	-	316.3	319.1	317.7	316.1	
Funeral service and crematories	726	77.6	77.5	78.4	79.1	-	-	-	-	-	
Business services	73	5,269.7	5,278.4	5,538.6	5,558.4	5,565.0	4,519.2	4,522.6	4,737.2	4,754.1	
Advertising	731	212.2	212.3	216.1	216.3	-	158.1	157.9	160.7	160.5	
Advertising agencies	7311	156.0	156.2	159.1	159.4	-	-	-	-	-	
Credit reporting and collection	732	99.8	97.6	96.5	96.3	-	-	-	-	-	
Mailing, reproduction, and stenographic	733	211.3	216.9	234.1	237.2	-	-	-	-	-	
Services to buildings	734	720.7	719.4	726.2	732.7	-	651.6	650.1	655.6	662.9	
Personnel supply services	736	1,253.3	1,251.5	1,316.6	1,321.5	-	-	-	-	-	
Employment agencies	7361	182.5	186.4	192.0	193.8	-	-	-	-	-	
Temporary help supply services	7362	991.6	983.9	1,039.5	1,042.0	-	-	-	-	-	
Computer and data processing services	737	657.7	662.4	735.2	740.0	-	516.1	519.0	577.6	580.3	
Computer programming and software	7372	247.7	250.8	282.9	285.1	-	-	-	-	-	
Data processing services	7374	302.2	302.2	331.2	332.3	-	-	-	-	-	
Miscellaneous business services	739	2,105.6	2,109.2	2,203.6	2,204.1	-	-	-	-	-	
Research development laboratories, nec	7391	196.0	195.1	203.1	202.8	-	-	-	-	-	
Management and public relations	7392	589.6	587.9	621.2	620.7	-	-	-	-	-	
Detective and protective services	7393	453.7	461.7	471.9	475.4	-	-	-	-	-	
Equipment rental and leasing	7394	250.8	245.3	263.6	262.5	-	-	-	-	-	
Photofinishing laboratories	7395	82.9	85.1	79.7	80.3	-	-	-	-	-	
Auto repair, services, and garages	75	804.1	806.2	840.3	839.5	-	669.7	670.6	695.8	695.4	
Automotive rentals, without drivers	751	164.2	165.1	170.3	170.8	-	-	-	-	-	
Automotive repair shops	753	481.6	482.6	508.6	509.5	-	397.5	398.4	420.8	421.5	
Miscellaneous repair services	76	322.1	321.5	343.8	345.0	-	267.1	266.4	281.3	282.0	
Electrical repair shops	762	104.4	103.0	114.7	115.7	-	-	-	-	-	
Motion pictures	78	242.1	237.9	240.1	244.5	-	203.3	199.5	200.9	205.9	
Motion picture production and services	781	115.0	115.9	108.0	114.0	-	91.4	92.6	83.6	90.0	
Motion picture theaters	783	113.4	107.9	116.1	114.9	-	-	-	-	-	
Amusement and recreation services	79	1,052.4	972.0	1,100.3	1,098.7	-	940.9	862.4	942.5	944.1	
Health services	80	6,900.7	6,896.5	7,274.5	7,295.0	7,328.2	6,138.8	6,130.6	6,467.9	6,486.5	
Offices of physicians	801	1,064.5	1,064.6	1,143.5	1,150.9	-	875.5	874.3	938.9	944.1	
Offices of dentists	802	475.7	473.3	495.7	493.8	-	419.9	416.9	435.4	433.7	
Nursing and personal care facilities	805	1,300.8	1,294.9	1,335.6	1,340.3	-	1,176.8	1,170.4	1,207.5	1,211.8	
Skilled nursing care facilities	8051	871.6	868.2	893.7	897.3	-	-	-	-	-	
Nursing and personal care, nec	8059	429.2	426.7	441.9	443.0	-	-	-	-	-	
Hospitals	806	3,184.6	3,186.8	3,360.0	3,362.4	-	2,906.2	2,907.5	3,071.5	3,075.6	
General medical and surgical hospitals	8062	2,969.4	2,971.2	3,130.4	3,132.1	-	-	-	-	-	
Psychiatric hospitals	8063	75.7	75.8	82.7	82.9	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	139.5	139.8	146.9	147.4	-	-	-	-	-	
Medical and dental laboratories	807	137.2	136.9	148.9	150.2	-	-	-	-	-	
Outpatient care facilities	808	266.3	266.8	290.8	295.9	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Services—Continued											
Legal services	81	810.3	794.5	845.9	842.1		680.5	665.0	709.4	706.4	
Educational services	82	1,216.9	1,389.3	1,288.3	1,278.5						
Elementary and secondary schools	821	318.3	362.5	331.3	330.0						
Colleges and universities	822	733.1	866.6	778.1	768.7						
Correspondence and vocational schools	824	74.8	76.7	76.9	77.8						
Social services	83	1,470.4	1,491.4	1,580.0	1,565.3						
Individual and family services	832	304.4	295.1	312.4	311.1						
Job training and related services	833	233.2	218.0	248.7	243.8						
Residential care	836	354.0	352.8	378.2	379.8						
Museums, botanical and zoological gardens	84	50.7	49.2	52.9	52.4						
Membership organizations	86	1,611.3	1,566.9	1,660.5	1,644.9						
Business associations	861	93.5	93.0	95.3	96.7						
Labor organizations	863	127.8	128.8	131.0	132.4						
Civic and social associations	864	395.1	352.6	434.2	415.5						
Miscellaneous services	89	1,335.0	1,323.5	1,406.3	1,410.6		1,085.4	1,070.4	1,135.5	1,138.6	
Engineering and architectural services	891	732.4	724.6	773.4	775.7		618.2	609.2	646.7	648.7	
Noncommercial research organizations	892	123.9	120.6	129.9	130.1		-	-	-	-	
Accounting, auditing, and bookkeeping	893	452.4	452.2	473.6	474.6		349.0	346.1	362.6	363.2	
Government		15,993	16,731	16,450	16,350	17,186					
Federal Government⁴		2,966	2,941	2,992	2,980	2,950					
Executive, by agency ⁴		2,906.9	2,882.8	2,931.5							
Department of Defense		996.7	989.1	963.6							
Postal Service ⁵		801.6	794.6	831.5							
Other executive agencies		1,108.6	1,099.1	1,136.4							
Legislative		38.9	37.9	39.4							
Judicial		19.7	20.0	21.0							
Federal government, by industry:											
Manufacturing activities		125.9	125.5	121.5	121.2						
Shipbuilding and repairing	3731	76.6	76.6	73.9	73.8						
Transportation and public utilities, except Postal Service		43.3	43.5	42.1	42.4						
Services		434.8	431.8	425.0	426.7						
Hospitals	806	253.3	251.0	248.9	248.5						
State government		3,749	3,894	3,840	3,848	4,036					
Hospitals	806	441.0	438.5	448.8	447.8	-					
Education	82	1,317.0	1,503.6	1,351.1	1,351.2						
General administration, including executive, legislative, and judicial functions		1,434.5	1,409.4	1,474.6	1,475.6						
Local government		9,278	9,896	9,618	9,522	10,200					
Transportation and public utilities		497.6	494.9	501.3	499.9	-					
Hospitals	806	615.4	614.7	639.7	640.7						
Education	82	4,530.2	5,372.8	4,724.6	4,661.1						
General administration, including executive, legislative, and judicial functions		3,264.5	3,063.2	3,367.4	3,334.1						

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 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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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 1987	July 1987	May 1988	June 1988	July 1988
Total	47,400	46,679	49,245	49,453	48,574
Total private	38,730	38,743	40,068	40,502	40,434
Goods-producing	6,891	6,855	7,057	7,140	7,072
Mining	95	97	97	99	99
Construction	534	541	564	576	585
Manufacturing	6,262	6,217	6,396	6,465	6,388
Durable goods	3,000	2,967	3,084	3,111	3,080
Lumber and wood products	120	120	123	126	125
Furniture and fixtures	161	160	167	165	163
Stone, clay, and glass products	116	114	117	119	119
Primary metal industries	101	100	106	108	105
Fabricated metal products	320	313	330	333	327
Machinery, except electrical	450	449	475	480	479
Electrical and electronic equipment	865	859	883	891	883
Transportation equipment	397	389	396	398	395
Instruments and related products	301	299	309	313	311
Miscellaneous manufacturing	170	164	177	179	174
Nondurable goods	3,262	3,250	3,312	3,354	3,308
Food and kindred products	510	534	504	522	535
Tobacco manufactures	16	15	16	16	16
Textile mill products	353	348	351	353	345
Apparel and other textile products	883	859	880	882	842
Paper and allied products	166	164	167	170	170
Printing and publishing	645	646	673	678	678
Chemicals and allied products	294	297	307	314	314
Petroleum and coal products	24	24	25	26	26
Rubber and misc. plastics products	285	279	303	306	300
Leather and leather products	86	84	86	87	83
Service-producing	40,509	39,824	42,188	42,313	41,502
Transportation and public utilities	1,545	1,526	1,615	1,630	1,607
Wholesale trade	1,734	1,737	1,819	1,840	1,846
Retail trade	9,833	9,835	10,120	10,233	10,208
Finance, insurance, and real estate	4,117	4,139	4,147	4,193	4,205
Services	14,610	14,651	15,310	15,466	15,496
Government	8,672	7,936	9,177	8,951	8,140
Federal	1,061	1,064	1,059	1,066	1,069
State	1,848	1,801	2,001	1,911	1,860
Local	5,763	5,071	6,117	5,974	5,211

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1987 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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total	102,906	103,371	103,678	104,001	104,262	104,729	105,020	105,281	105,469	106,057	106,271	106,440	106,695
Total private	85,651	86,241	86,520	86,794	87,044	87,475	87,700	87,973	88,139	88,878	88,941	89,035	89,177
Goods-producing	24,902	25,025	25,123	25,201	25,180	25,271	25,330	25,435	25,466	25,592	25,663	25,646	25,637
Mining	734	740	736	735	728	731	733	737	739	740	740	737	730
Oil and gas extraction	417	421	418	417	414	415	419	421	425	425	424	422	417
Construction	5,012	5,060	5,090	5,118	5,083	5,150	5,192	5,238	5,237	5,308	5,330	5,335	5,351
General building contractors	1,328	1,340	1,348	1,352	1,365	1,377	1,383	1,400	1,394	1,412	1,400	1,404	1,404
Manufacturing	19,158	19,225	19,297	19,348	19,369	19,390	19,405	19,460	19,490	19,544	19,593	19,574	19,556
Durable goods	11,269	11,315	11,355	11,390	11,393	11,404	11,411	11,459	11,477	11,515	11,566	11,554	11,548
Lumber and wood products	744	744	750	754	754	756	755	758	757	757	756	753	751
Furniture and fixtures	526	529	531	533	536	535	534	535	537	537	541	536	536
Stone, clay, and glass products	580	583	585	588	583	584	585	587	585	587	589	587	588
Primary metal industries	761	768	768	769	768	770	772	773	776	781	789	785	787
Blast furnaces and basic steel products	276	278	279	279	279	280	281	281	281	281	282	280	279
Fabricated metal products	1,412	1,421	1,429	1,433	1,435	1,438	1,439	1,444	1,448	1,457	1,464	1,457	1,458
Machinery, except electrical	2,039	2,049	2,062	2,074	2,085	2,091	2,089	2,111	2,121	2,134	2,151	2,157	2,163
Electrical and electronic equipment	2,085	2,094	2,100	2,110	2,112	2,112	2,115	2,117	2,115	2,120	2,122	2,129	2,124
Transportation equipment	2,052	2,052	2,047	2,046	2,036	2,031	2,025	2,045	2,048	2,047	2,052	2,045	2,040
Motor vehicles and equipment	860	859	854	851	839	837	835	848	851	850	857	856	860
Instruments and related products	696	700	704	704	704	705	705	706	709	713	715	720	720
Miscellaneous manufacturing	374	377	379	379	380	382	382	383	381	382	387	385	383
Nondurable goods	7,887	7,910	7,942	7,958	7,976	7,986	7,994	8,001	8,013	8,029	8,027	8,020	8,008
Food and kindred products	1,627	1,630	1,636	1,638	1,647	1,649	1,647	1,648	1,643	1,645	1,631	1,634	1,631
Tobacco manufactures	53	52	54	54	55	54	54	54	52	53	52	51	51
Textile mill products	730	731	733	733	732	732	729	727	728	727	726	719	719
Apparel and other textile products	1,104	1,106	1,110	1,106	1,105	1,104	1,106	1,100	1,100	1,097	1,096	1,091	1,087
Paper and allied products	682	682	683	684	685	686	687	687	689	689	692	692	690
Printing and publishing	1,518	1,522	1,528	1,532	1,538	1,544	1,548	1,554	1,559	1,565	1,567	1,572	1,575
Chemicals and allied products	1,032	1,036	1,041	1,047	1,047	1,049	1,052	1,056	1,060	1,065	1,067	1,071	1,070
Petroleum and coal products	166	167	167	167	166	165	164	165	166	167	167	167	167
Rubber and misc. plastics products	830	839	845	851	854	856	860	864	870	873	882	878	873
Leather and leather products	145	145	145	146	147	147	147	146	146	146	147	145	145
Service-producing	78,004	78,346	78,555	78,800	79,082	79,458	79,690	79,846	80,023	80,465	80,608	80,794	81,058
Transportation and public utilities	5,427	5,448	5,466	5,481	5,499	5,513	5,530	5,543	5,556	5,582	5,598	5,602	5,625
Transportation	3,201	3,214	3,231	3,244	3,261	3,272	3,285	3,298	3,308	3,332	3,345	3,345	3,365
Communication and public utilities	2,226	2,234	2,235	2,237	2,238	2,241	2,245	2,245	2,248	2,250	2,253	2,257	2,260
Wholesale trade	5,914	5,935	5,958	5,984	6,010	6,035	6,061	6,089	6,115	6,148	6,174	6,193	6,218
Durable goods	3,478	3,498	3,514	3,536	3,555	3,573	3,591	3,610	3,635	3,660	3,661	3,696	3,712
Nondurable goods	2,436	2,437	2,444	2,448	2,455	2,462	2,470	2,479	2,480	2,488	2,493	2,497	2,506
Retail trade	18,605	18,705	18,761	18,784	18,927	19,045	19,050	19,093	19,130	19,205	19,261	19,274	19,308
General merchandise stores	2,457	2,489	2,495	2,494	2,526	2,561	2,543	2,546	2,541	2,549	2,545	2,536	2,537
Food stores	2,958	2,971	2,979	2,988	3,014	3,029	3,044	3,049	3,053	3,080	3,097	3,108	3,118
Automotive dealers and service stations	2,015	2,026	2,026	2,033	2,038	2,047	2,055	2,064	2,070	2,076	2,088	2,093	2,095
Eating and drinking places	6,152	6,191	6,216	6,232	6,260	6,291	6,319	6,326	6,336	6,352	6,369	6,377	6,384
Finance, insurance, and real estate	6,588	6,604	6,608	6,619	6,633	6,636	6,651	6,650	6,656	6,679	6,684	6,688	6,693
Finance	3,292	3,295	3,299	3,301	3,308	3,305	3,306	3,302	3,299	3,304	3,300	3,298	3,299
Insurance	2,032	2,043	2,042	2,049	2,052	2,053	2,060	2,065	2,067	2,074	2,077	2,080	2,081
Real estate	1,264	1,266	1,267	1,269	1,273	1,278	1,285	1,283	1,290	1,301	1,307	1,310	1,313
Services	24,415	24,524	24,604	24,725	24,795	24,975	25,078	25,163	25,216	25,472	25,561	25,632	25,696
Business services	5,233	5,282	5,287	5,306	5,321	5,385	5,405	5,420	5,443	5,480	5,500	5,498	5,515
Health services	6,894	6,928	6,962	6,995	7,019	7,056	7,088	7,126	7,153	7,203	7,238	7,266	7,328
Government	17,055	17,130	17,158	17,207	17,218	17,254	17,320	17,308	17,350	17,379	17,330	17,405	17,518
Federal	2,962	2,966	2,974	2,980	2,973	2,972	2,970	2,963	2,957	2,951	2,951	2,956	2,971
State	3,973	3,985	3,988	4,001	4,006	4,014	4,031	4,041	4,050	4,049	4,059	4,076	4,118
Local	10,120	10,179	10,196	10,226	10,239	10,268	10,319	10,304	10,343	10,379	10,320	10,373	10,429

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987						1988						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total	47,458	47,582	47,700	47,941	48,072	48,240	48,396	48,615	48,772	48,865	48,999	49,306	49,371
Total private	38,776	38,893	38,985	39,170	39,295	39,425	39,573	39,767	39,881	39,969	40,075	40,357	40,459
Goods-producing	6,909	6,905	6,931	6,963	6,990	7,007	7,022	7,028	7,040	7,058	7,082	7,103	7,125
Mining	96	96	96	96	96	96	96	96	96	97	97	99	97
Construction	531	533	536	538	542	543	546	549	552	558	566	569	574
Manufacturing	6,282	6,276	6,299	6,329	6,352	6,368	6,380	6,383	6,392	6,403	6,419	6,435	6,454
Durable goods	2,997	3,011	3,024	3,038	3,045	3,056	3,059	3,062	3,067	3,077	3,085	3,096	3,112
Lumber and wood products	119	118	119	120	120	121	122	122	122	123	123	123	123
Furniture and fixtures	165	164	165	166	166	166	167	166	166	166	167	166	168
Stone, clay, and glass products	114	114	114	115	115	116	116	116	116	117	118	117	119
Primary metal industries	101	103	103	104	104	105	104	105	104	105	106	108	107
Fabricated metal products	319	320	321	322	323	324	325	325	326	327	329	331	333
Machinery, except electrical	450	454	456	458	460	463	466	467	469	471	473	476	480
Electrical and electronic equipment	867	870	873	877	878	881	882	882	885	886	885	890	891
Transportation equipment	391	396	398	398	398	399	396	393	393	396	397	397	398
Instruments and related products	301	301	303	304	306	306	306	308	308	308	309	311	313
Miscellaneous manufacturing	170	171	172	174	175	175	175	178	178	178	178	177	180
Nondurable goods	3,285	3,265	3,275	3,291	3,307	3,312	3,321	3,321	3,325	3,326	3,334	3,339	3,342
Food and kindred products	520	514	515	518	521	521	528	528	526	528	526	526	521
Tobacco manufactures	17	16	17	17	17	18	18	18	17	17	17	17	18
Textile mill products	354	353	353	353	354	354	353	353	352	350	351	351	351
Apparel and other textile products	892	876	880	883	886	883	881	879	880	875	877	874	874
Paper and allied products	163	164	165	165	166	167	167	167	167	167	167	168	169
Printing and publishing	647	650	651	654	658	660	664	666	669	672	673	677	679
Chemicals and allied products	295	296	297	299	301	303	303	304	305	307	309	311	311
Petroleum and coal products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rubber and misc. plastics products	285	286	287	291	293	296	296	296	298	300	303	304	307
Leather and leather products	88	86	86	87	87	86	87	86	87	86	86	86	87
Service-producing	40,549	40,677	40,769	40,978	41,082	41,233	41,374	41,587	41,732	41,807	41,917	42,203	42,246
Transportation and public utilities	1,542	1,551	1,559	1,568	1,572	1,576	1,580	1,588	1,599	1,602	1,610	1,625	1,625
Wholesale trade	1,739	1,749	1,756	1,762	1,774	1,785	1,795	1,802	1,813	1,813	1,826	1,838	1,848
Retail trade	9,827	9,856	9,876	9,925	9,955	9,972	10,056	10,127	10,123	10,130	10,161	10,192	10,198
Finance, insurance, and real estate	4,101	4,105	4,108	4,120	4,126	4,131	4,139	4,139	4,147	4,141	4,147	4,164	4,167
Services	14,658	14,727	14,755	14,832	14,878	14,954	14,981	15,083	15,159	15,225	15,249	15,435	15,496
Government	8,682	8,689	8,715	8,771	8,777	8,815	8,823	8,848	8,891	8,896	8,924	8,949	8,912
Federal	1,045	1,049	1,056	1,057	1,060	1,062	1,060	1,061	1,061	1,057	1,054	1,050	1,050
State	1,925	1,929	1,927	1,935	1,937	1,945	1,947	1,952	1,960	1,968	1,971	1,978	1,987
Local	5,712	5,711	5,732	5,779	5,780	5,808	5,816	5,835	5,870	5,871	5,899	5,921	5,875

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

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Total private	69,463	69,766	69,988	70,234	70,405	70,787	70,961	71,170	71,260	71,736	71,948	72,032	72,074
Goods-producing	17,506	17,601	17,678	17,743	17,698	17,798	17,839	17,909	17,925	18,025	18,085	18,066	18,040
Mining	528	534	531	530	524	527	529	533	535	535	535	534	526
Construction	3,903	3,949	3,972	3,998	3,949	4,022	4,059	4,096	4,088	4,149	4,168	4,166	4,174
Manufacturing	13,075	13,118	13,175	13,215	13,225	13,249	13,251	13,280	13,302	13,341	13,382	13,366	13,340
Durable goods	7,499	7,532	7,564	7,590	7,582	7,599	7,598	7,632	7,649	7,676	7,720	7,712	7,703
Lumber and wood products	621	621	627	630	629	631	631	633	632	634	630	628	623
Furniture and fixtures	420	424	425	427	428	427	426	427	429	429	432	428	429
Stone, clay, and glass products	449	451	453	457	453	454	455	457	455	457	460	457	456
Primary metal industries	577	580	584	584	583	586	588	591	594	599	605	601	603
Blast furnaces and basic steel products	210	212	213	213	214	216	217	219	218	219	220	217	215
Fabricated metal products	1,050	1,055	1,063	1,068	1,068	1,071	1,071	1,073	1,079	1,085	1,091	1,086	1,087
Machinery, except electrical	1,213	1,221	1,230	1,238	1,244	1,250	1,256	1,262	1,269	1,273	1,287	1,291	1,296
Electrical and electronic equipment	1,225	1,233	1,235	1,241	1,240	1,241	1,242	1,244	1,244	1,250	1,254	1,260	1,257
Transportation equipment	1,292	1,290	1,285	1,283	1,273	1,271	1,261	1,276	1,278	1,276	1,284	1,282	1,272
Motor vehicles and equipment	670	669	665	661	651	649	648	658	660	660	671	673	671
Instruments and related products	380	383	385	385	387	388	388	389	391	394	395	399	400
Miscellaneous manufacturing	272	274	277	277	277	280	280	280	278	279	282	280	280
Nondurable goods	5,576	5,586	5,611	5,625	5,643	5,650	5,653	5,648	5,653	5,665	5,662	5,654	5,637
Food and kindred products	1,151	1,153	1,159	1,161	1,169	1,172	1,168	1,169	1,164	1,168	1,153	1,155	1,151
Tobacco manufactures	39	39	40	41	42	41	41	40	39	40	39	38	37
Textile mill products	634	634	636	636	636	636	634	632	632	630	632	622	623
Apparel and other textile products	927	929	932	930	929	928	930	926	925	923	922	918	913
Paper and allied products	520	518	518	519	520	521	521	520	521	523	524	524	522
Printing and publishing	849	851	856	858	863	867	870	871	872	875	876	879	878
Chemicals and allied products	582	582	585	589	589	589	592	593	596	599	600	604	600
Petroleum and coal products	109	109	109	109	109	108	107	107	108	108	108	110	111
Rubber and misc. plastics products	644	650	655	661	664	666	669	670	676	679	687	684	681
Leather and leather products	121	121	121	121	122	122	121	120	120	120	121	120	121
Service-producing	51,957	52,165	52,310	52,491	52,707	52,989	53,122	53,261	53,335	53,711	53,863	53,966	54,034
Transportation and public utilities	4,502	4,517	4,533	4,545	4,560	4,574	4,587	4,600	4,611	4,632	4,648	4,655	4,661
Wholesale trade	4,736	4,752	4,777	4,802	4,825	4,848	4,881	4,902	4,924	4,956	4,975	4,991	5,012
Retail trade	16,520	16,610	16,651	16,671	16,795	16,902	16,897	16,949	16,949	17,028	17,070	17,081	17,091
Finance, insurance, and real estate	4,821	4,822	4,818	4,824	4,831	4,827	4,825	4,823	4,828	4,842	4,844	4,851	4,848
Services	21,378	21,464	21,531	21,649	21,696	21,838	21,932	21,987	22,023	22,253	22,326	22,388	22,422

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1986.....	57.0	47.3	49.5	50.8	51.9	46.8	51.9	54.1	51.4	53.0	58.9	58.9
	1987.....	50.8	59.2	61.1	62.4	62.4	61.6	70.8	62.2	68.1	67.3	67.8	68.4
	1988.....	61.6	61.6	62.2	63.8	58.1	68.9	61.4	^p 52.4	^p 50.5			
Over 3-month span	1986.....	50.0	47.6	45.7	46.2	46.2	46.2	48.1	51.9	50.5	55.9	59.7	59.2
	1987.....	57.6	57.0	65.1	69.2	68.1	71.9	73.8	76.8	74.1	76.5	78.1	73.0
	1988.....	71.6	66.8	67.0	66.8	71.4	69.7	^p 68.1	^p 58.4				
Over 6-month span	1986.....	48.1	47.3	43.8	42.7	43.2	47.0	46.5	50.0	55.9	53.2	55.9	58.4
	1987.....	64.6	64.3	63.0	70.3	72.4	77.3	78.4	79.7	82.7	77.8	77.0	76.5
	1988.....	73.5	70.3	70.3	73.8	^p 71.1	^p 66.5						
Over 12-month span	1986.....	42.2	41.6	43.8	44.9	45.7	48.6	46.8	48.6	51.6	53.8	56.5	57.8
	1987.....	63.8	67.3	69.5	73.5	76.8	76.8	78.9	78.9	79.7	78.4	77.8	81.9
	1988.....	77.6	^p 78.4	^p 73.8									

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Alabama	1,510.3	1,537.4	1,526.9	11.4	11.6	11.4	76.6	77.0	76.2
Birmingham	394.9	407.6	406.6	5.7	5.9	5.9	24.7	27.6	27.8
Huntsville	124.1	128.3	127.8	.1	.1	.1	5.8	6.0	6.0
Mobile	161.4	166.2	164.2	.5	.5	.5	9.5	9.5	9.3
Montgomery	126.1	127.8	125.6	.2	.2	.2	8.0	8.8	7.6
Tuscaloosa	57.5	58.6	59.1	2.4	2.5	2.1	3.1	3.4	3.3
Alaska	224.4	223.6	223.1	8.8	9.3	9.3	13.3	11.0	11.2
Arizona	1,360.4	1,375.0	1,379.6	11.5	12.2	12.3	103.6	96.3	97.0
Phoenix	899.7	913.2	911.9	.6	.6	.6	69.5	64.5	65.0
Tucson	237.2	238.6	241.1	1.6	1.8	1.8	19.6	18.6	18.7
Arkansas	839.5	856.1	857.5	4.1	4.4	4.3	37.0	36.0	36.1
Fayetteville-Springdale	47.6	49.1	49.7	(¹)	(¹)	(¹)	2.1	2.0	2.0
Fort Smith	76.5	78.5	78.2	.9	1.0	1.0	2.9	2.8	2.9
Little Rock-North Little Rock	229.9	235.1	236.8	.4	.4	.4	11.8	12.2	12.3
Pine Bluff	31.9	32.4	32.3	(¹)	(¹)	(¹)	1.6	1.6	1.5
California	11,631.9	12,040.5	12,055.1	41.1	41.4	41.3	607.3	648.6	660.6
Anaheim-Santa Ana	1,088.1	1,112.3	1,113.7	1.8	1.4	1.3	64.5	65.1	66.3
Bakersfield	155.4	158.5	157.5	12.9	13.7	13.5	9.5	9.1	9.1
Fresno	203.6	207.7	206.4	.6	.6	.6	13.1	13.2	13.2
Los Angeles-Long Beach	3,984.3	4,079.8	4,071.1	9.4	9.6	9.5	150.1	155.8	158.4
Modesto	109.4	110.1	112.8	(¹)	(¹)	(¹)	7.4	6.9	7.0
Oakland	806.8	832.5	830.1	3.2	3.3	3.3	49.6	52.0	52.6
Oxnard-Ventura	203.5	214.1	214.3	2.6	2.8	2.8	13.2	13.8	14.2
Riverside-San Bernardino	597.6	630.0	628.9	1.2	1.3	1.3	53.4	57.0	58.0
Sacramento	548.1	574.2	577.5	.8	.7	.7	35.2	37.4	38.1
San Diego	859.1	898.2	902.4	.8	.8	.8	58.7	61.4	62.6
San Francisco	927.6	946.7	944.9	.9	.9	.9	34.6	36.2	36.9
San Jose	786.2	802.6	803.6	.2	.2	.2	33.8	32.9	33.2
Santa Barbara-Santa Maria-Lompoc	144.1	145.9	146.2	1.3	1.3	1.3	6.6	6.7	6.8
Santa Rosa-Petaluma	124.3	128.1	129.2	.7	.8	.8	9.0	9.6	9.9
Stockton	146.2	145.2	146.9	.1	.1	.1	8.7	8.6	8.7
Vallejo-Fairfield-Napa	126.0	131.6	131.1	.3	.3	.3	9.4	10.2	10.5
Colorado	1,392.9	1,388.1	1,388.0	21.2	21.1	21.0	71.8	62.8	62.3
Boulder-Longmont	102.7	104.2	103.9	.3	.3	.3	3.7	3.3	3.3
Denver	790.8	787.4	787.5	14.2	13.7	13.6	39.4	35.6	35.0
Connecticut	1,631.6	1,658.5	1,659.6	1.7	1.7	1.7	79.9	82.4	83.3
Bridgeport-Milford	196.3	196.4	199.5	(¹)	(¹)	(¹)	9.5	9.9	10.0
Hartford	472.7	485.9	484.0	.3	.4	.4	21.2	22.0	22.3
New Haven-Meriden	248.4	256.1	256.6	.3	.4	.4	13.0	14.5	14.7
Stamford	127.0	129.3	129.3	.6	.5	.5	5.9	6.1	6.1
Waterbury	86.7	87.9	89.1	(¹)	(¹)	(¹)	4.6	5.1	5.2
Delaware	323.9	337.8	335.2	.1	.1	.1	20.7	23.3	22.7
Wilmington	273.8	284.3	281.6	.2	.1	.1	17.2	18.6	18.2
District of Columbia	674.5	685.7	684.1	.1	.1	.1	15.9	15.5	15.5
Washington MSA	2,102.5	2,170.0	2,164.0	1.3	1.2	1.2	136.7	139.4	140.2
Florida	4,796.2	5,022.3	5,023.0	8.7	8.9	8.9	345.0	353.2	353.8
Daytona Beach	110.5	115.9	115.0	(¹)	(¹)	(¹)	8.5	8.6	8.6
Fort Lauderdale-Hollywood-Pompano Beach	457.4	479.0	480.8	.4	.4	.4	35.6	35.8	36.3
Fort Myers-Cape Coral	104.7	113.3	113.1	(¹)	(¹)	(¹)	12.2	13.0	13.1
Jacksonville	393.8	413.4	415.1	.5	.4	.5	28.1	28.1	28.4
Melbourne-Titusville-Palm Bay	142.9	150.1	150.8	(¹)	(¹)	(¹)	8.4	8.3	8.5
Miami-Hialeah	821.4	825.3	824.8	.9	.9	.9	42.8	40.9	40.8
Orlando	474.2	498.3	497.3	(¹)	(¹)	(¹)	34.1	36.1	36.4
Pensacola	124.0	125.5	126.0	.3	.3	.3	9.3	9.0	8.9
Sarasota	103.1	107.0	106.7	(¹)	(¹)	(¹)	10.6	10.6	10.5
Tallahassee	106.3	110.5	109.9	(¹)	(¹)	(¹)	5.8	6.1	6.1
Tampa-St. Petersburg-Clearwater	787.9	812.7	809.3	.7	.6	.6	59.2	59.6	59.6
West Palm Beach-Boca Raton-Delray Beach	316.6	334.0	335.6	(¹)	(¹)	(¹)	28.4	28.6	28.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Alabama	371.9	376.0	375.6	73.1	74.1	73.8	334.2	338.6	340.6
Birmingham	54.4	56.7	55.9	28.1	28.4	28.5	99.2	101.1	101.1
Huntsville	31.4	32.3	32.0	2.9	3.0	2.9	23.6	24.1	24.3
Mobile	26.6	27.0	26.7	9.2	9.4	9.4	43.8	44.3	44.3
Montgomery	19.1	19.3	19.3	5.0	5.1	5.1	28.4	29.0	28.9
Tuscaloosa	9.6	9.8	9.9	1.9	1.9	1.9	12.1	12.2	12.3
Alaska	20.5	22.9	20.9	19.3	19.0	18.8	44.6	43.7	44.1
Arizona	188.5	189.8	189.5	73.0	72.8	72.8	335.4	342.5	341.3
Phoenix	136.8	138.6	138.3	50.2	50.2	50.3	227.9	230.9	230.3
Tucson	31.1	30.3	30.3	9.5	9.5	9.5	54.5	57.0	56.7
Arkansas	223.2	229.7	230.0	51.9	51.8	51.5	192.3	196.7	197.8
Fayetteville-Springdale	12.2	12.3	12.4	4.4	5.2	5.2	10.9	11.5	11.6
Fort Smith	27.1	27.9	27.8	3.9	4.1	4.1	15.8	15.7	15.9
Little Rock-North Little Rock	32.5	33.9	34.1	16.7	17.0	17.0	55.6	56.6	56.9
Pine Bluff	6.3	6.6	6.5	2.5	2.4	2.4	6.9	7.0	7.0
California	2,138.1	2,149.7	2,167.0	585.1	590.3	590.2	2,766.4	2,899.6	2,904.8
Anaheim-Santa Ana	249.4	256.8	257.6	34.7	34.4	34.6	271.9	283.8	282.8
Bakersfield	11.0	11.2	11.0	8.0	8.1	8.2	37.6	38.9	38.4
Fresno	23.3	23.6	24.1	11.1	11.4	11.5	53.2	53.4	53.5
Los Angeles-Long Beach	906.9	904.2	902.8	205.4	210.7	209.9	916.1	931.6	931.8
Modesto	28.5	26.1	28.8	4.5	4.4	4.4	26.9	29.0	29.0
Oakland	104.9	107.2	107.3	56.5	57.5	57.6	201.4	205.9	205.3
Oxnard-Ventura	30.0	30.9	31.2	10.3	10.1	10.0	50.6	53.2	53.3
Riverside-San Bernardino	81.7	84.5	84.7	30.8	32.0	32.0	152.0	161.1	160.2
Sacramento	42.3	44.2	45.1	25.3	26.6	26.6	135.1	140.4	141.1
San Diego	120.2	124.0	124.2	33.7	34.4	34.4	207.1	220.6	221.1
San Francisco	79.8	79.0	79.7	77.1	76.9	76.4	211.2	214.5	213.7
San Jose	266.7	269.3	271.3	21.8	21.8	21.7	151.0	154.5	155.2
Santa Barbara-Santa Maria-Lompoc	22.3	22.3	22.2	5.1	5.1	5.1	35.4	36.2	36.0
Santa Rosa-Petaluma	18.9	19.0	19.5	6.7	6.2	6.3	32.5	34.6	34.7
Stockton	28.4	24.0	25.7	9.2	9.0	9.3	33.2	34.1	34.2
Vallejo-Fairfield-Napa	13.3	13.4	13.6	4.7	4.7	4.7	30.2	32.2	32.2
Colorado	185.4	188.0	189.0	83.7	82.8	82.8	352.4	353.3	353.3
Boulder-Longmont	28.5	28.7	28.7	2.3	2.3	2.3	22.9	23.3	23.4
Denver	95.3	96.1	96.2	60.5	59.9	60.0	199.4	200.0	199.8
Connecticut	375.3	363.0	367.4	70.8	71.9	72.1	369.4	383.8	383.7
Bridgeport-Milford	57.4	52.9	56.5	8.5	9.1	9.2	45.5	46.8	46.4
Hartford	88.7	92.3	90.6	17.5	17.8	17.7	100.1	102.8	102.6
New Haven-Meriden	45.5	45.3	45.6	18.0	18.4	18.4	57.5	59.4	59.5
Stamford	23.4	23.3	23.1	5.2	5.5	5.5	30.6	31.1	31.0
Waterbury	23.9	22.2	23.4	2.9	3.0	3.0	17.3	17.5	17.6
Delaware	70.2	69.1	68.0	13.1	14.1	14.0	72.5	73.8	74.3
Wilmington	59.3	57.6	56.2	14.2	15.2	15.0	58.4	59.5	59.9
District of Columbia	16.3	16.6	16.5	24.6	25.2	25.0	62.6	64.4	64.0
Washington MSA	86.2	88.5	88.0	102.3	108.0	108.0	413.6	429.1	428.9
Florida	528.3	535.5	537.1	256.5	260.7	260.7	1,304.7	1,375.3	1,377.1
Daytona Beach	11.7	11.5	11.5	3.4	3.5	3.5	32.8	34.8	34.8
Fort Lauderdale-Hollywood-Pompano Beach	45.6	46.0	46.5	22.6	23.2	23.3	137.2	143.6	144.2
Fort Myers-Cape Coral	5.4	5.5	5.5	4.8	5.0	5.0	30.3	33.4	33.1
Jacksonville	38.6	39.7	40.1	28.0	28.1	28.2	107.0	112.5	112.8
Melbourne-Titusville-Palm Bay	28.3	30.0	30.2	5.9	6.1	5.9	33.3	34.6	34.8
Miami-Hialeah	95.2	95.5	95.4	69.0	68.0	68.1	221.5	221.3	221.8
Orlando	53.9	54.9	55.0	24.9	25.9	25.8	124.9	131.0	131.4
Pensacola	11.6	11.3	11.5	6.0	6.3	6.3	32.9	33.8	34.1
Sarasota	8.8	9.2	9.0	3.5	3.5	3.5	30.3	31.4	31.2
Tallahassee	4.6	4.6	4.6	3.1	3.2	3.2	22.8	23.3	23.3
Tampa-St. Petersburg-Clearwater	92.0	94.2	94.9	38.3	39.6	39.2	219.0	227.4	226.0
West Palm Beach-Boca Raton-Delray Beach	35.6	35.4	36.0	11.9	12.3	12.4	84.3	90.5	90.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Alabama	71.3	71.4	70.9	278.1	283.3	284.5	293.7	305.4	293.9
Birmingham	29.4	29.8	29.7	94.1	96.0	96.3	59.3	62.1	61.4
Huntsville	3.6	3.8	3.8	28.0	30.0	30.2	28.7	29.0	28.5
Mobile	8.2	7.9	7.9	36.7	37.4	37.5	26.9	30.2	28.6
Montgomery	7.6	7.7	7.7	26.0	25.8	25.8	31.8	31.9	31.0
Tuscaloosa	2.1	2.2	2.2	8.3	8.1	8.5	18.0	18.5	18.9
Alaska	11.1	10.9	10.9	43.7	44.0	44.1	63.1	62.8	63.8
Arizona	95.4	92.5	92.0	343.8	356.1	355.4	209.2	212.8	219.3
Phoenix	75.5	73.6	73.2	231.0	240.7	239.5	108.2	114.1	114.7
Tucson	12.8	12.3	12.2	64.0	65.9	65.9	44.1	43.2	46.0
Arkansas	38.3	38.3	38.4	155.9	162.3	161.9	136.8	136.9	137.5
Fayetteville-Springdale	1.5	1.4	1.5	7.2	7.3	7.4	9.3	9.4	9.6
Fort Smith	2.7	2.7	2.6	16.6	17.4	17.1	6.6	6.9	6.8
Little Rock-North Little Rock	16.0	16.3	16.4	53.0	55.2	55.6	43.9	43.5	44.1
Pine Bluff	1.5	1.5	1.5	6.2	6.4	6.4	6.9	6.9	7.0
California	811.6	825.1	826.7	2,908.7	3,012.6	3,019.8	1,773.6	1,873.2	1,844.7
Anaheim-Santa Ana	92.0	90.2	90.6	267.9	272.9	272.9	105.9	107.7	107.6
Bakersfield	6.3	6.2	6.2	32.7	33.0	32.5	37.4	38.3	38.6
Fresno	13.5	12.8	12.7	49.1	49.6	49.5	39.7	43.1	41.3
Los Angeles-Long Beach	286.2	294.4	295.6	1,044.9	1,071.8	1,074.7	465.3	501.7	488.4
Modesto	4.6	4.6	4.7	21.5	22.4	22.4	16.0	16.7	16.5
Oakland	54.8	56.4	56.3	185.3	193.8	193.7	151.1	156.4	154.0
Oxnard-Ventura	10.4	10.9	10.7	48.2	51.1	51.3	38.2	41.3	40.8
Riverside-San Bernardino	26.7	27.8	28.1	140.3	146.9	146.6	111.5	119.4	118.0
Sacramento	33.8	35.1	35.2	118.0	126.1	127.0	157.6	163.7	163.7
San Diego	61.3	63.1	63.1	231.3	241.0	243.3	146.0	152.9	152.9
San Francisco	113.1	113.9	114.0	282.6	294.8	294.1	128.3	130.5	129.2
San Jose	35.0	34.8	35.0	196.7	205.4	204.6	81.0	83.7	82.4
Santa Barbara-Santa Maria-Lompoc	8.8	8.7	8.7	39.4	40.5	40.9	25.2	25.1	25.2
Santa Rosa-Petaluma	8.5	8.8	8.8	28.4	29.0	29.3	19.6	20.1	19.9
Stockton	8.8	8.4	8.4	29.7	30.5	30.5	28.1	30.5	30.0
Vallejo-Fairfield-Napa	4.6	4.4	4.5	28.3	30.0	29.8	35.2	36.4	35.5
Colorado	99.4	97.2	97.3	336.2	336.2	335.5	242.8	246.7	246.8
Boulder-Longmont	4.2	4.1	4.1	21.7	22.0	22.1	19.1	20.2	19.7
Denver	67.4	66.5	66.5	198.6	198.6	198.1	116.0	117.0	118.3
Connecticut	152.4	154.0	153.4	389.1	402.5	402.1	193.0	199.2	195.9
Bridgeport-Milford	11.9	12.7	12.7	45.9	46.7	46.6	17.6	18.3	18.1
Hartford	78.6	80.6	80.5	107.7	110.9	110.7	58.6	59.1	59.2
New Haven-Meriden	15.2	15.9	15.9	68.3	71.4	71.2	30.6	30.8	30.9
Stamford	13.2	13.6	13.8	37.9	39.2	39.4	10.2	10.0	9.9
Waterbury	4.5	4.8	4.6	21.3	22.2	22.3	12.2	13.1	13.0
Delaware	27.2	28.9	29.3	75.0	80.5	80.6	45.1	48.0	46.2
Wilmington	24.1	25.6	25.8	65.7	70.0	70.6	34.7	37.7	35.8
District of Columbia	37.5	38.0	37.8	229.6	242.0	242.0	287.9	284.0	283.2
Washington MSA	127.1	131.7	131.1	668.9	701.5	701.4	566.5	570.7	565.1
Florida	364.1	371.7	370.6	1,307.1	1,392.8	1,397.6	681.8	724.2	717.2
Daytona Beach	6.5	6.5	6.5	31.0	32.5	32.0	16.6	18.5	18.1
Fort Lauderdale-Hollywood-Pompano Beach	39.9	41.8	41.7	122.9	130.7	131.3	53.2	57.5	57.1
Fort Myers-Cape Coral	8.1	8.3	8.3	29.6	32.7	32.6	14.2	15.3	15.4
Jacksonville	37.9	39.8	39.7	100.5	108.8	109.7	53.2	56.0	55.7
Melbourne-Titusville-Palm Bay	5.4	5.7	5.7	41.4	44.2	44.5	20.1	21.1	21.1
Miami-Hialeah	68.4	68.2	68.4	222.3	226.6	227.5	101.3	103.9	101.9
Orlando	33.7	36.2	36.2	154.8	162.1	161.6	47.7	52.0	50.8
Pensacola	5.7	5.8	5.8	31.2	31.4	31.7	27.0	27.6	27.4
Sarasota	8.6	8.7	8.6	30.0	32.0	32.4	11.2	11.6	11.5
Tallahassee	5.1	5.0	5.0	22.0	22.6	22.6	42.6	45.4	44.8
Tampa-St. Petersburg-Clearwater	66.1	67.1	67.1	219.2	226.2	225.8	93.4	98.0	96.1
West Palm Beach-Boca Raton-DeLray Beach	28.9	28.2	28.5	93.0	100.6	100.6	34.4	38.3	38.7

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	Total			Mining			Construction		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Georgia	2,776.6	2,795.1	2,794.4	8.4	8.6	8.6	155.2	152.2	151.9
Athens	62.0	61.9	62.0	.2	.2	.2	2.5	2.4	2.4
Atlanta	1,375.6	1,391.4	1,388.2	1.4	1.4	1.4	75.1	73.2	73.0
Augusta	157.0	157.9	157.6	.5	.5	.5	9.8	9.9	9.8
Columbus	92.3	92.2	92.4	.1	.1	.1	5.4	5.2	5.3
Macon-Warner Robins	118.2	118.3	118.3	.1	.1	.1	5.1	5.0	5.0
Savannah	102.0	102.4	102.3	(¹)	(¹)	(¹)	6.7	6.8	6.7
Hawaii	459.8	468.7	468.3	(¹)	(¹)	(¹)	21.4	21.0	21.1
Honolulu	366.2	373.8	373.0	(¹)	(¹)	(¹)	16.9	16.8	16.9
Idaho	334.4	343.8	342.8	2.8	3.2	3.3	15.5	15.9	16.4
Boise City	87.5	90.2	91.4	(²)	(²)	(²)	4.6	4.6	4.8
Illinois	4,913.5	5,032.0	5,036.6	24.5	24.1	24.0	206.1	222.0	226.2
Aurora-Elgin	134.2	140.3	140.2	(¹)	(¹)	(¹)	6.8	7.4	7.5
Bloomington-Normal	54.6	55.2	56.1	(¹)	(¹)	(¹)	1.8	1.8	1.8
Champaign-Urbana-Rantoul	79.6	81.7	80.0	(¹)	(¹)	(¹)	2.5	2.5	2.5
Chicago	3,029.0	3,113.6	3,112.8	2.5	2.5	2.5	125.9	135.0	135.7
Davenport-Rock Island-Moline	155.2	155.4	155.5	(¹)	(¹)	(¹)	4.9	4.8	4.9
Decatur	50.1	50.4	50.3	(¹)	(¹)	(¹)	2.0	1.9	1.9
Joliet	96.0	96.2	96.4	(¹)	(¹)	(¹)	5.7	5.4	5.7
Lake County	187.0	196.1	196.4	(¹)	(¹)	(¹)	9.4	10.2	10.3
Peoria	133.2	137.2	137.2	(¹)	(¹)	(¹)	5.4	5.6	5.6
Rockford	125.1	124.8	127.8	(¹)	(¹)	(¹)	4.9	4.7	4.7
Springfield	103.4	99.2	104.6	(¹)	(¹)	(¹)	3.4	3.2	3.4
Indiana	2,324.0	2,399.7	2,409.8	9.0	8.5	8.4	110.4	121.2	123.5
Anderson	48.4	47.6	47.8	(²)	(²)	(²)	1.5	1.5	1.6
Bloomington	48.4	51.6	52.1	(²)	(²)	(²)	2.4	2.7	2.8
Elkhart-Goshen	98.7	103.7	103.9	(²)	(²)	(²)	3.0	3.1	3.1
Evansville	126.4	130.0	130.2	2.3	2.1	2.1	7.9	7.6	7.9
Fort Wayne	185.8	196.6	197.4	(²)	(²)	(²)	10.1	11.9	12.0
Gary-Hammond	221.8	230.8	228.8	(²)	(²)	(²)	12.5	13.8	14.3
Indianapolis	609.6	631.3	634.2	.8	.9	.8	32.9	34.9	35.3
Lafayette	60.1	63.3	62.8	(²)	(²)	(²)	3.0	3.7	4.0
Muncie	48.0	49.9	49.7	(²)	(²)	(²)	2.2	2.3	2.3
South Bend-Mishawaka	110.1	112.7	113.2	(²)	(²)	(²)	5.6	6.3	6.4
Terre Haute	51.9	52.0	51.5	.3	.3	.3	2.1	2.6	2.5
Iowa	1,103.5	1,128.9	1,127.3	2.5	2.4	2.4	40.0	39.5	40.0
Cedar Rapids	85.7	89.8	90.3	.2	.1	.1	3.7	3.2	3.4
Des Moines	207.3	216.1	216.1	(¹)	(¹)	(¹)	8.8	8.3	8.3
Dubuque	41.9	42.3	42.5	(¹)	(¹)	(¹)	1.5	1.4	1.4
Sioux City	51.6	53.5	52.6	(¹)	(¹)	(¹)	2.2	1.9	1.8
Waterloo-Cedar Falls	59.1	61.4	61.1	(¹)	(¹)	(¹)	2.1	2.3	2.4
Kansas	990.9	1,008.0	1,014.2	11.8	11.6	11.5	48.1	46.2	46.1
Topeka	85.9	88.3	88.6	(¹)	(¹)	(¹)	3.8	3.6	3.4
Wichita	227.1	231.4	231.3	2.5	2.5	2.4	10.6	10.4	10.4
Kentucky	1,311.3	1,348.4	1,353.0	39.0	36.3	36.1	62.8	67.1	66.6
Lexington-Fayette	171.8	176.9	177.3	.7	.5	.5	10.9	9.6	9.4
Louisville	439.0	458.9	456.8	.5	.4	.4	24.1	26.0	25.6
Owensboro	33.7	33.4	34.0	.9	.7	.8	2.3	2.4	2.4
Louisiana	1,477.9	1,495.5	1,496.0	55.3	55.1	54.7	81.7	83.7	84.8
Alexandria	45.7	45.5	45.5	.2	.2	.2	2.5	2.5	2.5
Baton Rouge	209.6	210.9	211.2	.8	.8	.8	19.3	21.5	21.8
Houma-Thibodaux	52.1	53.5	53.0	5.8	6.2	6.1	1.5	1.8	1.8
Lafayette	81.2	84.1	83.4	10.5	10.6	10.5	3.4	3.0	2.9
Monroe	54.0	53.6	52.7	.3	.4	.4	2.8	2.7	2.7
New Orleans	511.5	517.3	519.0	14.7	15.2	15.4	21.9	22.6	22.5
Shreveport	131.0	131.6	131.6	3.4	3.0	2.9	7.4	7.7	7.9
Maine	514.9	530.1	538.4	.2	.1	.1	34.6	37.9	38.2
Lewiston-Auburn	39.0	40.0	40.4	(¹)	(¹)	(¹)	2.4	2.6	2.6
Portland	125.9	129.0	129.9	(¹)	(¹)	(¹)	10.0	10.2	10.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Georgia	571.2	567.0	562.7	176.3	178.4	178.4	696.1	697.3	698.9
Athens	15.4	15.2	15.5	1.8	1.8	1.8	13.0	12.8	12.7
Atlanta	186.9	185.7	181.1	116.4	120.2	120.4	379.4	380.1	381.8
Augusta	35.8	36.5	36.6	5.3	5.2	5.1	34.3	33.4	33.4
Columbus	20.2	20.1	20.1	3.7	3.6	3.5	20.5	20.2	20.1
Macon-Warner Robins	18.6	18.3	18.3	4.9	4.9	4.9	26.9	26.9	26.9
Savannah	17.2	16.6	16.6	9.3	9.1	8.9	25.2	25.2	25.4
Hawaii	22.6	22.5	22.2	36.7	36.5	36.8	123.7	126.7	126.3
Honolulu	16.7	16.7	16.3	30.1	30.3	30.6	96.9	99.3	99.1
Idaho	53.7	58.1	57.0	18.4	18.3	18.4	86.2	86.7	86.4
Boise City	11.3	12.8	12.9	5.2	5.2	5.3	23.0	23.3	23.4
Illinois	934.1	947.0	950.1	296.4	300.2	302.0	1,230.8	1,269.6	1,270.6
Aurora-Elgin	36.4	37.8	37.5	3.1	3.1	3.1	37.9	39.3	39.4
Bloomington-Normal	5.1	6.2	6.1	2.8	2.6	2.6	12.7	12.8	12.8
Champaign-Urbana-Rantoul	8.0	8.3	8.2	2.3	2.3	2.3	19.1	19.0	19.1
Chicago	550.5	550.0	552.6	194.2	194.3	196.1	758.5	784.6	787.1
Davenport-Rock Island-Moline	32.9	32.6	32.7	8.2	8.3	8.2	42.3	42.5	42.5
Decatur	13.4	13.4	13.4	4.9	4.8	4.8	11.2	11.5	11.4
Joliet	19.5	19.8	19.9	8.4	8.2	8.2	22.8	22.9	22.9
Lake County	42.4	44.1	44.6	6.5	7.2	7.0	50.4	53.2	53.3
Peoria	31.3	34.4	34.6	6.8	6.7	6.6	33.1	33.6	33.1
Rockford	42.7	41.8	44.9	4.4	4.4	4.4	29.0	29.1	29.1
Springfield	3.8	3.9	3.9	4.8	4.9	4.9	24.3	22.1	24.1
Indiana	621.5	633.2	636.6	122.5	130.6	131.2	557.5	576.4	579.6
Anderson	17.3	16.0	16.4	1.5	1.5	1.5	11.4	11.5	11.5
Bloomington	8.8	9.6	9.7	1.7	1.8	1.8	11.6	11.9	12.1
Elkhart-Goshen	53.7	57.0	57.1	2.9	2.9	2.9	18.6	19.1	19.2
Evansville	30.6	31.1	31.1	6.6	6.7	6.7	33.3	34.5	34.8
Fort Wayne	50.9	52.5	52.5	12.2	12.8	12.8	46.6	49.6	49.7
Gary-Hammond	55.9	56.6	56.9	15.1	15.2	15.2	53.7	55.4	55.6
Indianapolis	107.2	105.6	105.7	37.6	39.1	38.9	158.5	165.4	166.0
Lafayette	11.8	12.3	12.5	2.0	2.0	2.0	13.0	12.9	13.0
Muncie	10.5	10.7	10.7	2.3	2.5	2.5	12.6	12.9	12.9
South Bend-Mishawaka	23.8	23.0	23.3	5.0	5.2	5.2	29.7	30.8	30.9
Terre Haute	10.5	10.0	10.0	2.8	2.8	2.8	14.8	15.3	15.3
Iowa	216.6	225.9	226.5	53.9	55.1	55.2	285.1	292.7	292.9
Cedar Rapids	22.1	23.9	24.1	5.7	6.5	6.6	21.1	21.9	22.1
Des Moines	24.1	26.1	25.4	12.2	12.7	12.7	55.1	57.3	58.2
Dubuque	12.8	13.1	13.3	1.7	1.9	1.9	9.8	9.9	9.9
Sioux City	10.2	10.7	10.3	3.1	3.2	3.2	13.5	14.2	14.2
Waterloo-Cedar Falls	13.5	15.0	14.8	1.7	1.8	1.8	14.8	15.2	15.3
Kansas	177.2	181.5	181.0	61.4	61.0	61.1	252.8	256.6	257.7
Topeka	8.8	9.0	8.8	6.7	6.5	6.5	19.6	20.6	20.7
Wichita	60.3	60.4	60.2	10.8	10.7	10.7	53.1	54.0	54.0
Kentucky	261.6	272.4	274.3	67.8	68.6	68.6	317.2	329.6	331.6
Lexington-Fayette	27.6	30.2	30.3	7.6	8.0	8.1	41.7	44.1	44.4
Louisville	86.3	88.1	88.0	27.8	29.8	30.2	108.6	115.1	115.2
Owensboro	6.0	5.9	6.0	2.2	2.2	2.2	8.5	8.4	8.5
Louisiana	164.0	168.5	168.9	104.5	104.9	105.5	364.9	364.1	364.8
Alexandria	3.5	3.5	3.4	2.2	2.2	2.2	11.1	11.2	11.2
Baton Rouge	18.4	18.8	18.7	10.2	10.4	10.5	51.3	51.8	51.8
Houma-Thibodaux	4.3	4.4	4.3	5.5	6.3	6.3	13.9	13.6	13.5
Lafayette	5.8	6.1	5.9	5.7	6.1	6.1	21.7	23.4	23.2
Monroe	7.0	6.8	7.1	2.9	2.7	2.6	14.5	14.0	13.9
New Orleans	41.6	43.5	43.3	43.3	43.9	44.2	134.8	132.8	133.5
Shreveport	17.7	17.4	17.3	8.4	8.0	8.1	32.6	32.0	31.7
Maine	105.5	103.1	110.9	20.9	21.7	21.7	131.7	137.0	137.3
Lewiston-Auburn	10.4	9.9	10.5	1.4	1.5	1.5	9.7	10.1	10.1
Portland	15.9	16.7	16.9	6.1	5.9	5.9	37.5	38.0	38.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Georgia	158.1	157.9	157.8	543.1	558.1	558.0	468.3	475.5	478.0
Athens	2.0	1.9	1.9	9.7	9.8	9.8	17.5	17.7	17.8
Atlanta	99.8	100.5	100.5	325.5	333.5	333.2	191.2	196.9	196.8
Augusta	6.4	6.2	6.1	32.2	32.9	32.7	32.6	33.3	33.3
Columbus	6.3	6.1	6.1	16.0	16.6	16.6	20.1	20.4	20.4
Macon-Warner Robins	7.6	7.8	7.8	22.3	22.6	22.5	32.7	32.6	32.7
Savannah	4.6	4.3	4.4	23.8	24.2	24.1	15.1	16.2	16.2
Hawaii	34.3	34.9	34.8	127.1	130.4	130.3	94.0	96.7	96.8
Honolulu	28.8	29.3	29.1	98.4	100.6	100.5	78.4	80.8	80.5
Idaho	19.4	19.3	19.3	69.8	71.4	71.8	68.6	70.9	70.2
Boise City	7.6	7.7	7.6	19.6	20.1	20.6	16.2	16.5	16.8
Illinois	363.6	367.7	366.5	1,170.9	1,210.4	1,209.9	687.1	691.0	687.3
Aurora-Elgin	6.4	6.7	6.6	30.3	32.4	32.6	13.2	13.5	13.4
Bloomington-Normal	9.4	9.6	9.6	12.0	12.1	12.1	11.0	10.1	11.1
Champaign-Urbana-Rantoul	3.3	3.4	3.4	16.4	16.7	16.8	28.0	29.5	27.7
Chicago	261.3	267.0	267.0	793.5	822.9	824.3	342.6	357.3	347.5
Davenport-Rock Island-Moline	8.0	8.2	8.2	31.5	31.6	31.7	27.4	27.4	27.3
Decatur	2.7	2.7	2.7	10.7	10.8	10.8	5.2	5.3	5.3
Joliet	3.9	3.8	3.9	20.4	20.3	20.2	15.0	15.5	15.3
Lake County	6.9	6.9	6.9	43.2	45.1	45.1	27.6	28.8	28.6
Peoria	7.0	7.0	7.0	34.4	34.9	34.8	15.2	15.0	15.5
Rockford	5.3	5.4	5.4	27.1	27.6	27.6	11.7	11.8	11.7
Springfield	7.9	8.1	8.1	26.7	24.3	26.6	32.4	32.6	33.5
Indiana	118.6	122.3	122.3	456.9	477.7	477.7	327.6	329.7	330.5
Anderson	1.6	1.7	1.7	9.6	9.7	9.7	5.5	5.7	5.5
Bloomington	1.9	2.0	2.1	7.9	8.4	8.4	14.1	15.3	15.3
Elkhart-Goshen	2.5	2.7	2.8	13.0	13.7	13.7	5.0	5.0	5.1
Evansville	5.2	5.4	5.4	29.6	31.0	30.8	10.9	11.7	11.4
Fort Wayne	12.4	12.3	12.2	38.3	41.0	41.5	15.4	16.5	16.6
Gary-Hammond	8.5	8.6	8.6	48.0	49.7	49.8	28.1	31.6	28.4
Indianapolis	47.0	49.7	49.7	138.0	146.2	147.0	87.7	89.5	90.9
Lafayette	3.1	3.2	3.2	11.3	11.6	11.5	15.9	17.6	16.6
Muncie	1.7	1.7	1.7	10.6	10.9	11.0	8.1	8.9	8.6
South Bend-Mishawaka	6.4	6.6	6.6	29.5	30.7	30.8	10.1	10.2	10.1
Terre Haute	2.0	2.1	2.0	10.7	9.6	9.6	8.7	9.3	8.9
Iowa	65.8	67.4	67.6	244.4	248.5	248.3	195.2	197.4	194.4
Cedar Rapids	5.0	5.0	5.0	19.1	19.9	19.9	8.8	9.3	9.1
Des Moines	27.5	29.8	30.1	51.7	53.8	53.5	27.7	27.9	27.7
Dubuque	1.4	1.5	1.5	11.5	11.4	11.5	3.1	3.0	2.9
Sioux City	2.7	2.6	2.6	13.6	14.4	14.0	6.3	6.5	6.5
Waterloo-Cedar Falls	3.0	2.8	2.8	13.6	13.7	13.6	10.3	10.5	10.3
Kansas	57.3	57.7	57.5	201.4	208.6	209.6	180.9	184.8	189.7
Topeka	6.3	6.7	6.6	20.7	21.3	21.3	19.9	20.5	21.2
Wichita	11.6	11.4	11.4	52.9	55.9	56.0	25.3	26.1	26.2
Kentucky	61.9	62.7	62.6	275.1	283.9	285.8	225.9	227.8	227.4
Lexington-Fayette	9.3	9.4	9.4	40.1	40.9	40.7	33.9	34.2	34.5
Louisville	29.2	30.1	30.1	103.9	107.9	108.1	58.6	61.5	59.2
Owensboro	1.5	1.5	1.5	7.6	7.9	8.1	4.7	4.4	4.5
Louisiana	85.2	84.4	84.2	319.8	329.0	330.1	302.5	305.8	303.0
Alexandria	2.7	2.6	2.6	11.2	11.4	11.4	12.3	11.9	12.0
Baton Rouge	13.7	13.4	13.5	43.5	44.0	43.9	52.4	50.2	50.2
Houma-Thibodaux	2.4	2.2	2.2	8.6	9.1	9.0	10.1	9.9	9.8
Lafayette	3.8	3.6	3.7	18.1	18.7	18.8	12.2	12.6	12.3
Monroe	4.7	4.5	4.5	11.7	11.7	11.7	10.1	10.8	9.8
New Orleans	34.4	33.7	33.6	131.3	137.0	137.9	89.5	88.6	88.6
Shreveport	7.5	7.2	7.1	32.3	33.1	33.2	21.7	23.2	23.4
Maine	25.6	25.7	25.6	117.6	123.7	124.4	78.8	80.9	80.2
Lewiston-Auburn	2.2	2.5	2.4	9.6	10.0	10.0	3.3	3.4	3.3
Portland	12.7	12.9	13.0	29.9	31.3	31.2	13.8	14.0	14.0

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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Maryland	2,031.9	2,039.6	2,036.3	1.9	1.9	1.8	157.2	155.4	156.1
Baltimore MSA	1,089.8	1,089.7	1,085.8	.3	.3	.3	75.7	75.7	75.8
Baltimore City	460.7	461.5	460.9	(¹)	(¹)	(¹)	20.5	19.9	20.3
Suburban Maryland-D.C.	712.4	722.3	722.3	.7	.6	.6	65.0	63.9	63.7
Massachusetts	3,053.8	3,119.1	3,125.9	1.9	2.0	2.0	149.1	162.2	164.3
Boston	1,695.8	1,730.0	1,726.5	.9	1.1	1.1	73.7	78.3	79.2
Brockton	71.8	74.0	74.2	(¹)	(¹)	(¹)	4.1	4.6	4.6
Fall River	55.5	54.3	55.8	(¹)	(¹)	(¹)	2.5	2.8	2.9
Fitchburg-Leominster	38.8	38.6	39.1	(¹)	(¹)	(¹)	2.8	3.0	3.1
Lawrence-Haverhill	160.9	162.6	162.9	(¹)	(¹)	(¹)	8.8	9.0	9.1
Lowell	103.7	105.1	105.4	.2	.1	.1	5.9	6.7	6.7
New Bedford	66.6	68.0	69.0	(¹)	(¹)	(¹)	3.4	3.9	3.7
Springfield	234.5	239.6	238.8	.1	.1	.1	10.9	11.0	11.2
Worcester	197.4	204.1	204.2	.1	.2	.2	10.1	11.1	11.3
Michigan	3,680.2	3,724.0	3,711.1	10.4	10.5	10.5	135.2	143.2	146.3
Ann Arbor	157.0	166.4	165.9	(¹)	(¹)	(¹)	5.9	6.9	6.8
Battle Creek	57.6	58.1	58.2	(¹)	(¹)	(¹)	2.1	2.4	2.4
Benton Harbor	63.3	64.8	64.9	(¹)	(¹)	(¹)	1.7	1.6	1.7
Detroit	1,839.7	1,863.5	1,854.6	.9	.9	.9	65.1	67.4	69.0
Flint	170.7	164.9	161.5	(¹)	(¹)	(¹)	4.8	4.6	4.8
Grand Rapids	311.3	321.8	323.6	(¹)	(¹)	(¹)	15.3	16.2	16.4
Kalamazoo	101.7	103.9	103.9	(¹)	(¹)	(¹)	3.4	3.4	3.5
Lansing-East Lansing	194.2	200.0	197.6	(¹)	(¹)	(¹)	6.0	6.2	6.5
Muskegon	57.1	57.2	57.8	(¹)	(¹)	(¹)	2.3	2.4	2.5
Saginaw-Bay City-Midland	154.6	157.1	157.9	(¹)	(¹)	(¹)	6.6	7.8	7.6
Minnesota	1,977.0	2,025.5	2,034.3	7.0	7.5	7.5	94.8	88.8	90.7
Duluth	88.9	89.6	89.7	4.3	4.8	4.8	5.3	3.7	4.0
Minneapolis-St. Paul	1,284.2	1,317.9	1,317.5	(¹)	(¹)	(¹)	59.7	58.9	59.9
Rochester	57.3	58.8	59.3	(²)	(²)	(²)	2.1	2.1	2.3
St. Cloud	67.8	70.1	70.0	(²)	(²)	(²)	4.5	4.1	4.2
Mississippi	857.8	876.8	875.2	6.2	6.4	6.4	35.7	34.9	34.7
Jackson	175.4	179.6	179.9	.9	1.2	1.1	8.8	8.9	8.7
Missouri	2,184.3	2,202.8	2,208.7	5.7	5.6	5.7	105.6	105.1	106.9
Kansas City	727.9	735.5	736.1	.5	.5	.5	38.3	38.4	38.7
St. Louis	1,124.8	1,140.2	1,139.1	3.5	3.5	3.4	59.3	60.0	60.4
Springfield	106.3	110.2	111.4	.1	.1	.1	5.5	6.0	6.2
Montana	275.6	272.1	275.2	6.2	6.2	6.5	10.2	9.7	10.4
Nebraska	658.2	665.1	666.5	1.8	1.9	1.8	26.2	25.7	25.8
Lincoln	108.9	111.1	111.4	(¹)	(¹)	(¹)	4.5	4.6	4.6
Omaha	299.8	306.2	306.7	.2	.2	.2	12.9	12.7	12.7
Nevada	507.6	535.3	536.6	8.3	11.0	11.1	31.7	35.1	35.5
Las Vegas	285.8	302.1	302.8	.3	.3	.3	19.4	21.0	21.0
Reno	134.9	140.0	140.5	.9	1.1	1.2	7.5	8.6	8.8
New Hampshire	526.2	539.0	544.1	.7	.8	.8	41.3	43.1	43.3
Nashua	93.5	95.2	95.8	.1	.1	.1	5.6	6.0	5.9
Portsmouth-Dover-Rochester	113.4	114.4	116.5	.1	.1	.1	6.6	7.0	6.9
New Jersey	3,624.5	3,706.2	3,711.3	2.4	2.5	2.6	178.8	192.8	194.0
Atlantic City	180.5	184.0	183.6	(¹)	(¹)	(¹)	10.6	11.2	10.9
Bergen-Passaic	669.3	683.5	685.2	.1	.2	.2	32.6	33.8	34.0
Camden	422.4	437.2	437.7	.1	.1	.1	26.4	29.1	29.7
Jersey City	242.6	246.7	249.9	(¹)	(¹)	(¹)	7.1	8.2	8.4
Middlesex-Somerset-Hunterdon	517.2	536.5	536.1	.6	.7	.7	24.2	25.6	25.7
Monmouth-Ocean	337.3	347.7	347.4	(¹)	(¹)	(¹)	22.4	26.0	25.9
Newark	958.0	975.9	974.4	.8	.7	.7	40.4	44.8	45.0
Trenton	192.7	198.7	198.1	(¹)	(¹)	(¹)	5.5	6.0	6.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Maryland	207.6	207.8	208.0	93.1	93.1	93.0	524.6	525.9	526.3
Baltimore MSA	131.8	131.1	130.7	53.4	52.9	52.7	269.1	270.5	270.2
Baltimore City	44.4	44.2	44.1	28.0	27.8	27.6	98.3	98.2	98.0
Suburban Maryland-D.C.	34.2	36.0	36.1	27.2	27.9	27.9	190.3	194.2	194.5
Massachusetts	591.1	573.6	578.4	128.5	129.0	129.1	723.2	737.3	739.3
Boston	277.6	273.3	273.8	74.1	75.3	75.4	380.7	385.4	385.0
Brockton	11.4	11.1	11.4	4.9	4.9	4.9	21.9	23.3	23.3
Fall River	17.1	14.2	15.3	1.8	1.8	1.9	15.0	15.6	16.0
Fitchburg-Leominster	11.5	10.8	11.2	1.5	1.6	1.5	9.9	9.8	9.9
Lawrence-Haverhill	50.7	48.9	49.3	6.5	6.2	6.2	36.5	38.1	38.2
Lowell	35.8	35.4	35.6	3.5	3.2	3.2	21.8	22.2	22.4
New Bedford	19.2	18.2	19.0	2.8	3.1	3.0	16.5	17.0	17.2
Springfield	50.5	50.3	50.6	9.2	9.5	9.6	55.9	56.9	57.4
Worcester	45.9	45.6	45.8	8.7	8.5	8.4	47.2	47.6	47.8
Michigan	944.4	926.9	915.3	151.0	154.8	153.7	865.3	884.6	887.8
Ann Arbor	38.2	38.5	38.2	4.0	4.5	4.4	28.3	30.1	30.4
Battle Creek	15.9	15.4	15.3	1.9	1.9	1.9	11.5	11.9	12.1
Benton Harbor	21.3	21.2	21.0	2.4	2.5	2.5	13.5	14.1	14.3
Detroit	449.8	439.2	432.9	84.5	88.2	87.6	440.6	451.7	453.0
Flint	54.4	47.4	44.1	4.6	4.7	4.6	45.6	47.1	47.2
Grand Rapids	96.0	98.4	99.1	11.2	11.3	11.3	81.0	84.0	84.7
Kalamazoo	29.5	30.0	29.9	3.2	3.4	3.4	23.3	23.7	23.8
Lansing-East Lansing	33.7	32.9	30.9	5.8	5.6	5.6	41.1	43.3	43.4
Muskegon	17.5	17.0	17.4	2.4	2.4	2.3	12.8	13.1	13.1
Saginaw-Bay City-Midland	43.8	42.9	43.3	6.8	7.1	7.1	36.9	37.6	38.0
Minnesota	385.2	394.5	399.1	99.7	100.8	100.4	497.7	509.5	514.8
Duluth	7.7	7.9	7.8	5.9	6.1	6.1	22.4	22.2	22.1
Minneapolis-St. Paul	257.6	264.3	265.3	69.5	70.0	69.6	319.2	324.6	326.4
Rochester	11.0	11.7	11.7	1.7	1.7	1.7	11.6	11.6	11.7
St. Cloud	11.9	12.7	12.8	3.3	3.6	3.6	20.9	22.4	22.4
Mississippi	230.1	233.4	234.1	42.5	43.5	43.4	187.5	191.3	191.5
Jackson	20.9	21.0	21.1	12.7	13.1	13.2	42.4	43.4	43.3
Missouri	423.7	418.8	423.5	142.9	143.5	143.7	546.1	556.9	557.3
Kansas City	108.4	109.6	109.5	55.9	55.1	55.4	193.8	193.2	193.6
St. Louis	221.9	219.5	222.5	72.2	74.3	74.1	277.2	280.4	279.5
Springfield	20.9	21.5	21.8	7.0	7.3	7.3	30.5	31.5	31.7
Montana	21.6	20.4	20.3	19.6	19.2	19.2	75.4	74.2	75.1
Nebraska	90.6	92.4	93.3	43.2	44.3	44.4	170.6	170.5	171.8
Lincoln	13.4	14.1	14.3	5.9	5.9	5.9	25.3	25.1	25.3
Omaha	34.5	36.1	36.4	23.0	24.1	24.1	76.8	77.3	77.6
Nevada	23.8	24.5	24.5	27.9	28.6	28.6	103.8	109.0	109.7
Las Vegas	8.8	8.9	9.0	15.6	16.2	16.3	61.0	64.4	64.7
Reno	8.5	8.2	8.1	9.2	9.3	9.2	30.1	31.1	31.5
New Hampshire	118.5	117.4	121.0	16.9	17.2	17.2	134.3	138.0	138.6
Nashua	37.2	36.9	37.3	2.0	2.2	2.2	21.1	21.3	21.3
Portsmouth-Dover-Rochester	20.2	20.0	20.7	2.9	3.3	3.4	32.2	33.0	33.4
New Jersey	674.9	665.8	670.2	238.1	244.3	245.2	868.7	887.6	888.6
Atlantic City	8.4	8.5	8.1	6.2	6.3	6.3	44.6	47.7	47.2
Bergen-Passaic	160.8	158.9	161.0	28.5	28.0	27.9	191.5	195.4	195.0
Camden	71.1	70.0	69.8	18.2	19.0	19.0	113.8	118.5	119.0
Jersey City	49.7	47.1	48.9	31.1	30.8	31.2	58.6	61.0	61.3
Middlesex-Somerset-Hunterdon	113.3	115.8	116.9	43.0	44.3	44.3	123.9	129.1	128.5
Monmouth-Ocean	30.3	29.8	30.0	16.2	16.7	16.8	94.6	95.2	95.2
Newark	180.7	176.5	176.9	81.3	79.3	80.3	194.6	199.1	198.2
Trenton	30.7	31.4	31.1	6.3	6.6	6.6	31.1	32.2	32.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Maryland	125.8	128.1	127.6	547.8	553.2	552.8	373.8	374.2	370.7
Baltimore MSA	75.9	75.6	75.5	288.5	290.3	289.8	195.0	193.3	190.8
Baltimore City	44.2	44.8	44.9	138.9	140.0	139.7	86.4	86.5	86.2
Suburban Maryland-D.C.	42.0	43.3	43.3	212.2	214.6	213.9	140.7	141.8	142.3
Massachusetts	223.0	233.2	233.1	851.9	886.8	889.7	385.1	395.0	390.0
Boston	152.6	156.7	157.2	541.9	560.2	560.3	194.3	199.7	194.5
Brockton	3.2	3.3	3.3	15.0	15.6	15.8	11.3	11.2	10.9
Fall River	3.0	3.2	3.2	10.4	10.8	10.8	5.7	5.9	5.7
Fitchburg-Leominster	1.8	1.9	2.0	7.8	8.2	8.1	3.5	3.3	3.3
Lawrence-Haverhill	6.5	6.7	6.7	33.6	35.1	35.2	18.3	18.6	18.2
Lowell	4.3	4.3	4.3	20.1	20.5	20.5	12.1	12.7	12.6
New Bedford	2.5	2.7	2.7	13.0	13.7	13.8	9.2	9.4	9.6
Springfield	16.6	17.0	16.8	55.9	58.3	58.6	35.4	36.5	34.5
Worcester	14.4	15.4	15.6	48.1	51.8	52.2	22.9	23.9	22.9
Michigan	184.0	187.0	186.1	822.6	841.1	840.1	567.3	575.9	571.4
Ann Arbor	4.8	4.7	4.7	32.6	35.0	35.1	43.0	46.4	46.3
Battle Creek	3.4	3.3	3.3	11.7	11.9	11.9	11.1	11.3	11.3
Benton Harbor	2.6	2.7	2.7	13.7	14.2	14.3	8.0	8.3	8.2
Detroit	107.6	109.8	108.5	465.1	476.3	475.0	226.1	230.0	227.5
Flint	5.9	5.9	5.9	31.1	31.6	31.4	24.3	23.7	23.5
Grand Rapids	13.9	14.1	14.2	64.3	67.6	67.7	29.4	29.9	29.8
Kalamazoo	4.7	5.0	5.0	23.4	23.7	23.5	14.1	14.8	14.8
Lansing-East Lansing	11.6	12.3	12.4	36.7	39.3	39.1	58.9	60.1	59.5
Muskegon	1.4	1.4	1.4	12.0	12.1	12.3	8.6	8.8	8.8
Saginaw-Bay City-Midland	6.1	6.4	6.4	33.6	35.0	35.4	20.7	20.3	20.1
Minnesota	121.4	125.0	125.1	482.2	500.3	503.0	289.0	298.9	293.7
Duluth	3.2	3.3	3.3	20.9	21.6	21.8	19.4	20.1	19.7
Minneapolis-St. Paul	94.4	96.9	97.1	326.9	337.0	337.9	156.2	165.4	160.7
Rochester	1.6	1.7	1.6	24.2	24.8	25.0	5.1	5.2	5.2
St. Cloud	2.4	2.4	2.5	14.0	14.2	14.4	10.8	10.5	10.2
Mississippi	38.9	39.4	39.4	137.5	144.3	141.1	179.4	183.7	184.7
Jackson	14.5	14.5	14.5	38.5	40.0	40.1	36.7	37.6	37.9
Missouri	136.7	137.6	137.1	512.8	517.5	518.7	310.8	317.8	315.8
Kansas City	58.4	58.7	58.8	169.8	173.1	173.0	102.8	106.9	106.6
St. Louis	74.9	74.7	74.3	288.5	294.2	294.5	127.3	133.6	130.4
Springfield	4.8	4.7	4.7	26.7	27.4	27.9	10.8	11.7	11.7
Montana	13.3	12.7	12.7	65.8	66.5	67.0	63.5	63.2	64.0
Nebraska	48.3	48.2	48.4	148.8	150.6	151.0	128.7	131.5	130.0
Lincoln	8.1	8.8	8.9	23.0	23.0	23.1	28.7	29.6	29.3
Omaha	29.1	28.7	28.7	80.3	83.8	84.0	43.0	43.3	43.0
Nevada	24.0	25.3	25.3	227.9	238.7	238.8	60.2	63.1	63.1
Las Vegas	14.4	15.5	15.5	136.2	144.2	144.4	30.1	31.6	31.6
Reno	7.1	7.2	7.1	56.8	58.8	58.9	14.8	15.7	15.7
New Hampshire	32.7	34.5	34.5	120.0	125.2	126.6	61.8	62.8	62.1
Nashua	4.1	4.2	4.3	17.6	18.5	18.6	5.8	6.0	6.1
Portsmouth-Dover-Rochester	6.8	7.0	7.0	21.7	23.6	23.8	22.9	20.4	21.2
New Jersey	232.1	241.2	241.2	899.0	929.1	929.9	530.5	542.9	539.6
Atlantic City	7.8	7.6	7.7	78.2	78.6	79.4	24.6	24.0	23.9
Bergen-Passaic	38.7	41.1	41.1	152.7	160.0	159.9	64.0	66.1	66.1
Camden	25.2	26.6	26.6	100.2	103.9	103.5	67.4	70.0	70.0
Jersey City	13.2	13.9	13.9	41.6	43.0	43.1	41.3	42.7	43.1
Middlesex-Somerset-Hunterdon	36.1	36.8	36.8	107.9	114.8	114.6	68.2	69.4	68.6
Monmouth-Ocean	18.5	18.8	19.1	95.9	100.0	99.3	59.2	61.0	60.9
Newark	77.9	81.0	81.0	250.3	260.2	260.1	132.0	134.3	132.2
Trenton	9.6	9.8	9.7	54.5	56.8	56.9	55.0	55.9	55.7

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	Total			Mining			Construction		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
New Mexico	530.0	539.1	541.7	15.2	15.4	15.5	33.3	31.1	31.4
Albuquerque	231.0	235.4	235.6	.2	.2	.1	16.2	15.8	15.9
Las Cruces	39.2	39.5	40.1	.1	.1	.1	2.3	2.3	2.3
Santa Fe	55.0	57.4	57.1	.1	.1	.1	2.7	2.7	2.7
New York	8,078.2	8,210.9	8,224.7	6.3	6.3	6.4	357.5	366.5	372.4
Albany-Schenectady-Troy	409.4	413.6	416.5	.4	.4	.4	22.5	21.9	22.2
Binghamton	119.7	121.9	122.2	(¹)	(¹)	(¹)	5.7	5.7	5.7
Buffalo	435.1	445.5	446.7	.4	.4	.4	19.7	19.7	20.1
Elmira	38.6	40.6	40.6	(¹)	(¹)	(¹)	1.8	1.8	1.9
Nassau-Suffolk	1,128.9	1,150.3	1,145.6	.2	.2	.2	64.0	66.1	65.9
New York PMSA	4,086.9	4,153.5	4,158.1	1.2	1.2	1.2	158.9	163.7	164.2
New York City	3,554.9	3,612.0	3,618.0	.6	.7	.7	122.4	127.2	127.9
Niagara Falls	80.7	82.1	82.7	(¹)	(¹)	(¹)	3.7	3.7	3.9
Orange County	101.9	105.3	105.5	(¹)	(¹)	(¹)	6.2	6.8	7.0
Poughkeepsie	117.1	121.2	121.2	(²)	(²)	(²)	6.8	7.4	7.4
Rochester	462.8	469.8	470.4	.8	.7	.7	21.1	21.0	21.1
Rockland County	98.0	99.2	98.7	(²)	(²)	(²)	5.9	5.8	5.7
Syracuse	298.7	304.1	303.7	.3	.3	.3	17.0	18.4	18.7
Utica-Rome	122.5	125.2	125.6	.2	.2	.2	4.8	4.7	4.9
Westchester County	414.1	422.7	421.6	.3	.3	.3	28.9	28.7	28.5
North Carolina	2,839.6	2,910.1	2,923.8	5.0	5.1	5.1	163.9	172.8	172.5
Asheville	78.7	81.1	80.5	.1	.1	.1	4.4	4.5	4.5
Charlotte-Gastonia-Rock Hill	577.9	597.8	599.5	.4	.4	.4	35.5	39.3	39.1
Greensboro-Winston-Salem-High Point	459.3	465.4	464.5	.3	.3	.3	25.1	26.0	25.7
Raleigh-Durham	380.6	389.1	391.1	.4	.4	.4	22.1	22.8	22.8
North Dakota	252.2	257.0	255.6	4.4	4.2	4.3	13.6	12.2	12.2
Bismarck	37.3	37.2	37.5	.2	.2	.2	2.0	1.8	1.8
Fargo-Moorhead	68.9	71.4	71.2	(¹)	(¹)	(¹)	4.3	4.2	4.3
Grand Forks	28.8	29.6	28.9	(¹)	(¹)	(¹)	2.1	1.7	1.7
Ohio	4,591.0	4,692.8	4,699.6	21.1	20.5	20.6	196.8	209.0	212.2
Akron	262.3	269.7	268.7	.5	.6	.6	9.8	10.5	10.6
Canton	157.1	161.3	161.1	1.0	1.1	1.1	7.0	8.3	8.3
Cincinnati	686.1	700.3	703.7	.5	.6	.6	32.2	34.4	35.2
Cleveland	899.1	918.7	918.1	1.1	.9	1.0	31.2	31.9	32.1
Columbus	657.4	678.4	682.5	1.0	1.0	1.0	29.7	31.7	32.5
Dayton-Springfield	426.3	433.7	434.1	.4	.4	.4	18.0	19.7	20.2
Toledo	277.7	288.5	288.2	.3	.3	.3	11.6	13.3	13.5
Youngstown-Warren	185.5	193.2	194.8	.7	.6	.6	8.5	9.2	9.3
Oklahoma	1,096.2	1,103.1	1,101.1	46.1	44.0	43.3	35.1	34.0	34.3
Enid	21.6	21.6	21.4	1.0	.9	1.0	.7	.6	.6
Lawton	32.8	32.9	32.5	.2	.2	.2	1.2	1.2	1.1
Oklahoma City	397.7	396.2	395.6	11.3	11.0	10.8	13.4	12.9	12.8
Tulsa	288.7	291.1	290.2	15.6	15.1	14.9	10.3	10.3	10.4
Oregon	1,101.6	1,135.7	1,147.8	1.5	1.5	1.5	39.2	40.2	41.4
Eugene-Springfield	103.3	106.1	106.7	.2	.2	.2	3.7	3.6	3.7
Portland	558.5	572.8	575.9	.5	.5	.5	21.8	21.5	22.0
Salem	100.6	97.3	102.5	.1	.1	.1	3.6	3.7	3.7
Pennsylvania	4,936.8	5,051.2	5,056.4	31.1	29.9	29.7	245.6	256.9	259.2
Allentown-Bethlehem	273.6	275.7	277.4	.6	.6	.6	14.2	15.4	15.4
Altoona	52.6	52.9	53.5	(²)	(²)	(²)	2.9	2.8	2.8
Beaver County	50.1	51.9	51.9	(²)	(²)	(²)	3.9	4.7	4.6
Erie	110.8	112.6	113.2	.2	.3	.2	4.1	4.1	4.3
Harrisburg-Lebanon-Carlisle	297.5	302.1	303.3	.3	.3	.3	12.9	13.6	13.7
Johnstown	78.9	79.8	80.1	3.8	3.7	3.7	3.4	3.4	3.4
Lancaster	181.0	185.6	186.0	.4	.4	.4	11.4	12.1	12.1
Philadelphia PMSA	2,149.9	2,190.6	2,191.4	1.1	1.1	1.1	109.9	119.2	119.8
Philadelphia City	775.5	777.6	779.2	(²)	(²)	(²)	18.2	17.9	18.5
Pittsburgh	851.3	868.0	864.2	5.8	5.5	5.5	45.3	44.3	44.2

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p
New Mexico	39.7	40.4	41.3	28.3	27.8	28.0	130.4	133.3	134.4
Albuquerque	20.2	20.5	20.6	12.1	12.1	12.2	60.5	62.3	62.6
Las Cruces	4.3	4.0	4.3	1.3	1.1	1.2	8.3	8.8	9.0
Santa Fe	1.7	1.8	1.8	1.2	1.3	1.3	10.9	11.5	11.6
New York	1,223.5	1,210.5	1,222.3	399.6	403.2	403.1	1,708.4	1,714.4	1,717.2
Albany-Schenectady-Troy	49.1	47.4	47.5	16.4	16.6	16.7	86.2	88.2	88.8
Binghamton	37.9	38.5	38.8	4.5	4.7	4.6	26.3	27.0	27.1
Buffalo	76.3	77.0	77.2	21.2	21.5	21.5	108.8	111.3	112.1
Elmira	8.0	8.9	8.8	1.4	1.5	1.5	10.6	10.8	10.8
Nassau-Suffolk	175.1	170.1	170.3	46.7	47.3	47.2	308.5	312.7	312.8
New York PMSA	461.7	452.0	459.1	237.3	239.2	239.0	756.7	757.0	757.0
New York City	379.3	367.9	375.0	211.8	213.1	213.0	631.8	631.4	631.5
Niagara Falls	23.7	23.1	23.5	3.7	3.9	3.8	19.0	19.9	20.0
Orange County	14.6	15.2	15.2	5.8	5.8	5.9	27.5	28.6	28.7
Poughkeepsie	30.1	30.7	30.6	3.3	3.3	3.3	23.7	24.8	24.8
Rochester	134.0	136.6	137.3	14.6	14.3	14.3	100.6	101.2	101.3
Rockland County	14.8	14.6	14.6	3.9	4.1	4.1	23.3	23.7	23.6
Syracuse	52.8	52.5	52.5	17.8	18.1	18.1	71.6	73.5	73.6
Utica-Rome	24.2	24.4	24.7	4.4	4.6	4.6	27.5	27.6	27.7
Westchester County	65.7	67.5	67.6	21.0	21.3	21.2	97.2	97.4	97.4
North Carolina	859.0	858.7	863.7	143.8	149.0	150.2	648.9	668.7	671.5
Asheville	19.2	19.1	19.2	3.7	3.8	3.7	18.8	18.8	19.0
Charlotte-Gastonia-Rock Hill	154.4	153.7	154.7	49.0	49.9	49.6	139.8	144.9	145.9
Greensboro-Winston-Salem-High Point	154.3	151.2	150.9	27.4	27.7	27.7	104.3	105.7	105.9
Raleigh-Durham	57.8	58.4	58.6	17.2	16.7	16.8	81.6	83.5	83.5
North Dakota	15.5	16.6	16.0	16.4	16.7	16.6	68.5	69.2	69.3
Bismarck	2.0	2.1	2.1	2.7	2.7	2.7	10.0	9.8	9.9
Fargo-Moorhead	4.8	4.8	4.8	4.5	5.1	5.1	21.0	21.5	21.4
Grand Forks	1.3	1.8	1.3	1.5	1.5	1.4	8.2	8.4	8.4
Ohio	1,097.5	1,100.0	1,101.7	209.1	211.2	211.7	1,109.2	1,136.7	1,142.2
Akron	66.1	67.1	66.5	13.1	13.1	13.1	65.5	67.1	67.3
Canton	43.5	44.0	43.7	5.8	6.2	6.2	39.9	40.2	40.6
Cincinnati	148.7	143.7	144.8	35.7	36.8	36.9	171.9	177.1	177.9
Cleveland	200.3	202.4	202.8	41.5	41.3	41.4	216.2	222.6	222.7
Columbus	102.9	102.9	103.4	28.2	28.7	28.9	167.9	174.3	175.8
Dayton-Springfield	104.2	103.4	102.8	15.7	15.8	15.7	97.5	100.9	101.5
Toledo	62.5	63.2	63.4	14.0	14.0	14.1	69.5	72.5	72.8
Youngstown-Warren	45.9	48.5	49.8	7.6	7.7	7.7	48.6	51.3	51.6
Oklahoma	155.1	158.1	158.7	63.0	61.3	61.3	268.8	265.5	265.7
Enid	1.6	1.7	1.7	2.2	2.2	2.2	6.3	6.4	6.3
Lawton	3.4	3.5	3.5	1.2	1.2	1.2	8.6	8.4	8.7
Oklahoma City	47.3	47.9	47.6	19.7	19.2	19.3	100.9	98.5	99.0
Tulsa	47.1	48.2	48.3	23.4	24.0	24.1	70.4	69.3	69.7
Oregon	216.5	215.8	223.1	58.5	59.4	59.7	282.9	296.8	299.4
Eugene-Springfield	20.6	20.2	20.8	4.1	4.3	4.4	26.9	27.2	27.3
Portland	97.3	99.5	100.4	34.8	35.5	35.5	148.0	151.7	152.9
Salem	19.9	15.2	19.3	2.8	2.9	3.0	21.9	22.2	22.4
Pennsylvania	1,046.7	1,051.1	1,055.6	240.9	242.0	242.2	1,132.2	1,147.3	1,144.5
Allentown-Bethlehem	77.7	75.8	77.1	14.0	13.8	13.8	59.9	61.0	61.1
Altoona	11.7	11.4	11.5	4.6	4.6	4.6	13.1	13.4	13.5
Beaver County	9.7	9.4	9.5	5.1	5.1	5.1	11.3	11.2	11.2
Erie	34.8	34.5	34.8	4.0	3.7	3.7	23.8	23.9	24.0
Harrisburg-Lebanon-Carlisle	52.9	53.2	53.3	17.8	17.8	17.7	67.3	67.9	68.3
Johnstown	13.2	13.2	13.2	4.7	4.7	4.7	16.6	17.0	17.0
Lancaster	60.9	60.3	60.1	7.1	7.0	7.1	44.0	45.9	46.4
Philadelphia PMSA	372.6	371.9	371.9	98.3	96.8	96.8	494.4	507.0	507.1
Philadelphia City	95.1	93.9	94.8	45.7	45.6	45.3	147.1	151.2	151.1
Pittsburgh	123.0	127.1	124.9	44.9	42.7	42.5	215.8	218.7	219.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p
New Mexico	27.6	27.9	27.8	124.7	128.5	128.9	130.8	134.7	134.4
Albuquerque	15.0	15.2	15.2	64.6	65.2	65.1	42.2	44.1	43.9
Las Cruces	1.7	1.8	1.8	6.3	6.7	6.8	14.9	14.7	14.6
Santa Fe	2.0	2.0	2.0	15.2	15.7	15.6	21.2	22.3	22.0
New York	804.3	807.9	807.7	2,220.1	2,301.7	2,305.9	1,358.6	1,400.4	1,389.8
Albany-Schenectady-Troy	23.3	23.7	23.7	104.2	106.1	108.3	107.4	109.4	108.9
Binghamton	4.1	4.1	4.1	22.5	23.2	23.2	18.6	18.7	18.5
Buffalo	26.9	27.8	27.9	111.2	114.9	115.4	70.6	72.8	72.2
Elmira	1.4	1.4	1.4	9.6	10.2	10.2	5.7	6.1	6.1
Nassau-Suffolk	76.9	79.2	79.0	293.2	303.5	302.2	164.3	171.1	168.0
New York PMSA	590.0	583.1	582.4	1,249.0	1,286.0	1,284.6	632.0	671.3	670.5
New York City	556.3	547.8	547.1	1,100.4	1,134.8	1,133.7	552.3	589.1	589.2
Niagara Falls	1.9	2.0	2.0	16.0	16.7	16.8	12.5	12.7	12.6
Orange County	4.1	4.2	4.2	22.7	23.1	23.2	20.9	21.5	21.3
Poughkeepsie	4.6	5.0	5.0	25.9	26.4	26.9	22.7	23.6	23.2
Rochester	22.5	22.7	22.8	110.8	113.5	113.8	58.5	59.7	59.1
Rockland County	5.1	5.5	5.5	25.3	25.8	25.8	19.7	19.7	19.4
Syracuse	19.4	19.8	19.8	71.5	72.2	72.0	48.3	49.4	49.0
Utica-Rome	6.9	7.1	7.1	26.3	27.1	27.1	28.3	29.4	29.3
Westchester County	27.8	29.0	29.0	117.2	119.7	119.3	56.0	58.7	58.3
North Carolina	129.4	134.5	134.4	492.0	518.7	519.8	397.6	402.6	406.6
Asheville	2.8	2.8	2.8	19.0	20.3	19.7	10.7	11.7	11.5
Charlotte-Gastonia-Rock Hill	37.0	37.3	37.3	105.4	112.9	113.7	56.3	59.4	58.8
Greensboro-Winston-Salem-High Point	23.0	23.9	23.8	81.5	85.5	85.1	43.5	45.1	45.1
Raleigh-Durham	23.1	23.7	23.7	94.6	99.7	99.8	83.8	83.9	85.5
North Dakota	12.6	12.6	12.6	61.3	64.1	64.4	59.9	61.4	60.2
Bismarck	1.7	1.6	1.6	10.5	10.7	10.9	8.2	8.3	8.3
Fargo-Moorhead	4.5	4.6	4.6	18.2	19.1	19.2	11.6	12.1	11.8
Grand Forks	1.2	1.2	1.2	6.6	6.8	6.8	7.9	8.2	8.1
Ohio	247.2	253.9	254.5	1,068.6	1,108.4	1,110.5	641.4	653.2	646.3
Akron	10.7	11.0	11.0	59.7	62.4	62.6	37.0	37.9	37.2
Canton	6.6	6.5	6.5	35.7	37.0	37.1	17.7	18.0	17.7
Cincinnati	41.0	42.6	42.8	174.5	182.3	183.0	81.7	82.9	82.5
Cleveland	55.4	57.4	57.6	235.8	244.3	244.4	117.7	117.9	116.0
Columbus	58.0	60.0	60.2	156.6	164.9	165.4	113.1	114.8	115.4
Dayton-Springfield	18.3	18.4	18.6	104.6	108.3	108.8	67.7	66.8	66.2
Toledo	11.5	11.3	11.4	72.2	76.4	76.5	36.1	37.5	36.3
Youngstown-Warren	8.3	8.6	8.6	44.5	45.8	46.0	21.3	21.6	21.3
Oklahoma	59.6	57.3	57.0	234.5	243.0	241.5	234.0	239.9	239.3
Enid	1.0	1.0	1.0	5.6	5.5	5.4	3.2	3.3	3.2
Lawton	1.7	1.5	1.5	5.9	5.8	5.8	10.6	11.1	10.5
Oklahoma City	25.0	23.9	23.8	88.1	90.8	90.0	92.0	92.0	92.3
Tulsa	17.8	17.5	17.7	70.3	71.4	70.9	33.8	35.3	34.2
Oregon	72.7	74.7	74.8	243.9	254.8	256.8	186.4	192.5	191.1
Eugene-Springfield	4.9	4.9	4.9	24.0	25.4	25.5	18.9	20.3	19.9
Portland	47.8	49.2	49.4	136.4	141.2	142.2	71.9	73.7	73.0
Salem	5.5	5.8	5.8	18.8	19.7	19.8	28.0	27.7	28.4
Pennsylvania	296.6	301.4	301.8	1,284.1	1,353.4	1,353.4	659.6	669.2	670.0
Allentown-Bethlehem	11.8	11.9	11.9	67.5	70.0	70.3	27.9	27.2	27.2
Altoona	1.7	1.9	1.9	11.3	11.5	11.6	7.3	7.3	7.6
Beaver County	1.8	1.8	1.8	11.1	11.9	11.9	7.2	7.8	7.8
Erie	5.4	5.4	5.4	26.4	27.9	27.9	12.1	12.8	12.9
Harrisburg-Lebanon-Carlisle	17.5	18.2	18.4	64.0	66.2	66.3	64.8	64.9	65.3
Johnstown	4.8	4.8	4.8	19.5	20.1	20.4	12.9	12.9	12.9
Lancaster	6.9	7.2	7.3	36.5	38.6	38.6	13.8	14.1	14.0
Philadelphia PMSA	165.8	166.5	165.4	612.0	631.4	630.2	295.8	296.7	299.1
Philadelphia City	73.8	74.1	73.0	245.8	248.0	246.9	149.8	146.9	149.6
Pittsburgh	54.4	54.6	54.6	262.8	273.4	272.4	99.3	101.7	100.2

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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Pennsylvania-Continued									
Reading	146.0	151.5	153.1	(²)	(²)	(²)	7.3	7.8	8.1
Scranton-Wilkes-Barre	290.4	297.3	298.7	0.7	0.6	0.6	13.3	14.3	14.4
Williamsport	50.5	53.1	53.0	(²)	(²)	(²)	2.2	2.1	2.2
York	170.6	174.3	175.3	.4	.5	.5	10.4	11.2	11.5
Rhode Island	452.9	454.6	458.1	.2	.1	.2	20.7	21.1	21.2
Pawtucket-Woonsocket-Attleboro	133.1	133.1	134.4	.1	.1	.1	5.2	5.3	5.3
Providence	317.1	321.1	323.6	.1	.1	.1	15.4	15.6	15.7
South Carolina	1,395.8	1,430.1	1,435.0	1.7	1.6	1.6	88.6	92.2	93.5
Charleston	187.4	193.4	194.4	(¹)	(¹)	(¹)	13.7	14.0	14.2
Columbia	226.0	230.6	231.5	(¹)	(¹)	(¹)	13.6	14.6	14.8
Greenville-Spartanburg	304.8	310.9	313.3	(¹)	(¹)	(¹)	21.9	22.7	22.6
South Dakota	256.7	261.4	261.5	2.6	2.7	2.6	12.2	12.0	12.4
Rapid City	35.5	36.9	36.8	.3	.3	.3	2.4	2.5	2.5
Sioux Falls	64.9	66.7	66.9	(¹)	(¹)	(¹)	3.2	3.5	3.6
Tennessee	2,015.5	2,051.3	2,051.4	6.7	6.6	6.8	102.8	102.9	102.7
Chattanooga	196.9	191.5	192.7	.8	.8	.9	8.5	9.5	9.0
Johnson City-Kingsport-Bristol	158.3	163.4	164.0	.3	.3	.3	6.9	6.8	6.9
Knoxville	249.0	252.3	253.0	1.9	1.8	1.9	12.4	11.1	11.5
Memphis	425.2	431.7	432.3	.1	.1	.1	20.5	20.2	20.5
Nashville	470.9	459.0	455.4	.7	.6	.6	28.4	27.1	26.2
Texas	6,457.5	6,582.4	6,579.9	181.9	182.2	181.7	350.8	328.4	329.0
Abilene	47.5	49.0	48.9	2.0	2.1	2.1	2.1	2.3	2.4
Amarillo	77.2	77.8	77.2	1.2	1.2	1.2	3.9	4.0	4.0
Austin	342.7	340.3	339.1	.8	.7	.7	17.1	15.6	15.5
Beaumont-Port Arthur	127.5	128.5	128.3	1.5	1.5	1.5	7.5	8.1	8.2
Brazoria	56.3	57.7	57.9	1.8	1.7	1.6	5.7	6.6	6.7
Brownsville-Harlingen	65.8	66.6	66.8	.1	.1	.1	2.1	2.2	2.1
Bryan-College Station	45.5	46.2	46.4	.6	.6	.6	2.1	2.3	2.3
Corpus Christi	122.1	123.7	124.3	4.2	3.9	4.1	6.3	6.1	6.4
Dallas	1,326.0	1,331.4	1,329.1	18.6	18.4	18.3	63.0	51.0	50.4
El Paso	185.6	187.1	186.9	.1	.1	.1	10.0	9.5	9.2
Ft. Worth-Arlington	516.2	513.9	513.4	3.6	3.6	3.7	25.6	19.4	19.5
Galveston-Texas City	71.2	71.9	71.6	.6	.5	.6	3.6	2.9	2.8
Houston	1,380.5	1,416.2	1,416.0	62.8	64.0	65.3	84.6	86.9	87.7
Killeen-Temple	69.0	70.8	70.9	.1	.1	.1	3.6	3.6	3.6
Laredo	34.9	36.9	36.9	2.0	1.9	1.9	1.2	1.3	1.3
Longview-Marshall	63.8	65.7	65.4	3.6	3.7	3.6	2.8	3.4	3.4
Lubbock	89.5	92.1	92.4	.4	.4	.4	3.4	3.6	3.6
McAllen-Edinburg-Mission	84.6	86.4	88.0	.8	.9	.9	3.9	4.1	4.1
Midland	43.0	44.6	44.4	9.7	9.9	9.7	1.3	1.2	1.2
Odessa	41.7	42.9	42.8	5.9	6.1	5.9	2.1	2.0	2.1
San Angelo	35.6	36.0	36.3	.4	.4	.4	1.6	1.6	1.6
San Antonio	497.1	504.4	504.8	2.5	2.5	2.6	31.0	26.5	26.4
Sherman-Denison	37.5	37.9	38.1	.1	.1	.1	1.7	1.7	1.8
Texarkana	45.2	44.5	44.4	.1	.1	.1	2.2	1.7	1.7
Tyler	61.0	61.3	61.2	1.9	2.0	1.8	2.2	2.3	2.4
Victoria	27.2	27.3	27.2	1.6	1.6	1.5	1.7	1.8	1.8
Waco	75.4	77.0	77.0	.1	.1	.1	3.6	3.9	4.0
Wichita Falls	49.7	50.8	50.7	1.9	1.9	1.9	1.7	2.2	2.2
Utah	638.0	650.6	654.1	8.0	8.5	8.5	28.7	26.0	26.2
Provo-Orem	72.8	78.2	78.7	(¹)	(¹)	(¹)	2.8	3.0	3.0
Salt Lake City-Ogden	445.5	452.7	454.7	2.6	2.7	2.8	20.1	18.1	18.3
Vermont	246.3	249.4	250.6	.5	.7	.7	18.6	19.0	19.1
Barre-Montpelier	34.2	35.5	36.1	.2	.2	.2	2.4	2.8	2.7
Burlington	73.8	78.3	78.5	(¹)	(¹)	(¹)	5.0	5.4	5.6

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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Pennsylvania-Continued									
Reading	47.4	48.2	49.1	6.4	6.8	6.9	32.8	33.6	33.7
Scranton-Wilkes-Barre	71.4	70.3	71.5	15.3	15.7	15.8	66.6	67.8	68.0
Williamsport	16.8	16.7	16.7	1.8	1.9	1.9	11.9	12.6	12.8
York	58.9	60.3	60.5	7.3	7.9	7.9	41.8	42.2	42.3
Rhode Island	116.4	112.1	115.3	15.4	15.8	15.7	105.1	106.5	106.8
Pawtucket-Woonsocket-Attleboro	53.9	51.7	53.1	3.5	3.4	3.5	32.2	33.5	33.5
Providence	73.3	69.4	71.7	11.7	12.3	12.3	70.5	72.7	72.8
South Carolina	377.4	377.3	375.7	59.2	61.3	61.4	320.6	334.7	337.4
Charleston	19.6	20.1	20.4	9.9	10.4	10.5	47.5	46.8	47.2
Columbia	29.0	29.9	30.3	10.2	10.5	10.6	50.1	50.5	50.6
Greenville-Spartanburg	101.1	100.6	100.9	11.3	11.8	11.9	71.4	73.5	73.8
South Dakota	29.5	30.5	30.7	12.2	12.7	12.6	68.8	69.6	69.9
Rapid City	3.2	3.2	3.2	1.7	1.9	1.9	10.7	11.2	11.3
Sioux Falls	9.0	8.7	8.8	4.6	4.7	4.7	17.4	17.9	17.9
Tennessee	496.7	497.0	500.9	104.9	107.8	108.0	479.8	487.6	487.5
Chattanooga	44.9	45.4	46.3	8.5	8.5	8.5	44.1	44.9	45.1
Johnson City-Kingsport-Bristol	53.5	54.8	55.0	6.0	6.2	6.2	36.1	36.1	36.5
Knoxville	48.3	51.1	51.7	10.3	10.2	10.2	64.6	65.3	64.9
Memphis	53.5	53.9	54.4	39.3	40.3	40.3	118.0	120.6	120.8
Nashville	90.2	87.1	87.1	22.5	24.1	23.9	115.8	110.6	111.0
Texas	932.5	947.6	949.3	385.9	392.5	393.3	1,641.6	1,667.9	1,666.9
Abilene	4.6	4.8	4.8	2.3	2.3	2.4	13.4	13.8	13.8
Amarillo	10.0	9.6	9.6	5.8	5.8	5.8	22.4	23.5	23.2
Austin	39.6	39.6	39.7	10.8	10.7	10.6	79.1	77.0	77.0
Beaumont-Port Arthur	24.8	25.5	25.4	9.8	9.9	9.8	32.1	31.3	31.4
Brazoria	15.4	15.6	15.7	2.3	2.3	2.3	11.1	10.9	11.1
Brownsville-Harlingen	10.3	10.6	10.6	3.4	3.1	3.3	17.8	17.7	17.7
Bryan-College Station	3.1	3.2	3.1	1.6	1.7	1.7	9.7	9.5	9.7
Corpus Christi	11.3	11.3	11.5	7.2	7.1	7.1	32.2	32.6	32.7
Dallas	221.6	222.4	222.5	90.0	92.9	93.0	345.7	352.5	352.6
El Paso	37.8	37.9	38.0	10.4	11.0	11.0	46.3	47.4	47.2
Ft. Worth-Arlington	114.7	118.2	119.0	30.4	31.1	31.0	138.1	132.5	132.5
Galveston-Texas City	8.5	8.4	8.4	5.2	4.6	4.4	14.6	15.4	15.3
Houston	146.6	151.4	151.6	98.1	99.9	99.9	350.5	359.4	358.9
Killeen-Temple	8.0	8.5	8.4	2.7	2.8	2.8	16.1	16.4	16.6
Laredo	1.9	1.7	1.7	4.5	5.0	5.0	10.2	10.7	10.7
Longview-Marshall	15.7	16.0	15.9	3.1	3.2	3.2	16.6	17.0	17.0
Lubbock	7.0	7.4	7.4	4.7	5.0	5.1	26.8	27.8	27.9
McAllen-Edinburg-Mission	11.7	11.3	11.4	2.8	2.7	2.9	25.0	25.9	26.4
Midland	2.9	2.9	2.8	2.1	2.2	2.2	10.2	10.4	10.5
Odessa	3.7	3.8	3.8	2.1	2.1	2.1	12.4	12.9	12.9
San Angelo	5.6	5.4	5.6	3.1	3.0	3.0	9.4	9.3	9.5
San Antonio	46.3	46.6	46.2	18.4	18.4	18.2	131.5	134.3	135.1
Sherman-Denison	11.2	11.4	11.4	2.0	2.0	2.1	8.4	8.3	8.3
Texarkana	7.4	7.1	7.2	1.8	1.9	1.8	10.6	10.7	10.8
Tyler	10.8	10.4	10.4	2.8	2.7	2.7	16.6	16.8	16.8
Victoria	3.0	3.0	2.9	1.5	1.5	1.6	7.8	7.6	7.7
Waco	15.1	14.9	14.9	3.2	3.3	3.3	18.9	19.1	19.1
Wichita Falls	8.5	8.3	8.3	2.6	2.6	2.6	12.1	12.2	12.2
Utah	93.6	97.3	98.0	37.9	39.2	39.5	153.6	154.0	155.2
Provo-Orem	10.6	13.3	13.4	2.9	3.1	3.2	15.9	16.5	16.4
Salt Lake City-Ogden	62.1	63.5	63.8	28.8	29.4	29.6	112.0	112.2	113.5
Vermont	49.7	49.0	49.9	10.1	10.6	10.7	57.7	59.1	59.4
Barre-Montpelier	4.6	4.3	4.8	.9	.9	.8	7.3	7.5	7.5
Burlington	16.6	17.2	17.1	3.0	3.0	3.0	17.5	18.3	18.4

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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Pennsylvania—Continued									
Reading	7.6	8.2	8.3	29.7	31.6	31.8	14.8	15.3	15.2
Scranton-Wilkes-Barre	13.0	13.2	13.2	71.1	75.7	75.7	39.0	39.7	39.5
Williamsport	2.3	2.4	2.4	9.8	10.9	10.8	5.7	6.5	6.2
York	5.1	5.3	5.5	30.1	30.4	30.9	16.6	16.5	16.2
Rhode Island									
Pawtucket-Woonsocket-Attleboro	25.8	26.4	26.4	113.3	115.8	115.8	56.0	56.8	56.7
Providence	3.7	3.8	3.8	24.6	25.0	25.1	9.9	10.3	10.0
	21.5	22.0	22.1	82.5	86.0	85.9	42.1	43.0	43.0
South Carolina									
Charleston	65.5	67.7	68.0	247.3	258.6	259.8	235.5	236.7	237.6
Columbia	8.6	8.8	8.9	39.6	41.4	41.1	48.4	51.8	52.0
Greenville-Spartanburg	18.4	19.3	19.2	43.6	45.0	45.3	60.7	60.4	60.3
	11.9	12.1	12.1	53.0	55.9	56.4	33.9	34.0	35.3
South Dakota									
Rapid City	14.5	14.9	15.0	62.9	63.9	64.2	54.0	55.2	54.1
Sioux Falls	1.7	1.7	1.7	9.6	10.0	9.9	5.9	6.2	6.1
	6.2	6.6	6.7	18.1	18.7	18.9	6.3	6.4	6.3
Tennessee									
Chattanooga	104.3	103.9	103.8	414.1	427.9	429.2	306.3	317.6	312.5
Johnson City-Kingsport-Bristol	12.0	11.7	11.8	36.5	37.6	37.3	31.7	33.1	33.8
Knoxville	5.4	5.6	5.6	28.0	30.7	31.0	22.1	22.9	22.5
Memphis	9.8	9.5	9.5	52.4	53.3	53.3	49.2	50.0	50.0
Nashville	24.6	25.0	25.1	99.6	101.0	101.1	69.6	70.6	70.0
	33.6	33.5	33.2	113.5	112.1	111.3	66.3	63.9	62.1
Texas									
Abilene	444.3	442.3	442.5	1,436.5	1,502.2	1,499.4	1,084.0	1,119.3	1,117.8
Amarillo	2.7	2.6	2.6	12.6	12.7	12.6	7.8	8.4	8.2
Austin	4.5	4.4	4.3	16.5	16.9	16.8	12.9	12.4	12.3
Beaumont-Port Arthur	25.1	24.7	24.7	84.4	83.3	83.0	85.8	88.7	87.9
Brazoria	5.3	5.3	5.3	28.0	27.9	27.9	18.5	19.0	18.8
Brownsville-Harlingen	2.1	2.0	2.0	7.7	8.1	8.1	10.2	10.5	10.4
Bryan-College Station	3.5	3.5	3.5	14.3	15.0	15.1	14.4	14.6	14.5
Corpus Christi	1.8	1.6	1.6	8.5	8.4	8.5	18.1	18.9	18.9
Dallas	6.9	7.0	7.0	27.5	29.2	29.2	26.5	26.5	26.3
El Paso	133.6	129.2	128.5	313.8	321.3	320.3	139.7	143.7	143.5
Ft. Worth-Arlington	9.6	9.6	9.6	35.2	35.9	36.0	36.3	35.9	35.9
Galveston-Texas City	28.3	26.9	26.8	113.2	117.5	116.5	62.3	64.7	64.4
Houston	4.2	4.1	4.1	14.4	15.3	15.2	20.1	20.7	20.8
Killeen-Temple	101.8	98.1	97.7	360.2	375.0	374.5	175.9	181.5	180.4
Laredo	2.9	2.9	2.9	15.0	15.6	15.5	20.6	20.9	21.0
Longview-Marshall	1.6	1.7	1.7	5.8	6.0	6.1	7.7	8.6	8.5
Lubbock	2.7	2.7	2.7	11.4	11.6	11.5	7.9	8.1	8.1
McAllen-Edinburg-Mission	5.5	5.5	5.5	21.4	22.4	22.5	20.3	20.0	20.0
Midland	3.8	3.8	3.7	14.4	14.4	15.0	22.2	23.3	23.6
Odessa	2.5	2.5	2.5	8.6	8.9	8.9	5.7	6.6	6.6
San Angelo	1.6	1.7	1.7	7.1	7.4	7.4	6.8	6.9	6.9
San Antonio	1.8	1.8	1.8	7.6	8.0	8.0	6.1	6.5	6.4
Sherman-Denison	40.2	40.8	40.9	119.6	126.1	126.3	107.6	109.2	109.1
Texarkana	1.7	1.8	1.8	8.3	8.5	8.5	4.1	4.1	4.1
Tyler	1.9	1.9	1.9	9.3	9.8	9.7	11.9	11.3	11.2
Victoria	3.7	3.6	3.7	14.5	14.7	14.7	8.5	8.8	8.7
Waco	1.5	1.6	1.6	5.8	5.7	5.7	4.3	4.5	4.4
Wichita Falls	4.7	4.7	4.7	18.8	19.6	19.8	11.0	11.4	11.1
	2.4	2.3	2.4	11.4	11.5	11.5	9.1	9.8	9.6
Utah									
Provo-Orem	34.6	34.2	34.1	149.6	157.2	158.3	131.9	134.2	134.3
Salt Lake City-Ogden	2.4	2.3	2.3	25.2	27.3	27.2	12.9	12.7	13.2
	28.4	28.2	28.2	103.9	109.7	110.4	87.6	88.9	88.1
Vermont									
Barre-Montpelier	12.2	12.7	12.7	62.1	62.4	62.5	35.4	35.9	35.6
Burlington	3.0	3.0	3.0	7.9	8.6	8.7	7.9	8.2	8.4
	3.7	3.8	3.8	18.6	20.7	20.7	9.4	9.9	9.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Virginia	2,693.7	2,806.4	2,804.6	15.7	15.1	15.2	192.7	205.5	206.1
Bristol	30.8	33.0	31.6	.1	.1	.1	1.0	1.0	1.0
Charlottesville	63.6	65.7	65.8	.1	.1	.1	3.8	3.9	4.1
Danville	39.6	40.7	40.5	.1	.1	.1	1.9	2.2	2.1
Lynchburg	70.8	71.4	71.8	.1	.1	.1	3.6	3.6	3.7
Norfolk-Virginia Beach-Newport News	557.9	579.2	576.8	.1	.1	.1	41.6	41.6	41.7
Northern Virginia	715.6	762.1	757.8	.5	.5	.5	55.8	60.0	61.1
Richmond-Petersburg	436.8	455.2	454.5	.5	.6	.6	30.0	32.4	31.8
Roanoke	121.1	119.4	118.6	.2	.2	.2	8.0	8.1	8.1
Washington	1,854.0	1,926.3	1,937.6	3.0	3.4	3.4	94.9	105.3	109.0
Seattle	938.3	985.2	988.1	.6	.7	.7	49.7	54.1	55.6
West Virginia	597.3	611.2	613.1	36.3	34.0	34.0	26.4	26.8	27.0
Charleston	106.7	107.7	108.1	2.2	2.0	2.0	4.6	4.5	4.6
Huntington-Ashland	102.5	103.5	103.8	1.4	1.3	1.3	4.6	4.7	4.6
Parkersburg-Marietta	59.6	60.5	60.5	.6	.6	.6	3.1	3.2	3.2
Wheeling	58.4	59.6	59.3	2.2	2.4	2.4	2.2	2.4	2.3
Wisconsin	2,097.3	2,160.7	2,165.5	2.4	2.6	2.5	72.7	76.9	77.4
Appleton-Oshkosh-Neenah	145.8	150.9	152.6	(¹)	(¹)	(¹)	6.8	7.0	7.2
Eau Claire	53.3	57.4	56.9	(¹)	(¹)	(¹)	1.4	1.8	1.7
Green Bay	95.2	98.5	99.3	(¹)	(¹)	(¹)	3.1	3.6	3.5
Janesville-Beloit	53.0	56.1	56.2	(¹)	(¹)	(¹)	1.4	1.2	1.4
Kenosha	38.5	40.6	38.6	(¹)	(¹)	(¹)	1.3	.8	.9
La Crosse	50.2	53.5	53.4	(¹)	(¹)	(¹)	1.5	2.0	2.0
Madison	197.5	203.2	204.1	(¹)	(¹)	(¹)	7.7	7.6	7.5
Milwaukee	698.2	716.1	718.1	(¹)	(¹)	(¹)	22.2	22.8	23.0
Racine	69.1	72.0	72.2	(¹)	(¹)	(¹)	2.1	2.1	2.2
Wausau	46.2	47.3	48.5	(¹)	(¹)	(¹)	1.5	1.6	1.6
Wyoming	183.7	181.6	180.6	17.9	17.9	18.0	12.1	9.7	9.6
Puerto Rico	746.1	819.9	783.8	.8	.8	.8	34.8	38.8	39.0
Caguas	49.4	52.7	49.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	53.8	57.2	55.2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	48.9	51.6	49.9	.1	.2	.2	3.0	3.6	3.7
San Juan	462.1	494.4	482.2	.4	.4	.4	25.7	28.9	28.8
Virgin Islands	39.0	40.1	39.7	(¹)	(¹)	(¹)	1.5	1.8	1.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Virginia	431.3	426.1	428.8	144.1	148.1	148.8	618.7	648.1	649.3
Bristol	10.2	11.5	10.1	1.1	1.1	1.1	7.9	8.3	8.4
Charlottesville	8.7	8.5	8.5	2.3	2.3	2.3	13.3	14.3	14.2
Danville	16.8	17.0	17.0	1.0	1.0	1.0	8.5	9.2	9.2
Lynchburg	23.9	22.9	22.9	2.9	2.8	2.8	14.4	15.4	15.3
Norfolk-Virginia Beach-Newport News	68.2	70.5	70.3	26.3	26.3	26.4	138.4	142.7	141.5
Northern Virginia	35.6	35.7	35.4	50.4	54.9	55.2	160.7	170.5	170.4
Richmond-Petersburg	62.5	62.1	62.4	23.1	23.5	23.8	104.4	111.1	111.0
Roanoke	19.7	19.2	18.6	8.9	8.7	8.6	33.8	31.8	32.2
Washington	324.4	331.5	336.5	101.1	105.2	106.0	462.8	480.2	484.5
Seattle	186.1	195.8	197.0	60.2	60.8	60.9	229.8	241.6	242.3
West Virginia	86.6	86.7	87.7	36.8	37.1	37.2	141.1	145.2	145.7
Charleston	11.0	10.8	10.8	8.3	8.6	8.6	28.2	28.6	28.7
Huntington-Ashland	19.1	19.6	19.6	7.8	7.7	7.7	26.7	26.8	27.1
Parkersburg-Marietta	14.1	14.3	14.5	2.1	2.1	2.1	14.6	14.8	14.7
Wheeling	7.2	7.1	7.2	3.3	3.3	3.2	16.0	16.1	16.0
Wisconsin	537.5	558.7	561.7	92.2	95.4	95.7	508.1	523.5	527.3
Appleton-Oshkosh-Neenah	51.9	54.4	55.1	5.2	5.2	5.3	31.8	32.5	33.3
Eau Claire	10.3	11.0	11.0	3.4	3.5	3.6	15.6	16.6	16.5
Green Bay	26.3	26.4	26.8	6.3	6.3	6.2	25.3	25.9	26.2
Janesville-Beloit	16.7	17.7	18.0	2.1	2.1	2.0	13.7	14.0	14.0
Kenosha	10.9	14.5	12.2	1.3	1.2	1.2	9.2	9.4	9.5
La Crosse	10.9	11.3	11.4	2.6	2.6	2.6	14.2	14.6	14.7
Madison	23.1	23.8	23.9	7.0	7.3	7.3	44.2	45.7	46.1
Milwaukee	168.5	174.9	175.1	33.9	34.6	34.6	163.9	168.7	170.1
Racine	23.5	24.8	24.8	2.2	2.2	2.2	16.7	17.4	17.6
Wausau	13.3	14.3	14.5	2.6	2.7	2.7	11.4	11.5	11.8
Wyoming	8.1	8.2	8.2	12.9	12.7	12.7	41.7	41.2	40.9
Puerto Rico	150.9	152.6	152.3	16.3	15.5	15.3	133.5	138.1	138.4
Caguas	15.9	15.0	14.8	(¹)	(¹)	(¹)	9.3	9.8	9.7
Mayaguez	19.0	19.6	19.5	(¹)	(¹)	(¹)	7.5	7.7	7.6
Ponce	9.4	8.7	8.7	(¹)	(¹)	(¹)	7.6	8.2	8.1
San Juan	65.0	65.8	65.6	14.4	13.4	12.7	93.1	97.3	98.0
Virgin Islands	2.2	2.4	2.3	2.5	2.5	2.5	8.8	9.2	8.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Virginia	147.9	152.4	152.1	639.4	689.4	689.9	503.9	521.7	514.4
Bristol	1.2	1.4	1.4	4.6	5.0	4.9	4.7	4.6	4.6
Charlottesville	3.6	3.6	3.6	11.9	12.4	12.3	19.9	20.6	20.7
Danville	1.2	1.3	1.2	5.7	5.5	5.5	4.4	4.4	4.4
Lynchburg	3.8	4.1	4.2	13.3	13.3	13.7	8.9	9.2	9.1
Norfolk-Virginia Beach-Newport News	27.6	28.7	28.7	134.8	144.8	145.1	120.9	124.5	123.0
Northern Virginia	47.5	50.4	49.9	227.1	245.1	245.5	137.9	145.0	139.8
Richmond-Petersburg	36.5	37.1	37.2	93.9	98.5	98.3	86.1	89.9	89.4
Roanoke	8.2	8.6	8.5	27.6	27.9	27.7	14.6	14.9	14.7
Washington	108.4	109.8	110.0	423.9	446.3	446.4	335.5	344.6	339.8
Seattle	68.4	69.4	69.7	220.9	236.2	237.0	122.6	126.6	124.9
West Virginia	24.4	24.6	24.5	126.4	125.2	126.6	119.3	131.6	130.4
Charleston	6.0	6.0	6.0	25.8	25.6	25.6	20.6	21.6	21.8
Huntington-Ashland	3.9	3.9	3.9	20.5	21.9	22.0	18.5	17.6	17.6
Parkersburg-Marietta	2.3	2.3	2.3	13.6	13.5	13.5	9.2	9.7	9.6
Wheeling	2.7	2.7	2.7	15.6	15.7	15.8	9.2	9.9	9.7
Wisconsin	114.2	115.8	115.8	465.3	476.3	477.3	305.0	311.5	307.8
Appleton-Oshkosh-Neenah	7.2	7.6	7.6	27.9	28.5	28.5	14.7	15.4	15.3
Eau Claire	2.0	2.0	2.0	12.0	12.6	12.5	8.6	9.9	9.6
Green Bay	3.5	3.7	3.7	20.8	22.2	22.7	9.9	10.3	10.1
Janesville-Beloit	1.7	1.7	1.7	11.5	12.6	12.4	5.9	6.7	6.6
Kenosha	1.3	1.4	1.4	8.3	8.2	8.4	6.1	5.1	5.0
La Crosse	1.5	1.5	1.5	13.8	14.6	14.5	5.7	6.9	6.7
Madison	18.0	18.7	18.8	42.6	44.3	44.6	54.7	55.6	55.7
Milwaukee	49.4	49.3	49.4	182.7	187.2	187.5	77.3	78.3	78.1
Racine	2.3	2.3	2.3	14.3	15.1	15.1 ¹	8.0	8.0	7.9
Wausau	3.4	3.4	3.6	8.3	8.4	8.8	5.5	5.4	5.5
Wyoming	7.4	7.2	7.2	35.6	36.1	35.7	48.0	48.6	48.3
Puerto Rico	35.2	36.3	36.2	109.2	111.7	112.4	265.4	326.1	289.3
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.0	18.2	15.2
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	18.1	20.7	18.5
Ponce	(¹)	(¹)	(¹)	9.4	9.0	9.2	16.3	18.9	16.8
San Juan	28.7	29.4	29.3	77.7	80.7	81.3	157.2	178.6	166.1
Virgin Islands	1.7	1.8	1.7	8.8	8.6	8.7	13.5	13.8	13.8

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 1987 benchmarks except Colorado. Data for Colorado have been adjusted to December 1986 benchmarks.

**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	12.46	525.81	37.4	12.48	466.75
1987	34.8	8.98	312.50	42.4	12.52	530.85	37.8	12.69	479.68
Monthly data, not seasonally adjusted									
1987:									
September	34.7	\$9.05	\$314.04	42.3	\$12.50	\$528.75	36.5	\$12.79	\$466.84
October	34.9	9.08	316.89	42.9	12.42	532.82	38.8	12.82	497.42
November	34.8	9.13	317.72	42.6	12.54	534.20	37.1	12.83	475.99
December	34.8	9.13	317.72	43.1	12.60	543.06	37.6	12.81	481.66
1988:									
January	34.4	9.18	315.79	42.1	12.77	537.62	35.9	12.99	466.34
February	34.5	9.17	316.37	41.8	12.71	531.28	36.1	12.82	462.80
March	34.4	9.18	315.79	41.9	12.59	527.52	37.4	12.87	481.34
April	34.7	9.23	320.28	42.8	12.60	539.28	37.9	12.88	488.15
May	34.6	9.26	320.40	42.2	12.54	529.19	38.2	12.87	491.63
June	34.9	9.23	322.13	42.5	12.55	533.38	38.7	12.85	497.30
July	35.1	9.25	324.68	42.3	12.66	535.52	38.5	12.91	497.04
August ^p	35.0	9.25	323.75	42.0	12.63	530.46	38.6	12.95	499.87
September ^p	34.8	9.40	327.12	42.5	12.79	543.58	38.4	13.12	503.81

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	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	38.3	9.35	358.11
1987	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
Monthly data, not seasonally adjusted										
1987:										
September	40.8	\$9.99	\$9.53	\$407.59	39.2	\$12.11	\$474.71	38.0	\$9.64	\$366.32
October	41.3	9.95	9.48	410.94	39.4	12.12	477.53	38.3	9.65	369.60
November	41.4	10.01	9.54	414.41	39.3	12.21	479.85	38.2	9.72	371.30
December	41.8	10.07	9.59	420.93	39.2	12.24	479.81	38.2	9.73	371.69
1988:										
January	41.0	10.07	9.62	412.87	39.0	12.16	474.24	37.9	9.78	370.66
February	40.7	10.05	9.63	409.04	38.9	12.23	475.75	37.9	9.78	370.66
March	40.9	10.07	9.64	411.86	38.6	12.19	470.53	37.9	9.78	370.66
April	41.0	10.12	9.68	414.92	39.2	12.27	480.98	38.2	9.88	377.42
May	40.9	10.14	9.70	414.73	39.2	12.28	481.38	38.0	9.87	375.06
June	41.2	10.16	9.70	418.59	39.5	12.27	484.67	38.1	9.85	375.29
July	40.7	10.16	9.72	413.51	39.8	12.33	490.73	38.3	9.93	380.32
August ^p	40.9	10.12	9.66	413.91	39.7	12.37	491.09	38.0	9.89	375.82
September ^p	41.4	10.27	9.76	425.18	39.4	12.42	489.35	38.1	10.00	381.00

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	8.36	304.30	32.5	8.18	265.85
1987	29.2	6.11	178.41	36.3	8.73	316.90	32.5	8.48	275.60
Monthly data, not seasonally adjusted									
1987:									
September	29.5	\$6.20	\$182.90	36.0	\$8.73	\$314.28	32.4	\$8.54	\$276.70
October	29.1	6.16	179.26	36.2	8.76	317.11	32.5	8.61	279.83
November	29.0	6.18	179.22	36.3	8.89	322.71	32.5	8.71	283.08
December	29.3	6.19	181.37	36.0	8.81	317.16	32.4	8.73	282.85
1988:									
January	28.3	6.24	176.59	36.2	8.96	324.35	32.4	8.81	285.44
February	28.5	6.23	177.56	36.4	9.02	328.33	32.6	8.81	287.21
March	28.6	6.24	178.46	35.8	8.97	321.13	32.3	8.80	284.24
April	28.9	6.26	180.91	36.2	9.03	326.89	32.6	8.82	287.53
May	28.9	6.28	181.49	35.8	9.09	325.42	32.4	8.84	286.42
June	29.4	6.26	184.04	35.8	8.98	321.48	32.7	8.78	287.11
July	30.0	6.28	188.40	36.2	9.03	326.89	33.0	8.79	290.07
August ^p	29.8	6.25	186.25	35.6	9.05	322.18	32.8	8.79	288.31
September ^p	29.0	6.37	184.73	35.7	9.12	325.58	32.5	8.97	291.53

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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Total private		35.2	34.7	35.1	35.0	34.8					
Mining		42.7	42.3	42.3	42.0	42.5					
Metal mining	10	42.3	41.8	42.9	41.3						
Iron ores	101	41.3	41.4	41.7	41.5						
Copper ores	102	43.6	43.4	45.3	41.4						
Coal mining	11,12	42.2	41.9		42.5						
Bituminous coal and lignite mining	12	42.2	42.0		42.6						
Oil and gas extraction	13	41.8	41.5	41.7	40.5						
Crude petroleum, natural gas, and natural gas liquids	131,2	40.6	41.1	43.4	40.2						
Oil and gas field services	138	42.4	41.8	40.7	40.6						
Nonmetallic minerals, except fuels	14	46.7	45.4	46.4	46.6						
Crushed and broken stone	142	49.0	46.5	48.2	48.5						
Construction		38.6	36.5	38.5	38.6	38.4					
General building contractors	15	37.8	36.1	37.8	37.9						
Residential building construction	152	37.0	35.8	36.8	37.1						
Operative builders	153	38.4	37.5	39.1	38.6						
Nonresidential building construction	154	38.6	36.4	39.0	38.9						
Heavy construction contractors	16	43.1	39.2	42.9	43.2						
Highway and street construction	161	44.6	39.9	44.5	45.2						
Heavy construction, except highway	162	42.1	38.8	41.9	42.0						
Special trade contractors	17	37.7	35.8	37.7	37.7						
Plumbing, heating, and air conditioning	171	38.6	37.0	39.2	39.1						
Painting, paper hanging, and decorating	172	36.3	35.4	36.5	36.6						
Electrical work	173	39.0	37.3	39.1	38.6						
Masonry, stonework, and plastering	174	35.8	33.8	35.5	35.7						
Carpentering and flooring	175	36.0	34.6	35.6	35.3						
Roofing and sheet metal work	176	35.5	33.2	34.6	35.6						
Manufacturing		40.9	40.8	40.7	40.9	41.4	3.8	3.9	3.7	3.9	4.3
Durable goods		41.3	41.1	41.2	41.4	42.0	3.8	3.9	3.8	4.0	4.4
Lumber and wood products	24	40.8	39.9	40.3	40.4	40.3	4.1	3.7	3.8	3.9	
Logging camps and logging contractors	241	39.7	36.9	40.1	39.8	-	4.8	3.8	4.4	4.5	
Sawmills and planing mills	242	42.0	41.4	40.9	41.1		4.9	4.4	4.2	4.3	
Sawmills and planing mills, general	2421	42.2	41.6	41.2	41.3		5.2	4.6	4.5	4.5	
Hardwood dimension and flooring	2426	41.5	41.2	39.5	40.3		4.0	3.6	3.1	3.5	
Millwork, plywood, and structural members	243	41.0	40.4	40.3	40.5		3.9	3.6	3.6	3.8	
Millwork	2431	41.5	40.6	40.6	41.0		3.5	3.1	3.2	3.4	
Wood kitchen cabinets	2434	39.9	39.5	39.4	40.0		3.3	3.1	2.8	3.4	
Hardwood veneer and plywood	2435	41.2	40.5	40.1	40.6		3.9	3.4	3.4	3.6	
Softwood veneer and plywood	2436	41.8	41.5	41.1	40.5		5.2	4.9	5.4	4.9	
Wood containers	244	38.8	38.0	38.9	38.8		3.0	2.5	3.4	3.4	
Wood buildings and mobile homes	245	39.8	38.2	40.0	40.3		3.3	2.5	3.1	3.5	
Mobile homes	2451	39.6	38.0	39.5	40.4		2.8	2.4	2.9	3.6	
Miscellaneous wood products	249	40.5	40.1	39.8	39.5		3.2	3.4	3.1	2.9	
Furniture and fixtures	25	40.3	40.0	38.9	39.3	40.0	3.2	3.2	2.3	2.7	
Household furniture	251	39.9	39.7	38.3	38.8	-	2.8	3.0	1.9	2.3	
Wood household furniture	2511	40.0	39.8	38.9	39.2		2.7	2.8	2.0	2.6	
Upholstered household furniture	2512	39.1	39.2	36.9	37.8		2.3	2.6	1.3	1.6	
Metal household furniture	2514	40.3	39.7	39.4	39.0		3.2	4.0	2.0	2.3	
Mattresses and bedsprings	2515	40.7	39.8	38.6	39.7		4.1	4.5	3.1	3.6	
Office furniture	252	41.5	40.8	39.9	39.7		3.7	3.0	2.7	2.5	
Public building and related furniture	253	40.3	39.6	40.8	40.9		3.6	3.2	4.0	3.9	
Partitions and fixtures	254	41.1	40.4	39.4	40.0		4.2	4.1	3.2	3.7	
Miscellaneous furniture and fixtures	259	40.8	40.4	38.9	40.6		3.5	3.4	2.8	3.5	
Stone, clay, and glass products	32	42.6	42.5	42.4	42.6	42.8	5.4	5.1	5.2	5.3	
Flat glass	321	45.3	48.3	44.5	45.9	-	6.2	8.5	7.2	7.7	
Glass and glassware, pressed or blown	322	41.4	41.2	41.5	41.4		4.9	5.3	4.9	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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Total private		\$8.94	\$9.05	\$9.25	\$9.25	\$9.40	\$314.69	\$314.04	\$324.68	\$323.75	\$327.12
Mining		12.40	12.50	12.66	12.63	12.79	529.48	528.75	535.52	530.46	543.58
Metal mining	10	12.94	13.12	13.23	13.23		547.36	548.42	567.57	546.40	
Iron ores	101	14.68	14.39	14.76	14.53		606.28	595.75	615.49	603.00	
Copper ores	102	11.33	11.82	11.60	11.53		493.99	512.99	525.48	477.34	
Coal mining	11,12	15.64	15.77		15.97		660.01	660.76	642.70	678.73	
Bituminous coal and lignite mining	12	15.69	15.82		16.02		662.12	664.44	645.91	682.45	
Oil and gas extraction	13	11.35	11.44	11.81	11.59		474.43	474.76	492.48	469.40	
Crude petroleum, natural gas, and natural gas liquids	131,2	13.91	14.01	14.48	14.28		564.75	575.81	628.43	574.06	
Oil and gas field services	138	9.89	9.96	10.24	10.15		419.34	416.33	416.77	412.09	
Nonmetallic minerals, except fuels	14	10.69	10.73	11.01	11.02		499.22	487.14	510.86	513.53	
Crushed and broken stone	142	10.18	10.09	10.45	10.49		498.82	469.19	503.69	508.77	
Construction		12.68	12.79	12.91	12.95	13.12	489.45	466.84	497.04	499.87	503.81
General building contractors	15	11.73	11.85	12.00	12.10		443.39	427.79	453.60	458.59	
Residential building construction	152	10.96	11.11	11.34	11.40		405.52	397.74	417.31	422.94	
Operative builders	153	10.43	10.58	10.88	11.21		400.51	396.75	425.41	432.71	
Nonresidential building construction	154	12.64	12.74	12.80	12.94		487.90	463.74	499.20	503.37	
Heavy construction contractors	16	12.13	12.16	12.52	12.57		522.80	476.67	537.11	543.02	
Highway and street construction	161	12.17	12.19	12.57	12.63		542.78	486.38	559.37	570.88	
Heavy construction, except highway	162	12.10	12.14	12.48	12.53		509.41	471.03	522.91	526.26	
Special trade contractors	17	13.25	13.39	13.42	13.43		499.53	479.36	505.93	506.31	
Plumbing, heating, and air conditioning	171	13.44	13.56	13.77	13.70		518.78	501.72	539.78	535.67	
Painting, paper hanging, and decorating	172	12.57	12.87	12.57	12.72		456.29	455.60	458.81	465.55	
Electrical work	173	14.68	14.81	14.68	14.68		572.52	552.41	573.99	566.65	
Masonry, stonework, and plastering	174	13.49	13.57	13.56	13.63		482.94	458.67	481.38	486.59	
Carpentering and flooring	175	12.57	12.70	12.77	12.76		452.52	439.42	454.61	450.43	
Roofing and sheet metal work	176	11.74	11.76	12.06	12.08		416.77	390.43	417.28	430.05	
Manufacturing		9.86	9.99	10.16	10.12	10.27	403.27	407.59	413.51	413.91	425.18
Durable goods		10.39	10.49	10.67	10.65	10.80	429.11	431.14	439.60	440.91	453.60
Lumber and wood products	24	8.48	8.46	8.65	8.61	8.70	345.98	337.55	348.60	347.84	350.61
Logging camps and logging contractors	241	10.92	10.75	11.11	11.01	-	433.52	396.68	445.51	438.20	-
Sawmills and planing mills	242	8.60	8.63	8.74	8.65		361.20	357.28	357.47	355.52	
Sawmills and planing mills, general	2421	8.94	8.99	9.05	8.96		377.27	373.98	372.86	370.05	
Hardwood dimension and flooring	2426	6.83	6.87	7.09	7.04		283.45	283.04	280.06	283.71	
Millwork, plywood, and structural members	243	8.39	8.40	8.58	8.58		343.99	339.36	345.77	347.49	
Millwork	2431	8.68	8.70	8.76	8.83		360.22	353.22	355.66	362.03	
Wood kitchen cabinets	2434	7.71	7.66	7.89	7.95		307.63	302.57	310.87	318.00	
Hardwood veneer and plywood	2435	6.87	6.88	7.03	7.01		283.04	278.64	281.90	284.61	
Softwood veneer and plywood	2436	9.80	9.92	10.27	10.12		409.64	411.68	422.10	409.86	
Wood containers	244	6.26	6.25	6.39	6.37		242.89	237.50	248.57	247.16	
Wood buildings and mobile homes	245	7.92	7.89	8.01	8.07		315.22	301.40	320.40	325.22	
Mobile homes	2451	8.00	7.97	8.07	8.14		316.80	302.86	318.77	328.86	
Miscellaneous wood products	249	7.30	7.37	7.50	7.44		295.65	295.54	298.50	293.88	
Furniture and fixtures	25	7.74	7.74	7.97	8.00	8.07	311.92	309.60	310.03	314.40	322.80
Household furniture	251	7.10	7.15	7.34	7.37	-	283.29	283.86	281.12	285.96	-
Wood household furniture	2511	6.55	6.57	6.90	6.90		262.00	261.49	268.41	270.48	
Upholstered household furniture	2512	7.76	7.85	7.90	7.93		303.42	307.72	291.51	299.75	
Metal household furniture	2514	7.34	7.45	7.55	7.68		295.80	295.77	297.47	299.52	
Mattresses and bedsprings	2515	7.66	7.75	7.69	7.84		311.76	308.45	296.83	311.25	
Office furniture	252	8.93	8.67	9.20	9.13		370.60	353.74	367.08	362.46	
Public building and related furniture	253	8.08	8.07	8.37	8.37		325.62	319.57	341.50	342.33	
Partitions and fixtures	254	9.09	9.21	9.33	9.46		373.60	372.08	367.60	378.40	
Miscellaneous furniture and fixtures	259	8.25	8.21	8.29	8.42		336.60	331.68	322.48	341.85	
Stone, clay, and glass products	32	10.28	10.37	10.54	10.45	10.52	437.93	440.73	446.90	445.17	450.26
Flat glass	321	14.27	14.87	14.83	14.69	-	646.43	718.22	659.94	674.27	-
Glass and glassware, pressed or blown	322	11.48	11.66	11.88	11.73		475.27	480.39	493.02	485.62	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	41.7	40.7	41.6	41.2		5.9	6.4	5.7	5.4	
Pressed and blown glass, nec	3229	41.0	41.9	41.3	41.5	-	3.8	4.0	4.0	3.7	
Products of purchased glass	323	41.1	41.5	41.7	41.2		3.9	3.6	3.4	3.2	
Cement, hydraulic	324	41.9	43.2	42.3	42.5		3.6	3.8	3.4	3.7	
Structural clay products	325	42.3	42.2	41.9	42.0		4.7	4.3	4.4	4.4	
Pottery and related products	326	39.9	39.7	39.5	40.4		2.8	3.6	3.0	3.0	
Concrete, gypsum, and plaster products	327	44.3	43.7	43.9	44.2		7.3	6.0	6.9	7.2	
Concrete block and brick	3271	45.4	44.4	45.5	46.0		8.3	6.7	7.0	7.5	
Concrete products, nec	3272	43.6	42.9	43.1	43.1	-	6.5	5.7	6.3	6.4	
Ready-mixed concrete	3273	44.0	43.0	43.5	44.1		7.4	5.5	7.1	7.4	
Misc. nonmetallic mineral products	329	41.7	42.3	41.8	41.9		4.5	4.9	4.5	4.6	
Abrasive products	3291	42.6	41.6	42.8	42.7		3.6	3.2	3.6	3.5	
Asbestos products	3292	41.3	42.4	40.7	41.0		3.8	5.4	2.9	4.2	
Primary metal industries											
Blast furnaces and basic steel products	33	42.9	43.2	43.0	43.2	43.8	5.1	5.5	5.4	5.6	
Blast furnaces and steel mills	331	43.3	44.7	44.0	43.7	44.5	5.3	5.8	5.9	6.1	
Steel pipe and tubes	3312	43.4	45.3	44.4	44.1	-	5.3	5.9	6.2	6.3	
Iron and steel foundries	3317	42.1	41.7	41.8	42.0		5.3	5.1	5.0	5.2	
Gray iron foundries	332	42.5	41.7	42.6	43.3		5.1	5.0	5.2	5.6	
Malleable iron foundries	3321	42.7	42.1	42.3	43.6		5.7	5.6	5.3	6.1	
Steel foundries, nec	3322	42.1	38.8	42.2	41.3		3.9	3.4	5.1	4.4	
Primary nonferrous metals	3325	42.4	41.9	43.1	42.2		4.0	3.9	5.1	4.7	
Primary aluminum	333	43.3	44.8	43.7	43.8		4.4	5.4	5.0	4.8	
Nonferrous rolling and drawing	3334	44.3	45.7	43.8	44.4		4.8	6.0	5.1	4.7	
Copper rolling and drawing	335	43.2	43.2	43.0	43.1		5.8	6.4	6.0	6.1	
Aluminum sheet, plate, and foil	3351	43.6	42.7	42.3	42.9		6.2	6.9	6.2	6.9	
Nonferrous wire drawing and insulating	3353	44.2	43.9	45.2	45.0		7.5	8.5	8.2	7.7	
Nonferrous foundries	3357	42.9	43.4	42.4	42.4	-	5.5	6.0	5.2	5.3	-
Aluminum foundries	336	41.6	40.9	40.5	41.3	-	3.7	3.7	3.2	3.7	
Fabricated metal products	3361	42.3	41.3	40.8	41.8	-	3.8	4.0	3.3	3.9	
Metal cans and shipping containers	34	41.3	41.0	41.0	41.5	42.2	3.9	3.9	3.6	4.0	
Metal cans	341	44.9	43.8	44.9	45.6	-	6.6	5.8	6.1	6.6	
Cutlery, hand tools, and hardware	3411	45.1	44.2	45.5	46.1	-	6.7	5.8	6.3	6.7	
Hand and edge tools, and hand saws and blades	342	40.7	40.2	40.5	40.7		3.2	3.2	3.1	3.1	
Hardware, nec	3423,5	41.1	40.1	40.4	40.5		3.3	3.0	2.8	2.8	
Plumbing and heating, except electric	3429	40.2	40.2	40.3	40.5		3.2	3.4	3.2	3.1	
Plumbing fittings and brass goods	343	41.0	40.8	40.6	41.2		3.4	3.7	3.3	4.2	
Heating equipment, except electric	3432	41.4	41.5	40.5	40.4		3.0	3.3	2.8	3.4	
Fabricated structural metal products	3433	40.1	39.9	40.6	41.8		2.9	3.7	3.6	4.8	
Fabricated structural metal	344	41.0	40.6	40.8	41.2		3.7	3.7	3.8	4.0	-
Metal doors, sash, and trim	3441	42.2	42.0	42.2	42.8		4.3	4.5	5.1	5.6	
Fabricated plate work (boiler shops)	3442	40.4	39.7	40.2	40.5		3.4	3.2	3.3	3.2	
Sheet metal work	3443	42.1	41.7	42.0	42.1		4.0	4.2	4.2	4.5	
Architectural metal work	3444	39.8	39.5	39.6	39.8		3.2	3.2	3.1	3.3	
Screw machine products, bolts, etc	3446	40.5	40.3	39.7	40.7		3.7	3.2	3.1	3.7	
Screw machine products	345	42.1	41.4	42.6	42.5		4.6	4.2	4.9	5.2	
Bolts, nuts, rivets, and washers	3451	41.0	41.0	41.3	41.2		3.6	3.6	4.0	4.2	
Metal forgings and stampings	3452	43.5	41.9	44.1	44.1		5.8	5.0	5.9	6.3	
Iron and steel forgings	346	41.6	41.3	40.8	42.0	-	4.2	4.3	3.5	3.9	
Automotive stampings	3462	41.6	41.5	42.9	42.5		4.2	4.3	4.8	4.8	
Metal stampings, nec	3465	42.3	42.6	40.3	43.1		4.4	5.0	3.0	3.7	
Metal services, nec	3469	40.6	39.8	40.4	40.5		3.9	3.5	3.5	3.7	
Plating and polishing	347	40.7	40.3	40.3	40.2	-	3.4	3.2	3.2	3.3	
Metal coating and allied services	3471	40.5	39.9	40.1	40.1		3.5	3.1	3.1	3.3	
Ordnance and accessories, nec	3479	41.0	41.1	40.6	40.5		3.3	3.4	3.5	3.3	
Ammunition, except for small arms, nec	348	40.7	41.3	41.2	41.3		3.2	3.5	2.8	3.4	
Misc. fabricated metal products	3483	39.5	40.1	40.7	40.4	-	2.7	2.6	2.4	2.8	
Valves and pipe fittings	349	40.8	41.2	40.7	41.2	-	3.5	3.8	3.2	3.7	
Misc. fabricated wire products	3494	41.5	41.4	41.7	41.8		3.6	4.1	3.8	4.1	
Machinery, except electrical	3496	40.2	40.5	40.0	40.4		3.3	2.9	3.0	3.6	
Engines and turbines	35	41.9	41.7	42.3	42.0	42.7	4.0	3.9	4.1	4.1	
Turbines and turbine generator sets	351	42.3	42.8	45.3	43.4	-	5.4	5.1	3.9	4.8	
Internal combustion engines, nec	3511	38.7	39.3	43.3	43.9		4.1	4.2	5.1	5.3	
Farm and garden machinery	3519	43.4	43.8	45.9	43.2		5.8	5.4	3.5	4.6	
Farm machinery and equipment	352	41.2	41.5	41.6	41.6		3.1	3.2	3.7	3.6	
	3523	42.3	42.0	43.3	42.8		3.9	3.9	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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.92	\$12.15	\$12.38	\$12.20		\$497.06	\$494.51	\$515.01	\$502.64	
Pressed and blown glass, nec	3229	10.94	11.10	11.30	11.20		448.54	465.09	466.69	464.80	
Products of purchased glass	323	8.76	8.81	9.15	8.97		360.04	365.62	381.56	369.56	
Cement, hydraulic	324	13.43	13.74	13.17	13.16		562.72	593.57	557.09	559.30	
Structural clay products	325	8.56	8.61	8.95	8.89		362.09	363.34	375.01	373.38	
Pottery and related products	326	8.88	9.08	9.50	9.32		354.31	360.48	375.25	376.53	
Concrete, gypsum, and plaster products	327	10.10	10.06	10.27	10.23		447.43	439.62	450.85	452.17	
Concrete block and brick	3271	9.02	8.90	9.39	9.35		409.51	395.16	427.25	430.10	
Concrete products, nec	3272	9.00	9.02	9.22	9.23		392.40	386.96	397.38	397.81	
Ready-mixed concrete	3273	10.92	10.82	11.09	10.99		480.48	468.26	482.42	484.66	
Misc. nonmetallic mineral products	329	10.40	10.47	10.63	10.55		433.68	442.88	444.33	442.05	
Abrasive products	3291	9.67	9.81	10.01	9.90		411.94	408.10	428.43	422.73	
Asbestos products	3292	10.19	10.27	10.54	10.82		420.85	435.45	428.98	443.62	
Primary metal industries	33	11.93	12.19	12.22	12.13	\$12.28	511.80	526.61	525.46	524.02	\$537.86
Blast furnaces and basic steel products	331	13.74	14.12	14.09	14.02	14.20	594.94	631.16	619.96	612.67	631.90
Blast furnaces and steel mills	3312	14.44	14.88	14.88	14.78	-	626.70	674.06	660.67	651.80	-
Steel pipe and tubes	3317	10.92	10.91	10.85	10.80		459.73	454.95	453.53	453.60	
Iron and steel foundries	332	10.71	10.75	10.94	10.83		455.18	448.28	466.04	468.94	
Gray iron foundries	3321	11.19	11.19	11.48	11.41		477.81	471.10	485.60	497.48	
Malleable iron foundries	3322	11.53	11.61	12.22	11.44		485.41	450.47	515.68	472.47	
Steel foundries, nec	3325	9.89	10.05	10.15	9.99		419.34	421.10	437.47	421.58	
Primary nonferrous metals	333	13.01	13.29	13.26	13.10	-	563.33	595.39	579.46	573.78	
Primary aluminum	3334	13.44	13.75	13.60	13.38		595.39	628.38	595.68	593.18	
Nonferrous rolling and drawing	335	11.43	11.66	11.70	11.64		493.78	503.71	503.10	501.68	
Copper rolling and drawing	3351	10.70	10.78	10.92	10.88		466.52	460.31	461.92	466.75	
Aluminum sheet, plate, and foil	3353	13.99	14.44	14.00	14.15		618.36	633.92	632.80	636.75	
Nonferrous wire drawing and insulating	3357	11.43	11.76	11.92	11.82		490.35	510.38	505.41	501.17	
Nonferrous foundries	336	9.43	9.47	9.52	9.53		392.29	387.32	385.56	393.59	
Aluminum foundries	3361	9.67	9.72	9.64	9.71	-	409.04	401.44	393.31	405.88	
Fabricated metal products	34	9.94	10.00	10.18	10.20	10.36	410.52	410.00	417.38	423.30	437.19
Metal cans and shipping containers	341	13.34	13.33	13.42	13.41	-	598.97	583.85	602.56	611.50	-
Metal cans	3411	14.14	14.09	14.21	14.21		637.71	622.78	646.56	655.06	
Cutlery, hand tools, and hardware	342	9.79	9.85	10.05	10.03	-	398.45	395.97	407.03	408.22	
Hand and edge tools, and hand saws and blades	3423,5	9.09	9.23	9.19	9.18	-	373.60	370.12	371.28	371.79	
Hardware, nec	3429	10.14	10.13	10.46	10.43	-	407.63	407.23	421.54	422.42	
Plumbing and heating, except electric	343	9.18	9.23	9.34	9.29	-	376.38	376.58	379.20	382.75	
Plumbing fittings and brass goods	3432	8.68	8.73	9.01	9.02	-	359.35	362.30	364.91	364.41	-
Heating equipment, except electric	3433	9.24	9.26	9.13	9.16	-	370.52	369.47	370.68	382.89	-
Fabricated structural metal products	344	9.28	9.32	9.57	9.54	-	380.48	378.39	390.46	393.05	
Fabricated structural metal	3441	9.89	9.90	10.25	10.28	-	417.36	415.80	432.55	439.98	
Metal doors, sash, and trim	3442	7.57	7.68	8.10	8.01	-	305.83	304.90	325.62	324.41	-
Fabricated plate work (boiler shops)	3443	10.30	10.36	10.34	10.21	-	433.63	432.01	434.28	429.84	-
Sheet metal work	3444	9.73	9.69	9.93	9.92	-	387.25	382.76	393.23	394.82	
Architectural metal work	3446	8.81	8.98	8.86	8.87	-	356.81	361.89	351.74	361.01	
Screw machine products, bolts, etc	345	9.82	9.77	9.92	9.95	-	413.42	404.48	422.59	422.88	-
Screw machine products	3451	9.13	9.11	9.29	9.27	-	374.33	373.51	383.68	381.92	
Bofts, nuts, rivets, and washers	3452	10.56	10.51	10.66	10.72	-	459.36	440.37	470.11	472.75	
Metal forgings and stampings	346	11.60	11.75	11.97	12.07	-	482.56	485.28	488.38	506.94	-
Iron and steel forgings	3462	12.37	12.80	12.97	12.94	-	514.59	531.20	556.41	549.95	
Automotive stampings	3465	13.46	13.55	14.08	14.20	-	569.36	577.23	567.42	612.02	-
Metal stampings, nec	3469	9.27	9.28	9.44	9.48	-	376.36	369.34	381.38	383.94	-
Metal services, nec	347	7.98	8.00	8.26	8.26	-	324.79	322.40	332.88	332.05	
Plating and polishing	3471	7.97	7.98	8.23	8.23	-	322.79	318.40	330.02	330.02	-
Metal coating and allied services	3479	8.01	8.04	8.32	8.31	-	328.41	330.44	337.79	336.56	
Ordinance and accessories, nec	348	10.90	10.97	11.31	11.32	-	443.63	453.06	465.97	467.52	-
Ammunition, except for small arms, nec	3483	10.44	10.42	10.94	11.03	-	412.38	417.84	445.26	445.61	-
Misc. fabricated metal products	349	9.32	9.38	9.53	9.56	-	380.26	386.46	387.87	393.87	-
Valves and pipe fittings	3494	10.02	10.11	10.38	10.41	-	415.83	418.55	432.85	435.14	-
Misc. fabricated wire products	3496	8.36	8.41	8.38	8.47	-	336.07	340.61	335.20	342.19	-
Machinery, except electrical	35	10.70	10.74	10.94	10.93	11.05	448.33	447.86	462.76	459.06	471.84
Engines and turbines	351	13.40	13.39	13.71	13.68	-	566.82	573.09	621.06	593.71	-
Turbines and turbine generator sets	3511	13.36	13.28	13.90	13.83	-	517.03	521.90	601.87	607.14	-
Internal combustion engines, nec	3519	13.41	13.42	13.66	13.64	-	581.99	587.80	626.99	589.25	-
Farm and garden machinery	352	9.84	9.98	10.22	10.26	-	405.41	414.17	425.15	426.82	-
Farm machinery and equipment	3523	10.40	10.64	10.81	10.74	-	439.92	446.88	468.07	459.67	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	42.7	42.7	42.9	42.9		3.9	4.1	4.2	3.9	
Construction machinery	3531	43.6	43.7	44.1	44.0		3.4	3.8	3.9	3.5	
Mining machinery	3532	42.7	42.7	40.8	41.5		4.5	4.4	4.0	4.0	
Oil field machinery	3533	43.3	43.4	42.4	42.7		5.5	6.2	5.3	5.3	
Conveyors and conveying equipment	3535	42.8	42.0	43.9	43.1		4.6	3.8	5.1	4.6	
Industrial trucks and tractors	3537	40.1	40.5	41.3	41.4		3.4	3.1	3.4	3.2	
Metalworking machinery	354	42.1	41.7	42.9	42.9		4.5	4.2	5.0	5.0	
Machine tools, metal cutting types	3541	41.6	40.9	42.2	42.7		3.8	3.6	4.3	4.4	
Machine tools, metal forming types	3542	42.6	43.1	44.9	43.6		4.9	5.6	5.9	5.3	
Special dies, tools, jigs, and fixtures	3544	42.7	42.2	43.6	43.7		5.2	4.7	5.8	5.8	
Machine tool accessories	3545	41.1	41.0	41.6	41.3		4.0	3.7	4.1	3.9	
Power driven hand tools	3546	41.6	40.5	41.6	42.0		3.4	2.8	3.4	3.9	
Special industry machinery	355	41.6	41.3	41.6	41.5		4.1	4.1	4.5	4.3	
Food products machinery	3551	41.7	41.0	41.8	41.9		3.7	3.5	3.9	3.8	
Textile machinery	3552	42.6	42.8	41.7	41.6		4.1	3.5	3.2	3.4	
Printing trades machinery	3555	39.7	39.4	39.6	38.6		4.3	4.9	5.0	4.6	
General industrial machinery	356	41.8	41.6	42.4	42.2		3.9	3.9	4.5	4.4	
Pumps and pumping equipment	3561	42.9	42.4	43.3	42.7		4.4	4.0	4.4	4.2	
Ball and roller bearings	3562	42.2	42.3	43.0	43.1		4.4	4.5	5.4	5.8	
Air and gas compressors	3563	41.3	41.8	41.9	42.1		3.6	4.4	4.1	4.1	
Blowers and fans	3564	41.8	41.2	41.1	41.4		4.0	3.4	3.2	3.3	
Speed changers, drives, and gears	3566	41.3	41.1	42.1	43.5		4.3	4.0	5.3	6.1	
Power transmission equipment, nec	3568	41.4	41.0	41.9	40.2		4.2	4.6	4.8	4.6	
Office and computing machines	357	42.9	42.6	41.5	41.1		3.4	3.8	2.8	3.0	
Electronic computing equipment	3573	42.6	42.5	41.5	41.1		3.3	3.7	2.8	3.0	
Refrigeration and service machinery	358	41.4	40.9	41.6	41.3		3.7	3.5	3.5	3.5	
Refrigeration and heating equipment	3585	41.7	41.2	42.2	41.7		3.8	3.7	3.8	3.7	
Misc. machinery, except electrical	359	41.3	41.1	41.8	41.4		3.9	3.7	4.3	4.3	
Carburetors, pistons, rings, and valves	3592	41.3	41.2	42.7	42.1		3.8	3.3	4.9	4.7	
Machinery, except electrical, nec	3599	41.3	41.1	41.7	41.4		3.9	3.7	4.2	4.3	
Electrical and electronic equipment	36	40.7	40.4	40.4	40.6	40.9	3.0	3.1	2.9	3.2	
Electric distributing equipment	361	40.8	40.8	41.9	42.0	-	3.3	3.2	3.7	3.7	
Transformers	3612	41.7	41.8	41.9	42.1		3.5	3.5	3.3	3.7	
Switchgear and switchboard apparatus	3613	40.1	39.9	41.9	41.9		3.2	2.9	4.0	3.7	
Electrical industrial apparatus	362	41.1	40.6	41.8	41.8		3.4	3.4	3.7	3.5	
Motors and generators	3621	40.8	40.0	41.6	41.8		3.5	3.2	3.9	3.8	
Industrial controls	3622	40.7	40.8	41.1	40.5		2.6	2.8	2.6	2.3	
Household appliances	363	39.8	39.6	39.1	39.3		2.2	2.9	2.4	3.1	
Household refrigerators and freezers	3632	40.2	39.8	38.8	40.2		1.9	3.4	3.6	4.6	
Household laundry equipment	3633	40.8	39.7	40.3	38.7		2.5	3.2	2.2	2.0	
Electric housewares and fans	3634	40.1	40.3	39.5	40.5		2.6	3.2	2.5	3.6	
Electric lighting and wiring equipment	364	40.0	39.5	39.3	39.8		2.7	2.7	2.5	3.2	
Electric lamps	3641	39.8	39.2	40.2	40.8		2.0	2.4	2.9	3.3	
Current-carrying wiring devices	3643	40.2	39.3	38.8	38.7		3.0	2.8	2.6	2.9	
Noncurrent-carrying wiring devices	3644	40.5	40.1	39.7	40.9		2.5	2.9	2.5	2.8	
Residential lighting fixtures	3645	38.9	38.2	38.2	38.1		1.6	1.7	1.3	2.1	
Radio and TV receiving equipment	365	40.6	39.7	40.8	40.3		2.7	3.1	2.7	3.3	
Radio and TV receiving sets	3651	40.1	39.2	40.5	39.8		2.2	2.5	2.0	2.7	
Communication equipment	366	40.9	41.2	40.7	40.7		2.6	2.7	2.3	2.6	
Telephone and telegraph apparatus	3661	42.0	42.4	42.2	42.1		2.7	3.0	2.6	3.0	
Radio and TV communication equipment	3662	40.5	40.8	40.1	40.2		2.5	2.6	2.1	2.4	
Electronic components and accessories	367	40.6	40.4	39.9	40.1		3.3	3.2	3.0	3.2	
Electronic tubes	3671-3	40.4	41.1	41.1	41.6		2.1	2.3	2.9	2.9	
Semiconductors and related devices	3674	40.3	40.2	40.0	40.1		3.6	3.7	3.4	3.5	
Electronic components, nec	3679	41.0	40.8	39.9	40.3		3.5	3.4	3.0	3.2	
Misc. electrical equipment and supplies	369	41.5	40.9	41.2	41.7		3.4	3.5	3.2	3.9	
Storage batteries	3691	41.1	40.5	40.9	42.4		3.8	4.0	2.9	3.7	
Engine electrical equipment	3694	42.4	41.8	41.2	41.5		3.9	4.2	3.6	4.3	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$10.99	\$11.06	\$11.03	\$11.05		\$469.27	\$472.26	\$473.19	\$474.05	
Construction machinery	3531	12.17	12.36	12.29	12.28		530.61	540.13	541.99	540.32	
Mining machinery	3532	11.27	11.34	11.43	11.46		481.23	484.22	466.34	475.59	
Oil field machinery	3533	10.91	10.78	10.65	10.65		472.40	467.85	451.56	454.76	
Conveyors and conveying equipment	3535	9.78	9.78	9.93	10.07		418.58	410.76	435.93	434.02	
Industrial trucks and tractors	3537	9.63	9.68	9.80	9.90		386.16	392.04	404.74	409.86	
Metalworking machinery	354	11.06	11.08	11.39	11.33		465.63	462.04	488.63	486.06	
Machine tools, metal cutting types	3541	11.04	11.12	11.37	11.26		459.26	454.81	479.81	480.80	
Machine tools, metal forming types	3542	11.51	11.52	11.80	11.71		490.33	496.51	529.82	510.56	
Special dies, tools, jigs, and fixtures	3544	11.81	11.81	12.19	12.09		504.29	498.38	531.48	528.33	
Machine tool accessories	3545	9.94	9.92	10.07	10.17		408.53	406.72	418.91	420.02	
Power driven hand tools	3546	8.59	8.62	9.10	9.06		357.34	349.11	378.56	380.52	
Special industry machinery	355	10.63	10.74	11.13	11.06		442.21	443.56	463.01	458.99	
Food products machinery	3551	10.66	10.78	10.96	10.96		444.52	441.98	458.13	459.22	
Textile machinery	3552	8.76	8.80	9.13	9.13		373.18	376.64	380.72	379.81	
Printing trades machinery	3555	11.58	11.71	12.22	12.05		459.73	461.37	483.91	465.13	
General industrial machinery	356	10.37	10.39	10.56	10.50		433.47	432.22	447.74	443.10	
Pumps and pumping equipment	3561	10.94	10.99	11.22	11.08		469.33	465.98	485.83	473.12	
Ball and roller bearings	3562	10.89	10.98	10.96	10.83		459.56	464.45	471.28	466.77	
Air and gas compressors	3563	10.34	10.30	10.42	10.34		427.04	430.54	436.60	435.31	
Blowers and fans	3564	9.26	9.22	9.38	9.37		387.07	379.86	385.52	387.92	
Speed changers, drives, and gears	3566	10.22	10.28	10.48	10.60		422.09	422.51	441.21	461.10	
Power transmission equipment, nec	3568	10.46	10.48	10.63	10.54		433.04	429.68	445.40	423.71	
Office and computing machines	357	10.34	10.39	10.69	10.75		443.59	442.61	443.64	441.83	
Electronic computing equipment	3573	10.32	10.37	10.66	10.70		439.63	440.73	442.39	439.77	
Refrigeration and service machinery	358	10.44	10.43	10.49	10.48		432.22	426.59	436.38	432.82	
Refrigeration and heating equipment	3585	10.61	10.62	10.68	10.61		442.44	437.54	450.70	442.44	
Misc. machinery, except electrical	359	10.40	10.41	10.53	10.56		429.52	427.85	440.15	437.18	
Carburetors, pistons, rings, and valves	3592	12.66	12.58	12.61	12.60		522.86	518.30	538.45	530.46	
Machinery, except electrical, nec	3599	10.09	10.11	10.26	10.29		416.72	415.52	427.84	426.01	
Electrical and electronic equipment	36	9.88	9.94	10.13	10.15	\$10.20	402.12	401.58	409.25	412.09	\$417.18
Electric distributing equipment	361	9.33	9.33	9.46	9.50	-	380.66	380.66	396.37	399.00	-
Transformers	3612	9.20	9.29	9.24	9.32		383.64	388.32	387.16	392.37	
Switchgear and switchboard apparatus	3613	9.44	9.37	9.65	9.66		378.54	373.86	404.34	404.75	
Electrical industrial apparatus	362	9.81	9.87	10.04	10.02		403.19	400.72	419.67	418.84	
Motors and generators	3621	9.68	9.66	9.90	9.94		394.94	386.40	411.84	415.49	
Industrial controls	3622	9.77	9.91	10.07	9.96		397.64	404.33	413.88	403.38	
Household appliances	363	9.87	9.92	10.13	10.07		392.83	392.83	396.08	395.75	
Household refrigerators and freezers	3632	11.34	11.56	11.77	11.77		455.87	460.09	456.68	473.15	
Household laundry equipment	3633	11.83	11.89	11.79	11.81		482.66	472.03	475.14	457.05	
Electric housewares and fans	3634	7.31	7.26	7.35	7.41		293.13	292.58	290.33	300.11	
Electric lighting and wiring equipment	364	9.07	9.18	9.49	9.58		362.80	362.61	372.96	381.28	
Electric lamps	3641	10.44	10.46	10.72	10.79		415.51	410.03	430.94	440.23	
Current-carrying wiring devices	3643	8.64	8.71	9.45	9.46		347.33	342.30	366.66	366.10	
Noncurrent-carrying wiring devices	3644	9.25	9.30	9.23	9.18		374.63	372.93	366.43	375.46	
Residential lighting fixtures	3645	6.73	6.82	7.09	7.04		261.80	260.52	270.84	268.22	
Radio and TV receiving equipment	365	8.97	9.09	9.45	9.55		364.18	360.87	385.56	384.87	
Radio and TV receiving sets	3651	9.23	9.29	9.75	9.94		370.12	364.17	394.88	395.61	
Communication equipment	366	11.81	11.89	12.13	12.14		483.03	489.87	493.69	494.10	
Telephone and telegraph apparatus	3661	11.38	11.34	11.72	11.76		477.96	480.82	494.58	495.10	
Radio and TV communication equipment	3662	11.97	12.09	12.29	12.29		484.79	493.27	492.83	494.06	
Electronic components and accessories	367	8.93	8.96	9.14	9.16		362.56	361.98	364.69	367.32	
Electronic tubes	3671-3	11.26	11.36	11.53	11.48		454.90	466.90	473.88	477.57	
Semiconductors and related devices	3674	10.71	10.79	11.11	11.18		431.61	433.76	444.40	448.32	
Electronic components, nec	3679	8.11	8.08	8.17	8.18		332.51	329.66	325.98	329.65	
Misc. electrical equipment and supplies	369	10.48	10.58	10.61	10.73		434.92	432.72	437.13	447.44	
Storage batteries	3691	11.16	11.37	10.81	11.07		458.68	460.49	442.13	469.37	
Engine electrical equipment	3694	11.05	11.10	11.35	11.50		468.52	463.98	467.62	477.25	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Durable goods—Continued											
Transportation equipment	37	41.0	41.1	41.7	41.9	43.4	3.9	4.2	4.2	4.5	-
Motor vehicles and equipment	371	40.7	41.1	41.6	42.3	44.7	3.8	4.3	4.4	4.9	-
Motor vehicles and car bodies	3711	38.6	40.3	40.8	41.4	-	3.0	4.0	4.4	4.7	-
Truck and bus bodies	3713	42.3	41.2	41.7	42.2	-	4.2	4.3	3.8	3.8	-
Motor vehicle parts and accessories	3714	42.2	41.8	42.2	43.1	-	4.5	4.7	4.5	5.2	-
Truck trailers	3715	41.2	40.0	39.5	39.9	-	3.6	3.2	2.6	2.7	-
Aircraft and parts	372	42.0	41.9	42.3	41.8	-	4.8	4.7	4.5	4.6	-
Aircraft	3721	41.9	42.1	41.8	41.2	-	4.3	4.4	3.9	4.1	-
Aircraft engines and engine parts	3724	42.5	41.8	42.7	41.7	-	5.3	4.7	4.8	4.7	-
Aircraft equipment, nec	3728	41.9	41.7	42.8	42.8	-	5.3	5.2	5.3	5.2	-
Ship and boat building and repairing	373	39.9	39.7	40.2	40.5	-	2.5	2.8	2.8	2.8	-
Ship building and repairing	3731	40.0	40.2	40.7	40.9	-	2.4	3.1	3.0	3.2	-
Boat building and repairing	3732	39.8	38.8	39.4	40.0	-	2.6	2.3	2.6	2.2	-
Railroad equipment	374	41.2	40.8	40.8	42.4	-	2.3	1.8	3.3	4.4	-
Guided missiles, space vehicles, and parts	376	42.3	42.4	42.9	42.7	-	4.1	4.5	4.5	4.5	-
Guided missiles and space vehicles	3761	42.2	42.3	42.9	42.4	-	4.1	4.5	4.7	4.6	-
Miscellaneous transportation equipment	379	39.7	39.2	40.6	39.7	-	3.6	3.2	3.1	2.7	-
Travel trailers and campers	3792	38.3	36.5	39.5	38.9	-	2.2	1.2	3.2	2.7	-
Instruments and related products	38	41.3	41.0	41.1	41.1	41.3	2.9	3.0	2.8	2.8	-
Engineering and scientific instruments	381	41.9	41.3	41.8	41.2	-	3.2	3.1	2.9	2.7	-
Measuring and controlling devices	382	41.0	40.5	40.9	40.7	-	2.6	2.6	2.6	2.6	-
Environmental controls	3822	39.9	39.3	38.5	39.5	-	2.9	2.7	2.0	2.3	-
Process control instruments	3823	42.0	42.1	43.4	43.5	-	3.4	3.4	3.7	3.8	-
Instruments to measure electricity	3825	40.8	40.0	40.4	39.8	-	2.1	2.0	2.0	2.0	-
Optical instruments and lenses	383	41.9	43.0	43.9	43.0	-	3.0	3.2	3.3	2.4	-
Medical instruments and supplies	384	40.6	40.4	40.3	40.4	-	2.9	3.0	2.6	2.7	-
Surgical and medical instruments	3841	40.6	40.4	39.5	39.7	-	2.8	3.0	2.3	2.6	-
Surgical appliances and supplies	3842	40.5	40.4	40.8	41.0	-	3.1	3.1	2.9	2.9	-
Ophthalmic goods	385	40.6	40.8	39.2	39.8	-	2.5	2.8	2.2	2.9	-
Photographic equipment and supplies	386	43.3	43.7	43.7	44.0	-	3.7	4.2	3.7	3.9	-
Watches, clocks, and watchcases	387	41.0	38.2	39.9	40.5	-	2.2	2.7	1.5	2.3	-
Miscellaneous manufacturing	39	39.5	39.1	38.5	38.9	39.1	2.7	2.7	2.1	2.3	-
Jewelry, silverware, and plated ware	391	38.2	38.1	37.7	37.2	-	2.0	2.4	1.0	1.6	-
Jewelry, precious metal	3911	37.6	37.4	36.7	36.0	-	1.7	2.2	.3	.9	-
Musical instruments	393	41.7	40.3	38.3	39.9	-	3.0	2.4	1.8	2.2	-
Toys and sporting goods	394	39.7	39.1	38.6	39.4	-	2.7	2.3	2.1	2.2	-
Dolls, games, toys, and children's vehicles	3942,4	39.0	38.5	37.0	38.2	-	2.7	2.7	1.2	1.7	-
Sporting and athletic goods, nec	3949	40.3	39.6	39.8	40.3	-	2.6	2.0	2.8	2.7	-
Pens, pencils, office, and art supplies	395	40.5	40.1	40.2	39.7	-	2.2	2.2	2.8	2.6	-
Costume jewelry and notions	396	37.2	37.5	36.2	36.6	-	3.3	3.4	1.3	1.7	-
Costume jewelry	3961	34.5	35.2	34.3	35.0	-	2.7	3.0	.7	.8	-
Miscellaneous manufactures	399	40.1	39.6	39.0	39.7	-	3.0	3.0	2.5	2.8	-
Signs and advertising displays	3993	39.7	39.3	39.2	39.7	-	2.9	2.9	2.8	2.9	-
Nondurable goods		40.4	40.3	39.9	40.2	40.5	3.9	4.0	3.6	3.8	4.1
Food and kindred products	20	40.6	40.8	40.4	40.9	41.2	4.6	4.9	4.6	4.9	-
Meat products	201	39.8	40.5	40.1	40.7	-	4.0	4.3	4.3	4.3	-
Meat packing plants	2011	41.5	41.4	41.5	42.2	-	4.8	5.2	5.6	5.5	-
Sausages and other prepared meats	2013	41.1	40.8	41.3	41.3	-	4.1	4.3	5.2	4.8	-
Poultry dressing plants	2016	38.1	39.9	38.5	39.2	-	3.4	3.7	3.1	3.1	-
Dairy products	202	41.5	42.4	41.7	40.8	-	4.5	5.4	4.7	4.2	-
Cheese, natural and processed	2022	39.7	40.4	39.8	39.2	-	3.8	4.5	3.6	3.5	-
Fluid milk	2026	42.4	44.1	42.5	42.0	-	5.0	6.5	5.2	4.9	-
Preserved fruits and vegetables	203	40.7	40.1	38.5	41.2	-	5.8	5.7	4.3	6.5	-
Canned specialties	2032	40.5	41.4	41.2	43.6	-	5.6	7.8	3.9	7.6	-
Canned fruits and vegetables	2033	41.1	40.3	38.8	41.9	-	6.8	6.4	5.4	8.0	-
Frozen fruits and vegetables	2037	40.1	39.2	36.4	40.1	-	5.6	6.2	3.4	5.8	-
Grain mill products	204	44.0	45.1	44.9	44.8	-	6.1	7.2	6.8	6.6	-
Flour and other grain mill products	2041	46.9	48.6	48.1	46.4	-	6.7	8.9	8.5	7.1	-
Prepared feeds, nec	2048	43.8	44.4	43.2	43.0	-	6.3	7.0	6.3	6.1	-
Bakery products	205	39.8	40.1	40.3	40.2	-	3.9	4.3	4.1	4.2	-
Bread, cake, and related products	2051	39.0	39.4	39.5	39.0	-	3.9	4.7	4.2	4.1	-
Cookies and crackers	2052	41.8	41.9	42.3	43.1	-	3.9	3.4	3.9	4.3	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Durable goods—Continued											
Transportation equipment	37	\$12.88	\$13.04	\$13.23	\$13.27	\$13.50	\$528.08	\$535.94	\$551.69	\$556.01	\$585.90
Motor vehicles and equipment	371	13.40	13.64	13.86	13.92	14.20	545.38	560.60	576.58	588.82	634.74
Motor vehicles and car bodies	3711	15.33	15.53	16.03	16.15	-	591.74	625.86	654.02	668.61	-
Truck and bus bodies	3713	11.29	11.45	11.66	11.66	-	477.57	471.74	486.22	492.05	-
Motor vehicle parts and accessories	3714	12.63	12.81	13.04	13.15	-	532.99	535.46	550.29	566.77	-
Truck trailers	3715	9.34	9.21	9.25	9.21	-	384.81	368.40	365.38	367.48	-
Aircraft and parts	372	13.22	13.26	13.61	13.61	-	555.24	555.59	575.70	568.90	-
Aircraft	3721	(?)	(?)	(?)	(?)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.48	\$13.42	\$14.04	\$13.85	-	\$572.90	\$560.96	\$599.51	\$577.55	-
Aircraft equipment, nec	3728	12.26	12.38	12.57	12.59	-	513.69	516.25	538.00	538.85	-
Ship and boat building and repairing	373	10.30	10.46	10.29	10.27	-	410.97	415.26	413.66	415.94	-
Ship building and repairing	3731	11.56	11.71	11.48	11.54	-	462.40	470.74	467.24	471.99	-
Boat building and repairing	3732	8.01	8.05	8.40	8.24	-	318.80	312.34	330.96	329.60	-
Railroad equipment	374	11.85	11.93	11.95	12.09	-	488.22	486.74	487.56	512.62	-
Guided missiles, space vehicles, and parts	376	12.80	12.89	13.18	13.27	-	541.44	546.54	565.42	566.63	-
Guided missiles and space vehicles	3761	(?)	(?)	(?)	(?)	-	-	-	-	-	-
Miscellaneous transportation equipment	379	\$10.54	\$10.38	\$10.37	\$10.19	-	\$418.44	\$406.90	\$421.02	\$404.54	-
Travel trailers and campers	3792	8.67	8.52	8.65	8.58	-	332.06	310.98	341.68	333.76	-
Instruments and related products	38	9.74	9.76	9.93	9.92	9.94	402.26	400.16	408.12	407.71	410.52
Engineering and scientific instruments	381	10.72	10.68	11.00	11.01	-	449.17	441.08	459.80	453.61	-
Measuring and controlling devices	382	9.60	9.60	9.69	9.69	-	393.60	388.80	396.32	394.38	-
Environmental controls	3822	9.05	9.03	9.20	9.25	-	361.10	354.88	354.20	365.38	-
Process control instruments	3823	9.44	9.44	9.37	9.32	-	396.48	397.42	406.66	405.42	-
Instruments to measure electricity	3825	9.88	9.82	9.83	9.84	-	403.10	392.80	397.13	391.63	-
Optical instruments and lenses	383	10.48	10.39	10.92	10.86	-	439.11	446.77	479.39	466.98	-
Medical instruments and supplies	384	8.63	8.62	8.93	8.95	-	350.38	348.25	359.88	361.58	-
Surgical and medical instruments	3841	8.73	8.73	9.15	9.20	-	354.44	352.69	361.43	365.24	-
Surgical appliances and supplies	3842	8.51	8.49	8.68	8.69	-	344.66	343.00	354.14	356.29	-
Ophthalmic goods	385	7.43	7.50	7.49	7.57	-	301.66	306.00	293.61	301.29	-
Photographic equipment and supplies	386	13.19	13.47	13.28	13.24	-	571.13	588.64	580.34	582.56	-
Watches, clocks, and watchcases	387	7.15	7.17	7.41	7.27	-	293.15	273.89	295.66	294.44	-
Miscellaneous manufacturing	39	7.72	7.78	7.94	7.94	8.04	304.94	304.20	305.69	308.87	314.36
Jewelry, silverware, and plated ware	391	8.26	8.40	8.53	8.55	-	315.53	320.04	321.58	318.06	-
Jewelry, precious metal	3911	8.36	8.49	8.63	8.65	-	314.34	317.53	316.72	311.40	-
Musical instruments	393	7.50	7.58	7.85	7.98	-	312.75	305.47	300.66	318.40	-
Toys and sporting goods	394	7.16	7.16	7.16	7.15	-	284.25	279.96	276.38	281.71	-
Dolls, games, toys, and children's vehicles	3942,4	6.95	6.98	6.93	6.92	-	271.05	268.73	256.41	264.34	-
Sporting and athletic goods, nec	3949	7.33	7.31	7.32	7.33	-	295.40	289.48	291.34	295.40	-
Pens, pencils, office, and art supplies	395	7.62	7.65	7.84	7.94	-	308.61	306.77	315.17	315.22	-
Costume jewelry and notions	396	6.37	6.40	6.77	6.85	-	236.96	240.00	245.07	250.71	-
Costume jewelry	3961	5.80	5.82	6.26	6.34	-	200.10	204.86	214.72	221.90	-
Miscellaneous manufactures	399	8.43	8.54	8.71	8.68	-	338.04	338.18	339.69	344.60	-
Signs and advertising displays	3993	8.85	8.98	9.07	9.01	-	351.35	352.91	355.54	357.70	-
Nondurable goods		9.14	9.30	9.45	9.40	9.52	369.26	374.79	377.06	377.88	385.56
Food and kindred products	20	8.82	8.95	9.13	9.04	9.14	358.09	365.16	368.85	369.74	376.57
Meat products	201	7.45	7.50	7.63	7.57	-	296.51	303.75	305.96	308.10	-
Meat packing plants	2011	8.44	8.45	8.50	8.44	-	350.26	349.83	352.75	356.17	-
Sausages and other prepared meats	2013	8.81	8.95	9.08	8.99	-	362.09	365.16	375.00	371.29	-
Poultry dressing plants	2016	6.11	6.21	6.36	6.31	-	232.79	247.78	244.86	247.35	-
Dairy products	202	9.56	9.80	9.85	9.85	-	396.74	415.52	410.75	401.88	-
Cheese, natural and processed	2022	8.85	9.18	9.11	9.16	-	351.35	370.87	362.58	359.07	-
Fluid milk	2026	10.09	10.31	10.37	10.33	-	427.82	454.67	440.73	433.86	-
Preserved fruits and vegetables	203	7.96	8.15	8.41	8.24	-	323.97	326.82	323.79	339.49	-
Canned specialties	2032	9.96	9.92	10.52	10.24	-	403.38	410.69	433.42	446.46	-
Canned fruits and vegetables	2033	7.98	7.97	8.45	8.37	-	327.98	321.19	327.86	350.70	-
Frozen fruits and vegetables	2037	7.08	7.56	7.63	7.27	-	283.91	296.35	277.73	291.53	-
Grain mill products	204	10.83	11.02	11.23	11.22	-	476.52	497.00	504.23	502.66	-
Flour and other grain mill products	2041	10.41	10.79	10.98	11.01	-	488.23	524.39	528.14	510.86	-
Prepared feeds, nec	2048	8.39	8.54	8.69	8.64	-	367.48	379.18	375.41	371.52	-
Bakery products	205	9.96	10.15	10.28	10.30	-	396.41	407.02	414.28	414.06	-
Bread, cake, and related products	2051	9.93	10.19	10.24	10.23	-	387.27	401.49	404.48	398.97	-
Cookies and crackers	2052	10.02	10.05	10.38	10.47	-	418.84	421.10	439.07	451.26	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.4	39.9	40.1	40.5	-	3.2	3.3	3.7	3.6	-
Cane and beet sugar	2061-3	41.2	42.3	41.5	40.4	-	4.5	5.5	6.0	5.1	-
Confectionery products	2065	39.6	38.6	39.0	39.9	-	2.8	2.6	3.0	3.0	-
Fats and oils	207	41.4	43.4	42.9	42.0	-	5.1	6.0	5.3	5.1	-
Beverages	208	41.2	40.7	42.1	41.2	-	4.2	4.2	5.1	4.1	-
Malt beverages	2082	42.7	41.6	44.8	43.1	-	5.0	5.6	7.2	5.5	-
Bottled and canned soft drinks	2086	41.4	40.0	41.7	41.3	-	4.4	3.4	4.9	4.2	-
Misc. food and kindred products	209	39.7	39.2	38.6	38.4	-	4.6	4.2	4.3	4.3	-
Tobacco manufactures	21	37.8	40.1	39.2	39.1	40.4	3.1	2.6	2.9	2.4	-
Cigarettes	211	38.4	39.5	39.5	39.9	-	3.3	2.6	3.0	2.7	-
Textile mill products	22	42.2	41.7	40.4	41.1	41.3	4.6	4.5	3.5	4.1	-
Weaving mills, cotton	221	43.7	43.4	39.9	40.9	-	6.5	6.4	3.6	4.2	-
Weaving mills, synthetics	222	42.5	42.5	41.2	42.3	-	4.7	4.9	3.9	4.7	-
Weaving and finishing mills, wool	223	41.5	40.1	40.3	40.7	-	1.4	1.1	2.9	3.7	-
Narrow fabric mills	224	40.8	40.2	40.6	41.1	-	3.8	3.4	3.0	3.9	-
Knitting mills	225	40.5	39.8	39.6	40.0	-	3.5	3.3	2.9	3.3	-
Women's hosiery, except socks	2251	39.1	37.6	37.4	38.5	-	3.3	2.8	1.9	2.7	-
Hosiery, nec	2252	40.2	38.5	39.0	39.3	-	2.9	2.2	2.6	2.8	-
Knit outerwear mills	2253	40.1	39.9	40.2	39.9	-	3.3	3.6	3.1	3.2	-
Knit underwear mills	2254	39.6	39.9	38.6	39.7	-	2.1	2.4	1.8	2.3	-
Circular knit fabric mills	2257	42.8	41.6	40.1	40.9	-	4.7	4.3	3.8	4.3	-
Textile finishing, except wool	226	42.9	42.3	40.7	42.1	-	5.3	4.7	3.8	5.1	-
Finishing plants, cotton	2261	43.4	42.6	42.2	43.1	-	5.4	4.2	4.0	5.3	-
Finishing plants, synthetics	2262	42.6	42.4	39.7	41.8	-	4.8	4.4	3.5	5.5	-
Floor covering mills	227	44.1	42.4	42.7	43.8	-	4.9	3.8	4.5	4.8	-
Yarn and thread mills	228	42.8	42.6	39.8	40.5	-	5.3	5.5	3.8	4.0	-
Yarn mills, except wool	2281	43.7	43.3	40.1	41.0	-	5.8	6.1	4.0	4.3	-
Throwing and winding mills	2282	39.0	39.4	38.5	37.9	-	3.3	3.1	2.5	2.2	-
Miscellaneous textile goods	229	42.4	42.2	41.7	42.2	-	4.6	4.3	3.8	4.4	-
Apparel and other textile products	23	37.3	36.3	36.6	37.0	37.1	1.9	1.8	1.5	1.7	-
Men's and boys' suits and coats	231	35.8	36.1	37.4	36.7	-	1.2	1.3	1.1	1.3	-
Men's and boys' furnishings	232	37.9	36.4	36.6	36.5	-	1.9	1.6	1.3	1.3	-
Men's and boys' shirts and nightwear	2321	38.1	36.4	37.1	37.1	-	1.9	1.4	1.0	1.2	-
Men's and boys' separate trousers	2327	37.5	35.7	36.7	36.5	-	1.5	1.1	1.2	1.4	-
Men's and boys' work clothing	2328	37.6	36.0	36.4	35.1	-	2.0	1.9	1.6	1.3	-
Women's and misses' outerwear	233	35.8	34.3	35.6	35.8	-	1.6	1.3	1.5	1.6	-
Women's and misses' blouses and waists	2331	36.0	34.9	36.3	36.0	-	1.4	1.2	1.1	1.2	-
Women's and misses' dresses	2335	35.4	34.0	34.9	35.5	-	1.4	1.2	1.1	1.5	-
Women's and misses' suits and coats	2337	36.6	33.8	35.9	37.3	-	2.1	1.7	2.1	2.4	-
Women's and misses' outerwear, nec	2339	35.8	34.4	35.6	35.5	-	1.6	1.3	1.5	1.5	-
Women's and children's undergarments	234	38.1	37.9	36.3	38.6	-	1.6	1.8	1.4	1.7	-
Women's and children's underwear	2341	38.4	38.3	36.7	39.5	-	1.5	1.8	1.4	1.8	-
Brassieres and allied garments	2342	36.5	35.3	33.9	33.9	-	2.1	1.7	1.7	1.1	-
Children's outerwear	236	36.2	36.4	37.1	36.7	-	1.8	1.5	1.8	1.7	-
Children's dresses and blouses	2361	35.0	35.5	35.3	35.6	-	1.2	1.3	1.2	1.3	-
Misc. apparel and accessories	238	38.6	38.1	37.7	38.0	-	1.9	2.2	1.9	2.2	-
Misc. fabricated textile products	239	39.2	38.7	38.1	39.1	-	2.9	3.3	2.0	2.7	-
Curtains and draperies	2391	38.4	36.7	36.4	37.0	-	1.9	1.8	.7	1.2	-
House furnishings, nec	2392	39.6	39.8	38.6	39.2	-	3.3	4.2	2.4	2.7	-
Automotive and apparel trimmings	2396	40.3	40.6	38.9	41.2	-	4.4	5.1	3.2	5.3	-
Paper and allied products	26	43.2	44.1	42.9	42.9	43.6	5.2	6.3	5.0	4.9	-
Paper and pulp mills	261,2,6	45.0	47.7	45.0	44.4	-	6.3	9.0	6.3	5.9	-
Paper mills, except building paper	262	45.1	48.3	45.0	44.3	-	6.5	9.4	6.4	5.8	-
Paperboard mills	263	43.6	45.4	43.8	43.7	-	7.3	8.6	7.4	7.3	-
Misc. converted paper products	264	42.0	42.0	41.4	41.7	-	3.9	4.4	3.8	3.8	-
Paper coating and glazing	2641	43.9	43.9	42.7	43.1	-	4.4	4.7	4.0	3.9	-
Envelopes	2642	41.4	40.8	41.2	41.0	-	3.1	3.2	2.8	3.3	-
Bags, except textile bags	2643	41.7	42.2	41.5	41.8	-	4.2	4.9	4.3	4.5	-
Paperboard containers and boxes	265	42.9	42.8	42.4	42.6	-	4.9	5.2	4.4	4.6	-
Folding paperboard boxes	2651	42.2	42.5	41.7	42.4	-	4.4	4.6	4.0	4.3	-
Corrugated and solid fiber boxes	2653	43.5	43.2	42.9	43.3	-	5.5	5.8	4.8	5.2	-
Sanitary food containers	2654	42.0	42.6	43.5	42.0	-	4.2	4.7	5.0	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. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^a	Sept. 1988 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.28	\$9.28	\$9.53	\$9.38	-	\$374.91	\$370.27	\$382.15	\$379.89	-
Cane and beet sugar	2061-3	11.06	10.82	11.50	11.38	-	455.67	457.69	477.25	459.75	-
Confectionery products	2065	8.13	8.11	8.33	8.20	-	321.95	313.05	324.87	327.18	-
Fats and oils	207	9.52	9.40	9.45	9.39	-	394.13	407.96	405.41	394.38	-
Beverages	208	11.90	12.03	12.16	12.14	-	490.28	489.62	511.94	500.17	-
Malt beverages	2082	16.51	16.68	17.09	16.96	-	704.98	693.89	765.63	730.98	-
Bottled and canned soft drinks	2086	9.44	9.51	9.71	9.70	-	390.82	380.40	404.91	400.61	-
Misc. food and kindred products	209	8.27	8.37	8.39	8.41	-	328.32	328.10	323.85	322.94	-
Tobacco manufactures	21	14.55	13.34	15.66	14.60	\$13.71	549.99	534.93	613.87	570.86	\$553.88
Cigarettes	211	17.01	16.82	17.59	17.22	-	653.18	664.39	694.81	687.08	-
Textile mill products	22	7.16	7.23	7.31	7.37	7.45	302.15	301.49	295.32	302.91	307.69
Weaving mills, cotton	221	7.56	7.59	7.62	7.66	-	330.37	329.41	304.04	313.29	-
Weaving mills, synthetics	222	7.70	7.74	7.87	7.93	-	327.25	328.95	324.24	335.44	-
Weaving and finishing mills, wool	223	7.55	7.78	7.95	8.03	-	313.33	311.98	320.39	326.82	-
Narrow fabric mills	224	6.75	6.84	6.80	6.86	-	275.40	274.97	276.08	281.95	-
Knitting mills	225	6.54	6.60	6.62	6.69	-	264.87	262.68	262.15	267.60	-
Women's hosiery, except socks	2251	6.49	6.50	6.52	6.58	-	253.76	244.40	243.85	253.33	-
Hosiery, nec	2252	6.20	6.28	6.39	6.44	-	249.24	241.78	249.21	253.09	-
Knit outerwear mills	2253	6.49	6.57	6.36	6.45	-	260.25	262.14	255.67	257.36	-
Knit underwear mills	2254	6.11	6.21	6.40	6.49	-	241.96	247.78	247.04	257.65	-
Circular knit fabric mills	2257	7.11	7.17	7.37	7.46	-	304.31	298.27	295.54	305.11	-
Textile finishing, except wool	226	7.44	7.48	7.72	7.84	-	319.18	316.40	314.20	330.06	-
Finishing plants, cotton	2261	7.50	7.45	7.71	7.89	-	325.50	317.37	325.36	340.06	-
Finishing plants, synthetics	2262	7.64	7.71	7.99	8.13	-	325.46	326.90	317.20	339.83	-
Floor covering mills	227	7.45	7.49	7.65	7.76	-	328.55	317.58	326.66	339.89	-
Yarn and thread mills	228	6.84	6.91	7.02	7.05	-	292.75	294.37	279.40	285.53	-
Yarn mills, except wool	2281	6.83	6.92	6.99	7.01	-	298.47	299.64	280.30	287.41	-
Throwing and winding mills	2282	6.99	7.00	7.17	7.31	-	272.61	275.80	276.05	277.05	-
Miscellaneous textile goods	229	8.04	8.19	8.30	8.32	-	340.90	345.62	346.11	351.10	-
Apparel and other textile products	23	5.88	5.99	6.02	6.07	6.20	219.32	217.44	220.33	224.59	230.02
Men's and boys' suits and coats	231	6.56	6.65	6.83	6.77	-	234.85	240.07	255.44	248.46	-
Men's and boys' furnishings	232	5.44	5.51	5.56	5.57	-	206.18	200.56	203.50	203.31	-
Men's and boys' shirts and nightwear	2321	5.24	5.36	5.40	5.39	-	199.64	195.10	200.34	199.97	-
Men's and boys' separate trousers	2327	5.27	5.31	5.45	5.47	-	197.63	189.57	200.02	199.66	-
Men's and boys' work clothing	2328	5.52	5.60	5.61	5.61	-	207.55	201.60	204.20	196.91	-
Women's and misses' outerwear	233	5.68	5.80	5.83	5.92	-	203.34	198.94	207.55	211.94	-
Women's and misses' blouses and waists	2331	5.01	5.11	5.04	5.08	-	180.36	178.34	182.95	182.88	-
Women's and misses' dresses	2335	6.05	6.17	6.14	6.27	-	214.17	209.78	214.29	222.59	-
Women's and misses' suits and coats	2337	6.41	6.63	6.55	6.57	-	234.61	224.09	235.15	245.06	-
Women's and misses' outerwear, nec	2339	5.50	5.63	5.74	5.81	-	196.90	193.67	204.34	206.26	-
Women's and children's undergarments	234	5.53	5.56	5.58	5.66	-	210.69	210.72	202.55	218.48	-
Women's and children's underwear	2341	5.37	5.39	5.45	5.55	-	206.21	206.44	200.02	219.23	-
Brassieres and allied garments	2342	6.45	6.60	6.45	6.36	-	235.43	232.98	218.66	215.60	-
Children's outerwear	236	5.29	5.38	5.44	5.47	-	191.50	195.83	201.82	200.75	-
Children's dresses and blouses	2361	5.13	5.21	5.45	5.49	-	179.55	184.96	192.39	195.44	-
Misc. apparel and accessories	238	5.70	5.78	5.92	6.02	-	220.02	220.22	223.18	228.76	-
Misc. fabricated textile products	239	7.05	7.18	7.09	7.18	-	276.36	277.87	270.13	280.74	-
Curtains and draperies	2391	5.71	5.87	5.93	5.99	-	219.26	215.43	215.85	221.63	-
House furnishings, nec	2392	6.09	6.18	6.25	6.24	-	241.16	245.96	241.25	244.61	-
Automotive and apparel trimmings	2396	10.69	10.76	10.52	10.86	-	430.81	436.86	409.23	447.43	-
Paper and allied products	26	11.41	11.66	11.71	11.62	11.72	492.91	514.21	502.36	498.50	510.99
Paper and pulp mills	261,2,6	13.95	14.46	14.39	14.28	-	627.75	689.74	647.55	634.03	-
Paper mills, except building paper	262	14.03	14.51	14.42	14.31	-	632.75	700.83	648.90	633.93	-
Paperboard mills	263	14.29	14.41	14.51	14.49	-	623.04	654.21	635.54	633.21	-
Misc. converted paper products	264	9.91	10.02	10.11	10.06	-	416.22	420.84	418.55	419.50	-
Paper coating and glazing	2641	11.07	11.14	11.25	11.20	-	485.97	489.05	480.38	482.72	-
Envelopes	2642	9.27	9.31	9.64	9.57	-	383.78	379.85	397.17	392.37	-
Bags, except textile bags	2643	9.28	9.37	9.41	9.38	-	386.98	395.41	390.52	392.08	-
Paperboard containers and boxes	265	9.81	9.86	10.01	9.99	-	420.85	422.01	424.42	425.57	-
Folding paperboard boxes	2651	10.18	10.12	10.32	10.32	-	429.60	430.10	430.34	437.57	-
Corrugated and solid fiber boxes	2653	10.02	10.11	10.20	10.22	-	435.87	436.75	437.58	442.53	-
Sanitary food containers	2654	9.32	9.44	9.68	9.66	-	391.44	402.14	421.08	405.72	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ²	Sept. 1988 ²	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ²	Sept. 1988 ²
Nondurable goods—Continued											
Printing and publishing	27	38.2	38.5	37.8	38.2	38.5	3.3	3.5	2.9	3.2	-
Newspapers	271	33.7	34.5	33.2	33.6	-	1.5	2.0	1.3	1.5	-
Periodicals	272	39.1	39.2	38.1	38.4	-	4.0	4.2	2.9	3.3	-
Books	273	38.8	38.8	39.1	39.4	-	3.6	3.6	3.3	3.6	-
Book publishing	2731	37.4	37.4	37.7	37.9	-	2.9	2.8	2.1	2.3	-
Book printing	2732	41.2	40.9	41.4	41.8	-	4.8	4.8	5.1	5.6	-
Miscellaneous publishing	274	36.7	36.5	36.2	36.5	-	2.6	2.6	1.9	2.0	-
Commercial printing	275	39.8	40.1	39.1	39.6	-	3.9	4.2	3.3	3.7	-
Commercial printing, letterpress	2751	39.5	39.9	38.9	39.4	-	3.1	3.4	2.9	3.3	-
Commercial printing, lithographic	2752	39.7	39.9	39.0	39.5	-	4.1	4.3	3.3	3.9	-
Manifold business forms	276	41.4	41.4	41.9	41.6	-	4.0	4.5	4.6	4.4	-
Blankbooks and bookbinding	278	38.4	38.6	38.9	39.0	-	2.7	3.2	3.1	3.3	-
Printing trade services	279	38.8	38.5	39.3	39.1	-	4.4	4.1	4.8	4.7	-
Chemicals and allied products	28	42.1	42.7	42.0	41.9	42.5	4.0	4.3	4.0	4.0	-
Industrial inorganic chemicals	281	42.2	42.5	42.8	42.6	-	4.3	4.6	4.3	4.3	-
Industrial inorganic chemicals, nec	2819	42.9	43.1	42.7	42.8	-	4.2	4.7	4.2	4.4	-
Plastics materials and synthetics	282	43.0	44.3	43.5	43.1	-	4.4	4.9	5.0	4.7	-
Plastics materials and resins	2821	42.9	44.6	43.6	43.9	-	4.4	5.5	5.0	5.2	-
Organic fibers, noncellulosic	2824	43.5	44.1	43.6	42.8	-	4.1	4.4	5.0	4.3	-
Drugs	283	41.2	41.2	40.5	40.5	-	2.8	3.0	2.8	2.9	-
Pharmaceutical preparations	2834	40.9	40.9	40.0	40.3	-	2.8	3.0	2.8	2.9	-
Soap, cleaners, and toilet goods	284	41.2	40.7	39.7	40.2	-	3.6	3.8	3.2	3.4	-
Soap and other detergents	2841	43.7	43.4	43.6	43.1	-	5.5	5.5	5.4	4.9	-
Polishing, sanitation, and finishing preparations	2842,3	41.5	41.4	40.4	40.8	-	3.4	3.5	2.9	3.0	-
Toilet preparations	2844	39.6	38.8	37.3	38.4	-	2.6	3.1	2.1	2.8	-
Paints and allied products	285	41.9	41.4	42.2	41.4	-	4.0	3.8	4.0	3.7	-
Industrial organic chemicals	286	43.4	45.1	43.7	43.4	-	5.4	5.6	5.2	5.0	-
Cyclic crudes and intermediates	2865	43.1	44.2	40.8	41.9	-	5.8	5.9	5.1	4.9	-
Gum, wood, and industrial organic chemicals, nec	2861,9	43.5	45.4	44.5	43.8	-	5.3	5.5	5.2	5.0	-
Agricultural chemicals	287	41.9	43.0	42.5	42.4	-	3.7	4.5	4.5	4.5	-
Miscellaneous chemical products	289	41.4	42.4	41.7	41.9	-	3.7	3.7	3.6	3.8	-
Petroleum and coal products	29	43.6	44.0	45.3	44.4	44.6	5.0	5.3	5.8	5.5	-
Petroleum refining	291	43.1	43.8	45.2	44.1	-	4.0	4.8	5.2	5.0	-
Paving and roofing materials	295	46.7	45.8	47.0	46.8	-	9.4	8.1	9.2	8.5	-
Rubber and misc. plastics products	30	41.4	41.3	41.0	41.3	41.5	4.2	4.3	4.0	4.1	-
Tires and inner tubes	301	43.9	44.7	44.8	45.1	-	6.2	6.5	6.8	7.0	-
Rubber and plastics footwear	302	41.4	39.5	39.7	40.1	-	2.9	1.8	1.2	2.8	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	43.1	42.2	45.2	43.7	-	4.9	4.3	5.2	4.4	-
Fabricated rubber products, nec	306	41.4	41.2	40.8	41.1	-	3.8	3.9	3.4	3.4	-
Miscellaneous plastics products	307	41.0	40.9	40.4	40.7	-	4.0	4.1	3.8	3.9	-
Leather and leather products	31	39.0	37.8	37.3	37.6	37.3	2.6	2.2	1.6	2.1	-
Leather tanning and finishing	311	42.4	41.6	39.9	41.3	-	4.5	4.5	3.2	3.8	-
Footwear, except rubber	314	38.7	37.1	37.6	37.3	-	2.4	1.9	1.4	1.9	-
Men's footwear, except athletic	3143	38.5	37.0	37.7	37.3	-	2.1	1.7	.9	1.1	-
Women's footwear, except athletic	3144	39.1	37.4	38.2	37.3	-	2.9	2.0	2.2	2.8	-
Luggage	316	41.1	40.0	37.0	38.2	-	3.6	3.2	3.3	4.1	-
Handbags and personal leather goods	317	37.8	36.3	35.4	36.1	-	3.1	2.6	1.2	1.6	-
Transportation and public utilities		39.7	39.2	39.8	39.7	39.4	-	-	-	-	-
Railroad transportation:											
Class I railroads ³	4011	45.5	43.8	46.3	46.7	-	-	-	-	-	-
Local and interurban passenger transit	41	36.5	33.3	36.6	36.9	-	-	-	-	-	-
Local and suburban transportation	411	38.8	38.5	39.0	39.5	-	-	-	-	-	-
Intercity highway transportation	413	39.5	39.7	40.8	40.8	-	-	-	-	-	-
Trucking and warehousing	42	38.9	38.2	38.6	38.8	-	-	-	-	-	-
Trucking and trucking terminals	421,3	38.9	38.1	38.6	38.7	-	-	-	-	-	-
Public warehousing	422	39.1	40.2	39.1	39.3	-	-	-	-	-	-
Pipe lines, except natural gas	46	42.3	41.6	43.5	39.9	-	-	-	-	-	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Nondurable goods—Continued											
Printing and publishing	27	\$10.32	\$10.48	\$10.49	\$10.56	\$10.69	\$394.22	\$403.48	\$396.52	\$403.39	\$411.57
Newspapers	271	10.19	10.46	10.44	10.48	-	343.40	360.87	346.61	352.13	-
Periodicals	272	10.89	10.93	10.88	11.11	-	425.80	428.46	414.53	426.62	-
Books	273	9.38	9.55	9.38	9.51	-	363.94	370.54	366.76	374.69	-
Book publishing	2731	9.00	9.18	9.01	9.15	-	336.60	343.33	339.68	346.79	-
Book printing	2732	9.96	10.08	9.93	10.03	-	410.35	412.27	411.10	419.25	-
Miscellaneous publishing	274	9.51	9.68	9.88	10.07	-	349.02	353.32	357.66	367.56	-
Commercial printing	275	10.61	10.77	10.78	10.83	-	422.28	431.88	421.50	428.87	-
Commercial printing, letterpress	2751	10.09	10.39	10.33	10.29	-	398.56	414.56	401.84	405.43	-
Commercial printing, lithographic	2752	10.78	10.89	10.91	11.01	-	427.17	434.51	425.49	434.90	-
Manifold business forms	276	10.72	10.83	11.04	11.09	-	443.81	448.36	462.58	461.34	-
Blankbooks and bookbinding	278	8.19	8.29	8.36	8.43	-	314.50	319.99	325.20	328.77	-
Printing trade services	279	12.63	12.74	12.94	12.98	-	490.04	490.49	508.54	507.52	-
Chemicals and allied products	28	12.33	12.56	12.70	12.64	12.82	519.09	536.31	533.40	529.62	544.85
Industrial inorganic chemicals	281	13.67	13.93	13.99	14.02	-	576.87	592.03	598.77	597.25	-
Industrial inorganic chemicals, nec	2819	13.76	14.03	14.05	14.09	-	590.30	604.69	599.94	603.05	-
Plastics materials and synthetics	282	12.55	12.86	13.05	12.98	-	539.65	569.70	567.68	559.44	-
Plastics materials and resins	2821	13.54	13.80	13.89	13.89	-	580.87	615.48	605.60	609.77	-
Organic fibers, noncellulosic	2824	11.97	12.44	12.46	12.29	-	520.70	548.60	543.26	526.01	-
Drugs	283	11.57	11.75	11.96	12.03	-	476.68	484.10	484.38	487.22	-
Pharmaceutical preparations	2834	11.32	11.41	11.75	11.74	-	462.99	466.67	470.00	473.12	-
Soap, cleaners, and toilet goods	284	10.72	10.80	11.03	10.91	-	441.66	439.56	437.89	438.58	-
Soap and other detergents	2841	13.93	14.14	14.46	14.50	-	608.74	613.68	630.46	624.95	-
Polishing, sanitation, and finishing preparations	2842,3	10.03	10.05	10.24	10.35	-	416.25	416.07	413.70	422.28	-
Toilet preparations	2844	9.07	9.14	9.29	9.09	-	359.17	354.63	346.52	349.06	-
Paints and allied products	285	10.77	10.98	11.16	11.14	-	451.26	454.57	470.95	461.20	-
Industrial organic chemicals	286	14.90	15.14	15.20	15.04	-	646.66	682.81	664.24	652.74	-
Cyclic crudes and intermediates	2865	14.58	14.71	14.89	14.68	-	628.40	650.18	607.51	615.09	-
Gum, wood, and industrial organic chemicals, nec	2861,9	14.99	15.26	15.27	15.13	-	652.07	692.80	679.52	662.69	-
Agricultural chemicals	287	12.00	12.25	12.44	12.38	-	502.80	526.75	528.70	524.91	-
Miscellaneous chemical products	289	11.37	11.49	11.53	11.52	-	470.72	487.18	480.80	482.69	-
Petroleum and coal products	29	14.54	14.74	14.99	14.89	15.15	633.94	648.56	679.05	661.12	675.69
Petroleum refining	291	15.74	15.94	16.20	16.07	-	678.39	698.17	732.24	708.69	-
Paving and roofing materials	295	11.51	11.63	11.62	11.65	-	537.52	532.65	546.14	545.22	-
Rubber and misc. plastics products	30	8.93	9.01	9.11	9.14	9.22	369.70	372.11	373.51	377.48	382.63
Tires and inner tubes	301	14.29	14.40	14.42	14.42	-	627.33	643.68	646.02	650.34	-
Rubber and plastics footwear	302	6.07	6.05	6.33	6.42	-	251.30	238.98	251.30	257.44	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	8.95	8.91	9.28	9.23	-	385.75	376.00	419.46	403.35	-
Fabricated rubber products, nec	306	8.69	8.75	8.79	8.74	-	359.77	360.50	358.63	359.21	-
Miscellaneous plastics products	307	8.28	8.37	8.46	8.52	-	339.48	342.33	341.78	346.76	-
Leather and leather products	31	6.04	6.13	6.20	6.25	6.31	235.56	231.71	231.26	235.00	235.36
Leather tanning and finishing	311	8.20	8.30	8.38	8.35	-	347.68	345.28	334.36	344.86	-
Footwear, except rubber	314	5.69	5.79	5.90	5.95	-	220.20	214.81	221.84	221.94	-
Men's footwear, except athletic	3143	6.11	6.19	6.20	6.26	-	235.24	229.03	233.74	233.50	-
Women's footwear, except athletic	3144	5.34	5.45	5.68	5.72	-	208.79	203.83	216.98	213.36	-
Luggage	316	6.51	6.57	6.24	6.40	-	267.56	262.80	230.88	244.48	-
Handbags and personal leather goods	317	5.81	5.89	5.82	5.81	-	219.62	213.81	206.03	209.74	-
Transportation and public utilities		12.06	12.11	12.33	12.37	12.42	478.78	474.71	490.73	491.09	489.35
Railroad transportation:											
Class I railroads ²	4011	14.27	14.26	15.04	15.10	-	649.29	624.59	696.35	705.17	-
Local and interurban passenger transit	41	8.51	8.37	8.59	8.62	-	310.62	278.72	314.39	318.08	-
Local and suburban transportation	411	8.94	9.07	9.10	9.05	-	346.87	349.20	354.90	357.48	-
Intercity highway transportation	413	11.66	11.67	11.33	11.19	-	460.57	463.30	462.26	456.55	-
Trucking and warehousing	42	10.73	10.78	10.88	10.90	-	417.40	411.80	419.97	422.92	-
Trucking and trucking terminals	421,3	10.90	11.02	11.02	11.05	-	424.01	419.86	425.37	427.64	-
Public warehousing	422	8.42	8.12	8.89	8.81	-	329.22	326.42	347.60	346.23	-
Pipe lines, except natural gas	46	15.17	15.41	15.47	15.35	-	641.69	641.06	672.95	612.47	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Transportation and public utilities—Continued											
Communication	48	40.4	40.9	40.3	40.1						
Telephone communication	481	41.9	42.5	42.0	41.7						
Radio and television broadcasting	483	36.2	36.2	36.2	35.6						
Electric, gas, and sanitary services	49	41.4	41.4	41.7	41.3						
Electric services	491	41.1	41.2	42.0	41.7						
Gas production and distribution	492	40.6	40.7	41.3	40.5						
Combination utility services	493	42.2	41.9	41.3	41.0						
Sanitary services	495	42.9	43.4	42.5	42.1						
Wholesale trade		38.3	38.0	38.3	38.0	38.1					
Durable goods	50	38.8	38.4	38.7	38.4						
Motor vehicles and automotive equipment	501	38.5	38.1	38.4	37.9						
Furniture and home furnishings	502	37.2	37.0	37.2	37.2						
Lumber and construction materials	503	39.7	39.2	39.8	39.7						
Sporting goods, toys, and hobby goods	504	36.5	36.1	36.3	36.0						
Metals and minerals, except petroleum	505	40.8	40.0	39.8	40.0						
Electrical goods	506	38.3	37.9	38.2	37.8						
Hardware, plumbing, and heating equipment	507	38.6	38.3	38.9	38.6						
Machinery, equipment, and supplies	508	39.1	38.9	39.0	38.7						
Miscellaneous durable goods	509	37.8	37.5	38.0	38.0						
Nondurable goods	51	37.6	37.5	37.6	37.3						
Paper and paper products	511	37.2	36.8	37.0	36.8						
Drugs, proprietaries, and sundries	512	37.6	37.1	37.0	37.2						
Apparel, piece goods, and notions	513	37.1	37.1	36.6	36.5						
Groceries and related products	514	37.9	38.3	38.4	38.0						
Chemicals and allied products	516	39.6	38.7	40.0	40.1						
Petroleum and petroleum products	517	38.9	38.7	38.8	38.3						
Beer, wine, and distilled beverages	518	36.2	35.8	36.5	36.4						
Miscellaneous nondurable goods	519	37.1	36.5	36.6	36.7						
Retail trade		30.2	29.5	30.0	29.8	29.0					
Building materials and garden supplies	52	37.4	36.5	37.3	37.0						
Lumber and other building materials	521	39.2	38.5	39.2	38.9						
Hardware stores	525	34.1	32.7	33.8	33.7						
General merchandise stores	53	29.2	29.6	28.5	28.2						
Department stores	531	28.9	29.5	28.1	27.9						
Variety stores	533	29.9	29.6	30.1	29.6						
Misc. general merchandise stores	539	31.4	30.5	31.1	30.4						
Food stores	54	30.8	30.8	31.5	31.1						
Grocery stores	541	31.1	31.2	31.6	31.2						
Retail bakeries	546	28.1	27.6	29.4	29.6						
Automotive dealers and service stations	55	37.1	36.3	36.9	36.6						
New and used car dealers	551,2	37.5	36.9	37.3	37.2						
Auto and home supply stores	553	40.0	39.1	39.3	38.8						
Gasoline service stations	554	35.0	34.0	35.0	34.7						
Apparel and accessory stores	56	28.0	27.1	27.9	28.0						
Men's and boys' clothing and furnishings	561	30.5	29.6	30.2	29.5						
Women's ready-to-wear stores	562	26.6	25.7	26.1	26.3						
Family clothing stores	565	28.3	27.6	27.8	27.9						
Shoe stores	566	29.1	27.6	29.5	29.8						
Furniture and home furnishings stores	57	33.6	33.1	33.4	33.3						
Furniture and home furnishings stores	571	33.7	33.2	33.9	33.8						
Household appliance stores	572	34.6	33.8	34.1	34.0						
Radio, television, and music stores	573	33.0	32.5	32.4	32.1						
Eating and drinking places ⁴	58	27.2	25.8	26.8	26.7						

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.56	\$12.65	\$12.71	\$12.85		\$507.42	\$517.39	\$512.21	\$515.29	
Telephone communication	481	13.35	13.38	13.43	13.59		559.37	568.65	564.06	566.70	
Radio and television broadcasting	483	10.80	11.13	11.38	11.53		390.96	402.91	411.96	410.47	
Electric, gas, and sanitary services	49	13.76	13.86	14.19	14.26		569.66	573.80	591.72	588.94	
Electric services	491	13.84	13.90	14.32	14.40		568.82	572.68	601.44	600.48	
Gas production and distribution	492	12.97	13.16	13.14	13.17		526.58	535.61	542.68	533.39	
Combination utility services	493	16.15	16.24	16.79	16.89		681.53	680.46	693.43	692.49	
Sanitary services	495	10.15	10.44	10.96	10.99		435.44	453.10	465.80	462.68	
Wholesale trade		9.60	9.64	9.93	9.89	\$10.00	367.68	366.32	380.32	375.82	\$381.00
Durable goods	50	9.76	9.80	10.14	10.11		378.69	376.32	392.42	388.22	
Motor vehicles and automotive equipment	501	8.75	8.87	9.14	9.14		336.88	337.95	350.98	346.41	
Furniture and home furnishings	502	8.89	8.90	9.49	9.37		330.71	329.30	353.03	348.56	
Lumber and construction materials	503	9.38	9.38	9.64	9.70		372.39	367.70	383.67	385.09	
Sporting goods, toys, and hobby goods	504	9.75	9.73	9.70	9.42		355.88	351.25	352.11	339.12	
Metals and minerals, except petroleum	505	10.47	10.43	10.57	10.51		427.18	417.20	420.69	420.40	
Electrical goods	506	10.12	10.16	10.53	10.54		387.60	385.06	402.25	398.41	
Hardware, plumbing, and heating equipment	507	9.30	9.25	9.50	9.44		358.98	354.28	369.55	364.38	
Machinery, equipment, and supplies	508	10.38	10.44	10.84	10.80		405.86	406.12	422.76	417.96	
Miscellaneous durable goods	509	7.83	7.79	8.03	8.01		295.97	292.13	305.14	304.38	
Nondurable goods	51	9.38	9.41	9.60	9.55		352.69	352.88	360.96	356.22	
Paper and paper products	511	10.11	10.22	10.44	10.32		376.09	376.10	386.28	379.78	
Drugs, proprietaries, and sundries	512	10.94	10.97	11.10	10.92		411.34	406.99	410.70	406.22	
Apparel, piece goods, and notions	513	9.09	9.11	9.42	9.32		337.24	337.98	344.77	340.18	
Groceries and related products	514	9.48	9.58	9.75	9.69		359.29	366.91	374.40	368.22	
Chemicals and allied products	516	12.05	12.12	12.22	12.12		477.18	469.04	488.80	486.01	
Petroleum and petroleum products	517	9.48	9.50	9.58	9.59		368.77	367.65	371.70	367.30	
Beer, wine, and distilled beverages	518	11.14	11.03	11.18	11.15		403.27	394.87	408.07	405.86	
Miscellaneous nondurable goods	519	7.69	7.70	7.83	7.89		285.30	281.05	286.58	289.56	
Retail trade		6.07	6.20	6.28	6.25	6.37	183.31	182.90	188.40	186.25	184.73
Building materials and garden supplies	52	7.03	7.11	7.34	7.37		262.92	259.52	273.78	272.69	
Lumber and other building materials	521	7.36	7.43	7.71	7.76		288.51	286.06	302.23	301.86	
Hardware stores	525	5.95	6.03	6.17	6.16		202.90	197.18	208.55	207.59	
General merchandise stores	53	6.42	6.59	6.55	6.53		187.46	195.06	186.68	184.15	
Department stores	531	6.74	6.90	6.86	6.84		194.79	203.55	192.77	190.84	
Variety stores	533	4.79	4.93	4.92	4.93		143.22	145.93	148.09	145.93	
Misc. general merchandise stores	539	4.96	5.04	5.29	5.27		155.74	153.72	164.52	160.21	
Food stores	54	6.82	7.14	6.91	6.90		210.06	219.91	217.67	214.59	
Grocery stores	541	6.96	7.29	7.01	7.00		216.46	227.45	221.52	218.40	
Retail bakeries	546	5.60	5.73	5.96	5.96		157.36	158.15	175.22	176.42	
Automotive dealers and service stations	55	7.95	7.91	8.33	8.25		294.95	287.13	307.38	301.95	
New and used car dealers	551,2	9.83	9.70	10.35	10.17		368.63	357.93	386.06	378.32	
Auto and home supply stores	553	6.70	6.70	7.03	7.02		268.00	261.97	276.28	272.38	
Gasoline service stations	554	5.54	5.58	5.75	5.77		193.90	189.72	201.25	200.22	
Apparel and accessory stores	56	5.51	5.67	5.75	5.70		154.28	153.66	160.43	159.60	
Men's and boys' clothing and furnishings	561	6.49	6.63	6.93	6.81		197.95	196.25	209.29	200.90	
Women's ready-to-wear stores	562	5.15	5.28	5.39	5.40		136.99	135.70	140.68	142.02	
Family clothing stores	565	5.49	5.59	5.67	5.53		155.37	154.28	157.63	154.29	
Shoe stores	566	5.57	5.88	5.90	5.86		162.09	162.29	174.05	174.63	
Furniture and home furnishings stores	57	7.52	7.57	7.90	7.85		252.67	250.57	263.86	261.41	
Furniture and home furnishings stores	571	7.63	7.68	8.01	8.00		257.13	254.98	271.54	270.40	
Household appliance stores	572	7.43	7.43	7.87	7.79		257.08	251.13	268.37	264.86	
Radio, television, and music stores	573	7.37	7.45	7.71	7.61		243.21	242.13	249.80	244.28	
Eating and drinking places ⁴	58	4.39	4.44	4.55	4.56		119.41	114.55	121.94	121.75	

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. 1987	Sept. 1987	July 1988	Aug. 1988 ²	Sept. 1988 ²	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ²	Sept. 1988 ²
Retail trade—Continued											
Miscellaneous retail	59	31.0	30.2	30.6	30.4	-	-	-	-	-	-
Drug stores and proprietary stores	591	29.1	28.4	28.3	28.1	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	29.7	28.6	30.0	29.7	-	-	-	-	-	-
Nonstore retailers	596	33.7	33.2	31.8	32.4	-	-	-	-	-	-
Fuel and ice dealers	598	38.2	38.0	38.5	38.3	-	-	-	-	-	-
Retail stores, nec	599	32.2	31.4	32.0	31.3	-	-	-	-	-	-
Finance, insurance, and real estate⁵											
Banking		36.4	36.0	36.2	35.6	35.7	-	-	-	-	-
Banking	60	36.6	35.9	36.2	35.5	-	-	-	-	-	-
Commercial and stock savings banks	602	36.6	35.9	36.2	35.4	-	-	-	-	-	-
Credit agencies other than banks	61	36.9	36.2	36.6	36.2	-	-	-	-	-	-
Savings and loan associations	612	36.4	35.7	36.1	35.7	-	-	-	-	-	-
Personal credit institutions	614	36.7	36.4	36.6	36.1	-	-	-	-	-	-
Insurance carriers	63	37.3	37.1	37.2	36.8	-	-	-	-	-	-
Life insurance	631	36.9	36.7	36.8	36.5	-	-	-	-	-	-
Medical service and health insurance	632	37.3	37.9	38.3	37.6	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	37.3	37.0	36.9	36.6	-	-	-	-	-	-
Services		32.9	32.4	33.0	32.8	32.5	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	32.1	31.1	32.2	32.1	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.4	33.9	34.3	34.1	-	-	-	-	-	-
Beauty shops ⁴	723	29.8	28.9	30.0	29.9	-	-	-	-	-	-
Business services											
Advertising	731	36.8	36.7	37.1	36.6	-	-	-	-	-	-
Services to buildings	734	28.9	28.2	29.7	29.6	-	-	-	-	-	-
Computer and data processing services	737	37.7	37.5	37.8	37.6	-	-	-	-	-	-
Auto repair, services, and garages											
Automotive repair shops	753	38.5	37.9	38.2	38.0	-	-	-	-	-	-
Miscellaneous repair services	76	38.3	37.7	38.5	38.5	-	-	-	-	-	-
Motion pictures											
Motion picture production and services	781	39.2	38.0	37.9	36.2	-	-	-	-	-	-
Amusement and recreation services											
Amusement and recreation services	79	30.5	28.3	30.4	30.2	-	-	-	-	-	-
Health services											
Offices of physicians	801	31.2	30.8	31.2	31.2	-	-	-	-	-	-
Offices of dentists	802	28.4	28.3	28.3	28.3	-	-	-	-	-	-
Nursing and personal care facilities	805	32.0	32.0	32.2	31.5	-	-	-	-	-	-
Hospitals	806	34.3	34.3	34.3	34.2	-	-	-	-	-	-
Legal services											
Legal services	81	34.9	34.4	35.0	34.4	-	-	-	-	-	-
Miscellaneous services											
Engineering and architectural services	891	39.5	39.2	39.2	39.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	36.5	36.8	36.8	36.0	-	-	-	-	-	-

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. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.32	\$6.40	\$6.56	\$6.53		\$195.92	\$193.28	\$200.74	\$198.51	
Drug stores and proprietary stores	591	5.87	5.97	6.25	6.20	-	170.82	169.55	176.88	174.22	
Miscellaneous shopping goods stores	594	5.89	5.97	6.11	6.08		174.93	170.74	183.30	180.58	
Nonstore retailers	596	7.20	7.29	7.50	7.45		242.64	242.03	238.50	241.38	
Fuel and ice dealers	598	8.84	8.91	9.03	9.12		337.69	338.58	347.66	349.30	
Retail stores, nec	599	6.55	6.56	6.74	6.70		210.91	205.98	215.68	209.71	
Finance, insurance, and real estate⁵		8.74	8.73	9.03	9.05	\$9.12	318.14	314.28	326.89	322.18	\$325.58
Banking	60	7.52	7.52	7.82	7.81		275.23	269.97	283.08	277.26	
Commercial and stock savings banks	602	7.29	7.27	7.54	7.52		266.81	260.99	272.95	266.21	
Credit agencies other than banks	61	8.02	7.94	8.26	8.27		295.94	287.43	302.32	299.37	
Savings and loan associations	612	7.53	7.49	7.73	7.71		274.09	267.39	279.05	275.25	
Personal credit institutions	614	7.52	7.45	7.72	7.78		275.98	271.18	282.55	280.86	
Insurance carriers	63	9.63	9.57	10.18	10.20		359.20	355.05	378.70	375.36	
Life insurance	631	8.98	8.99	9.64	9.64		331.36	329.93	354.75	351.86	
Medical service and health insurance	632	9.56	9.43	9.76	9.82		356.59	357.40	373.81	369.23	
Fire, marine, and casualty insurance	633	10.06	10.03	10.71	10.75		375.24	371.11	395.20	393.45	
Services		8.40	8.54	8.79	8.79	8.97	276.36	276.70	290.07	288.31	291.53
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	5.98	6.20	6.30	6.22		191.96	192.82	202.86	199.66	
Personal services:											
Laundry, cleaning, and garment services	721	6.17	6.25	6.36	6.35		212.25	211.88	218.15	216.54	-
Beauty shops ⁴	723	6.43	6.46	6.84	6.77		191.61	186.69	205.20	202.42	-
Business services	73	8.76	8.82	9.12	9.09		296.09	291.06	310.08	309.97	
Advertising	731	12.14	12.06	12.31	12.46		446.75	442.60	456.70	456.04	
Services to buildings	734	6.76	6.78	6.92	6.85	-	195.36	191.20	205.52	202.76	
Computer and data processing services	737	12.28	12.32	12.80	12.75		462.96	462.00	483.84	479.40	
Auto repair, services, and garages	75	7.81	7.86	8.18	8.25		290.53	286.10	303.48	305.25	-
Automotive repair shops	753	8.42	8.44	8.79	8.88		324.17	319.88	335.78	337.44	-
Miscellaneous repair services	76	9.17	9.29	9.48	9.54		353.05	351.16	364.98	367.29	
Motion pictures	78	11.64	11.99	10.74	10.95		363.17	353.71	316.83	317.55	-
Motion picture production and services	781	16.53	16.33	15.14	15.41		647.98	620.54	573.81	557.84	
Amusement and recreation services	79	6.17	6.81	6.69	6.59		188.19	192.72	203.38	199.02	-
Health services	80	8.72	8.81	9.23	9.26		284.27	286.33	301.82	300.02	
Offices of physicians	801	8.50	8.49	8.80	8.80		265.20	261.49	274.56	274.56	-
Offices of dentists	802	8.49	8.52	8.90	8.93		241.12	241.12	251.87	252.72	
Nursing and personal care facilities	805	6.00	6.09	6.36	6.38		192.00	194.88	204.79	200.97	
Hospitals	806	9.86	10.00	10.53	10.54		338.20	343.00	361.18	360.47	
Legal services	81	12.08	11.95	12.73	12.68		421.59	411.08	445.55	436.19	
Miscellaneous services	89	12.20	12.17	12.59	12.60		466.04	464.89	479.68	476.28	
Engineering and architectural services	891	12.94	13.01	13.25	13.21		511.13	509.99	519.40	516.51	
Accounting, auditing, and bookkeeping	893	10.67	10.45	11.07	11.09		389.46	384.56	407.38	399.24	

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 aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.

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 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

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

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

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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	July 1987	Aug. 1987	July 1988	Aug. 1988 ^P	July 1987	Aug. 1987	July 1988	Aug. 1988 ^P
Average hourly earnings, excluding lump-sum payments	\$13.67	\$13.76	\$14.09	\$14.20	\$12.92	\$13.06	\$13.56	\$13.69
Average hourly earnings, including lump-sum payments	14.37	14.44	14.54	14.69	13.23	13.37	13.84	14.05

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Manufacturing	\$9.42	\$9.53	\$9.72	\$9.66	\$9.76
Durable goods	9.93	10.02	10.20	10.16	10.27
Lumber and wood products	8.07	8.09	8.26	8.21	(?)
Furniture and fixtures	7.44	7.45	7.74	7.74	(?)
Stone, clay, and glass products	9.66	9.78	9.93	9.84	(?)
Primary metal industries	11.27	11.46	11.51	11.39	(?)
Fabricated metal products	9.49	9.55	9.75	9.73	(?)
Machinery, except electrical	10.21	10.26	10.43	10.42	(?)
Electrical and electronic equipment	9.53	9.58	9.78	9.77	(?)
Transportation equipment	12.29	12.41	12.60	12.60	(?)
Instruments and related products	9.41	9.41	9.61	9.60	(?)
Miscellaneous manufacturing	7.46	7.53	7.74	7.71	(?)
Nondurable goods	8.72	8.86	9.05	8.98	\$9.06
Food and kindred products	8.35	8.45	8.64	8.53	(?)
Tobacco manufactures	13.98	12.92	15.11	14.16	(?)
Textile mill products	6.79	6.86	7.01	7.03	(?)
Apparel and other textile products	5.73	5.84	5.90	5.93	(?)
Paper and allied products	10.76	10.89	11.06	10.99	(?)
Printing and publishing	9.89	10.02	10.11	10.14	(?)
Chemicals and allied products	11.77	11.96	12.12	12.06	(?)
Petroleum and coal products	13.76	13.90	14.08	14.02	(?)
Rubber and misc. plastics products	8.50	8.57	8.69	8.70	(?)
Leather and leather products	5.84	5.96	6.07	6.07	(?)

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

² Not available.

^p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Average hourly earnings					Average weekly earnings				
	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p	Aug. 1987	Sept. 1987	July 1988	Aug. 1988 ^p	Sept. 1988 ^p
Total private:										
Current dollars	\$8.94	\$9.05	\$9.25	\$9.25	\$9.40	\$314.69	\$314.04	\$324.68	\$323.75	\$327.12
Constant (1977) dollars	4.81	4.84	4.81	4.79	(¹)	169.28	168.12	168.75	167.49	(¹)
Mining:										
Current dollars	12.40	12.50	12.66	12.63	\$12.79	529.48	528.75	535.52	530.46	\$543.58
Constant (1977) dollars	6.67	6.69	6.58	6.53	(¹)	284.82	283.06	278.34	274.42	(¹)
Construction:										
Current dollars	12.68	12.79	12.91	12.95	\$13.12	489.45	466.84	497.04	499.87	\$503.81
Constant (1977) dollars	6.82	6.85	6.71	6.70	(¹)	263.29	249.91	258.34	258.60	(¹)
Manufacturing:										
Current dollars	9.86	9.99	10.16	10.12	\$10.27	403.27	407.59	413.51	413.91	\$425.18
Constant (1977) dollars	5.30	5.35	5.28	5.24	(¹)	216.93	218.20	214.92	214.13	(¹)
Transportation and public utilities:										
Current dollars	12.06	12.11	12.33	12.37	\$12.42	478.78	474.71	490.73	491.09	\$489.35
Constant (1977) dollars	6.49	6.48	6.41	6.40	(¹)	257.55	254.13	255.06	254.06	(¹)
Wholesale trade:										
Current dollars	9.60	9.64	9.93	9.89	\$10.00	367.68	366.32	380.32	375.82	\$381.00
Constant (1977) dollars	5.16	5.16	5.16	5.12	(¹)	197.78	196.10	197.67	194.42	(¹)
Retail trade:										
Current dollars	6.07	6.20	6.28	6.25	\$6.37	183.31	182.90	188.40	186.25	\$184.73
Constant (1977) dollars	3.27	3.32	3.26	3.23	(¹)	98.61	97.91	97.92	96.35	(¹)
Finance, insurance, and real estate:										
Current dollars	8.74	8.73	9.03	9.05	\$9.12	318.14	314.28	326.89	322.18	\$325.58
Constant (1977) dollars	4.70	4.67	4.69	4.68	(¹)	171.14	168.24	169.90	166.67	(¹)
Services:										
Current dollars	8.40	8.54	8.79	8.79	\$8.97	276.36	276.70	290.07	288.31	\$291.53
Constant (1977) dollars	4.52	4.57	4.57	4.55	(¹)	148.66	148.13	150.76	149.15	(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.

^p = 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 1987 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1987 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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Total private	34.6	34.9	34.8	34.8	34.7	34.8	34.6	34.9	34.7	34.7	34.9	34.6	34.7
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	41.2	41.2	41.0	41.1	41.0	40.9	41.2	41.0	41.1	41.1	41.0	41.2
<i>Overtime hours</i>	3.7	3.9	3.9	3.8	3.9	3.7	3.7	3.9	3.9	3.9	3.9	3.9	4.0
Durable goods	41.0	41.8	41.8	41.5	41.6	41.5	41.5	42.0	41.8	41.8	41.8	41.7	42.0
<i>Overtime hours</i>	3.7	4.0	4.0	3.9	4.0	3.8	3.8	4.2	4.2	4.1	4.0	4.1	4.1
Lumber and wood products	39.8	40.4	40.7	40.4	40.2	40.3	40.1	40.6	40.1	40.2	40.5	40.1	40.0
Furniture and fixtures	39.5	40.1	40.2	39.8	39.6	39.5	39.3	39.5	39.5	39.4	39.7	39.0	39.5
Stone, clay, and glass products	42.0	42.5	42.4	42.5	42.0	42.3	42.3	42.5	42.3	42.4	42.1	42.2	42.3
Primary metal industries	43.2	43.6	43.5	43.4	43.4	43.1	43.3	43.5	43.6	43.6	43.4	43.6	43.8
Blast furnaces and basic steel products ..	44.6	43.9	43.8	44.0	44.0	43.8	43.7	43.8	43.9	44.3	44.0	44.1	44.4
Fabricated metal products	40.9	41.9	42.1	41.7	41.8	41.6	41.6	42.0	41.9	42.0	41.7	41.8	42.2
Machinery, except electrical	41.7	42.6	42.7	42.6	42.7	42.6	42.5	42.8	42.6	42.5	43.0	42.4	42.7
Electrical and electronic equipment	40.4	41.0	41.0	40.9	41.1	40.9	40.9	41.2	41.0	41.1	41.0	40.8	40.9
Transportation equipment	41.4	42.4	42.3	41.5	42.0	42.0	42.1	43.0	43.0	43.0	42.6	42.8	43.8
Motor vehicles and equipment	41.5	42.8	42.9	41.4	42.1	42.3	42.3	44.1	44.0	44.2	42.5	43.6	45.2
Instruments and related products	41.0	41.9	41.4	41.2	41.8	41.3	41.4	41.8	41.4	41.3	41.8	41.4	41.3
Miscellaneous manufacturing	38.9	39.5	39.2	39.2	39.1	39.3	39.2	39.4	39.2	39.3	39.2	39.1	39.0
Nondurable goods	40.1	40.4	40.3	40.3	40.3	40.2	40.1	40.3	40.0	40.1	40.2	40.1	40.2
<i>Overtime hours</i>	3.6	3.8	3.7	3.7	3.8	3.6	3.6	3.6	3.6	3.6	3.7	3.6	3.7
Food and kindred products	40.2	40.4	40.4	40.5	40.6	40.3	40.1	40.1	40.1	40.3	40.5	40.5	40.6
Tobacco manufactures	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Textile mill products	41.4	41.8	41.6	41.5	41.5	41.6	41.2	41.8	40.8	40.7	41.1	40.9	41.0
Apparel and other textile products	36.4	37.3	37.1	37.1	36.8	37.0	37.0	37.4	36.8	36.9	36.9	36.9	37.2
Paper and allied products	43.7	43.6	43.5	43.3	43.4	43.3	43.2	43.3	43.3	43.2	43.2	43.2	43.2
Printing and publishing	38.1	38.1	38.0	38.0	38.1	38.1	38.1	38.2	37.7	38.0	38.0	38.0	38.1
Chemicals and allied products	42.5	42.5	42.5	42.5	42.5	42.4	42.5	42.1	42.0	42.4	42.3	42.2	42.3
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	41.3	41.8	41.8	41.6	41.7	41.6	41.7	42.0	41.7	41.6	41.6	41.5	41.5
Leather and leather products	37.8	38.8	38.3	38.0	38.0	37.8	37.9	37.3	37.3	36.9	37.0	37.5	37.3
Transportation and public utilities	39.1	39.3	39.2	39.1	39.5	39.1	38.8	39.5	39.4	39.3	39.5	39.3	39.3
Wholesale trade	38.0	38.2	38.2	38.0	38.1	38.2	38.1	38.3	38.0	37.9	38.2	37.8	38.1
Retail trade	29.5	29.2	29.2	28.8	29.0	29.1	29.0	29.2	29.0	29.1	29.3	29.0	28.9
Finance, insurance, and real estate	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Services	32.5	32.6	32.6	32.5	32.6	32.7	32.4	32.7	32.5	32.5	32.7	32.4	32.6

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987				1988								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	121.1	122.5	122.8	122.5	123.0	123.9	123.6	125.1	124.4	125.4	126.4	125.5	126.0
Goods-producing	98.0	101.0	101.2	101.3	100.5	101.1	101.6	102.7	102.1	103.2	103.3	102.9	103.2
Mining	82.7	85.0	84.1	84.0	81.7	82.5	83.2	85.9	84.4	85.0	85.6	83.2	82.8
Construction	127.0	136.7	136.4	137.7	132.1	136.0	139.1	141.1	139.3	144.0	142.4	142.3	143.0
Manufacturing	93.2	94.8	95.1	95.0	95.2	95.2	95.2	96.1	95.7	96.1	96.5	96.1	96.5
Durable goods	90.3	92.5	92.9	92.5	92.7	92.7	92.7	94.0	93.9	94.3	94.8	94.3	94.9
Lumber and wood products	100.2	102.2	103.9	103.7	103.0	103.6	103.1	104.7	103.2	103.8	103.9	102.6	101.5
Furniture and fixtures	111.3	114.1	114.6	114.0	113.7	113.2	112.3	113.2	113.7	113.4	115.1	112.0	113.7
Stone, clay, and glass products	85.7	87.1	87.3	88.3	86.5	87.3	87.5	88.3	87.5	88.1	88.0	87.7	87.7
Primary metal industries	65.5	66.5	66.8	66.6	66.5	66.4	66.9	67.6	68.1	68.6	69.0	68.9	69.4
Blast furnaces and basic steel products	54.0	53.9	54.1	54.1	53.9	53.9	54.1	54.8	54.6	55.4	55.3	54.6	54.5
Fabricated metal products	87.5	90.1	91.2	90.7	90.9	90.8	90.8	91.8	92.1	92.8	92.7	92.5	93.4
Machinery, except electrical	85.7	88.1	89.0	89.3	90.0	90.2	90.4	91.5	91.6	91.6	93.7	92.7	93.7
Electrical and electronic equipment	99.3	101.4	101.5	101.8	102.2	101.8	101.9	102.8	102.3	103.0	103.1	103.1	103.1
Transportation equipment	97.5	99.7	99.1	97.1	97.5	97.3	96.8	100.0	100.2	100.0	99.7	100.0	101.6
Motor vehicles and equipment	85.7	88.9	88.7	84.6	84.7	85.7	84.8	89.8	89.9	90.3	88.2	90.8	93.8
Instruments and related products	102.1	105.2	104.4	103.9	106.0	105.0	105.2	106.5	106.1	106.6	108.2	108.2	108.2
Miscellaneous manufacturing	81.5	83.4	83.6	83.6	83.4	84.8	84.5	85.0	83.9	84.5	85.1	84.3	84.1
Nondurable goods	97.3	98.3	98.5	98.7	99.0	99.0	98.8	99.1	98.4	98.9	99.1	98.8	98.8
Food and kindred products	99.7	100.3	100.9	101.3	102.2	101.7	100.9	101.0	100.5	101.4	100.6	100.8	100.7
Tobacco manufactures	70.9	71.7	73.8	76.4	77.2	75.8	74.8	73.8	71.0	71.4	73.7	70.3	67.7
Textile mill products	82.1	82.9	82.7	82.5	82.5	82.7	81.7	82.2	80.6	80.2	81.2	79.5	79.9
Apparel and other textile products	84.0	86.3	86.1	85.9	85.1	85.5	85.7	86.2	84.7	84.8	84.7	84.3	84.6
Paper and allied products	102.3	101.7	101.4	101.2	101.6	101.5	101.3	101.4	101.5	101.7	101.9	101.9	101.5
Printing and publishing	132.7	133.0	133.4	133.7	134.9	135.5	136.0	136.5	134.9	136.4	136.6	137.0	137.2
Chemicals and allied products	96.2	96.2	96.7	97.4	97.4	97.1	97.9	97.1	97.4	98.8	98.7	99.1	98.7
Petroleum and coal products	84.7	85.1	85.3	86.3	86.3	84.5	83.5	84.9	85.3	86.8	86.6	87.1	87.5
Rubber and misc. plastics products	116.2	118.7	119.6	120.1	120.9	121.0	121.8	122.9	123.1	123.4	124.8	124.0	123.4
Leather and leather products	56.7	58.2	57.5	57.0	57.5	57.2	56.9	55.5	55.5	54.9	55.5	55.8	56.0
Service-producing	133.9	134.3	134.7	134.2	135.5	136.4	135.8	137.4	136.8	137.8	139.1	138.0	138.6
Transportation and public utilities	110.0	110.9	111.0	111.0	112.6	111.8	111.2	113.5	113.5	113.8	114.7	114.3	114.5
Wholesale trade	119.6	120.7	121.3	121.3	122.2	123.1	123.6	124.8	124.4	124.9	126.3	125.4	126.9
Retail trade	124.1	123.5	123.8	122.2	124.0	125.2	124.8	126.0	125.1	126.2	127.3	126.1	125.8
Finance, insurance, and real estate	140.6	141.1	141.3	139.6	141.3	141.6	139.6	141.1	140.1	140.1	142.1	139.6	140.3
Services	153.7	154.8	155.3	155.6	156.5	158.0	157.2	159.0	158.3	160.0	161.5	160.5	161.7

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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 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	1987				1988								
	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)	174.6	174.9	175.6	175.7	176.6	176.7	177.0	178.0	178.7	178.6	179.3	179.6	180.4
Mining	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Construction	154.8	155.2	156.5	155.4	157.6	156.8	157.5	157.8	157.5	157.8	158.8	158.7	159.2
Manufacturing	176.3	176.1	176.4	176.6	176.8	177.0	177.3	177.9	178.4	178.8	178.8	179.4	180.2
Transportation and public utilities	176.8	177.5	177.6	178.2	178.3	179.1	179.4	180.6	181.6	181.0	181.5	182.3	182.2
Wholesale trade	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Retail trade	162.3	162.1	162.4	162.7	163.4	163.4	163.8	164.8	165.4	165.7	166.8	166.6	167.3
Finance, insurance, and real estate	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Services	182.5	183.9	184.9	185.2	186.5	186.3	186.9	188.3	189.9	189.4	190.8	191.0	192.1
Total private (in constant dollars) ⁴	93.7	93.5	93.8	93.7	93.8	93.7	93.5	93.6	93.6	93.2	93.2	92.9	(³)
Average hourly earnings													
Total private	\$9.02	\$9.07	\$9.10	\$9.11	\$9.14	\$9.13	\$9.16	\$9.23	\$9.27	\$9.27	\$9.32	\$9.32	\$9.37
Mining	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Construction	\$12.70	\$12.72	\$12.81	\$12.74	\$12.91	\$12.82	\$12.90	\$12.93	\$12.91	\$12.93	\$13.03	\$12.99	\$13.03
Manufacturing	10.00	9.99	10.00	10.01	10.02	10.03	10.05	10.11	10.15	10.18	10.17	10.20	10.28
Transportation and public utilities	12.07	12.12	12.13	12.16	12.14	12.19	12.21	12.29	12.35	12.33	12.37	12.41	12.38
Wholesale trade	9.64	9.70	9.71	9.69	9.75	9.72	9.76	9.88	9.88	9.86	9.97	9.94	10.00
Retail trade	6.18	6.16	6.17	6.19	6.20	6.20	6.22	6.25	6.28	6.29	6.33	6.31	6.34
Finance, insurance, and real estate	8.76	8.82	8.89	8.84	8.92	8.91	8.90	8.99	9.08	9.00	9.10	9.10	9.16
Services	8.55	8.60	8.65	8.67	8.72	8.72	8.75	8.81	8.88	8.86	8.92	8.93	8.98
Average weekly earnings													
Total private:													
In current dollars	312.09	316.54	316.68	315.21	317.16	317.72	316.94	322.13	321.67	321.67	325.27	322.47	325.14
In constant (1977) dollars ⁴	167.52	169.27	169.08	168.02	168.43	168.46	167.43	169.36	168.41	167.89	169.06	166.82	(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 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision. Beginning in 1989, the Hourly Earnings Index series will no longer be published in *Employment and Earnings*. For further information, see "Employment Cost Index Series to Replace Hourly Earnings Index," *Monthly Labor Review*, July 1988, pp. 32-35.

**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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Alabama	41.5	40.9	41.5	\$8.74	\$9.03	\$8.96	\$362.71	\$369.33	\$371.84
Birmingham	41.0	40.8	42.1	9.06	9.10	8.99	371.46	371.28	378.48
Mobile	40.9	40.2	40.7	10.16	10.81	10.62	415.54	434.56	432.23
Alaska	48.6	46.0	46.8	10.79	10.13	10.94	524.39	465.98	511.99
Arizona	40.9	40.9	40.9	9.97	9.96	9.91	407.77	407.36	405.32
Arkansas	41.1	40.8	40.9	7.89	8.09	8.05	324.28	330.07	329.25
Fayetteville-Springdale	39.6	41.5	41.1	7.06	7.14	7.25	279.58	296.31	297.98
Fort Smith	40.1	40.5	40.3	8.52	8.66	8.66	341.65	350.73	349.00
Little Rock-North Little Rock	42.1	41.3	41.5	8.56	8.59	8.52	360.38	354.77	353.58
Pine Bluff	43.7	43.3	42.4	10.56	10.31	10.51	461.47	446.42	445.62
California	40.4	(¹)	(¹)	10.78	(¹)	(¹)	435.51	(¹)	(¹)
Colorado	40.2	40.0	40.0	10.25	10.47	10.42	412.05	418.80	416.80
Denver	40.0	40.5	39.7	10.37	10.97	11.05	414.80	444.29	438.69
Connecticut	41.6	41.6	41.2	10.48	10.74	10.65	435.97	446.78	438.78
Bridgeport-Milford	41.0	41.2	39.8	10.78	11.17	11.16	441.98	460.20	444.17
Hartford	41.3	41.9	41.2	10.68	11.39	11.25	441.08	477.24	463.50
New Haven-Meriden	40.7	40.5	40.3	10.14	10.38	10.17	412.70	420.39	409.85
Stamford	42.2	40.1	40.4	11.22	12.56	12.50	473.48	503.66	505.00
Waterbury	42.2	40.3	43.3	8.96	9.95	9.83	378.11	400.98	425.64
Delaware	40.8	37.5	39.7	10.51	10.65	10.68	428.81	399.38	424.00
Wilmington	40.5	39.5	42.0	12.52	13.90	13.56	507.06	549.05	569.52
District of Columbia:									
Washington MSA	38.8	38.7	39.3	10.66	11.22	11.27	413.61	434.21	442.91
Florida	40.3	40.1	40.6	8.17	8.44	8.41	329.25	338.44	341.45
Fort Lauderdale-Hollywood-Pompano Beach	40.8	40.6	40.9	8.10	8.41	8.44	330.48	341.45	345.20
Jacksonville	40.6	40.3	40.0	8.70	9.17	9.05	353.22	369.55	362.00
Miami-Hialeah	38.9	38.9	39.7	7.09	7.29	7.27	275.80	283.58	288.62
Orlando	40.6	40.0	40.3	8.61	8.97	9.01	349.57	358.80	363.10
Pensacola	40.1	41.5	42.0	10.44	10.72	10.56	418.64	444.88	443.52
Tampa-St. Petersburg-Clearwater	40.0	39.8	40.8	7.60	8.17	8.12	304.00	325.17	331.30
West Palm Beach-Boca Raton-Delray Beach	40.7	40.8	40.7	9.11	9.00	9.12	370.78	367.20	371.18
Georgia	41.6	41.4	41.3	8.46	8.68	8.61	351.94	359.35	355.59
Atlanta	40.6	41.2	40.4	10.00	10.35	10.16	406.00	426.42	410.46
Savannah	45.3	48.1	47.4	10.95	11.42	11.32	496.04	549.30	536.57
Hawaii	40.5	40.6	40.3	9.25	9.92	9.73	374.63	402.75	392.12
Honolulu	39.9	40.6	40.1	9.44	10.11	9.81	376.66	410.47	393.38
Idaho	38.0	39.3	36.8	9.74	9.79	9.79	370.12	384.75	360.27
Illinois	41.6	41.6	41.5	10.87	11.10	11.10	452.19	461.76	460.65
Aurora-Elgin	42.6	41.3	42.1	10.56	10.68	10.70	449.86	441.08	450.47
Bloomington-Normal	40.6	38.8	39.7	10.96	11.59	11.77	444.98	449.69	467.27
Champaign-Urbana-Rantoul	40.0	40.2	39.1	9.22	9.16	9.16	368.80	368.23	358.16
Chicago	41.5	41.6	41.9	10.56	10.71	10.72	438.24	445.54	449.17
Davenport-Rock Island-Moline	41.7	38.8	38.7	12.72	12.92	12.88	530.42	501.30	498.46
Decatur	41.8	42.2	42.1	13.99	14.33	14.34	584.78	604.73	603.71
Joliet	40.7	41.4	41.2	11.83	11.98	12.00	481.48	495.97	494.40
Lake County	39.1	40.6	40.8	10.91	11.46	11.48	426.58	465.28	468.38
Peoria	44.4	47.3	44.5	13.08	13.48	13.36	580.75	637.60	594.52
Rockford	41.2	42.5	42.1	11.34	10.94	11.30	467.21	464.95	475.73
Springfield	45.0	42.8	43.9	12.06	11.87	12.00	542.70	508.04	526.80
Indiana	41.8	41.4	41.6	10.89	11.36	11.31	455.20	470.30	470.50

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Iowa	41.4	41.3	41.1	\$10.60	\$10.60	\$10.54	\$438.84	\$437.78	\$433.19
Cedar Rapids	39.5	39.7	39.3	12.33	12.17	12.16	487.04	483.15	477.89
Des Moines	41.2	40.8	41.7	11.70	11.87	11.77	482.04	484.30	490.81
Dubuque	43.6	40.6	41.3	12.22	11.86	11.42	532.79	481.52	471.65
Sioux City	38.4	30.3	34.8	8.33	8.18	8.23	319.87	247.85	286.40
Kansas	41.1	40.1	40.5	9.89	10.14	10.21	406.48	406.61	413.51
Topeka	42.4	42.8	42.3	11.58	11.30	11.54	490.99	483.64	488.14
Wichita	40.1	40.5	41.3	10.82	10.71	10.83	433.88	433.76	447.28
Kentucky	40.4	40.2	40.3	10.05	10.22	10.16	406.02	410.84	409.45
Lexington-Fayette	39.8	39.0	40.1	10.39	10.33	10.26	413.52	402.87	411.43
Louisville	41.6	42.0	41.4	11.60	11.85	11.76	482.56	497.70	486.86
Louisiana	41.4	42.4	42.9	10.88	11.08	10.95	450.43	469.79	469.76
Baton Rouge	42.6	43.3	42.5	11.96	13.14	12.90	509.50	568.96	548.25
New Orleans	40.4	41.1	43.3	10.62	10.66	10.52	429.05	438.13	455.52
Shreveport	39.7	41.6	42.1	11.55	11.61	11.74	458.54	482.98	494.25
Maine	41.7	39.7	39.9	8.65	9.37	8.97	360.71	371.99	357.90
Lewiston-Auburn	39.6	35.0	37.3	7.38	8.34	8.28	292.25	291.90	308.84
Portland	41.3	40.5	40.6	8.77	9.59	9.50	362.20	388.40	385.70
Maryland	40.8	41.3	41.4	10.03	10.43	10.38	409.22	430.76	429.73
Baltimore MSA	41.8	42.0	42.6	10.96	11.15	11.23	458.13	468.30	478.40
Massachusetts	41.2	41.4	41.1	9.83	10.32	10.25	405.00	427.25	421.28
Boston	40.5	41.8	41.4	10.71	11.05	10.99	433.76	461.89	454.99
Springfield	42.4	43.0	42.9	9.27	9.79	9.76	393.05	420.97	418.70
Worcester	40.8	40.5	40.4	9.92	10.51	10.45	404.74	425.66	422.18
Michigan	41.5	41.5	42.4	12.76	13.22	13.18	529.54	548.63	558.83
Ann Arbor	42.7	43.3	46.3	13.67	14.39	14.70	583.71	623.09	680.61
Battle Creek	42.8	42.4	42.5	13.85	14.95	14.89	592.78	633.88	632.82
Detroit	42.6	42.1	43.5	13.60	14.21	14.25	579.36	598.24	619.88
Flint	40.7	41.8	42.6	15.56	16.60	16.80	633.29	693.88	715.68
Grand Rapids	39.9	40.3	40.5	11.00	11.29	11.27	438.90	454.99	456.43
Kalamazoo	44.1	41.4	42.0	11.87	12.71	12.41	523.47	526.19	521.22
Lansing-East Lansing	41.2	37.6	37.9	13.27	15.13	13.86	546.72	568.89	525.29
Muskegon	40.6	41.2	40.8	12.05	11.93	12.10	489.23	491.52	493.68
Saginaw-Bay City-Midland	42.0	42.5	42.6	14.42	15.09	14.83	605.64	641.32	631.76
Minnesota	41.3	41.0	41.4	10.28	10.52	10.42	424.56	431.32	431.39
Duluth	37.2	38.5	38.5	10.86	11.12	10.99	403.99	428.12	423.12
Minneapolis-St. Paul	41.1	41.2	41.0	11.19	11.23	11.21	459.91	462.68	459.61
St. Cloud	39.1	38.9	37.5	9.61	9.94	9.80	375.75	386.67	367.50
Mississippi	40.4	40.0	40.4	7.58	7.75	7.86	306.23	310.00	317.54
Jackson	39.5	39.6	40.1	8.47	8.68	8.70	334.57	343.73	348.87
Missouri	40.1	40.2	40.2	9.90	10.10	10.11	396.99	406.02	406.42
Kansas City	40.2	40.2	40.5	10.87	11.17	11.24	436.97	449.03	445.22
St. Louis	40.6	40.4	40.8	11.70	11.79	11.81	475.02	476.32	481.85
Springfield	39.4	41.1	40.0	8.54	8.57	8.52	336.48	352.23	340.80
Montana	38.7	39.1	37.8	10.76	10.70	10.50	416.41	418.37	396.90
Nebraska	40.2	40.1	40.8	9.33	9.56	9.50	375.07	383.36	387.60
Lincoln	40.4	39.7	39.6	9.92	10.02	9.99	400.77	397.79	395.60
Omaha	40.9	41.8	41.0	10.04	10.47	10.30	410.64	437.65	422.30
Nevada	39.8	39.8	39.6	9.73	10.06	10.13	387.25	400.39	401.15
Las Vegas	39.9	40.0	39.7	11.84	12.59	12.52	472.42	503.60	497.04
New Hampshire	40.8	39.4	39.9	9.29	9.72	9.68	379.03	382.97	386.23
Nashua	40.3	39.2	39.7	11.28	11.83	11.87	454.58	463.74	471.24
Portsmouth-Dover-Rochester	39.9	39.0	39.5	9.21	9.41	9.27	367.48	366.99	366.17

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
New Jersey	40.8	40.7	40.8	\$10.40	\$10.87	\$10.81	\$424.32	\$442.41	\$441.05
New Mexico	39.1	40.3	39.5	8.74	9.00	8.82	341.73	362.70	348.39
Albuquerque	39.2	39.8	39.8	9.00	9.44	9.47	352.80	375.71	376.91
New York	39.7	39.6	39.7	9.98	10.43	10.42	396.21	413.03	413.67
Albany-Schenectady-Troy	39.7	40.8	40.5	10.58	11.06	11.10	420.03	451.25	449.55
Binghamton	40.5	39.8	40.2	9.24	9.70	9.62	374.22	386.06	386.72
Buffalo	40.5	43.1	43.1	11.84	12.38	12.11	479.52	533.58	521.94
Elmira	41.0	39.6	40.9	9.45	9.60	9.63	387.45	380.16	393.87
Nassau-Suffolk	40.1	38.8	39.6	10.92	11.09	11.11	437.89	430.29	439.96
New York PMSA	37.1	37.1	36.9	9.40	9.73	9.82	348.74	360.98	362.36
New York City	36.8	36.8	36.5	9.28	9.44	9.56	341.50	347.39	348.94
Niagara Falls	40.5	40.8	40.7	12.60	13.36	13.33	510.30	545.09	542.53
Orange County	38.6	39.7	38.8	7.85	8.14	8.17	303.01	323.16	317.00
Poughkeepsie	41.5	41.6	41.1	9.49	10.00	10.01	393.84	416.00	411.41
Rochester	41.7	43.2	43.2	11.73	12.11	12.15	489.14	523.15	524.88
Rockland County	39.5	35.3	35.4	10.36	11.05	10.90	409.22	390.07	385.86
Syracuse	41.2	41.1	40.5	11.10	12.13	12.14	457.32	498.54	491.67
Utica-Rome	41.0	40.9	41.1	9.35	9.83	9.59	383.35	402.05	394.15
Westchester County	38.7	40.5	40.2	10.07	11.58	11.44	389.71	468.99	459.89
North Carolina	41.2	40.1	40.5	7.84	8.13	8.13	323.01	326.01	329.27
Asheville	42.0	41.2	41.0	7.92	8.17	8.19	332.64	336.60	335.79
Charlotte-Gastonia-Rock Hill	42.4	40.0	40.7	8.06	8.41	8.43	341.74	336.40	343.10
Greensboro-Winston-Salem-High Point	40.7	39.7	40.1	8.63	8.95	8.90	351.24	355.32	356.89
Raleigh-Durham	41.8	41.3	41.6	9.02	9.24	9.24	377.04	381.61	384.38
North Dakota	38.6	38.4	38.7	8.49	8.42	8.41	327.71	323.33	325.47
Fargo-Moorhead	37.9	40.4	41.1	8.47	8.39	8.40	321.01	338.96	345.24
Ohio	42.3	42.3	42.5	11.64	11.88	11.95	492.37	502.52	507.88
Akron	43.3	43.1	42.9	11.14	11.46	11.46	482.36	493.93	491.63
Canton	41.1	42.3	42.3	11.21	11.25	11.33	460.73	475.88	479.26
Cincinnati	42.7	41.6	42.4	11.07	11.10	11.25	472.69	461.76	477.00
Cleveland	42.4	42.7	42.9	11.48	11.69	11.80	486.75	499.16	506.22
Columbus	41.1	41.2	40.8	11.38	11.54	11.55	467.72	475.45	471.24
Dayton-Springfield	41.7	42.4	42.4	11.82	12.39	12.42	492.89	525.34	526.61
Toledo	42.4	42.1	42.6	12.61	12.92	12.98	534.66	543.93	552.95
Youngstown-Warren	42.1	42.3	41.7	13.04	13.43	13.45	548.98	568.09	560.87
Oklahoma	41.3	40.2	40.8	10.26	10.22	10.38	423.74	410.84	423.50
Oklahoma City	40.2	39.9	41.0	11.31	11.28	11.58	454.66	450.07	474.78
Tulsa	42.1	40.8	40.6	10.62	10.71	10.79	447.10	436.97	438.07
Oregon	39.5	39.0	38.6	10.42	10.76	10.45	411.59	419.64	403.37
Eugene-Springfield	39.1	39.2	36.9	10.73	10.80	10.62	419.54	423.36	391.88
Portland	39.5	39.3	39.5	10.69	10.75	10.81	422.26	422.48	427.00
Salem	38.2	37.5	38.5	8.16	8.98	8.02	311.71	336.75	308.77

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Pennsylvania	41.1	40.8	40.8	\$9.96	\$10.28	\$10.25	\$409.36	\$419.42	\$418.20
Allentown-Bethlehem	40.0	40.1	39.8	10.50	10.43	10.38	420.00	418.24	413.12
Altoona	39.6	41.0	40.2	8.40	8.79	8.66	332.64	360.39	348.13
Beaver County	41.4	41.0	40.4	11.18	10.77	10.78	462.85	441.57	435.51
Erie	42.4	42.4	42.7	10.26	10.50	10.39	435.02	445.20	443.65
Harrisburg-Lebanon-Carlisle	40.1	39.6	39.6	9.40	9.58	9.69	376.94	379.37	383.72
Johnstown	39.3	39.6	39.5	8.25	8.49	8.41	324.23	336.20	332.20
Lancaster	40.6	39.7	40.9	9.67	10.09	10.20	392.60	400.57	417.18
Philadelphia PMSA	40.5	39.9	40.0	10.88	11.34	11.29	440.64	452.47	451.60
Pittsburgh	41.7	41.7	41.6	11.31	11.35	11.31	471.63	473.30	470.50
Reading	41.4	40.0	40.4	10.12	10.70	10.67	418.97	428.00	431.07
Scranton-Wilkes-Barre	39.2	39.0	39.5	8.79	9.03	8.97	344.57	352.17	354.32
Williamsport	41.4	42.0	41.8	8.43	8.90	8.99	349.00	373.80	375.78
York	42.7	42.1	42.7	9.45	9.81	9.81	403.52	413.00	418.89
Rhode Island	39.8	39.4	39.3	8.28	8.53	8.50	329.54	336.08	334.05
Pawtucket-Woonsocket-Attleboro	39.9	39.7	39.6	7.73	8.12	8.13	308.43	322.36	321.95
Providence	39.6	39.5	39.3	8.25	8.46	8.44	326.70	334.17	331.69
South Carolina	41.6	41.1	41.2	8.11	8.32	8.33	337.38	341.95	343.20
Charleston	41.4	41.0	40.8	9.09	9.20	9.24	376.33	377.20	376.99
Columbia	41.2	41.5	41.6	7.92	8.43	8.43	326.30	349.84	350.69
Greenville-Spartanburg	41.3	41.3	41.3	7.99	8.24	8.25	329.99	340.31	340.72
South Dakota	40.9	41.1	41.5	7.80	7.94	8.09	319.02	326.33	335.74
Sioux Falls	41.3	44.1	43.9	7.67	8.16	8.17	316.77	359.86	358.66
Tennessee	41.6	41.2	41.2	8.66	8.98	8.93	360.26	369.98	367.92
Chattanooga	42.3	41.5	42.1	7.83	8.27	8.25	331.21	343.21	347.33
Johnson City-Kingsport-Bristol	44.6	43.6	43.0	9.30	9.54	9.26	414.78	415.94	398.18
Knoxville	41.4	41.9	40.5	8.95	9.07	8.98	370.53	380.03	363.69
Memphis	42.7	41.3	42.6	8.57	8.94	8.78	365.94	369.22	374.03
Nashville	41.0	40.3	40.7	10.12	10.31	10.33	414.92	415.49	420.43
Texas	41.7	41.8	41.7	9.81	10.02	9.98	409.08	418.84	416.17
Dallas	41.7	41.4	41.6	9.78	9.78	9.82	407.83	404.89	408.51
Ft. Worth-Arlington	41.1	42.1	42.0	9.95	10.64	10.66	408.95	447.94	447.72
Houston	43.4	43.4	43.4	11.23	11.41	11.29	487.38	495.19	489.99
San Antonio	40.7	39.7	39.6	7.49	7.53	7.57	304.84	298.94	299.77
Utah	39.7	40.6	40.7	9.94	9.93	9.90	394.62	403.16	402.93
Salt Lake City-Ogden	40.9	41.6	41.3	10.08	9.98	9.89	412.27	415.17	408.46
Vermont	41.0	40.9	41.7	9.19	9.39	9.42	376.79	384.05	392.81
Burlington	41.1	41.2	40.9	9.94	9.91	9.94	408.53	408.29	406.55
Virginia	41.0	40.9	40.8	9.14	9.40	9.41	374.74	384.46	383.93
Bristol	40.5	44.9	39.7	7.60	7.70	7.91	307.80	345.73	314.03
Charlottesville	40.9	41.5	42.5	7.39	7.68	7.72	302.25	318.72	328.10
Danville	42.4	42.2	40.5	8.37	8.63	8.58	354.89	364.19	347.49
Lynchburg	42.4	41.7	41.0	8.65	8.87	8.95	366.76	369.88	366.95
Northern Virginia	39.3	39.4	39.3	9.84	10.55	10.76	386.71	415.67	422.87
Richmond-Petersburg	41.9	41.4	42.2	11.91	11.80	11.67	499.03	488.52	492.47
Roanoke	40.4	40.3	40.6	8.92	9.39	8.80	360.37	378.42	357.28
Washington	39.7	39.6	39.7	11.55	11.88	11.71	458.54	470.45	464.89

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. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p
West Virginia	40.3	41.1	41.0	\$10.45	\$11.08	\$10.83	\$421.14	\$455.39	\$444.03
Charleston	42.3	41.9	43.3	13.16	13.70	13.56	556.67	574.03	587.15
Huntington-Ashland	39.4	40.4	39.5	11.99	12.28	12.07	472.41	496.11	476.77
Parkersburg-Marietta	41.2	41.1	41.0	12.00	12.46	12.16	494.40	512.11	498.56
Wheeling	41.0	39.8	40.0	12.37	11.99	11.65	507.17	477.20	466.00
Wisconsin	41.4	41.6	41.3	10.28	10.58	10.43	425.59	440.13	430.76
Appleton-Oshkosh	42.5	42.9	42.1	10.67	11.09	11.09	453.48	475.76	466.89
Eau Claire	41.8	40.8	40.7	10.68	10.58	10.65	446.42	431.66	433.46
Green Bay	41.9	42.5	42.9	10.91	11.42	11.11	457.13	485.35	476.62
Janesville-Beloit	33.2	40.3	39.8	11.69	12.33	12.40	388.11	496.90	493.52
Kenosha	40.9	38.9	39.7	11.61	12.29	12.19	474.85	478.08	483.94
La Crosse	39.7	39.5	39.4	9.04	8.99	8.94	358.89	355.11	352.24
Madison	41.1	41.9	41.0	9.54	10.20	10.09	392.09	427.38	413.69
Milwaukee	41.3	41.6	40.9	11.59	11.64	11.52	478.67	484.22	471.17
Racine	40.1	41.3	38.8	10.77	11.21	10.77	431.88	462.97	417.88
Wausau	42.5	42.8	41.8	9.94	9.97	9.92	422.45	426.72	414.66
Wyoming	37.8	37.9	38.2	10.08	10.09	9.98	381.02	382.41	381.24
Puerto Rico	38.5	39.1	38.9	5.46	5.54	5.55	210.21	216.61	215.90
Virgin Islands	42.3	40.5	38.7	9.25	9.54	9.79	391.27	386.37	378.87

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 1987 benchmarks, except Colorado. Data for Colorado have been adjusted to December 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 1988 ¹	Aug. 1988 ¹	Sept. 1988 ²	Sept. 1987 to Sept. 1988 ²	July 1988 to Aug. 1988 ¹	Aug. 1988 to Sept. 1988 ²
Total	198,254	197,710	198,094	5.1	-0.3	0.2
Private sector	163,560	162,675	162,961	3.7	-5	.2
Mining	1,634	1,622	1,615	-.4	-.7	-.4
Construction	10,444	10,493	10,418	12.3	.5	-.7
Manufacturing	41,770	41,660	41,795	2.4	-.3	.3
Durable goods	24,939	24,872	24,991	2.9	-.3	.5
Nondurable goods	16,831	16,788	16,804	1.7	-.3	.1
Transportation and public utilities	11,545	11,499	11,481	4.0	-.4	-.2
Wholesale trade	12,256	12,194	12,305	5.0	-.5	.9
Retail trade	29,353	29,094	29,034	2.0	-.9	-.2
Finance, insurance, and real estate	12,590	12,409	12,447	.0	-1.4	.3
Services	43,970	43,703	43,865	5.1	-.6	.4
Government	34,694	35,035	35,133	12.0	1.0	.3

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

² = preliminary.

= revised.

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

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

(1977 = 100)

Item	Annual average		Quarterly index										
	1986	1987	1985	1986				1987				1988	
			IV	I	II	III	IV	I	II	III	IV	I	II
Business sector													
Output per hour of all persons	110.1	111.0	108.5	110.5	110.4	110.0	109.8	109.9	110.6	111.7	111.8	112.8	112.1
Output	128.6	133.3	125.9	128.4	128.2	128.5	129.3	130.5	132.2	134.3	136.2	138.0	139.2
Hours	116.8	120.1	116.1	116.2	116.1	116.8	117.8	118.8	119.5	120.3	121.8	122.3	124.2
Compensation per hour	183.1	190.4	178.8	180.4	182.0	184.0	186.2	187.3	189.0	191.1	194.0	195.8	198.0
Real compensation per hour	101.2	101.5	99.4	100.0	101.2	101.7	102.2	101.5	101.2	101.4	102.0	102.1	102.1
Unit labor costs	166.3	171.5	164.8	163.3	164.9	167.3	169.6	170.5	170.8	171.1	173.5	173.5	176.7
Unit nonlabor payments	165.0	168.7	161.6	164.5	165.2	166.6	163.7	165.6	168.7	171.5	168.9	170.0	170.2
Implicit price deflator	165.8	170.5	163.7	163.7	165.0	167.0	167.5	168.7	170.1	171.2	171.9	172.3	174.4
Nonfarm business sector													
Output per hour of all persons	108.2	109.0	106.5	108.6	108.4	108.0	107.8	107.8	108.6	109.6	109.9	110.8	110.4
Output	128.2	133.0	125.5	128.1	127.8	128.1	128.8	130.1	131.9	134.1	136.0	137.9	139.6
Hours	118.5	122.1	117.9	117.9	117.9	118.6	119.5	120.7	121.5	122.3	123.8	124.4	126.5
Compensation per hour	182.3	189.4	177.9	179.8	181.2	183.1	185.4	186.4	187.9	190.0	192.9	194.6	196.6
Real compensation per hour	100.8	101.0	99.0	99.6	100.7	101.2	101.8	101.0	100.6	100.8	101.4	101.5	101.3
Unit labor costs	168.6	173.8	167.1	165.5	167.1	169.5	172.1	172.9	173.0	173.3	175.6	175.7	178.1
Unit nonlabor payments	166.4	170.2	162.7	166.1	166.6	168.1	164.9	167.2	169.8	173.0	170.9	171.6	171.6
Implicit price deflator	167.8	172.5	165.5	165.7	167.0	169.0	169.5	170.9	171.9	173.2	174.0	174.2	175.8
Manufacturing													
Output per hour of all persons	127.7	132.0	125.3	126.6	127.2	128.0	128.8	130.0	131.7	132.8	133.2	134.3	135.5
Output	124.7	130.1	123.3	124.2	124.1	124.8	125.9	127.2	128.7	131.1	133.5	135.0	136.9
Hours	97.7	98.6	98.4	98.1	97.6	97.4	97.7	97.8	97.7	98.8	100.2	100.6	101.1
Compensation per hour	183.0	186.9	179.4	181.1	182.0	183.6	185.3	185.9	186.3	187.2	188.2	190.7	192.1
Real compensation per hour	101.2	99.7	99.8	100.3	101.2	101.5	101.7	100.8	99.7	99.3	99.0	99.4	99.0
Unit labor costs	143.3	141.7	143.2	143.0	143.2	143.4	143.8	143.1	141.4	141.0	141.3	142.1	141.9
Durable goods													
Output per hour of all persons	133.5	138.5	130.4	132.2	132.6	133.9	135.1	136.6	138.1	139.1	140.0	141.3	142.7
Output	130.8	136.0	129.5	130.5	130.0	130.7	131.8	133.3	134.2	136.5	139.9	141.3	144.0
Hours	98.0	98.2	99.3	98.7	98.0	97.6	97.6	97.6	97.2	98.2	99.9	100.0	100.9
Compensation per hour	181.9	185.2	178.6	180.3	180.8	182.2	184.2	184.9	184.4	185.3	186.2	189.5	190.2
Real compensation per hour	100.6	98.8	99.3	99.9	100.5	100.7	101.2	100.2	98.8	98.3	97.9	98.8	98.0
Unit labor costs	136.3	133.7	136.9	136.4	136.3	136.0	136.4	135.3	133.5	133.2	133.0	134.1	133.3
Nondurable goods													
Output per hour of all persons	118.9	122.3	117.6	118.1	118.9	119.2	119.6	120.1	122.4	123.5	123.2	123.9	124.7
Output	115.8	121.4	114.1	114.7	115.4	115.9	117.0	118.0	120.5	123.1	124.0	125.6	126.3
Hours	97.3	99.3	97.0	97.1	97.0	97.2	97.9	98.2	98.4	99.7	100.7	101.4	101.3
Compensation per hour	184.8	190.1	180.5	182.1	184.0	186.0	187.2	188.0	189.7	190.8	191.9	193.2	195.7
Real compensation per hour	102.2	101.4	100.4	100.9	102.3	102.8	102.8	101.9	101.6	101.2	100.9	100.8	100.8
Unit labor costs	155.4	155.4	153.5	154.3	154.7	156.0	156.5	156.4	155.0	154.5	155.8	156.0	156.9
Nonfinancial corporations													
Output per all-employee hour	109.7	111.3	108.0	109.5	109.3	109.6	110.3	110.1	110.9	112.2	112.2	113.3	113.5
Output	129.1	134.6	126.7	128.8	128.3	128.9	130.4	131.3	133.3	136.1	137.7	140.1	141.9
Hours	117.7	120.9	117.3	117.6	117.3	117.6	118.1	119.3	120.2	121.3	122.8	123.6	125.1
Compensation per hour	179.5	185.5	175.3	177.1	178.5	180.2	182.2	182.9	184.3	186.1	188.5	189.9	191.8
Real compensation per hour	99.2	98.9	97.5	98.1	99.2	99.6	100.1	99.1	98.7	98.7	99.1	99.0	98.9
Total unit costs	167.3	170.6	165.8	165.5	166.7	168.4	168.8	169.9	170.3	170.2	172.0	171.5	172.8
Unit labor costs	163.6	166.6	162.3	161.7	163.3	164.3	165.1	166.2	166.1	165.9	168.1	167.5	169.1
Unit nonlabor costs	178.4	182.5	176.3	176.7	176.9	180.3	179.6	180.8	182.6	183.0	183.6	183.4	184.0
Unit profits	132.4	130.8	132.4	133.7	132.7	133.6	129.7	128.5	129.8	136.4	128.3	132.5	133.9
Implicit price deflator	163.2	165.8	161.8	161.7	162.6	164.2	164.1	164.9	165.4	166.1	166.7	166.9	168.2

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 1987	II 1987	III 1987	IV 1987	I 1988	II 1988	I 1987	II 1987	III 1987	IV 1987	I 1988	II 1988
Business sector												
Output per hour of all persons	0.3	2.7	3.9	0.6	3.5	-2.5	-0.6	0.2	1.5	1.9	2.7	1.3
Output	3.7	5.3	6.6	5.7	5.5	3.4	1.6	3.1	4.5	5.3	5.8	5.3
Hours	3.4	2.5	2.6	5.1	1.9	6.0	2.2	2.9	3.0	3.4	3.0	3.9
Compensation per hour	2.5	3.6	4.6	6.2	3.7	4.8	3.8	3.8	3.9	4.2	4.5	4.8
Real compensation per hour	-2.8	-1.2	.8	2.4	.3	.0	1.5	.0	-.3	-.2	.5	.9
Unit labor costs	2.2	.8	.7	5.6	.2	7.5	4.4	3.6	2.3	2.3	1.8	3.4
Unit nonlabor payments	4.6	7.9	6.7	-5.8	2.5	.6	.7	2.1	2.9	3.2	2.7	.9
Implicit price deflator	3.0	3.2	2.8	1.4	1.0	5.0	3.1	3.1	2.5	2.6	2.1	2.5
Nonfarm business sector												
Output per hour of all persons .....	.0	3.2	3.7	.9	3.4	-1.4	-.8	.2	1.5	1.9	2.8	1.6
Output	4.0	5.7	6.8	5.9	5.6	5.2	1.6	3.2	4.7	5.6	6.0	5.8
Hours	4.0	2.5	2.9	4.9	2.1	6.6	2.4	3.0	3.2	3.6	3.1	4.1
Compensation per hour	2.1	3.4	4.5	6.4	3.5	4.2	3.7	3.7	3.7	4.1	4.4	4.6
Real compensation per hour	-3.2	-1.4	.6	2.6	.1	-.6	1.4	-.1	-.4	-.4	.5	.7
Unit labor costs	2.1	.2	.7	5.4	1.1	5.7	4.5	3.5	2.2	2.1	1.6	2.9
Unit nonlabor payments	5.7	6.5	7.7	-4.8	1.6	.2	.6	1.9	2.9	3.6	2.6	1.1
Implicit price deflator	3.3	2.3	3.1	1.8	.6	3.7	3.1	3.0	2.5	2.6	1.9	2.3
Manufacturing												
Output per hour of all persons	3.6	5.5	3.2	1.3	3.2	3.6	2.7	3.6	3.7	3.4	3.3	2.8
Output	4.1	4.9	7.8	7.5	4.6	5.7	2.4	3.7	5.1	6.0	6.2	6.4
Hours .....	.5	-.6	4.4	6.1	1.3	2.0	-.3	.1	1.4	2.6	2.8	3.4
Compensation per hour	1.4	.7	2.1	2.1	5.4	3.0	2.7	2.3	2.0	1.6	2.6	3.2
Real compensation per hour	-3.8	-4.0	-1.7	-1.5	2.0	-1.7	.4	-1.4	-2.1	-2.7	-1.3	-.7
Unit labor costs	-2.1	-4.6	-1.1	.8	2.2	-.6	.0	-1.2	-1.7	-1.8	-.7	.3
Durable goods												
Output per hour of all persons	4.7	4.4	2.9	2.6	3.8	3.9	3.3	4.1	3.8	3.7	3.4	3.3
Output	4.5	2.8	7.0	10.2	4.3	7.7	2.1	3.3	4.5	6.1	6.0	7.3
Hours	-.2	-1.5	4.0	7.3	.4	3.7	-1.2	-.8	.6	2.3	2.5	3.8
Compensation per hour	1.3	-1.0	2.0	1.9	7.1	1.5	2.6	2.0	1.7	1.1	2.5	3.1
Real compensation per hour	-3.9	-5.6	-1.7	-1.7	3.6	-3.1	.3	-1.7	-2.4	-3.2	-1.4	-.8
Unit labor costs	-3.2	-5.1	-.9	-.7	3.2	-2.3	-.8	-2.0	-2.1	-2.5	-.9	-.2
Nondurable goods												
Output per hour of all persons	1.9	7.6	3.8	-1.1	2.3	2.8	1.8	2.9	3.6	3.0	3.1	1.9
Output	3.4	8.5	9.0	3.1	5.1	2.4	2.9	4.4	6.2	6.0	6.4	4.9
Hours	1.5	.8	5.1	4.2	2.7	-.4	1.1	1.5	2.5	2.9	3.2	2.9
Compensation per hour	1.6	3.8	2.4	2.2	2.9	5.2	3.2	3.1	2.6	2.5	2.8	3.2
Real compensation per hour	-3.6	-1.0	-1.4	-1.4	-.5	.4	.9	-.7	-1.5	-1.9	-1.1	-.7
Unit labor costs	-.2	-3.6	-1.3	3.4	.6	2.3	1.4	.2	-1.0	-.5	-.3	1.2
Nonfinancial corporations												
Output per all-employee hour	-1.0	3.1	4.7	-.1	4.3	.4	.5	1.5	2.3	1.6	3.0	2.3
Output	2.9	6.1	8.8	4.7	7.2	5.2	2.0	3.9	5.6	5.6	6.7	6.5
Hours	4.0	2.9	4.0	4.8	2.8	4.7	1.5	2.4	3.2	3.9	3.6	4.1
Compensation per hour	1.6	2.9	4.1	5.2	3.0	4.2	3.3	3.2	3.3	3.4	3.8	4.1
Real compensation per hour	-3.6	-1.8	.3	1.5	-.4	-.6	1.0	-.6	-.9	-1.0	-.1	.2
Total unit costs	2.6	1.0	-.2	4.2	-1.0	3.0	2.6	2.1	1.1	1.9	1.0	1.5
Unit labor costs	2.6	-.2	-.6	5.3	-1.2	3.7	2.8	1.7	.9	1.8	.8	1.8
Unit nonlabor costs	2.5	4.1	.8	1.3	-.3	1.2	2.3	3.2	1.5	2.2	1.5	.7
Unit profits	-3.5	3.9	21.9	-21.5	13.8	4.1	-3.8	-2.2	2.0	-1.1	3.1	3.2
Implicit price deflator	2.0	1.2	1.7	1.5	.3	3.1	2.0	1.7	1.2	1.6	1.2	1.7

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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Alabama	1,904.9	1,882.5	1,884.9	141.2	131.4	132.4	7.4	7.0	7.0
Birmingham	450.0	447.6	452.2	29.1	25.2	26.4	6.5	5.6	5.8
Huntsville	131.3	133.5	133.6	6.3	6.9	6.8	4.8	5.2	5.1
Mobile	214.0	210.0	209.6	19.5	17.2	17.1	9.1	8.2	8.2
Montgomery	138.9	136.1	135.2	9.0	8.2	8.3	6.5	6.0	6.1
Tuscaloosa	69.5	68.2	69.3	4.2	3.6	3.7	6.0	5.3	5.3
Alaska	265.6	254.2	251.1	23.6	19.4	19.1	8.9	7.6	7.6
Arizona	1,583.9	1,616.9	1,638.9	100.7	108.8	113.7	6.4	6.7	6.9
Phoenix	985.3	1,010.3	1,019.2	49.8	51.1	54.8	5.0	5.1	5.4
Tucson	298.4	302.8	308.6	14.6	15.7	16.6	4.9	5.2	5.4
Arkansas	1,100.6	1,121.4	1,119.4	80.5	86.5	83.1	7.3	7.7	7.4
Fayetteville-Springdale	57.9	60.4	60.8	2.0	2.7	2.7	3.5	4.5	4.4
Fort Smith	91.3	94.7	93.3	5.1	5.8	5.6	5.6	6.1	6.0
Little Rock-North Little Rock	258.5	264.5	263.9	17.7	17.6	16.9	6.8	6.6	6.4
Pine Bluff	36.7	37.2	37.0	3.2	3.3	3.2	8.6	8.9	8.6
California¹	13,874.8	14,299.1	14,256.3	750.0	838.5	794.3	5.4	5.9	5.6
Anaheim-Santa Ana	1,297.2	1,360.8	1,346.3	41.7	47.1	44.9	3.2	3.5	3.3
Bakersfield	227.0	237.6	230.2	20.2	23.1	23.1	8.9	9.7	10.1
Fresno	309.7	319.9	328.9	25.1	33.0	31.7	8.1	10.3	9.6
Los Angeles-Long Beach	4,226.0	4,180.1	4,128.5	248.0	234.6	221.1	5.9	5.6	5.4
Modesto	157.0	168.2	165.6	13.8	20.6	16.9	8.8	12.3	10.2
Oakland	1,043.9	1,087.1	1,084.5	50.7	56.7	53.3	4.9	5.2	4.9
Oxnard-Ventura	342.5	366.5	365.8	19.8	24.1	23.3	5.8	6.6	6.4
Riverside-San Bernardino	911.6	974.2	975.8	54.4	68.0	66.6	6.0	7.0	6.8
Sacramento	688.8	728.2	732.6	34.1	41.1	38.5	4.9	5.6	5.3
San Diego	1,076.4	1,135.3	1,142.1	48.3	55.5	53.9	4.5	4.9	4.7
San Francisco	884.1	908.2	910.3	33.7	37.5	36.1	3.8	4.1	4.0
San Jose	807.5	841.7	836.5	33.6	37.1	34.1	4.2	4.4	4.1
Santa Barbara-Santa Maria-Lompoc	180.2	183.8	185.5	7.9	8.3	8.5	4.4	4.5	4.6
Santa Rosa-Petaluma	185.2	199.7	202.5	8.0	10.0	9.5	4.3	5.0	4.7
Stockton	193.7	197.1	199.7	14.9	20.1	17.8	7.7	10.2	8.9
Vallejo-Fairfield-Napa	184.0	199.6	199.9	9.7	12.3	11.4	5.3	6.2	5.7
Colorado	1,683.4	1,688.4	1,695.3	114.2	95.7	91.9	6.8	5.7	5.4
Boulder-Longmont	128.7	129.8	129.9	6.8	5.7	5.3	5.2	4.4	4.1
Denver	884.2	880.6	883.6	57.0	48.0	46.3	6.4	5.4	5.2
Connecticut	1,746.5	1,759.3	1,782.5	56.8	55.6	54.5	3.3	3.2	3.1
Bridgeport-Milford	227.8	229.8	232.2	8.8	9.9	9.1	3.9	4.3	3.9
Hartford	422.0	427.1	430.9	12.8	11.6	12.2	3.0	2.7	2.8
New Haven-Meriden	273.1	274.9	279.6	8.8	8.6	8.4	3.2	3.1	3.0
Stamford	118.6	119.2	120.8	2.6	2.4	2.5	2.2	2.0	2.1
Waterbury	101.7	102.2	104.3	4.4	4.5	4.0	4.4	4.4	3.9
Delaware	333.6	353.9	351.3	8.2	11.0	10.8	2.4	3.1	3.1
Wilmington	284.7	304.1	300.8	8.4	12.1	11.7	2.9	4.0	3.9
District of Columbia	348.8	357.9	355.1	20.5	18.0	17.6	5.9	5.0	4.9
Washington	2,146.3	2,262.0	2,255.4	65.7	65.6	65.6	3.1	2.9	2.9
Florida¹	5,927.2	6,199.0	6,235.0	336.5	313.2	314.1	5.7	5.1	5.0
Daytona Beach	148.4	157.0	156.6	7.5	6.2	6.9	5.1	4.0	4.4
Fort Lauderdale-Hollywood-Pompano Beach	619.8	656.4	661.1	28.1	25.8	25.6	4.5	3.9	3.9
Fort Myers-Cape Coral	131.7	143.8	144.2	5.6	5.1	5.5	4.2	3.6	3.8
Jacksonville	451.7	481.6	486.1	23.8	24.7	25.5	5.3	5.1	5.2
Melbourne-Titusville-Palm Bay	180.2	188.7	191.6	9.5	8.5	8.3	5.3	4.5	4.3
Miami-Hialeah	926.3	939.4	943.0	55.5	50.3	50.0	6.0	5.4	5.3
Orlando	564.6	595.9	599.3	27.2	27.1	25.7	4.8	4.6	4.3
Pensacola	152.3	155.5	155.9	9.7	8.5	8.4	6.4	5.5	5.4
Sarasota	117.7	124.6	126.1	4.2	4.0	4.4	3.5	3.2	3.5
Tallahassee	123.7	130.0	130.0	5.2	4.9	4.9	4.2	3.8	3.7
Tampa-St. Petersburg-Clearwater	960.0	1,003.5	1,002.8	46.4	44.6	45.1	4.8	4.4	4.5
West Palm Beach-Boca Raton-Delray Beach	394.5	415.7	420.8	26.1	24.4	23.5	6.6	5.9	5.6

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Georgia	3,066.9	3,180.5	3,197.3	162.1	207.8	196.3	5.3	6.5	6.1
Athens	71.8	73.4	73.5	3.1	3.9	3.0	4.3	5.3	4.1
Atlanta	1,451.1	1,508.0	1,518.6	67.9	82.3	83.8	4.7	5.5	5.5
Augusta	179.4	183.5	184.1	10.2	11.7	11.1	5.7	6.4	6.0
Columbus	100.2	101.5	102.1	5.9	7.1	6.5	5.9	7.0	6.3
Macon-Warner Robins	128.1	130.7	132.0	6.3	7.3	6.9	4.9	5.6	5.2
Savannah	110.1	114.0	114.3	6.5	8.0	7.6	5.9	7.0	6.6
Hawaii	524.4	518.9	519.7	19.5	16.0	15.4	3.7	3.1	3.0
Honolulu	390.1	387.0	387.5	13.3	10.3	10.0	3.4	2.7	2.6
Idaho	483.0	486.2	482.5	36.7	25.7	25.4	7.6	5.3	5.3
Boise City	104.2	105.4	105.7	5.3	3.9	3.2	5.1	3.7	3.1
Illinois ¹	5,904.4	5,868.6	5,961.8	401.6	361.6	402.4	6.8	6.2	6.7
Aurora-Elgin	177.3	180.4	180.9	9.1	8.6	9.3	5.2	4.8	5.1
Bloomington-Normal	65.7	66.1	67.9	2.7	2.9	3.5	4.1	4.4	5.2
Champaign-Urbana-Rantoul	84.4	86.1	85.4	3.4	3.3	3.5	4.1	3.8	4.1
Chicago	3,256.6	3,245.7	3,299.0	202.7	181.3	205.5	6.2	5.6	6.2
Davenport-Rock Island-Moline	182.6	183.8	184.1	13.0	14.0	13.9	7.1	7.6	7.6
Decatur	59.4	58.5	58.7	5.4	5.0	5.0	9.1	8.5	8.6
Joliet	198.7	194.0	196.9	14.7	13.4	14.3	7.4	6.9	7.3
Lake County	275.4	279.5	280.5	11.6	10.8	12.1	4.2	3.9	4.3
Peoria	155.8	156.8	158.3	11.3	10.1	10.7	7.3	6.5	6.8
Rockford	151.6	148.8	150.5	13.6	13.1	10.6	9.0	8.8	7.1
Springfield	116.8	110.4	116.2	5.3	4.9	5.8	4.5	4.4	5.0
Indiana	2,764.1	2,839.2	2,845.4	159.2	143.0	131.1	5.8	5.0	4.6
Anderson	60.4	59.7	58.4	4.7	4.8	3.0	7.8	8.0	5.2
Bloomington	55.8	59.2	59.8	2.4	1.9	1.7	4.3	3.2	2.9
Elkhart-Goshen	93.3	98.5	98.1	4.2	4.0	3.5	4.5	4.1	3.5
Evansville	141.9	144.6	144.6	9.2	7.8	7.2	6.5	5.4	5.0
Fort Wayne	194.9	203.7	205.0	9.7	9.1	8.3	5.0	4.5	4.1
Gary-Hammond	253.6	257.1	256.1	20.8	14.1	14.2	8.2	5.5	5.6
Indianapolis	661.0	682.5	687.9	31.9	29.3	30.1	4.8	4.3	4.4
Lafayette	63.1	65.5	64.9	2.4	1.9	1.5	3.9	2.9	2.3
Muncie	57.3	58.9	58.6	3.9	3.2	3.0	6.8	5.5	5.1
South Bend-Mishawaka	125.7	129.8	129.4	6.4	7.3	6.0	5.1	5.6	4.6
Terre Haute	57.6	58.6	58.9	3.3	3.2	2.9	5.7	5.5	4.9
Iowa	1,437.5	1,500.6	1,475.6	65.5	62.4	59.5	4.6	4.2	4.0
Cedar Rapids	91.4	96.1	95.6	4.2	3.3	3.2	4.6	3.4	3.4
Des Moines	221.5	231.9	232.2	8.6	7.9	8.5	3.9	3.4	3.7
Dubuque	43.2	44.6	43.9	2.0	2.1	2.0	4.7	4.7	4.5
Sioux City	60.3	62.5	60.9	3.4	2.9	2.9	5.6	4.7	4.7
Waterloo-Cedar Falls	65.9	68.4	67.0	4.4	3.8	3.2	6.7	5.5	4.8
Kansas	1,268.8	1,284.5	1,276.7	56.3	59.8	53.3	4.4	4.7	4.2
Topeka	90.6	92.7	92.3	4.0	4.0	3.9	4.4	4.3	4.2
Wichita	252.6	256.2	254.3	11.6	12.5	12.0	4.6	4.9	4.7
Kentucky	1,670.2	1,709.2	1,693.3	130.8	144.0	116.8	7.8	8.4	6.9
Lexington-Fayette	176.6	185.5	183.9	8.2	9.8	8.1	4.6	5.3	4.4
Louisville	493.2	516.1	512.2	32.7	32.1	28.0	6.6	6.2	5.5
Owensboro	44.3	44.1	44.1	4.4	3.9	3.2	9.9	8.8	7.3
Louisiana	1,941.0	1,938.5	1,918.8	218.1	200.0	192.0	11.2	10.3	10.0
Alexandria	61.2	61.4	60.9	5.8	6.0	5.8	9.4	9.9	9.5
Baton Rouge	262.0	264.2	262.9	25.4	24.8	23.9	9.7	9.4	9.1
Houma-Thibodaux	71.3	69.9	68.5	9.9	7.0	6.5	13.9	10.1	9.5
Lafayette	99.4	99.1	97.6	11.6	8.9	8.7	11.6	9.0	9.0
Monroe	69.2	68.9	67.4	6.6	7.1	6.5	9.5	10.3	9.6
New Orleans	604.2	605.0	602.5	58.8	54.7	52.9	9.7	9.0	8.8
Shreveport	165.1	166.1	164.6	16.6	16.3	15.8	10.1	9.8	9.6
Maine	620.6	612.7	619.3	21.6	29.1	16.1	3.5	4.7	2.6
Lewiston-Auburn	41.6	42.4	41.1	2.0	3.6	1.3	4.9	8.5	3.3
Portland	129.1	127.5	129.6	2.5	2.6	1.8	1.9	2.1	1.4

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
Maryland	2,409.7	2,468.2	2,467.6	96.1	104.7	102.9	4.0	4.2	4.2
Baltimore	1,162.7	1,181.6	1,178.1	51.1	53.5	53.3	4.4	4.5	4.5
Massachusetts¹	3,165.1	3,200.4	3,186.5	89.0	115.6	98.7	2.8	3.6	3.1
Boston	1,560.1	1,569.9	1,565.3	39.8	48.9	42.8	2.5	3.1	2.7
Brockton	99.0	101.6	100.7	3.2	4.4	3.7	3.2	4.3	3.7
Fall River	77.3	76.0	76.6	3.3	4.6	3.5	4.2	6.1	4.6
Fitchburg-Leominster	45.5	45.0	44.8	1.7	2.5	2.0	3.8	5.5	4.4
Lawrence-Haverhill	186.5	185.2	184.9	7.8	8.2	7.4	4.2	4.4	4.0
Lowell	151.7	152.3	150.9	4.7	5.9	5.4	3.1	3.8	3.6
New Bedford	85.9	88.3	88.8	3.3	4.8	3.8	3.9	5.4	4.3
Springfield	254.6	257.2	255.4	7.1	9.3	8.0	2.8	3.6	3.1
Worcester	218.2	223.5	221.8	5.7	7.7	6.5	2.6	3.4	2.9
Michigan¹	4,689.8	4,658.0	4,661.9	389.7	362.1	325.3	8.3	7.8	7.0
Ann Arbor	158.2	162.8	164.2	7.4	6.4	6.2	4.7	3.9	3.7
Battle Creek	67.7	66.2	66.4	5.7	4.5	4.2	8.4	6.8	6.3
Benton Harbor	79.8	80.6	80.3	5.6	5.3	4.7	7.0	6.6	5.8
Detroit	2,256.3	2,237.2	2,238.8	192.9	190.0	169.3	8.5	8.5	7.6
Flint	209.5	202.1	200.7	28.1	30.1	29.9	13.4	14.9	14.9
Grand Rapids	360.1	361.7	365.0	22.9	19.9	17.0	6.4	5.5	4.7
Kalamazoo	118.7	118.0	117.0	6.4	6.1	5.2	5.5	5.2	4.4
Lansing-East Lansing	241.7	239.6	237.9	18.8	14.3	12.4	7.8	6.0	5.2
Muskegon	71.1	69.3	70.1	6.5	5.8	5.1	9.1	8.4	7.2
Saginaw-Bay City-Midland	192.3	190.6	191.3	15.2	13.6	11.2	7.9	7.1	5.9
Minnesota	2,263.7	2,348.0	2,338.8	102.4	81.7	84.7	4.5	3.5	3.6
Duluth	106.9	107.5	107.2	8.1	5.6	5.7	7.6	5.2	5.3
Minneapolis-St. Paul	1,354.8	1,399.6	1,396.0	53.3	43.2	45.7	3.9	3.1	3.3
Rochester	57.7	60.4	60.4	1.7	1.5	1.4	3.0	2.5	2.3
St. Cloud	89.7	94.1	93.3	4.4	3.6	3.7	5.0	3.8	3.9
Mississippi	1,141.5	1,145.9	1,134.4	112.8	90.8	88.8	9.9	7.9	7.8
Jackson	197.5	200.5	199.7	13.8	11.2	10.8	7.0	5.6	5.4
Missouri	2,590.8	2,615.7	2,615.9	155.2	154.3	146.3	6.0	5.9	5.6
Kansas City	841.2	843.6	836.0	47.4	49.0	41.2	5.6	5.8	4.9
St. Louis	1,287.4	1,284.2	1,290.7	84.9	82.3	83.2	6.6	6.4	6.4
Springfield	110.8	122.6	124.8	5.5	4.9	5.2	5.0	4.0	4.2
Montana	407.3	398.0	400.3	25.6	24.8	22.9	6.3	6.2	5.7
Nebraska	819.9	818.3	818.5	35.0	27.5	26.1	4.3	3.4	3.2
Lincoln	121.3	121.1	121.8	4.3	3.2	2.9	3.6	2.7	2.4
Omaha	320.5	326.2	326.4	15.3	12.8	12.3	4.8	3.9	3.8
Nevada	563.6	586.4	588.6	32.8	29.7	29.3	5.8	5.1	5.0
Las Vegas	324.9	339.3	339.3	20.5	19.3	18.9	6.3	5.7	5.6
Reno	139.7	143.3	143.7	7.0	6.0	5.9	5.0	4.2	4.1
New Hampshire	613.1	609.5	618.2	14.3	15.2	13.9	2.3	2.5	2.2
Nashua	98.6	98.1	99.5	2.6	2.6	2.9	2.6	2.7	2.9
Portsmouth-Dover-Rochester	137.8	136.2	138.9	2.7	2.9	2.4	2.0	2.1	1.7
New Jersey¹	4,034.1	4,052.8	4,028.9	155.7	168.4	143.2	3.9	4.2	3.6
Atlantic City	191.3	189.7	188.8	7.9	8.3	7.2	4.1	4.4	3.8
Bergen-Passaic	724.3	727.6	723.5	24.4	27.5	22.6	3.4	3.8	3.1
Jersey City	269.7	271.2	271.4	16.5	19.5	15.8	6.1	7.2	5.8
Middlesex-Somerset-Hunterdon	561.5	570.1	567.2	17.1	17.7	15.6	3.0	3.1	2.7
Monmouth-Ocean	495.7	503.1	499.2	14.6	17.6	15.0	3.0	3.5	3.0
Newark	972.3	971.0	963.2	40.8	42.1	36.6	4.2	4.3	3.8
Trenton	172.1	172.8	171.4	6.3	5.5	4.7	3.7	3.2	2.7
New Mexico	687.7	692.0	696.9	58.6	57.9	57.1	8.5	8.4	8.2
Albuquerque	257.7	265.1	266.0	16.7	17.6	17.4	6.5	6.6	6.5
Las Cruces	55.6	55.1	57.5	4.1	4.4	4.5	7.5	8.0	7.8
Santa Fe	67.6	69.4	70.0	3.6	3.6	3.5	5.4	5.2	5.0

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. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P	Aug. 1987	July 1988	Aug. 1988 ^P
New York¹	8,655.5	8,714.1	8,742.4	375.8	364.5	367.0	4.3	4.2	4.2
Albany-Schenectady-Troy	426.6	428.8	433.6	14.7	14.5	14.7	3.4	3.4	3.4
Binghamton	125.5	128.2	128.8	4.3	4.2	4.3	3.4	3.3	3.3
Buffalo	447.4	454.3	457.2	23.1	22.0	22.2	5.2	4.8	4.8
Elmira	42.0	43.4	43.6	1.5	1.7	1.5	3.5	4.0	3.4
Nassau-Suffolk	1,439.4	1,468.7	1,462.0	47.8	49.2	49.9	3.3	3.3	3.4
New York	4,003.0	3,992.1	4,009.3	189.9	182.2	185.7	4.7	4.6	4.6
New York City	3,308.0	3,289.6	3,302.2	169.0	161.6	165.5	5.1	4.9	5.0
Orange County	132.5	136.4	137.5	4.4	4.8	5.1	3.3	3.5	3.7
Poughkeepsie	128.5	132.5	132.8	3.2	2.9	3.1	2.5	2.2	2.4
Rochester	500.6	503.8	505.4	20.6	19.4	18.2	4.1	3.9	3.6
Syracuse	321.4	321.3	321.9	17.6	13.6	13.1	5.5	4.2	4.1
Utica-Rome	138.2	140.1	140.9	5.9	6.1	5.7	4.3	4.3	4.0
North Carolina¹	3,331.9	3,410.7	3,388.3	139.1	108.7	101.4	4.2	3.2	3.0
Asheville	89.3	92.2	90.4	3.4	2.2	2.1	3.8	2.4	2.3
Charlotte-Gastonia-Rock Hill	636.8	661.5	658.5	23.2	18.9	18.0	3.6	2.9	2.7
Greensboro-Winston-Salem-High Point	517.7	528.0	521.2	18.9	13.7	13.7	3.7	2.6	2.6
Raleigh-Durham	400.5	410.9	408.1	12.0	9.2	8.9	3.0	2.2	2.2
North Dakota	333.0	339.1	337.3	13.2	14.0	14.5	4.0	4.1	4.3
Bismarck	45.4	46.0	46.2	1.6	2.0	2.0	3.5	4.3	4.3
Fargo-Moorhead	83.4	86.7	86.3	2.6	2.4	2.4	3.1	2.7	2.8
Grand Forks	36.0	36.8	36.5	1.5	1.4	1.8	4.2	3.7	4.9
Ohio¹	5,288.7	5,336.0	5,343.1	364.8	271.9	298.9	6.9	5.1	5.6
Akron	319.7	321.5	321.6	23.2	15.4	17.8	7.2	4.8	5.5
Canton	190.9	191.7	192.4	14.9	10.1	11.6	7.8	5.3	6.0
Cincinnati	749.6	765.7	766.1	39.5	36.8	38.0	5.3	4.8	5.0
Cleveland	938.8	947.1	945.6	59.5	44.5	48.4	6.3	4.7	5.1
Columbus	696.0	713.2	715.8	36.8	30.4	32.2	5.3	4.3	4.5
Dayton-Springfield	463.0	466.3	467.6	26.9	20.7	23.7	5.8	4.4	5.1
Toledo	308.3	314.1	313.7	22.3	15.8	16.9	7.2	5.0	5.4
Youngstown-Warren	225.2	221.3	223.2	27.4	14.2	15.4	12.1	6.4	6.9
Oklahoma	1,551.5	1,517.6	1,500.8	104.3	95.6	97.1	6.7	6.3	6.5
Enid	30.2	29.4	29.0	1.8	1.4	1.5	6.1	4.9	5.2
Lawton	49.1	50.0	48.8	2.4	2.7	2.7	4.9	5.5	5.6
Oklahoma City	506.0	501.6	490.9	29.0	26.2	26.5	5.7	5.2	5.4
Tulsa	347.7	344.9	338.6	26.4	23.1	23.4	7.6	6.7	6.9
Oregon	1,399.2	1,434.2	1,429.4	71.2	79.4	76.5	5.1	5.5	5.4
Eugene-Springfield	134.5	139.4	139.1	6.3	7.3	7.3	4.7	5.3	5.2
Portland	630.2	651.6	648.1	29.8	31.1	29.6	4.7	4.8	4.6
Salem	132.9	135.7	136.3	6.2	7.3	6.3	4.7	5.4	4.6
Pennsylvania¹	5,836.9	5,882.1	5,928.2	303.1	314.6	248.6	5.2	5.3	4.2
Allentown-Bethlehem	328.1	328.2	330.8	14.1	16.0	11.7	4.3	4.9	3.5
Altoona	61.7	62.1	62.6	3.7	4.4	3.3	5.9	7.2	5.3
Beaver County	63.4	64.6	64.4	6.0	5.8	4.7	9.5	9.0	7.3
Erie	131.3	131.3	131.8	8.7	8.4	6.3	6.6	6.4	4.8
Harrisburg-Lebanon-Carlisle	325.3	328.5	332.0	12.1	13.8	11.1	3.7	4.2	3.3
Johnstown	97.0	97.0	97.9	7.1	7.2	6.4	7.3	7.5	6.6
Lancaster	220.4	224.6	226.4	7.5	8.9	6.0	3.4	4.0	2.7
Philadelphia	2,452.3	2,465.9	2,484.1	106.1	109.3	92.6	4.3	4.4	3.7
Pittsburgh	969.2	976.9	976.3	61.7	57.4	46.5	6.4	5.9	4.8
Reading	173.5	178.0	181.2	7.3	7.9	5.8	4.2	4.5	3.2
Scranton-Wilkes-Barre	358.3	365.0	364.9	22.3	25.4	17.4	6.2	6.9	4.8
Williamsport	60.6	62.5	63.2	2.6	3.1	2.4	4.2	5.0	3.8
York	216.8	219.3	222.6	9.2	9.6	8.1	4.2	4.4	3.6
Rhode Island	522.5	519.3	523.4	19.6	17.1	14.4	3.8	3.3	2.7
Pawtucket-Woonsocket-Attleboro	169.2	167.7	168.8	7.0	7.2	6.1	4.1	4.3	3.6
Providence	337.2	336.4	338.9	12.6	10.7	9.0	3.7	3.2	2.6
South Carolina	1,635.2	1,665.0	1,667.0	87.8	78.7	80.0	5.4	4.7	4.8
Charleston	221.9	231.3	231.1	10.3	9.6	9.4	4.7	4.1	4.1
Columbia	229.2	236.8	236.4	8.9	8.0	7.6	3.9	3.4	3.2
Greenville-Spartanburg	320.5	327.3	329.3	14.0	12.3	11.3	4.4	3.7	3.4
South Dakota	360.8	369.9	364.0	12.3	13.7	14.3	3.4	3.7	3.9
Rapid City	40.5	42.1	41.2	1.5	1.5	1.5	3.6	3.6	3.6
Sioux Falls	72.4	73.3	72.4	2.0	2.3	2.5	2.7	3.2	3.5

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p	Aug. 1987	July 1988	Aug. 1988 ^p
Tennessee	2,338.7	2,343.3	2,314.1	143.8	144.3	133.2	6.1	6.2	5.8
Chattanooga	205.5	210.7	211.0	11.2	11.9	11.9	5.5	5.6	5.6
Johnson City-Kingsport-Bristol	213.2	220.0	216.8	13.7	13.6	11.8	6.4	6.2	5.5
Knoxville	284.1	280.1	278.5	15.9	14.4	13.6	5.6	5.1	4.9
Memphis LMA	446.4	446.4	444.6	23.9	22.5	22.2	5.4	5.1	5.0
Nashville LMA	520.3	507.9	498.5	22.3	24.6	23.4	4.3	4.8	4.7
Texas¹	8,440.1	8,492.0	8,469.3	697.7	562.2	567.9	8.3	6.6	6.7
Abilene	54.4	54.9	54.7	4.4	3.1	3.1	8.2	5.6	5.6
Amarillo	103.4	103.8	103.0	6.7	5.5	5.6	6.5	5.3	5.4
Austin	429.9	428.3	426.7	29.0	24.4	24.7	6.8	5.7	5.8
Beaumont-Port Arthur	165.1	163.4	162.8	20.1	15.4	15.5	12.2	9.4	9.5
Brazoria	82.9	84.0	83.9	8.0	6.2	6.2	9.7	7.4	7.4
Brownsville-Harlingen	99.4	99.9	100.1	13.4	12.0	12.5	13.4	12.0	12.5
Bryan-College Station	56.5	57.4	57.4	3.2	2.5	2.4	5.7	4.3	4.2
Corpus Christi	163.0	163.4	162.9	18.6	14.3	13.8	11.4	8.8	8.5
Dallas	1,487.1	1,501.9	1,496.3	95.2	79.6	80.7	6.4	5.3	5.4
El Paso	238.2	241.7	241.8	25.0	23.5	24.3	10.5	9.7	10.0
Fort Worth-Arlington	698.7	697.1	695.5	49.3	40.1	40.5	7.1	5.8	5.8
Galveston-Texas City	113.9	112.6	112.2	12.2	9.1	9.1	10.7	8.0	8.1
Houston	1,647.0	1,659.4	1,654.7	144.8	104.4	103.2	8.8	6.3	6.2
Killeen-Temple	95.6	98.5	98.5	7.6	6.9	7.2	8.0	7.0	7.3
Laredo	45.6	47.1	46.8	6.4	5.3	5.2	14.0	11.3	11.1
Longview-Marshall	81.3	81.5	80.9	8.5	6.4	6.3	10.5	7.8	7.7
Lubbock	114.3	117.4	117.5	7.2	5.9	6.0	6.3	5.0	5.1
McAllen-Edinburg-Mission	142.0	143.4	145.6	25.5	21.5	23.2	18.0	15.0	15.9
Midland	51.2	50.9	50.6	4.3	2.7	2.6	8.4	5.3	5.2
Odessa	54.1	55.0	54.6	5.4	3.7	3.8	10.1	6.8	7.0
San Angelo	46.0	46.5	46.4	2.8	2.6	2.7	6.1	5.5	5.8
San Antonio	621.6	637.9	637.4	49.3	46.7	47.2	7.9	7.3	7.4
Sherman-Denison	50.2	51.2	51.2	3.8	2.9	3.0	7.5	5.7	5.8
Texarkana	58.7	59.2	59.1	4.6	4.5	4.6	7.8	7.7	7.7
Tyler	79.3	78.3	78.1	6.9	5.3	5.5	8.6	6.7	7.1
Victoria	38.0	37.4	37.5	3.2	2.3	2.4	8.6	6.2	6.4
Waco	93.5	94.7	93.9	7.6	6.1	6.1	8.1	6.5	6.5
Wichita Falls	58.7	59.7	59.2	4.4	3.2	3.2	7.4	5.3	5.4
Utah	755.5	743.0	746.2	44.8	34.2	32.3	5.9	4.6	4.3
Provo-Orem	98.7	96.5	97.9	6.6	3.8	3.7	6.6	4.0	3.8
Salt Lake City-Ogden	497.8	491.2	492.5	26.8	21.4	20.6	5.4	4.4	4.2
Vermont	304.0	300.0	303.1	8.5	6.9	5.3	2.8	2.3	1.7
Burlington	75.5	77.8	78.6	1.8	1.4	1.2	2.3	1.8	1.6
Virginia	2,991.7	3,167.3	3,141.1	116.3	116.4	114.2	3.9	3.7	3.6
Charlottesville	63.7	68.5	67.9	1.7	2.0	2.0	2.7	2.9	2.9
Danville	49.9	52.5	52.1	3.1	3.2	3.2	6.2	6.1	6.1
Lynchburg	70.0	72.4	71.4	3.2	3.3	2.9	4.5	4.5	4.1
Norfolk-Virginia Beach-Newport News	599.7	639.2	633.1	26.4	26.6	27.2	4.4	4.2	4.3
Richmond-Petersburg	428.1	457.2	453.3	14.5	14.7	14.3	3.4	3.2	3.2
Roanoke	120.4	121.9	120.3	5.4	4.5	4.6	4.5	3.7	3.8
Washington	2,270.3	2,322.4	2,295.9	152.8	143.8	134.3	6.7	6.2	5.8
Seattle	999.5	1,041.9	1,030.7	56.9	52.0	47.4	5.7	5.0	4.6
West Virginia	740.5	740.6	734.1	69.6	66.8	64.1	9.4	9.0	8.7
Charleston	116.9	115.5	115.4	10.0	8.5	9.1	8.6	7.3	7.9
Huntington-Ashland	125.7	125.4	124.3	11.5	9.8	9.5	9.2	7.8	7.6
Parkersburg-Marietta	71.9	71.5	70.8	5.7	4.3	4.6	8.0	6.0	6.5
Wheeling	71.7	70.7	70.6	5.8	4.5	4.7	8.1	6.3	6.7
Wisconsin	2,504.5	2,589.0	2,585.4	129.2	108.7	94.8	5.2	4.2	3.7
Appleton-Oshkosh-Neenah	165.3	172.6	173.7	7.5	6.0	5.3	4.5	3.5	3.0
Eau Claire	69.0	74.1	73.5	3.5	2.7	2.5	5.1	3.7	3.4
Green Bay	106.1	109.9	111.0	5.1	4.0	3.7	4.8	3.6	3.3
Janesville-Beloit	71.9	73.5	73.2	6.9	3.6	3.0	9.6	5.0	4.0
Kenosha	53.2	56.5	53.6	4.6	4.4	3.8	8.7	7.8	7.1
La Crosse	52.0	56.8	56.4	2.0	2.4	1.9	3.9	4.3	3.4
Madison	213.8	222.3	223.6	7.1	5.4	5.0	3.3	2.4	2.2
Milwaukee	740.0	769.1	768.4	35.9	31.0	26.9	4.9	4.0	3.5
Racine	86.6	90.2	89.7	6.2	4.8	3.9	7.2	5.3	4.4
Wausau	59.1	61.1	62.1	2.9	2.4	2.2	4.9	4.0	3.5
Wyoming	242.3	237.3	236.0	16.3	11.2	10.9	6.7	4.7	4.6

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 1967 have been

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

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of over about 55,800 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of over 300,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who received pay during the payroll period which includes the 12th day of the month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

Employment

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

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

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

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

Hours of work

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

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

Earnings

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

COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

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

COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household Data (A tables)

COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey: A Databook*, BLS Bulletin 2096.

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

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

Each month about 55,800 occupied units are eligible for interview. About 2,600 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 55,800 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

CONCEPTS AND DEFINITIONS

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

Employed persons are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family; and (b) all those who

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

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

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

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

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

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

Jobseekers are all unemployed persons who made

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HISTORICAL COMPARABILITY

Change in lower age limit

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

Report on the Labor Force, February 1967.

Noncomparability of labor force levels

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

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

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

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor

force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

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

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

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

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

Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first and second-stage ratio adjustments, and the composite

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

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

Changes in the occupational and industrial classification system

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

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

The 1980 census occupational classification system evolved

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

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

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

Changes in the sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mo-

mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of *Employment and Earnings*, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988.

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

ESTIMATING METHODS

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to present	729	53,200	2,600	11,500

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 using the two most recent July 1 estimates, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 957 of that series. A description of the age estimates methodology is available in Report 1010 of that series.

Prior to January 1985, there was no separate control for Hispanics in the second-stage ratio procedure. These Hispanic controls are prepared by carrying forward the 1980 census count for Hispanics by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths

and emigrants to yield an estimate of the Hispanic population by age and sex.

During the period from January 1982 to December 1984, the "inflation-deflation" method was temporarily discontinued in the preparation of the independent national controls used for the age-sex-race groups in the third step of the second-stage ratio estimation procedure. These controls were prepared by carrying forward the 1980 census data after taking account of subsequent aging of the population, births, deaths, and net migration and then subtracting the estimate for the institutional population and Armed Forces. Beginning in January 1985, the "inflation-deflation" method of deriving independent population controls was reintroduced into the CPS estimation procedure. With the "inflation-deflation" method, the independent controls are prepared by inflating the 1980 census counts to include estimated undercounts by age, sex and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then deflated to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. Because an estimate of undercount is first added and then subtracted, the size of each race-sex group is unaffected by the "inflation-deflation" method. Similarly, the final estimate is affected only by the age structure of the undercount, but not the level. This feature of the method is important since the exact amount of undercount in the 1980 census remains unknown.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls. For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreign-born residents has been incorporated into the postcensal population estimates since 1980. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of *Employment and Earnings*.

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent), as well as the sample results for the current month. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level are also improved, but to a lesser extent.

Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. Differences, however, are insignificant.

Reliability of the estimates

There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. The standard errors provided primarily indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration but do not measure any systematic biases in the data.

Nonsampling error. The full extent of nonsampling error is unknown, but special studies have been conducted to quantify some sources of nonsampling error in the CPS, as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-to-month change. Estimates of monthly levels would be more severely affected by the nonsampling error.

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all sample households and all persons within sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program*,

January 1961 Through December 1966, Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates varies by rotation group. A description of these effects appears in "The Effects of Rotation Group Bias on Estimates From Panel Surveys," by Barbara A. Bailar, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-Hispanic origin population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race-Hispanic origin group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Additional information on nonsampling error in the CPS appears in "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive discussion of various sources of error and describes attempts to measure them in the CPS.

Sampling error. The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated standard error enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.

2. Approximately 90 percent of the intervals from 1.6

standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.

3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations are required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors are computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

Tables B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the table may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between 2 consecutive months. Estimates of change for non-consecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956-66 period they should be multiplied by 1.22. Table K provides generalized standard

Table B. Standard errors for major employment status categories

(in thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force	275	212
Employed	293	224
Unemployed	136	140
Men, 20 years and over:		
Civilian labor force	173	151
Employed	186	163
Unemployed	93	95
Women, 20 years and over:		
Civilian labor force	211	155
Employed	212	160
Unemployed	83	87
Both sexes, 16 to 19 years:		
Civilian labor force	88	94
Employed	92	102
Unemployed	59	66
Black, 16 years and over:		
Civilian labor force	94	73
Employed	104	79
Unemployed	68	71
Men, 20 years and over:		
Civilian labor force	59	51
Employed	64	57
Unemployed	44	47
Women, 20 years and over:		
Civilian labor force	76	50
Employed	76	54
Unemployed	45	48
Both sexes, 16 to 19 years:		
Civilian labor force	36	40
Employed	33	38
Unemployed	30	33

errors for quarterly estimates of persons and families for use with the CPS earnings data.

Standard errors for estimated totals. Tables D and E provide generalized standard errors for monthly totals and for month-to-month change. The figures given in these tables are to be used for the characteristics as indicated.

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 129,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more

Table C. Standard errors for unemployment rates by major characteristics

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

reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First, obtain the standard error from table H for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

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

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus, to obtain the standard error of an estimate of an average level, rate, or percentage, or an estimate of a change in level, rate, or percentage, it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate, or percentage, find the standard error of this estimate. For an estimate of change in level, rate, or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table J to obtain the approximate standard error for the average or change.

Illustration. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that

Table D. Standard errors for estimates of monthly level

(in thousands)

Estimated monthly level	Characteristic 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	15	11	12	12	12	12	12	11	10
100	21	16	17	17	17	17	16	15	14
500	47	36	38	37	37	36	32	34	31
1,000	66	51	53	52	51	50	35	49	43
2,000	93	72	73	74	70	68	-	68	58
4,000	131	101	97	104	92	86	-	95	73
6,000	159	123	110	126	104	92	-	115	76
8,000	182	141	116	145	109	88	-	132	69
10,000	202	156	-	161	108	72	-	145	47
15,000	-	188	-	193	74	-	-	172	-
20,000	-	213	-	219	-	-	-	191	-
30,000	-	-	-	259	-	-	-	215	-
40,000	-	-	-	286	-	-	-	225	-
50,000	-	-	-	306	-	-	-	222	-
60,000	-	-	-	319	-	-	-	206	-
70,000	-	-	-	326	-	-	-	172	-
80,000	-	-	-	327	-	-	-	107	-
100,000	-	-	-	314	-	-	-	-	-
120,000	-	-	-	274	-	-	-	-	-
140,000	-	-	-	195	-	-	-	-	-

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	13	14	13	14	9	9	14	14
100	18	20	19	20	12	12	20	19
500	40	45	41	38	27	27	43	37
1,000	56	63	57	41	39	38	59	39
2,000	78	89	76		55	52	80	-
4,000	108	124	95		77	68	100	
6,000	129	150	99		93	78	104	
8,000	144	-	89		107	82	94	
10,000	157		58		119	81	65	
15,000	177		-		143	59	-	
20,000	184				163	-		
30,000	-				192			
40,000					213			
50,000					228			
60,000					238			
70,000					244			
80,000					245			
100,000					237			
120,000					212			
140,000					160			

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

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

Standard error of year-to-year change =

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

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

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

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

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

or about 259,000.

Table F. Standard errors for unemployment rates

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

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

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

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

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

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

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

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

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

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

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

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men			Women		
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10	5	5	5	5	5	5	5	5	5
50	11	12	12	11	12	12	12	11	11
75	13	15	15	13	15	15	15	13	13
100	15	17	17	15	17	17	17	15	15
150	19	21	21	19	21	21	21	19	19
200	22	24	24	22	24	24	24	22	21
250	24	27	27	24	27	27	27	24	24
300	26	30	30	26	30	30	29	26	26
500	34	38	38	34	38	38	37	34	33
750	42	47	46	42	47	47	45	42	41
1,000	48	54	53	48	54	54	50	48	46
1,500	59	66	63	59	66	66	59	59	56
2,000	68	76	72	68	76	76	65	68	63
2,500	76	85	79	75	84	84	69	75	69
3,000	83	93	85	82	92	92	71	82	74
5,000	107	119	100	105	117	116	64	105	85
7,500	130	145	107	127	140	138	64	127	88
10,000	149	165	102	144	157	155	-	145	-
15,000	180	198	102	187	183	179	-	173	-
20,000	205	224	-	192	199	193	-	195	-
25,000	226	244	-	207	209	199	-	211	-
30,000	224	261	-	219	212	198	-	224	-
40,000	273	286	-	233	201	174	-	242	-
50,000	296	301	-	-	160	100	-	249	-
75,000	331	304	-	-	160	-	-	-	-
100,000	343	255	-	-	-	-	-	-	-

Establishment Data (Tables B-1 through C-8)

COLLECTION

Payroll reports provide current information on wage and salary employment and hours and earnings in nonagricultural establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, 1909-84*, and *Employment, Hours, and Earnings, States and Areas, 1939-82* and their supplements.

Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data to State agencies. State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the reported data to prepare State and area series and also send the reported data to the BLS (Washington Office) for use in preparing the national series. This avoids a duplicate reporting burden on establishments, and, together with the use of similar estimating techniques at the national and State levels, promotes increased comparability between estimates.

Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the

industry indicated by the principal product or activity.

All data on employment, hours, and earnings for the Nation and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual (SICM)*, Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence Agency and the National Security Agency also are excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

Indexes of diffusion of 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 1974 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. These series are compiled only for aircraft

(SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 and SIC 3761 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

Average hourly earnings excluding overtime. Average hourly earnings, excluding overtime premium pay, are computed by dividing the total production worker payroll for the industry group by the sum of total production worker hours and one-half of total overtime hours. No adjustments are made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Railroad hours and earnings. The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Average weekly earnings. These estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as the proportion of part-time workers, stoppages for varying reasons, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

Long-time trends of average weekly earnings can be affected by structural changes in the makeup of the work force. For example, persistent long-term increases in the proportion of part-time workers in retail trade and many of the services industries have reduced average workweeks in these industries and have affected the average weekly earnings series.

Real earnings, or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the establishment statistics are (1) the use of the "link relative" technique, which is a form of ratio estimation; (2) periodic adjustment of employment levels to new benchmarks; and (3) the use of size and regional stratification.

The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current-month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these link relatives. In addition, bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

Size and regional stratification

A number of industries are stratified by size of 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 1987 levels. Normally, benchmark adjustments are made annually.

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

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 1987 benchmark adjustment is shown in table M.

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

THE SAMPLE

Design

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

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1987

Industry	Benchmark	Estimate	Percent difference
Total	100,427	100,462	(1)
Mining	696	718	-3.2
Construction	4,531	4,599	-1.5
Manufacturing	18,810	18,897	-5
Transportation and public utilities	5,274	5,275	(1)
Wholesale trade	5,763	5,725	.7
Retail trade	17,902	17,737	.9
Finance, insurance, and real estate	6,443	6,478	-5
Services	23,754	23,723	.1
Government	17,254	17,310	-3

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 1987¹

Industry	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	246,256	37,530,000	37
Mining	3,434	265,000	38
Construction	22,567	808,000	18
Manufacturing	49,214	9,522,000	51
Transportation and public utilities	11,820	2,377,000	45
Wholesale trade	21,802	956,000	17
Retail trade	44,982	3,509,000	20
Finance, insurance, and real estate	17,699	2,140,000	33
Services	54,782	5,495,000	23
Government:			
Federal	(²)	2,916,000	100
State	4,795	3,298,000	81
Local	15,161	6,244,000	61

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

² Total Federal employment counts for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,600 reports covering about 55 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 . . . . .	.2	0.1	0.2
Mining	2.9	1.0	1.3
Construction	1.4	.2	.5
Manufacturing . . . . .	.8	.1	.2
Durable goods . . . . .	.9	.1	.3
Nondurable goods . . . . .	.8	.1	.2
Transportation and public utilities . . . . .	.3	.7	.6
Wholesale trade . . . . .	.8	.2	.4
Retail trade . . . . .	.9	.2	.4
Finance, insurance, and real estate . . . . .	.3	.2	.4
Services . . . . .	.2	.4	.6
Government ³ . . . . .	.5	—	—

¹ The average percent revision in employment for the 1983-87 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:

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

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

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

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of 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	89,600	89,100	Nondurable goods—Continued		
Total private	62,700	60,000	Chemicals and allied products	2,700	2,900
Goods-producing industries	22,400	20,800	Petroleum and coal products	1,200	1,100
Mining	4,700	4,400	Rubber and misc. plastics	1,600	1,700
Oil and gas extraction	4,000	3,400	Leather and leather products	1,800	1,700
Construction	14,800	15,700	Service-producing industries	86,300	85,700
General building contractors	5,000	5,200	Transportation and public utilities	15,500	13,900
Manufacturing	19,200	19,300	Transportation	17,800	17,300
Durable goods	14,400	12,700	Communication and public utilities	6,800	6,400
Lumber and wood products	2,300	2,100	Wholesale trade	9,400	8,200
Furniture and fixtures	1,700	1,700	Durable goods	6,100	5,500
Stone, clay, and glass products	1,600	1,600	Nondurable goods	5,400	4,600
Primary metal industries	4,700	4,700	Retail trade	40,700	36,100
Blast furnaces and basic steel products	3,600	3,400	General merchandise stores	23,900	21,400
Fabricated metal products	2,500	2,300	Food stores	6,900	6,200
Machinery, except electrical	6,000	7,300	Automotive dealers and service stations	3,300	3,200
Electrical and electronic equipment	5,100	5,100	Eating and drinking places	10,900	10,300
Transportation equipment	8,100	7,400	Finance, insurance, and real estate	8,400	7,500
Motor vehicles and equipment	7,000	7,000	Finance	4,000	3,900
Instruments and related products	2,000	2,200	Insurance	3,800	3,100
Miscellaneous manufacturing	1,900	1,800	Real estate	4,800	3,800
Nondurable goods	8,900	8,500	Services	34,700	31,700
Food and kindred products	5,600	5,700	Business services	11,000	10,500
Tobacco manufactures	1,600	1,500	Health services	10,300	10,100
Textile mill products	1,800	1,700	Government	62,800	54,500
Apparel and other textile products	4,700	4,100	Federal	16,900	11,700
Paper and allied products	1,600	1,400	State	22,600	20,600
Printing and publishing	2,200	2,100	Local	34,900	32,400

NOTE: Data are based on differences from December 1982 through December 1987.

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 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.

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 1988 and projected data through March 1989. 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 1988. Seasonal adjustment factors to be used for current adjustment appear in the June 1988 issue of *Employment and Earnings*.

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