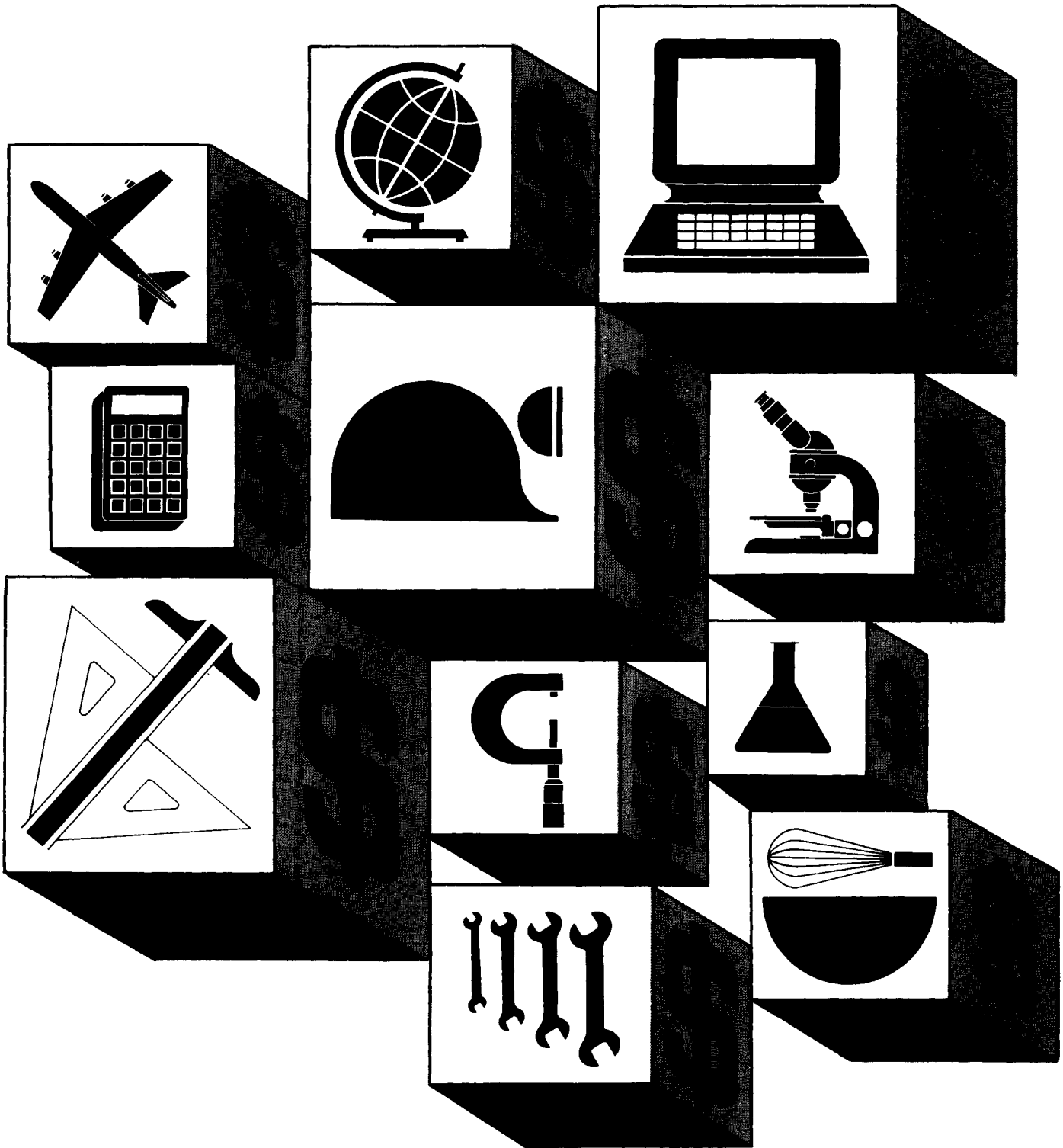




EMPLOYMENT AND EARNINGS

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





U.S. DEPARTMENT OF LABOR
Elizabeth Dole, Secretary

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

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

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Calendar of Features

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

Household data

Annual averages	Jan.
Union affiliation	Jan.

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

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

Annual averages	May
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¹ The latest supplement was published in August 1989

Employment and Earnings

Vol. 36 No. 10 October 1989

Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, September 1989

Payroll employment showed little growth and unemployment was about unchanged in September. The overall jobless rate was 5.2 percent and the civilian worker rate was 5.3 percent; they had been 5.1 and 5.2 percent, respectively, in August.

Nonagricultural payroll employment, as measured by the survey of business establishments, rose by 210,000 in September to 109.1 million, but about 75,000 of the increase represented a return to work of persons who had been on strike. Total civilian employment, as measured by the survey of households, was about unchanged over the month.

Unemployment

The number of persons unemployed, 6.6 million, and the civilian worker unemployment rate, 5.3 percent, were essentially unchanged in September. Both measures have shown little movement since the spring. Jobless rates were about unchanged over the month for teenagers (15.1 percent), whites (4.5 percent), Hispanics (8.3 percent), and blacks (11.6 percent), although the rate for black teenagers rose to 37.3 percent. While the unemployment rate for adult men increased 0.4 percentage point to 4.8 percent, the rate for adult women edged down to 4.5 percent. (See tables A-33 and A-34.)

Civilian employment and the labor force

Total civilian employment was virtually unchanged in September at a seasonally adjusted level of 117.5 million. At 62.9 percent, the employment-population ratio (the proportion of the working-age population that was employed) remained close to the level that has held throughout 1989. (See table A-33.)

The civilian labor force (124.0 million) and the labor force participation rate (66.4 percent) were also about the same as in the previous month, after seasonal adjustment. The labor force has increased by 2.0 million over the past 12 months. (See table A-33.)

Discouraged workers

At a seasonally adjusted level of 815,000 in the July-September period, the number of discouraged workers—persons who want to work but have not looked for jobs because they believe they cannot find any—was about unchanged from the second quarter. Over the past year, the number of discouraged workers has declined by about 115,000. (See table A-53.)

Industry payroll employment

Total nonagricultural payroll employment increased by 210,000 in September to 109.1 million, seasonally adjusted. This increase would have been much smaller if not for the return to payrolls of about 75,000 workers involved in strikes in August. The diffusion index of 349 industries fell below 50 percent, indicating that more industries lost than gained jobs in September. (See tables B-4 and B-7.)

In the goods-producing sector, factory employment fell by 105,000. Whereas the bulk of the decrease occurred in the durable goods sector, it was very widespread, with 16 of the 20 individual manufacturing industries showing employment reductions. The largest occurred in the auto industry—35,000. Employment in the electrical equipment industry fell by 10,000 over the month and has declined by 55,000 since last November. In primary metals, where employment had changed little since late last year, the number of workers fell by 10,000 in September. Fabricated metal products has had small job losses for 7 consecutive months. Employment in apparel and other textile products fell by 10,000 over the month, returning to last October's employment level. The mining industry also showed a small job loss, while construction employment was unchanged for the second consecutive month.

In the service-producing sector, employment in transportation and public utilities increased by 90,000 over the month, primarily reflecting the return to work of telephone workers from strikes. Services industry

employment rose by 105,000, as both business and health services showed strong job gains of 45,000. Government employment was also a strong gainer, with an increase of 95,000 over the month; most of this occurred in local education. Finance, insurance, and real estate employment grew by 10,000 in September. Wholesale trade showed a small job gain, while employment in retail trade was little changed; job growth in these two industries has been quite slow for most of this year.

Despite the slower growth in recent months, total payroll employment in September was nearly 2.9 million above its year-ago level. Virtually all of this gain—2.6 million—took place in the service-producing sector.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls was unchanged in September at 34.6 hours, seasonally adjusted. The manufacturing workweek and factory overtime both edged

up 0.1 hour to 41.0 and 3.8 hours, respectively, offsetting small decreases in the previous month. (See table C-5.)

The index of aggregate weekly hours of private production or nonsupervisory workers rose 0.2 percent in September to 128.6 (1977=100), after seasonal adjustment. This follows a decrease of 0.6 percent in the previous month. The manufacturing index fell 0.7 percent to 95.6. (See table C-6.)

Hourly and weekly earnings

Both average hourly and average weekly earnings of private production or nonsupervisory workers increased 0.5 percent in September, after seasonal adjustment. Prior to seasonal adjustment, average hourly earnings rose 16 cents to \$9.76 and average weekly earnings increased \$3.63 to \$338.67, as many youths earning comparatively low wages left summer jobs and returned to school. Over the year, average hourly earnings increased by 3.8 percent, while average weekly earnings rose 3.5 percent. (See tables C-1 and C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
October	November 3	January	February 2
November	December 8	February	March 9
December	January 5	March	April 6

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1955 to date

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force								Not in labor force	
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number		Percent of labor force
						Total	Agriculture	Nonagricultural industries			
Annual averages											
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 ²	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
1988	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
Monthly data, seasonally adjusted²											
1988:											
September	186,666	123,688	66.3	117,074	1,704	115,370	3,176	112,194	6,614	5.3	62,978
October	186,801	123,778	66.3	117,260	1,687	115,573	3,238	112,335	6,518	5.3	63,023
November	186,949	124,215	66.4	117,652	1,705	115,947	3,238	112,709	6,563	5.3	62,734
December	187,098	124,259	66.4	117,705	1,696	116,009	3,193	112,816	6,554	5.3	62,839
1989:											
January	187,340	125,124	66.8	118,407	1,696	116,711	3,300	113,411	6,716	5.4	62,216
February	187,461	124,865	66.6	118,537	1,684	116,853	3,223	113,630	6,328	5.1	62,596
March	187,581	124,948	66.6	118,820	1,684	117,136	3,206	113,930	6,128	4.9	62,633
April	187,708	125,343	66.8	118,797	1,684	117,113	3,104	114,009	6,546	5.2	62,365
May	187,854	125,283	66.7	118,888	1,673	117,215	3,112	114,102	6,395	5.1	62,571
June	187,995	125,768	66.9	119,207	1,666	117,541	3,096	114,445	6,561	5.2	62,228
July	188,149	125,622	66.8	119,125	1,666	117,459	3,219	114,240	6,497	5.2	62,527
August	188,286	125,706	66.8	119,285	1,688	117,597	3,307	114,290	6,421	5.1	62,580
September	188,428	125,742	66.7	119,158	1,702	117,456	3,257	114,199	6,584	5.2	62,666

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, 1978 to date

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force	
						Total	Agriculture	Nonagricultural industries			
Annual averages											
MEN											
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
1988	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930
Monthly data, seasonally adjusted²											
1988:											
September	89,577	68,604	76.6	65,015	1,540	63,475	2,488	60,987	3,589	5.2	20,973
October	89,637	68,569	76.5	64,976	1,526	63,450	2,544	60,906	3,593	5.2	21,068
November	89,716	68,686	76.6	65,074	1,542	63,532	2,533	60,999	3,612	5.3	21,030
December	89,792	68,638	76.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,154
1989:											
January	89,914	69,032	76.8	65,322	1,532	63,790	2,501	61,289	3,710	5.4	20,882
February	89,973	69,113	76.8	65,572	1,521	64,051	2,509	61,542	3,540	5.1	20,860
March	90,032	69,190	76.9	65,920	1,521	64,399	2,497	61,902	3,270	4.7	20,842
April	90,094	69,360	77.0	65,767	1,521	64,246	2,440	61,806	3,593	5.2	20,734
May	90,167	69,114	76.7	65,713	1,511	64,202	2,447	61,755	3,401	4.9	21,053
June	90,237	69,507	77.0	66,110	1,501	64,609	2,455	62,154	3,397	4.9	20,730
July	90,315	69,245	76.7	65,961	1,499	64,462	2,552	61,909	3,284	4.7	21,070
August	90,384	69,337	76.7	65,934	1,519	64,415	2,622	61,792	3,403	4.9	21,047
September	90,456	69,272	76.6	65,601	1,531	64,070	2,519	61,551	3,672	5.3	21,184
Annual averages											
WOMEN											
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
1988	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014
Monthly data, seasonally adjusted²											
1988:											
September	97,089	55,084	56.7	52,059	164	51,895	688	51,207	3,025	5.5	42,005
October	97,164	55,209	56.8	52,284	161	52,123	694	51,429	2,925	5.3	41,955
November	97,234	55,529	57.1	52,578	163	52,415	705	51,710	2,951	5.3	41,705
December	97,306	55,621	57.2	52,650	162	52,488	716	51,772	2,971	5.3	41,685
1989:											
January	97,427	56,091	57.6	53,085	164	52,921	799	52,122	3,006	5.4	41,336
February	97,488	55,752	57.2	52,965	163	52,802	713	52,089	2,787	5.0	41,736
March	97,550	55,758	57.2	52,900	163	52,737	709	52,028	2,858	5.1	41,792
April	97,614	55,983	57.4	53,029	163	52,866	663	52,203	2,953	5.3	41,631
May	97,687	56,169	57.5	53,175	162	53,013	666	52,347	2,994	5.3	41,518
June	97,758	56,261	57.6	53,097	165	52,932	641	52,290	3,164	5.6	41,497
July	97,834	56,377	57.6	53,164	167	52,997	666	52,331	3,213	5.7	41,457
August	97,902	56,370	57.6	53,352	169	53,183	685	52,498	3,018	5.4	41,532
September	97,972	56,470	57.6	53,557	171	53,386	738	52,648	2,912	5.2	41,502

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, 1955 to date

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
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
1988	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
Monthly data, seasonally adjusted ²								
1988:								
September	184,962	121,984	66.0	115,370	6,614	5.4	5.4	5.5
October	185,114	122,091	66.0	115,573	6,518	5.3	5.4	5.3
November	185,244	122,510	66.1	115,947	6,563	5.4	5.4	5.3
December	185,402	122,563	66.1	116,009	6,554	5.3	5.3	5.4
1989:								
January	185,644	123,428	66.5	116,711	6,716	5.4	5.5	5.4
February	185,777	123,181	66.3	116,853	6,328	5.1	5.2	5.0
March	185,897	123,264	66.3	117,136	6,128	5.0	4.8	5.1
April	186,024	123,659	66.5	117,113	6,546	5.3	5.3	5.3
May	186,181	123,610	66.4	117,215	6,395	5.2	5.0	5.3
June	186,329	124,102	66.6	117,541	6,561	5.3	5.0	5.6
July	186,483	123,956	66.5	117,459	6,497	5.2	4.8	5.7
August	186,598	124,018	66.5	117,597	6,421	5.2	5.0	5.4
September	186,726	124,040	66.4	117,456	6,584	5.3	5.4	5.2

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 1989										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
TOTAL											
16 years and over	186,726	123,828	66.3	117,498	6,330	5.1	62,899	26,121	8,561	3,488	24,728
16 to 19 years	14,166	7,498	52.9	6,345	1,153	15.4	6,668	397	5,690	36	544
16 to 17 years	6,909	2,871	42.2	2,412	459	16.0	3,938	97	3,638	7	197
18 to 19 years	7,357	4,627	62.9	3,933	694	15.0	2,729	301	2,052	29	348
20 to 24 years	17,912	13,918	77.7	12,748	1,172	8.4	3,994	1,451	1,786	74	883
25 to 54 years	103,983	87,078	83.7	83,511	3,566	4.1	16,905	11,426	1,046	1,356	3,077
25 to 34 years	42,880	36,238	84.6	34,399	1,839	5.1	6,622	4,623	675	284	1,039
25 to 29 years	21,116	17,820	84.4	18,807	1,014	5.7	3,296	2,200	447	125	523
30 to 34 years	21,743	18,418	84.7	17,592	825	4.5	3,326	2,423	228	158	516
35 to 44 years	36,245	30,820	85.0	29,644	1,176	3.8	5,425	3,691	293	497	943
35 to 39 years	19,439	16,405	84.4	15,720	684	4.2	3,035	2,084	185	246	519
40 to 44 years	16,806	14,415	85.8	13,923	492	3.4	2,390	1,607	108	251	424
45 to 54 years	24,878	20,020	80.5	19,469	551	2.8	4,858	3,111	78	574	1,095
45 to 49 years	13,511	11,297	83.6	10,985	311	2.8	2,215	1,453	49	242	471
50 to 54 years	11,367	8,723	76.7	8,483	240	2.7	2,644	1,659	29	333	624
55 to 64 years	21,414	11,923	55.7	11,568	355	3.0	9,491	4,386	18	794	4,293
55 to 59 years	10,852	7,104	66.7	6,882	222	3.1	3,548	1,938	9	382	1,218
60 to 64 years	10,763	4,819	44.8	4,686	134	2.8	5,943	2,448	8	412	3,075
65 years and over	29,252	3,410	11.7	3,328	82	2.4	25,842	8,461	22	1,229	16,131
65 to 69 years	10,051	2,030	20.2	1,979	51	2.5	8,021	2,762	9	288	4,962
70 to 74 years	7,799	892	11.4	867	24	2.7	6,907	2,304	2	222	4,380
75 years and over	11,402	488	4.3	481	7	1.5	10,914	3,395	11	718	6,789
Men											
16 years and over	88,925	67,592	76.0	64,344	3,248	4.8	21,333	478	4,387	1,934	14,534
16 to 19 years	7,136	3,821	53.5	3,231	590	15.4	3,315	13	3,025	19	258
16 to 17 years	3,509	1,463	41.7	1,192	271	18.5	2,046	5	1,942	3	95
18 to 19 years	3,627	2,358	65.0	2,039	319	13.5	1,270	9	1,083	16	162
20 to 24 years	8,669	7,302	84.2	6,644	658	9.0	1,367	32	901	58	375
25 to 54 years	50,862	47,737	93.9	46,008	1,729	3.6	3,124	187	452	888	1,597
25 to 34 years	21,100	20,028	94.9	19,155	873	4.4	1,072	63	334	184	492
25 to 29 years	10,376	9,816	94.6	9,308	509	5.2	560	29	231	83	216
30 to 34 years	10,724	10,211	95.2	9,847	364	3.6	513	34	103	100	276
35 to 44 years	17,707	16,762	94.7	16,189	573	3.4	945	56	97	329	464
35 to 39 years	9,531	9,015	94.6	8,675	340	3.8	516	26	67	173	250
40 to 44 years	8,176	7,746	94.7	7,513	233	3.0	430	30	30	156	214
45 to 54 years	12,054	10,948	90.8	10,665	283	2.6	1,107	68	21	375	642
45 to 49 years	6,572	6,086	92.6	5,927	159	2.6	485	35	15	172	264
50 to 54 years	5,483	4,861	88.7	4,737	124	2.6	621	33	7	203	378
55 to 64 years	10,097	6,806	67.4	6,578	227	3.3	3,292	85	5	489	2,713
55 to 59 years	5,073	4,048	79.8	3,907	140	3.5	1,025	40	3	243	739
60 to 64 years	5,024	2,758	54.9	2,671	87	3.1	2,266	45	2	246	1,973
65 years and over	12,162	1,927	15.8	1,883	44	2.3	10,235	160	4	479	9,591
65 to 69 years	4,549	1,133	24.9	1,108	25	2.2	3,416	40	4	148	3,227
70 to 74 years	3,386	504	14.9	489	15	2.9	2,882	49	108	108	2,725
75 years and over	4,227	290	6.9	285	5	1.6	3,937	71	4	223	3,639
Women											
16 years and over	97,801	56,236	57.5	53,154	3,081	5.5	41,566	25,644	4,174	1,554	10,194
16 to 19 years	7,030	3,678	52.3	3,114	563	15.3	3,353	384	2,665	17	287
16 to 17 years	3,301	1,408	42.7	1,220	188	13.3	1,893	92	1,696	4	101
18 to 19 years	3,729	2,270	60.9	1,894	376	16.5	1,460	292	969	13	185
20 to 24 years	9,244	6,817	71.6	6,102	515	7.8	2,627	1,420	884	16	307
25 to 54 years	53,121	39,340	74.1	37,503	1,837	4.7	13,780	11,238	594	468	1,480
25 to 34 years	21,760	16,210	74.5	15,244	966	6.0	5,549	4,561	342	100	547
25 to 29 years	10,740	8,004	74.5	7,499	505	6.3	2,736	2,171	216	42	307
30 to 34 years	11,019	8,206	74.5	7,745	461	5.6	2,813	2,390	126	58	240
35 to 44 years	18,538	14,058	75.8	13,455	803	4.3	4,480	3,635	196	168	480
35 to 39 years	9,908	7,389	74.6	7,045	344	4.7	2,519	2,058	119	73	270
40 to 44 years	8,630	6,669	77.3	6,410	259	3.9	1,961	1,577	78	95	210
45 to 54 years	12,824	9,072	70.7	8,804	268	3.0	3,752	3,043	57	199	453
45 to 49 years	6,940	5,211	75.1	5,058	152	2.9	1,729	1,418	35	70	207
50 to 54 years	5,884	3,862	65.6	3,746	116	3.0	2,022	1,625	22	130	246
55 to 64 years	11,317	5,118	45.2	4,990	128	2.5	6,199	4,301	13	304	1,581
55 to 59 years	5,579	3,056	54.8	2,975	81	2.7	2,522	1,899	7	139	479
60 to 64 years	5,738	2,062	35.9	2,015	47	2.3	3,677	2,403	6	166	1,102
85 years and over	17,089	1,483	8.7	1,445	38	2.6	15,607	8,300	18	749	6,539
65 to 69 years	5,502	897	16.3	871	26	2.9	4,605	2,722	9	140	1,735
70 to 74 years	4,413	388	8.8	378	10	2.5	4,025	2,254	2	114	1,655
75 years and over	7,174	198	2.8	195	2	1.3	6,976	3,324	7	495	3,150

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 1989										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
WHITE											
16 years and over	159,549	106,195	66.6	101,600	4,595	4.3	53,354	22,788	6,456	2,650	21,460
16 to 19 years	11,462	6,405	55.9	5,614	790	12.3	5,057	323	4,305	25	403
16 to 17 years	5,430	2,470	45.5	2,129	341	13.8	2,959	75	2,724	5	155
18 to 19 years	6,032	3,934	65.2	3,485	449	11.4	2,098	248	1,581	20	249
20 to 24 years	14,806	11,736	79.3	10,906	829	7.1	3,070	1,182	1,352	57	480
25 to 54 years	88,327	74,511	84.4	71,884	2,628	3.5	13,816	9,728	765	1,011	2,312
25 to 34 years	35,941	30,639	85.3	29,311	1,328	4.3	5,301	3,869	466	211	735
25 to 29 years	17,639	15,031	85.2	14,329	701	4.7	2,608	1,829	328	89	363
30 to 34 years	18,302	15,609	85.3	14,982	627	4.0	2,693	2,040	158	122	373
35 to 44 years	30,979	26,436	85.3	25,592	845	3.2	4,543	3,193	230	393	727
35 to 39 years	16,476	13,974	84.8	13,508	466	3.3	2,502	1,802	138	187	375
40 to 44 years	14,503	12,463	85.9	12,084	379	3.0	2,040	1,390	93	206	351
45 to 54 years	21,408	17,436	81.4	16,981	455	2.6	3,972	2,666	49	407	850
45 to 49 years	11,655	9,858	84.6	9,603	255	2.6	1,797	1,232	31	172	362
50 to 54 years	9,753	7,578	77.7	7,378	200	2.6	2,175	1,433	18	236	488
55 to 64 years	18,689	10,501	56.2	10,214	287	2.7	8,187	3,814	15	604	3,753
55 to 59 years	9,228	6,232	67.5	6,051	180	2.9	2,996	1,663	8	280	1,045
60 to 64 years	9,461	4,270	45.1	4,163	107	2.5	5,191	2,151	8	324	2,708
65 years and over	26,265	3,043	11.6	2,982	60	2.0	23,223	7,741	18	953	14,511
65 to 69 years	8,922	1,800	20.2	1,768	33	1.8	7,122	2,493	7	222	4,400
70 to 74 years	7,024	796	11.3	775	21	2.7	6,228	2,124	2	178	3,924
75 years and over	10,319	446	4.3	440	6	1.3	9,874	3,125	10	553	6,187
Men											
16 years and over	76,575	58,732	76.7	56,289	2,443	4.2	17,843	383	3,316	1,475	12,669
16 to 19 years	5,783	3,299	57.1	2,873	426	12.9	2,483	9	2,262	13	199
16 to 17 years	2,778	1,271	45.7	1,071	200	15.7	1,507	4	1,421	4	79
18 to 19 years	3,005	2,029	67.5	1,803	226	11.1	976	6	841	9	119
20 to 24 years	7,243	6,197	85.6	5,715	482	7.8	1,046	19	724	44	259
25 to 54 years	43,733	41,405	94.7	40,091	1,315	3.2	2,326	144	321	669	1,193
25 to 34 years	17,899	17,133	95.7	16,464	669	3.9	766	49	242	134	341
25 to 29 years	8,752	8,354	95.4	7,978	375	4.5	399	21	173	56	149
30 to 34 years	9,147	8,780	96.0	8,486	294	3.3	367	27	69	79	193
35 to 44 years	15,341	14,617	95.3	14,211	406	2.8	724	47	70	263	345
35 to 39 years	8,188	7,811	95.4	7,586	225	2.9	378	22	45	134	176
40 to 44 years	7,153	6,806	95.2	6,625	181	2.7	347	24	24	129	169
45 to 54 years	10,493	9,655	92.0	9,416	240	2.5	838	49	10	272	507
45 to 49 years	5,728	5,370	93.7	5,240	130	2.4	359	19	9	125	205
50 to 54 years	4,765	4,286	89.9	4,176	110	2.6	479	30	1	146	302
55 to 64 years	8,878	6,068	68.4	5,884	184	3.0	2,809	68	3	367	2,371
55 to 59 years	4,433	3,595	81.1	3,484	111	3.1	837	27	1	176	633
60 to 64 years	4,445	2,473	55.6	2,400	73	3.0	1,972	40	2	191	1,738
65 years and over	10,938	1,762	16.1	1,727	36	2.0	9,176	143	5	381	8,647
65 to 69 years	4,076	1,030	25.3	1,011	19	1.9	3,046	32		118	2,896
70 to 74 years	3,053	460	15.1	447	13	2.8	2,593	42		88	2,462
75 years and over	3,809	272	7.1	269	3	1.2	3,537	69	4	175	3,289
Women											
16 years and over	82,974	47,464	57.2	45,311	2,152	4.5	35,510	22,405	3,141	1,175	8,790
16 to 19 years	5,679	3,105	54.7	2,741	365	11.7	2,574	314	2,043	12	205
16 to 17 years	2,652	1,200	45.2	1,059	141	11.8	1,452	71	1,303	2	76
18 to 19 years	3,027	1,906	62.9	1,682	223	11.7	1,122	242	740	10	129
20 to 24 years	7,563	5,539	73.2	5,192	347	6.3	2,024	1,163	628	12	221
25 to 54 years	44,594	33,106	74.2	31,793	1,313	4.0	11,488	9,583	444	342	1,119
25 to 34 years	18,041	13,506	74.9	12,847	659	4.9	4,535	3,821	244	76	394
25 to 29 years	8,887	6,677	75.1	6,351	326	4.9	2,210	1,808	154	33	214
30 to 34 years	9,155	6,829	74.6	6,496	333	4.9	2,325	2,013	90	43	180
35 to 44 years	15,638	11,820	75.6	11,381	439	3.7	3,818	3,146	161	130	382
35 to 39 years	8,288	6,163	74.4	5,922	241	3.9	2,125	1,780	92	53	200
40 to 44 years	7,350	5,657	77.0	5,459	198	3.5	1,694	1,366	68	77	182
45 to 54 years	10,915	7,781	71.3	7,565	215	2.8	3,134	2,617	39	136	343
45 to 49 years	5,927	4,489	75.7	4,363	126	2.8	1,438	1,213	22	46	157
50 to 54 years	4,988	3,292	66.0	3,202	90	2.7	1,696	1,404	17	90	186
55 to 64 years	9,811	4,433	45.2	4,330	103	2.3	5,378	3,747	12	237	1,382
55 to 59 years	4,795	2,636	55.0	2,567	69	2.6	2,159	1,636	7	104	412
60 to 64 years	5,016	1,797	35.8	1,763	34	1.9	3,219	2,111	5	133	970
65 years and over	15,327	1,280	8.4	1,256	24	1.9	14,047	7,598	14	572	5,863
65 to 69 years	4,846	770	15.9	757	13	1.7	4,076	2,461	7	104	1,504
70 to 74 years	3,971	336	8.5	328	9	2.5	3,635	2,082	2	89	1,462
75 years and over	6,510	174	2.7	171	3	1.4	6,336	3,056	6	378	2,897

**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 1989										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
BLACK											
16 years and over	21,085	13,481	63.9	11,956	1,524	11.3	7,604	2,564	1,569	776	2,696
16 to 19 years	2,198	865	39.4	544	322	37.2	1,333	70	1,125	10	129
16 to 17 years	1,141	323	28.3	219	104	32.1	819	22	760	-	37
18 to 19 years	1,057	543	51.3	325	218	40.2	514	48	365	10	92
20 to 24 years	2,443	1,713	70.1	1,410	303	17.7	731	231	297	18	185
25 to 54 years	11,853	9,532	80.4	8,706	826	8.7	2,322	1,241	143	318	620
25 to 34 years	5,321	4,328	81.3	3,884	444	10.3	993	575	96	65	256
25 to 29 years	2,676	2,150	80.4	1,869	281	13.1	525	290	61	35	140
30 to 34 years	2,645	2,178	82.3	2,015	163	7.5	467	285	35	30	117
35 to 44 years	3,926	3,284	83.6	2,988	296	9.0	642	336	35	98	173
35 to 39 years	2,214	1,815	82.0	1,620	194	10.7	399	192	27	57	124
40 to 44 years	1,712	1,469	85.8	1,368	101	6.9	243	145	9	41	49
45 to 54 years	2,606	1,920	73.7	1,833	86	4.5	686	329	11	155	191
45 to 49 years	1,389	1,065	76.7	1,014	50	4.7	324	166	3	63	92
50 to 54 years	1,218	855	70.2	819	36	4.2	363	163	8	93	99
55 to 64 years	2,125	1,057	49.7	1,005	52	4.9	1,068	441	2	172	453
55 to 59 years	1,103	667	60.5	633	34	5.1	435	213	1	94	127
60 to 64 years	1,023	390	38.1	372	18	4.6	633	228	1	78	325
65 years and over	2,464	314	12.7	292	22	7.0	2,150	582	2	258	1,308
65 to 69 years	935	188	20.1	171	18	9.4	747	223	2	66	455
70 years and over	1,529	125	8.2	121	4	3.4	1,404	358		192	853
Men											
16 years and over	9,467	6,654	70.3	5,949	704	10.6	2,813	82	784	415	1,532
16 to 19 years	1,099	408	37.1	267	140	34.4	692	4	626	6	56
16 to 17 years	805	149	24.7	90	59	39.5	456	1	438		17
18 to 19 years	495	259	52.3	177	81	31.5	236	2	188	7	39
20 to 24 years	1,098	854	77.8	704	151	17.7	243	12	110	14	108
25 to 54 years	5,315	4,705	88.5	4,331	374	7.9	611	37	46	194	333
25 to 34 years	2,410	2,198	91.2	2,021	177	8.0	211	12	30	42	127
25 to 29 years	1,211	1,096	90.5	974	122	11.1	115	8	21	27	59
30 to 34 years	1,199	1,102	92.0	1,047	55	5.0	98	4	9	16	68
35 to 44 years	1,753	1,571	89.6	1,416	155	9.9	182	8	11	61	102
35 to 39 years	989	873	88.3	768	105	12.1	115	3	8	38	66
40 to 44 years	764	698	91.3	648	50	7.2	67	6	3	23	36
45 to 54 years	1,153	935	81.2	894	41	4.4	217	17	5	91	104
45 to 49 years	615	513	83.4	485	28	5.4	102	15	2	38	47
50 to 54 years	537	422	78.6	409	13	3.2	115	2	3	53	57
55 to 64 years	961	548	57.1	517	31	5.7	413	13	1	107	291
55 to 59 years	500	347	69.4	324	23	6.6	153	9	1	60	82
60 to 64 years	461	201	43.7	193	8	4.0	260	3		47	209
65 years and over	994	139	13.9	130	9	6.2	855	17		93	745
65 to 69 years	382	83	21.6	77	5	6.4	300	9		30	261
70 years and over	611	56	9.2	53	3	(¹)	555	9		63	484
Women											
16 years and over	11,617	8,827	58.8	6,007	820	12.0	4,790	2,481	785	361	1,163
16 to 19 years	1,099	457	41.6	278	181	39.8	641	66	499	3	73
16 to 17 years	536	174	32.3	129	45	25.7	363	21	322		20
18 to 19 years	562	284	50.5	147	136	48.1	278	45	177	3	52
20 to 24 years	1,346	858	63.8	706	152	17.7	487	219	187	4	78
25 to 54 years	6,538	4,827	73.8	4,375	452	9.4	1,711	1,203	97	124	287
25 to 34 years	2,911	2,130	73.2	1,863	267	12.5	781	564	66	22	129
25 to 29 years	1,465	1,054	72.0	895	159	15.1	411	283	39	8	80
30 to 34 years	1,447	1,076	74.4	988	108	10.0	371	281	27	14	49
35 to 44 years	2,173	1,713	78.8	1,573	140	8.2	460	328	24	37	71
35 to 39 years	1,226	942	76.8	853	89	9.5	284	189	18	19	58
40 to 44 years	948	771	81.4	720	51	6.6	176	139	6	18	13
45 to 54 years	1,453	984	67.7	939	45	4.6	469	312	6	64	87
45 to 49 years	773	552	71.4	529	23	4.1	221	151	1	24	45
50 to 54 years	680	432	63.6	410	22	5.2	248	161	5	40	42
55 to 64 years	1,165	509	43.7	488	21	4.1	656	428	1	65	162
55 to 59 years	602	320	53.1	309	11	3.5	282	203		33	46
60 to 64 years	562	189	33.6	179	10	5.2	373	225	1	32	116
65 years and over	1,470	175	11.9	162	13	7.7	1,295	564	2	165	564
65 to 69 years	552	106	19.1	93	12	11.7	447	215	2	35	194
70 years and over	918	69	7.6	68	1	(¹)	848	350		129	369

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 1989								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL									
16 years and over	27,177	17,632	64.9	15,898	200	15,697	1,735	9.8	9,545
16 to 19 years	2,704	1,093	40.4	731	12	719	363	33.2	1,611
16 to 17 years	1,380	401	29.0	283	5	278	118	29.3	979
18 to 19 years	1,325	693	52.3	448	7	441	245	35.4	632
20 to 24 years	3,106	2,183	70.3	1,840	17	1,822	343	15.7	923
25 to 54 years	15,655	12,566	80.3	11,628	129	11,499	939	7.5	3,089
25 to 34 years	6,919	5,599	80.9	5,098	52	5,036	511	9.1	1,320
25 to 29 years	3,478	2,790	80.2	2,477	30	2,448	313	11.2	688
30 to 34 years	3,442	2,809	81.6	2,610	22	2,588	199	7.1	633
35 to 44 years	5,266	4,384	83.2	4,052	43	4,009	332	7.6	882
35 to 39 years	2,963	2,431	82.0	2,213	23	2,189	218	9.0	532
40 to 44 years	2,303	1,953	84.8	1,839	20	1,819	114	5.8	350
45 to 54 years	3,470	2,584	74.5	2,488	34	2,454	96	3.7	886
45 to 49 years	1,856	1,439	77.5	1,383	18	1,365	56	3.9	418
50 to 54 years	1,614	1,145	71.0	1,106	16	1,090	40	3.5	469
55 to 64 years	2,726	1,422	52.2	1,354	31	1,323	68	4.8	1,304
55 to 59 years	1,424	873	61.3	831	19	812	41	4.7	551
60 to 64 years	1,302	550	42.2	523	12	511	27	4.9	752
65 years and over	2,986	367	12.3	345	12	334	22	6.0	2,619
65 to 69 years	1,129	230	20.3	212	6	206	18	7.7	899
70 to 74 years	775	95	12.3	92	4	88	3	3.1	680
75 years and over	1,082	42	3.9	41	1	40	1	(¹)	1,040
Men									
18 years and over	12,350	8,860	71.7	8,055	158	7,897	805	9.1	3,490
16 to 19 years	1,353	521	38.5	357	12	346	164	31.4	832
16 to 17 years	731	192	26.3	121	5	117	71	36.9	538
18 to 19 years	622	329	52.8	236	7	229	93	28.2	294
20 to 24 years	1,425	1,104	77.5	929	16	913	175	15.9	321
25 to 54 years	7,128	6,332	88.8	5,918	95	5,823	415	6.5	796
25 to 34 years	3,201	2,895	90.4	2,691	39	2,652	204	7.0	306
25 to 29 years	1,624	1,463	90.1	1,329	22	1,307	134	9.1	161
30 to 34 years	1,577	1,432	90.8	1,361	17	1,345	70	4.9	145
35 to 44 years	2,366	2,145	90.7	1,978	35	1,943	167	7.8	221
35 to 39 years	1,343	1,204	89.7	1,089	20	1,070	115	9.5	138
40 to 44 years	1,024	941	91.9	888	16	873	52	5.6	83
45 to 54 years	1,561	1,292	82.8	1,249	21	1,228	43	3.4	269
45 to 49 years	844	717	85.0	687	12	675	30	4.1	127
50 to 54 years	718	576	80.2	562	9	553	14	2.4	142
55 to 64 years	1,220	738	60.5	694	24	670	43	5.8	482
55 to 59 years	640	453	70.7	423	14	410	29	6.5	188
60 to 64 years	579	285	49.2	271	11	260	14	4.8	294
65 years and over	1,224	165	13.5	156	11	145	9	5.2	1,059
65 to 69 years	473	103	21.7	97	6	92	5	5.2	370
70 to 74 years	333	44	13.2	42	4	38	2	(¹)	289
75 years and over	418	18	4.3	17	1	15	1	(¹)	400
Women									
16 years and over	14,827	8,772	59.2	7,843	42	7,800	929	10.6	6,055
16 to 19 years	1,351	572	42.3	373	-	373	199	34.8	779
16 to 17 years	649	208	32.1	162	-	162	46	22.3	441
18 to 19 years	702	364	51.8	212	-	212	152	41.9	338
20 to 24 years	1,681	1,078	64.2	911	1	909	168	15.5	602
25 to 54 years	8,527	6,234	73.1	5,710	34	5,676	524	8.4	2,292
25 to 34 years	3,718	2,704	72.7	2,397	13	2,384	307	11.4	1,014
25 to 29 years	1,853	1,327	71.6	1,148	8	1,140	179	13.5	526
30 to 34 years	1,865	1,377	73.8	1,249	5	1,244	128	9.3	488
35 to 44 years	2,900	2,239	77.2	2,074	8	2,066	165	7.4	661
35 to 39 years	1,621	1,226	75.7	1,123	4	1,120	103	8.4	394
40 to 44 years	1,279	1,012	79.1	951	4	947	62	6.1	267
45 to 54 years	1,909	1,292	67.7	1,239	13	1,226	52	4.1	617
45 to 49 years	1,013	722	71.3	695	6	689	26	3.7	291
50 to 54 years	896	570	63.6	544	7	537	26	4.5	326
55 to 64 years	1,506	685	45.5	660	7	653	25	3.6	821
55 to 59 years	764	420	53.6	408	6	402	12	2.8	364
60 to 64 years	722	265	36.6	252	1	251	13	4.9	458
65 years and over	1,762	202	11.5	189	1	188	13	6.6	1,560
65 to 69 years	656	127	19.3	115	1	114	12	9.7	530
70 to 74 years	442	51	11.6	50	-	50	1	(¹)	391
75 years and over	664	24	3.7	24	-	24	-	(¹)	640

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. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
TOTAL								
Civilian noninstitutional population	184,962	186,726	80,751	81,790	89,735	90,771	14,477	14,166
Civilian labor force	121,842	123,828	62,942	63,771	51,172	52,558	7,728	7,498
Percent of population	65.9	66.3	77.9	78.0	57.0	57.9	53.4	52.9
Employed	115,474	117,498	60,402	61,113	48,556	50,040	6,516	6,345
Agriculture	3,250	3,329	2,325	2,419	642	701	282	209
Nonagricultural industries	112,225	114,169	58,077	58,694	47,914	49,339	6,234	6,136
Unemployed	6,368	6,330	2,540	2,658	2,616	2,518	1,212	1,153
Unemployment rate	5.2	5.1	4.0	4.2	5.1	4.8	15.7	15.4
Not in labor force	63,119	62,899	17,808	18,018	38,562	38,213	6,749	6,668
White								
Civilian noninstitutional population	158,422	159,549	70,022	70,792	76,595	77,295	11,804	11,462
Civilian labor force	104,959	106,195	54,872	55,433	43,397	44,358	6,690	6,405
Percent of population	66.3	66.6	78.4	78.3	56.7	57.4	56.7	55.9
Employed	100,177	101,600	52,910	53,416	41,495	42,570	5,772	5,614
Agriculture	3,041	3,128	2,161	2,273	605	659	275	197
Nonagricultural industries	97,136	98,472	50,750	51,143	40,889	41,912	5,497	5,417
Unemployed	4,782	4,595	1,962	2,017	1,902	1,788	918	790
Unemployment rate	4.6	4.3	3.6	3.6	4.4	4.0	13.7	12.3
Not in labor force	53,463	53,354	15,150	15,360	33,198	32,937	5,115	5,057
Black								
Civilian noninstitutional population	20,762	21,085	8,247	8,368	10,333	10,519	2,182	2,198
Civilian labor force	13,178	13,481	6,126	6,246	6,192	6,369	861	865
Percent of population	63.5	63.9	74.3	74.6	59.9	60.6	39.5	39.4
Employed	11,764	11,956	5,620	5,682	5,558	5,731	585	544
Agriculture	156	154	123	116	26	32	6	5
Nonagricultural industries	11,608	11,803	5,497	5,566	5,532	5,699	579	538
Unemployed	1,414	1,524	506	564	633	639	275	322
Unemployment rate	10.7	11.3	8.3	9.0	10.2	10.0	32.0	37.2
Not in labor force	7,584	7,604	2,121	2,122	4,141	4,149	1,321	1,333

**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 1989									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL ENROLLED										
Total, 16 to 24 years	14,756	7,129	48.3	6,278	1,304	4,974	851	89	762	11.9
16 to 19 years	10,249	4,487	43.8	3,839	428	3,411	648	41	608	14.4
20 to 24 years	4,507	2,642	58.6	2,439	876	1,563	203	48	154	7.7
High school	7,067	2,909	41.2	2,478	192	2,286	431	29	402	14.8
College	7,688	4,220	54.9	3,800	1,112	2,688	420	60	360	10.0
Full-time students	6,575	3,209	48.8	2,852	468	2,384	357	27	331	11.1
Part-time students	1,114	1,011	90.8	948	644	304	63	34	29	6.2
Men, 16 to 24 years	7,482	3,455	46.2	2,996	707	2,288	460	46	414	13.3
16 to 19 years	5,245	2,179	41.5	1,844	259	1,585	335	19	316	15.4
20 to 24 years	2,237	1,276	57.0	1,151	448	703	125	27	98	9.8
High school	3,757	1,488	39.6	1,247	131	1,116	241	15	226	16.2
College	3,726	1,967	52.8	1,749	577	1,172	218	31	188	11.1
Full-time students	3,213	1,499	46.6	1,312	270	1,042	187	15	171	12.5
Part-time students	513	469	91.4	437	307	130	32	15	16	6.8
Women, 16 to 24 years	7,273	3,674	50.5	3,282	597	2,685	392	43	348	10.7
16 to 19 years	5,003	2,308	46.1	1,994	169	1,826	313	22	291	13.6
20 to 24 years	2,270	1,366	60.2	1,288	428	860	78	21	57	5.7
High school	3,311	1,421	42.9	1,231	61	1,170	190	14	176	13.4
College	3,963	2,253	56.9	2,051	536	1,516	202	30	172	9.0
Full-time students	3,361	1,711	50.9	1,540	198	1,342	171	12	159	10.0
Part-time students	601	542	90.2	511	338	174	31	18	13	5.7
White										
Total, 16 to 24 years	11,889	6,101	51.3	5,474	1,122	4,351	628	57	570	10.3
16 to 19 years	8,205	3,855	47.0	3,396	373	3,024	459	20	438	11.9
20 to 24 years	3,684	2,246	61.0	2,077	749	1,328	169	37	132	7.5
Men	6,056	2,991	49.4	2,647	621	2,026	344	28	316	11.5
Women	5,833	3,110	53.3	2,827	501	2,326	284	30	254	9.1
High school	5,507	2,486	45.1	2,170	165	2,006	316	20	296	12.7
College	6,382	3,615	56.6	3,303	957	2,346	312	37	275	8.6
Full-time students	5,470	2,775	50.7	2,498	404	2,094	277	18	259	10.0
Part-time students	912	840	92.1	805	554	251	34	19	15	4.1
Black										
Total, 16 to 24 years	2,183	739	33.8	542	111	432	196	27	170	26.6
16 to 19 years	1,622	472	29.1	303	28	275	168	19	150	35.7
20 to 24 years	560	267	47.7	239	83	156	28	8	20	10.6
Men	1,084	328	30.2	228	52	176	99	15	84	30.3
Women	1,099	411	37.4	314	58	256	97	12	86	23.7
High school	1,283	329	25.7	228	17	211	101	8	92	30.6
College	900	410	45.5	314	93	221	96	19	77	23.3
Full-time students	754	287	38.1	220	33	186	67	4	63	23.4
Part-time students	146	123	83.9	94	60	34	29	14	14	23.3
Hispanic origin										
Total, 16 to 24 years	1,131	465	41.1	389	116	274	78	10	66	16.4
16 to 19 years	877	304	34.7	242	49	193	63	8	55	20.6
20 to 24 years	254	161	63.2	147	67	81	14	3	11	8.4
Men	563	218	38.6	174	55	119	43	2	42	19.9
Women	568	247	43.6	215	60	154	33	8	24	13.3
High school	722	212	29.4	156	22	135	56	8	47	26.3
College	409	253	61.9	233	94	139	20	2	18	8.1
Full-time students	309	163	52.9	148	34	114	15	2	13	9.1
Part-time students	100	90	89.6	84	60	25	5	-	6	6.1

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 1989									
	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	17,322	14,288	82.5	12,813	11,055	1,758	1,475	1,310	165	10.3
16 to 19 years	3,817	3,011	76.9	2,506	1,871	635	505	422	83	16.8
20 to 24 years	13,405	11,277	84.1	10,307	9,184	1,123	970	888	82	8.6
Less than 4 years of high school	4,046	2,711	67.0	2,206	1,788	418	504	446	59	18.6
4 years of high school	8,709	7,369	84.6	6,643	5,706	937	727	645	81	9.9
1 to 3 years of college	2,910	2,619	90.0	2,474	2,178	296	145	124	21	5.5
4 years of college or more	1,657	1,589	95.9	1,490	1,383	107	98	95	4	6.2
Men, 16 to 24 years	8,322	7,667	92.1	6,879	6,211	668	788	744	44	10.3
16 to 19 years	1,890	1,641	88.8	1,386	1,100	287	255	231	24	15.5
20 to 24 years	6,431	6,026	93.7	5,492	5,111	381	533	512	21	8.8
Less than 4 years of high school	2,141	1,829	85.4	1,517	1,312	205	312	292	20	17.1
4 years of high school	4,164	3,902	93.7	3,547	3,222	325	355	330	25	9.1
1 to 3 years of college	1,307	1,244	95.2	1,179	1,075	104	66	66	-	5.3
4 years of college or more	709	691	97.5	636	601	35	55	55	-	8.0
Women, 16 to 24 years	9,000	6,621	73.6	5,934	4,845	1,090	687	566	120	10.4
16 to 19 years	2,027	1,370	67.6	1,120	772	348	250	191	59	18.3
20 to 24 years	6,973	5,251	75.3	4,814	4,073	742	436	375	61	8.3
Less than 4 years of high school	1,904	881	46.3	689	476	213	192	154	38	21.8
4 years of high school	4,545	3,467	76.3	3,096	2,484	611	372	315	56	10.7
1 to 3 years of college	1,603	1,375	85.8	1,295	1,103	192	80	58	21	5.8
4 years of college or more	948	898	94.6	854	782	72	43	39	4	4.8
White										
Total, 16 to 24 years	14,379	12,039	83.7	11,047	9,538	1,509	992	881	111	8.2
16 to 19 years	3,256	2,550	78.3	2,218	1,663	555	332	287	45	13.0
20 to 24 years	11,122	9,489	85.3	8,829	7,875	954	660	594	66	7.0
Men	6,970	6,506	93.3	5,941	5,382	559	565	535	29	8.7
Women	7,409	5,534	74.7	5,106	4,156	950	428	346	82	7.7
Less than 4 years of high school	3,290	2,234	67.9	1,893	1,544	349	341	304	37	15.3
4 years of high school	7,174	6,189	86.3	5,727	4,930	798	462	410	52	7.5
1 to 3 years of college	2,424	2,184	90.1	2,079	1,816	263	105	84	21	4.8
4 years of college or more	1,491	1,433	96.1	1,348	1,248	100	85	83	1	5.9
Black										
Total, 18 to 24 years	2,459	1,839	74.8	1,411	1,211	200	428	377	52	23.3
16 to 19 years	576	394	68.4	240	173	67	153	118	36	38.9
20 to 24 years	1,883	1,445	76.8	1,171	1,038	133	275	259	16	19.0
Men	1,113	835	83.9	743	658	85	192	178	14	20.6
Women	1,345	904	67.2	668	553	115	236	199	37	26.1
Less than 4 years of high school	635	384	60.5	236	178	58	148	129	19	38.5
4 years of high school	1,325	1,001	75.6	772	658	114	230	200	30	22.9
1 to 3 years of college	393	357	90.9	317	293	24	40	40	-	11.1
4 years of college or more	106	97	90.8	86	82	4	11	8	3	11.2
Hispanic origin										
Total, 16 to 24 years	2,318	1,717	74.1	1,520	1,315	205	197	175	22	11.5
16 to 19 years	528	343	65.0	287	224	64	56	45	11	16.3
20 to 24 years	1,790	1,374	76.7	1,233	1,091	142	141	130	11	10.3
Men	1,201	1,113	92.8	985	893	92	128	120	8	11.5
Women	1,117	604	54.1	535	422	114	69	55	14	11.4
Less than 4 years of high school	1,138	737	64.8	647	563	84	90	73	17	12.3
4 years of high school	907	729	80.3	639	538	101	90	83	7	12.4
1 to 3 years of college	221	202	91.2	194	173	22	7	10	-	3.5
4 years of college or more	52	49	(²)	40	41	-	9	9	(²)	(²)

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

² Data not shown where base is less than 75,000.

NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and

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

A-8. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Sept. 1988	Sept. 1989	Total		Employed		Unemployed			
			Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Number		Percent of labor force	
							Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,890	7,928	7,261	7,249	7,008	6,999	253	251	3.5	3.5
30 to 44 years	5,826	5,409	5,540	5,114	5,344	4,926	196	187	3.5	3.7
30 to 34 years	633	440	592	406	554	382	38	24	6.4	6.0
35 to 39 years	2,070	1,673	1,965	1,561	1,894	1,486	71	75	3.6	4.8
40 to 44 years	3,123	3,296	2,983	3,146	2,896	3,058	87	88	2.9	2.8
45 years and over	2,064	2,519	1,721	2,136	1,664	2,072	57	63	3.3	3.0
NONVETERANS										
Total, 30 to 44 years	20,631	21,665	19,645	20,572	18,958	19,877	687	695	3.5	3.4
30 to 34 years	9,175	9,401	8,779	8,966	8,439	8,669	340	297	3.9	3.3
35 to 39 years	6,928	7,506	6,593	7,121	6,405	6,867	188	255	2.9	3.6
40 to 44 years	4,528	4,758	4,273	4,485	4,114	4,341	159	143	3.7	3.2

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data

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

**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 1989							
	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	97,812	96,193	1,619	19,686	16,818	2,868	4,824	1,505
16 to 19 years	2,299	2,182	117	4,046	3,680	365	463	690
16 to 17 years	235	222	13	2,177	2,108	69	98	360
18 to 19 years	2,064	1,960	104	1,869	1,572	296	365	330
20 years and over	95,513	94,011	1,502	15,640	13,137	2,503	4,361	815
20 to 24 years	10,060	9,830	231	2,686	2,200	485	936	236
25 years and over	85,453	84,181	1,271	12,954	10,937	2,018	3,425	578
25 to 54 years	74,301	73,218	1,083	9,211	7,530	1,681	3,080	487
55 years and over	11,152	10,963	189	3,744	3,407	337	346	92
Men, 16 years and over	58,214	57,351	863	6,130	4,966	1,164	2,693	555
16 to 19 years	1,359	1,292	67	1,872	1,701	171	250	340
20 years and over	56,855	56,059	796	4,258	3,285	993	2,443	215
20 to 24 years	5,559	5,438	121	1,084	854	231	539	118
25 years and over	51,296	50,621	674	3,174	2,411	762	1,904	97
25 to 54 years	44,347	43,760	587	1,661	1,033	628	1,678	51
55 years and over	6,948	6,861	87	1,513	1,379	134	226	46
Women, 16 years and over	39,598	38,842	756	13,556	11,852	1,704	2,131	950
16 to 19 years	940	890	50	2,174	1,980	194	213	350
20 years and over	38,858	37,952	706	11,382	9,872	1,510	1,918	600
20 to 24 years	4,501	4,392	109	1,601	1,346	255	397	118
25 years and over	34,157	33,560	597	9,781	8,525	1,256	1,522	482
25 to 54 years	29,953	29,458	496	7,550	6,497	1,053	1,402	435
55 years and over	4,204	4,102	101	2,231	2,028	203	120	46
White								
Men, 16 years and over	50,989	50,281	708	5,300	4,358	942	2,011	431
16 to 19 years	1,207	1,152	55	1,666	1,524	143	186	240
20 years and over	49,782	49,129	653	3,634	2,835	799	1,825	192
20 to 24 years	4,796	4,682	114	919	732	186	377	105
25 years and over	44,986	44,447	539	2,715	2,102	613	1,448	87
25 to 54 years	38,762	38,294	468	1,329	834	495	1,272	43
55 years and over	6,224	6,154	71	1,386	1,268	118	176	44
Women, 16 years and over	33,356	32,710	646	11,955	10,632	1,323	1,409	743
16 to 19 years	829	780	49	1,912	1,736	176	121	243
20 years and over	32,527	31,930	597	10,043	8,896	1,147	1,288	500
20 to 24 years	3,828	3,731	97	1,363	1,169	194	254	93
25 years and over	28,699	28,199	500	8,680	7,727	953	1,034	407
25 to 54 years	25,047	24,641	406	6,746	5,944	802	943	370
55 years and over	3,652	3,558	95	1,933	1,783	150	91	37
Black								
Men, 16 years and over	5,366	5,231	136	583	396	187	597	107
16 to 19 years	117	106	11	150	124	26	55	86
20 years and over	5,249	5,124	125	433	272	161	543	21
20 to 24 years	593	586	7	111	77	34	138	13
25 years and over	4,656	4,538	118	323	195	128	404	9
25 to 54 years	4,105	4,004	101	226	114	112	367	7
55 years and over	551	534	17	96	81	15	38	2
Women, 16 years and over	4,842	4,751	91	1,165	857	308	642	178
16 to 19 years	84	84	-	192	172	21	82	99
20 years and over	4,758	4,667	91	973	685	288	560	79
20 to 24 years	527	519	8	179	127	52	129	23
25 years and over	4,231	4,148	83	794	558	236	431	55
25 to 54 years	3,831	3,754	77	544	354	190	405	47
55 years and over	399	393	6	250	204	46	26	8

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 1989									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over ¹	99,299	66.8	94,108	5,191	5.2	49,408	21,243	7,803	2,497	17,865
Husbands	40,244	78.3	39,138	1,106	2.7	11,135	179	192	970	9,794
With employed wife	26,543	92.3	25,906	637	2.4	2,219	77	96	323	1,722
With unemployed wife	1,047	93.4	965	82	7.8	74	-	6	26	42
With wife not in labor force	12,654	58.9	12,266	387	3.1	8,842	102	90	621	8,029
Wives	29,883	58.2	28,762	1,121	3.8	21,495	16,801	366	390	3,938
With employed husband	26,871	68.7	25,906	965	3.6	12,266	10,713	304	153	1,097
With unemployed husband	719	65.0	637	82	11.4	387	310	18	5	54
With husband not in labor force	2,293	20.6	2,219	74	3.2	8,842	5,778	44	233	2,787
Relatives in married-couple families	12,514	63.0	11,252	1,262	10.1	7,340	673	5,007	344	1,317
16 to 19 years	4,595	52.0	4,009	587	12.8	4,235	85	3,866	12	273
20 to 24 years	4,462	75.6	4,065	397	8.9	1,444	153	1,015	46	230
25 years and over	3,456	67.5	3,178	278	8.0	1,661	435	126	286	814
Women who maintain families	6,933	63.4	6,379	554	8.0	3,998	2,581	221	252	945
Relatives in families maintained by women	5,605	59.9	4,683	922	16.4	3,745	674	1,654	349	1,068
16 to 19 years	1,477	48.2	1,103	373	25.3	1,584	97	1,320	17	150
20 to 24 years	1,564	74.2	1,304	260	16.6	543	111	256	16	161
25 years and over	2,565	61.3	2,276	289	11.3	1,618	466	78	316	757
Men who maintain families	2,265	77.2	2,175	89	3.9	668	37	36	102	492
Relatives in families maintained by men	1,855	64.4	1,719	136	7.4	1,026	298	327	90	311
16 to 19 years	348	56.2	313	35	10.1	272	14	227	1	30
20 to 24 years	475	76.9	447	28	5.9	142	39	65	2	36
25 years and over	1,032	62.8	959	73	7.1	612	245	35	87	245

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. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
Total, 16 years and over	3,183	3,248	4.8	4.8	3,186	3,081	5.8	5.5
Married, spouse present	1,122	1,209	2.7	2.9	1,186	1,211	3.9	3.9
Widowed, divorced, or separated	413	392	6.0	5.4	736	625	6.9	5.5
Single (never married)	1,649	1,648	9.1	9.0	1,264	1,246	9.1	8.9
White, 16 years and over	2,451	2,443	4.2	4.2	2,331	2,152	5.0	4.5
Married, spouse present	934	1,000	2.5	2.7	1,011	1,013	3.8	3.7
Widowed, divorced, or separated	287	282	5.1	4.6	508	411	5.9	4.5
Single (never married)	1,231	1,161	8.1	7.7	812	728	7.2	6.5
Black, 16 years and over	649	704	9.9	10.6	765	820	11.6	12.0
Married, spouse present	150	179	4.6	5.6	134	153	5.6	6.3
Widowed, divorced, or separated	116	93	11.5	9.1	208	194	10.9	9.8
Single (never married)	384	432	16.7	17.6	423	473	18.4	19.5
Total, 25 years and over	1,971	2,001	3.6	3.5	2,044	2,003	4.6	4.4
Married, spouse present	1,043	1,088	2.6	2.7	994	1,045	3.6	3.6
Widowed, divorced, or separated	378	368	5.8	5.2	659	593	6.4	5.4
Single (never married)	550	545	6.4	6.1	391	366	6.4	5.7
White, 25 years and over	1,551	1,534	3.2	3.1	1,528	1,441	4.1	3.7
Married, spouse present	859	903	2.4	2.5	860	876	3.5	3.5
Widowed, divorced, or separated	271	260	5.0	4.4	445	388	5.4	4.5
Single (never married)	421	372	5.9	5.1	223	176	4.8	3.6
Black, 25 years and over	368	413	7.1	7.7	456	487	8.6	8.8
Married, spouse present	147	165	4.8	5.4	102	131	4.6	5.8
Widowed, divorced, or separated	99	91	10.3	9.0	194	185	10.4	9.5
Single (never married)	123	156	10.6	11.8	160	171	12.8	13.1

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
Total, 16 years and over	6,368	6,330	5.2	5.1	4.8	4.8	5.8	5.5
Managerial and professional specialty	624	715	2.1	2.3	1.7	1.8	2.5	2.8
Executive, administrative, and managerial	322	405	2.2	2.6	1.9	2.1	2.7	3.5
Professional specialty	302	310	1.9	1.9	1.5	1.5	2.4	2.3
Technical, sales, and administrative support	1,573	1,499	4.2	4.0	3.3	3.0	4.7	4.6
Technicians and related support	92	91	2.5	2.5	2.7	2.4	2.1	2.7
Sales occupations	658	617	4.6	4.2	3.0	2.6	6.2	5.8
Administrative support, including clerical	822	791	4.3	4.1	4.1	3.9	4.4	4.2
Service occupations	1,056	1,089	6.5	6.5	5.3	6.9	7.3	6.3
Private household	53	37	5.9	4.5	(¹)	(¹)	5.2	4.4
Protective service	66	101	3.3	4.9	2.1	4.4	9.6	6.9
Service, except private household and protective	936	951	7.0	6.9	6.3	7.8	7.4	6.4
Precision production, craft, and repair	603	665	4.3	4.6	4.4	4.4	3.0	6.2
Mechanics and repairers	140	166	3.2	3.6	3.1	3.6	4.3	1.3
Construction trades	288	328	5.3	5.9	5.4	5.7	2.3	12.3
Other precision production, craft, and repair	175	170	4.1	4.0	4.5	3.3	2.9	6.2
Operators, fabricators, and laborers	1,513	1,482	7.7	7.5	7.0	7.1	9.8	8.9
Machine operators, assemblers, and inspectors	715	629	8.1	7.0	6.5	5.8	10.3	8.8
Transportation and material moving occupations	224	267	4.2	4.9	4.3	4.7	3.3	7.4
Handlers, equipment cleaners, helpers, and laborers	573	586	10.5	11.1	10.4	11.3	10.9	10.3
Construction laborers	145	148	13.9	16.1	14.4	16.1	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	429	438	9.7	10.1	9.2	10.1	11.4	10.1
Farming, forestry, and fishing	258	177	6.7	4.6	6.7	4.5	6.9	5.2
No previous work experience	716	667	-	-	-	-	-	-
16 to 19 years	462	412	-	-	-	-	-	-
20 to 24 years	150	137	-	-	-	-	-	-
25 years and over	104	118	-	-	-	-	-	-

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. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
Total, 16 years and over	6,368	6,330	5.2	5.1	4.8	4.8	5.8	5.5
Nonagricultural private wage and salary workers	4,794	4,829	5.3	5.2	4.8	5.0	5.8	5.5
Mining	52	47	6.8	6.6	6.9	6.8	5.9	5.8
Construction	474	503	7.4	8.0	7.7	8.1	4.4	6.7
Manufacturing	1,181	1,113	5.4	5.0	4.7	4.3	6.6	6.4
Durable goods	666	607	5.1	4.7	4.8	4.1	5.8	6.1
Lumber and wood products	37	43	5.0	5.9	5.2	6.1	3.7	4.9
Furniture and fixtures	34	38	4.7	5.8	4.7	4.4	4.6	8.7
Stone, clay, and glass products	37	31	5.7	4.7	5.4	5.2	6.4	3.2
Primary metal industries	41	37	4.9	4.2	4.9	3.9	4.8	6.8
Fabricated metal products	87	69	6.2	5.1	5.3	5.1	9.2	5.1
Machinery, except electrical	135	84	5.0	3.2	4.4	2.6	6.9	5.1
Electrical machinery, equipment, and supplies	79	117	3.9	5.5	3.0	4.9	5.0	6.3
Transportation equipment	130	117	4.8	4.4	5.0	3.3	4.1	8.5
Automobiles	72	59	5.8	4.8	5.8	3.6	6.2	9.0
Other transportation equipment	58	58	3.9	4.1	4.3	3.0	2.6	7.9
Professional and photographic equipment	29	29	4.0	4.1	4.0	3.8	4.1	4.6
Other durable goods industries	57	42	10.6	6.9	11.1	7.1	10.2	6.4
Nondurable goods	516	506	5.7	5.5	4.5	4.7	7.4	6.6
Food and kindred products	124	141	6.8	7.4	5.4	6.7	9.4	8.7
Textile mill products	42	38	5.7	5.4	5.0	4.6	6.6	6.3
Apparel and other textile products	126	95	10.1	7.3	6.1	7.4	11.3	7.3
Paper and allied products	18	25	2.4	3.3	1.9	2.1	3.6	7.0
Printing and publishing	90	93	4.8	4.8	4.7	4.9	5.0	4.6
Chemicals and allied products	39	42	3.0	3.3	2.8	3.0	3.3	3.9
Rubber and miscellaneous plastics products	55	47	6.5	5.7	5.3	3.6	8.6	9.3
Other nondurable goods industries	22	24	5.4	5.5	7.4	5.3	1.9	6.0
Transportation and public utilities	218	274	3.5	4.3	3.5	4.1	3.2	4.8
Transportation	167	198	4.5	5.2	4.7	4.8	3.9	6.5
Communications and other public utilities	51	76	2.0	2.9	1.6	2.9	2.7	3.1
Wholesale and retail trade	1,391	1,323	6.0	5.6	5.0	4.7	7.1	6.5
Wholesale trade	177	160	3.9	3.7	3.6	2.9	4.7	5.6
Retail trade	1,214	1,163	6.6	6.1	5.5	5.4	7.4	6.7
Finance, insurance, and real estate	223	258	3.0	3.5	2.6	2.4	3.3	4.2
Service industries	1,255	1,311	5.0	5.0	4.2	5.3	5.4	4.9
Professional services	469	499	3.3	3.4	2.3	2.7	3.7	3.6
Other service industries	786	812	7.1	7.2	5.7	7.3	8.5	7.1
Agricultural wage and salary workers	175	126	9.7	6.9	9.2	6.5	11.6	8.4
Government, self-employed, and unpaid family workers	682	708	2.4	2.5	2.1	2.2	2.8	2.8
No previous work experience	716	667	-	-	-	-	-	-

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. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
NUMBER OF UNEMPLOYED												
Total unemployed	6,368	6,330	2,540	2,658	2,616	2,518	1,212	1,153	4,782	4,595	1,414	1,524
Job losers	2,732	2,586	1,565	1,609	944	807	223	170	2,101	1,918	575	592
On layoff	636	631	356	373	247	218	33	40	500	538	118	78
Other job losers	2,096	1,955	1,209	1,236	697	589	190	129	1,601	1,380	457	514
Job leavers	1,099	1,162	415	437	470	461	213	264	866	941	204	187
Reentrants	1,821	1,997	463	520	1,044	1,116	314	361	1,369	1,400	398	524
New entrants	717	585	97	93	158	134	462	358	447	337	237	222
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	40.9	61.6	60.5	36.1	32.1	18.4	14.7	33.5	41.7	40.6	38.8
On layoff	10.0	10.0	14.0	14.0	9.5	8.7	2.7	3.5	10.5	11.7	8.3	5.1
Other job losers	32.9	30.9	47.6	46.5	26.6	23.4	15.7	11.2	23.0	30.0	32.3	33.7
Job leavers	17.3	18.4	16.4	16.4	18.0	18.3	17.6	22.9	18.1	20.5	14.5	12.2
Reentrants	28.6	31.5	18.2	19.6	39.9	44.3	25.9	31.3	28.6	30.5	28.1	34.4
New entrants	11.3	9.2	3.8	3.5	6.0	5.3	38.1	31.0	9.3	7.3	16.8	14.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.2	2.1	2.5	2.5	1.9	1.5	2.9	2.3	1.5	1.8	4.4	4.4
Job leavers .....	.9	.9	.7	.7	.9	.9	2.8	3.5	.8	.9	1.6	1.4
Reentrants	1.5	1.6	.7	.8	2.0	2.1	4.1	4.8	1.3	1.3	3.0	3.9
New entrants .....	.6	.5	.2	.1	.3	.3	6.0	4.8	.4	.3	1.8	1.6

**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 1989						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,330	100.0	53.0	27.4	19.5	10.5	9.1
Job losers	2,586	100.0	42.2	30.5	27.3	14.5	12.8
On layoff	631	100.0	60.4	23.5	16.0	12.1	3.9
Other job losers	1,955	100.0	36.3	32.7	31.0	15.3	15.7
Job leavers	1,162	100.0	60.8	24.9	14.3	8.1	6.2
Reentrants	1,997	100.0	60.4	25.4	14.2	7.2	7.0
New entrants	585	100.0	59.9	26.3	13.8	8.5	5.2
Men, 20 years and over	2,658	100.0	42.9	28.5	28.6	13.8	14.8
Job losers	1,609	100.0	39.3	29.1	31.6	15.3	16.3
On layoff	373	100.0	60.6	20.6	18.7	12.1	6.6
Other job losers	1,236	100.0	32.9	31.6	35.5	16.2	19.3
Job leavers	437	100.0	49.5	30.4	20.1	10.0	10.1
Reentrants	520	100.0	49.8	24.9	25.3	11.7	13.6
New entrants	93	100.0	35.1	30.2	34.7	17.7	17.1
Women, 20 years and over	2,518	100.0	55.6	28.9	15.5	9.3	6.3
Job losers	807	100.0	40.7	35.6	23.6	15.3	8.4
On layoff	218	100.0	56.6	29.6	13.7	13.6	.2
Other job losers	589	100.0	34.9	37.9	27.3	15.9	11.4
Job leavers	461	100.0	64.4	22.5	13.1	9.3	3.8
Reentrants	1,116	100.0	61.5	27.4	11.1	5.5	5.6
New entrants	134	100.0	65.3	22.3	12.4	4.5	7.9
Both sexes, 16 to 19 years	1,153	100.0	70.7	21.9	7.4	5.5	1.9
Job losers	170	100.0	76.5	19.2	4.3	3.5	.8
On layoff	40	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	129	100.0	75.8	19.8	4.4	3.4	1.0
Job leavers	264	100.0	73.5	19.9	6.6	3.0	3.6
Reentrants	361	100.0	72.1	19.8	8.2	6.2	1.9
New entrants	358	100.0	64.4	26.8	8.8	7.7	1.1

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

A-16. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
Total, 16 years and over	6,368	6,330	100.0	100.0	4,873	4,824	100.0	100.0
Less than 5 weeks	3,308	3,355	51.9	53.0	2,224	2,282	45.6	47.3
5 to 14 weeks	1,632	1,737	25.6	27.4	1,318	1,422	27.0	29.5
5 to 10 weeks	1,133	1,264	17.8	20.0	910	1,042	18.7	21.6
11 to 14 weeks	500	473	7.9	7.5	408	380	8.4	7.9
15 weeks and over	1,428	1,237	22.4	19.5	1,331	1,121	27.3	23.2
15 to 26 weeks	644	664	10.1	10.5	585	597	12.0	12.4
27 weeks and over	784	573	12.3	9.1	746	523	15.3	10.8
27 to 51 weeks	303	237	4.8	3.7	287	217	5.9	4.5
52 weeks and over	481	336	7.6	5.3	459	306	9.4	6.3
Average (mean) duration, in weeks	13.3	11.3			15.6	12.9		
Median duration, in weeks	4.8	4.2		-	6.3	5.2		-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
	September 1989										
Total, 16 years and over	6,330	3,355	1,737	664	573	11.3	4.2	51.9	53.0	22.4	19.5
16 to 19 years	1,153	815	253	64	22	5.4	3.2	66.6	70.7	7.3	7.4
20 to 24 years	1,172	692	300	112	69	8.7	3.8	61.8	59.0	16.7	15.4
25 to 34 years	1,839	911	545	220	163	11.5	4.6	50.2	49.6	23.8	20.8
35 to 44 years	1,176	571	326	128	152	13.8	4.9	40.0	48.5	32.0	23.7
45 to 54 years	551	220	157	76	97	17.4	7.3	39.2	39.9	30.1	31.5
55 to 64 years	355	118	124	51	63	18.7	8.8	42.0	33.3	40.4	31.9
65 years and over	82	28	33	13	8	15.4	8.4	(¹)	33.6	(¹)	25.8
Men, 16 years and over	3,248	1,544	905	389	410	13.7	5.1	45.4	47.5	27.4	24.6
16 to 19 years	590	403	148	23	16	5.7	3.3	65.6	68.3	8.0	6.6
20 to 24 years	658	354	182	75	47	9.6	4.2	55.5	53.9	17.7	18.5
25 to 34 years	873	370	259	136	109	13.9	6.2	41.2	42.3	30.2	28.0
35 to 44 years	573	236	154	74	109	18.2	7.3	30.3	41.2	39.7	32.0
45 to 54 years	283	94	79	40	71	23.3	9.8	33.5	33.3	40.5	38.9
55 to 64 years	227	65	72	37	54	22.6	10.8	30.5	28.6	51.0	39.9
65 years and over	44	22	13	5	5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,081	1,812	832	274	164	8.7	3.8	58.5	58.8	17.4	14.2
16 to 19 years	563	412	105	41	5	5.1	3.1	67.8	73.1	6.5	8.3
20 to 24 years	515	338	118	37	22	7.6	3.4	68.0	65.6	15.6	11.4
25 to 34 years	966	542	286	84	54	9.4	4.0	58.5	56.1	17.8	14.4
35 to 44 years	603	335	172	53	43	9.6	4.1	49.2	55.5	24.6	15.9
45 to 54 years	268	126	79	37	27	11.0	5.1	45.1	46.9	19.5	23.7
55 to 64 years	128	53	52	14	9	11.8	6.1	56.0	41.6	27.5	17.9
65 years and over	38	6	20	8	3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,595	2,533	1,217	455	390	10.7	4.1	53.5	55.1	21.8	18.4
Men	2,443	1,217	645	285	296	13.2	4.5	46.9	49.8	27.7	23.8
Women	2,152	1,316	572	170	94	7.8	3.7	60.5	61.1	15.7	12.3
Black, 16 years and over	1,524	702	475	179	168	13.2	5.5	48.1	46.0	24.2	22.8
Men	704	265	246	88	105	15.9	7.4	41.6	37.7	27.1	27.4
Women	820	436	228	92	63	10.8	4.2	53.7	53.2	21.8	18.9
Men, 16 years and over:											
Married, spouse present	1,209	488	345	183	193	16.6	7.4	35.7	40.4	37.9	31.1
Widowed, divorced, or separated	392	156	131	44	61	15.8	7.0	35.7	39.8	37.1	26.8
Single (never married)	1,648	899	430	163	156	11.1	4.1	54.3	54.6	17.9	19.3
Women, 16 years and over:											
Married, spouse present	1,211	715	327	120	50	8.3	3.8	59.3	59.0	15.3	14.0
Widowed, divorced, or separated	625	309	209	61	46	10.5	4.6	55.3	49.4	21.6	17.1
Single (never married)	1,246	788	295	94	67	8.2	3.6	59.7	63.2	17.0	13.0

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. 1988	Sept. 1989	Sept. 1988	Sept. 1989
SEPTEMBER 1989											
OCCUPATION											
Managerial and professional specialty	715	336	205	92	81	13.0	5.4	44.3	47.0	28.8	24.3
Technical, sales, and administrative support	1,499	881	365	136	117	9.6	3.8	53.6	58.8	19.4	16.8
Service occupations	1,089	606	294	97	92	10.5	4.0	60.3	55.6	15.9	17.4
Precision production, craft, and repair	665	296	204	87	77	14.0	5.7	46.2	44.5	28.6	24.7
Operators, fabricators, and laborers	1,482	726	417	176	163	12.5	4.8	45.1	49.0	29.4	22.9
Farming, forestry, and fishing	177	87	63	17	10	9.9	4.8	54.9	49.2	19.4	15.3
INDUSTRY¹											
Agriculture	126	71	43	7	5	8.1	4.0	55.8	56.3	17.9	9.5
Construction	515	244	150	57	64	13.2	5.0	54.9	47.4	19.3	23.5
Manufacturing	1,118	526	303	148	141	13.2	5.3	41.7	47.0	30.4	25.8
Durable goods	610	268	176	88	78	13.9	6.7	37.1	43.9	34.8	27.4
Nondurable goods	508	258	127	60	62	12.4	4.4	47.7	50.8	24.6	24.0
Transportation and public utilities	311	144	100	31	36	12.1	5.3	48.1	46.3	27.1	21.5
Wholesale and retail trade	1,335	696	377	153	109	11.0	4.3	55.7	52.1	19.0	19.6
Finance and service industries	1,866	1,078	470	185	133	10.0	3.9	53.6	57.8	21.1	17.1
Public administration	148	67	51	12	18	13.1	5.4	46.5	45.3	27.7	20.3
No previous work experience	667	411	172	53	31	9.5	3.7	61.1	61.6	13.9	12.6

¹ Includes wage and salary workers only.

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

Sex, age, and race	September 1989								
	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	6,330	5,589	20.3	8.1	74.0	38.1	19.2	5.1	1.65
16 to 19 years	1,153	1,098	11.8	3.6	77.1	29.6	16.5	5.8	1.44
20 to 24 years	1,172	1,062	21.2	7.5	72.6	40.5	18.8	5.0	1.66
25 to 34 years	1,839	1,612	22.1	8.3	74.3	41.8	18.5	3.8	1.69
35 to 44 years	1,176	1,023	22.4	10.9	74.1	38.4	21.3	5.6	1.73
45 to 54 years	551	445	26.2	11.2	71.3	42.4	24.9	7.8	1.84
55 to 64 years	355	273	25.7	13.2	72.3	32.1	21.2	4.6	1.69
65 years and over	82	75	10.2	7.0	60.7	37.1	7.9	2.8	1.26
Men, 16 years and over	3,248	2,798	22.7	8.7	76.3	35.4	23.2	4.9	1.71
16 to 19 years	590	564	14.1	2.8	79.6	29.4	19.4	4.4	1.50
20 to 24 years	658	574	23.8	7.7	76.5	33.5	21.7	4.7	1.68
25 to 34 years	873	738	25.6	9.0	76.0	40.7	23.0	4.1	1.78
35 to 44 years	573	489	24.5	12.4	76.8	37.2	28.6	5.1	1.84
45 to 54 years	283	225	25.7	14.7	72.3	37.7	28.9	8.0	1.87
55 to 64 years	227	172	29.4	11.2	73.0	30.1	23.7	6.1	1.73
65 years and over	44	37	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,081	2,791	17.9	7.5	71.6	40.7	15.1	5.3	1.58
16 to 19 years	563	534	9.5	4.5	74.3	29.9	13.4	7.2	1.39
20 to 24 years	515	489	18.3	7.2	68.0	48.8	15.4	5.4	1.63
25 to 34 years	966	874	19.1	7.7	72.9	42.7	14.6	3.6	1.61
35 to 44 years	603	534	20.4	9.5	71.7	39.4	14.6	6.1	1.62
45 to 54 years	268	220	26.6	7.7	70.3	47.3	20.9	7.5	1.80
55 to 64 years	128	102	19.4	16.4	71.3	35.4	17.1	2.2	1.62
65 years and over	38	38	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,595	3,960	19.4	8.3	74.6	40.0	18.8	5.3	1.67
Men	2,443	2,035	22.7	9.2	76.7	37.2	22.5	5.2	1.74
Women	2,152	1,925	15.9	7.4	72.4	42.9	15.0	5.5	1.59
Black, 16 years and over	1,524	1,440	22.8	8.1	73.6	32.9	19.9	4.4	1.62
Men	704	670	23.9	8.2	77.6	30.3	24.9	3.8	1.69
Women	820	770	21.8	8.1	70.1	35.1	15.6	5.0	1.56

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 1989								
	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	6,330	5,589	20.3	8.1	74.0	38.1	19.2	5.1	1.65
Job losers ¹	2,586	1,917	25.6	10.0	76.5	41.7	23.8	3.4	1.81
Job leavers	1,162	1,123	21.1	7.9	74.2	40.4	17.0	3.9	1.65
Reentrants	1,997	1,968	16.4	7.9	70.7	35.1	15.7	7.6	1.53
New entrants	585	581	14.5	3.6	76.4	31.6	20.0	4.6	1.51
Men, 16 years and over	3,248	2,798	22.7	8.7	76.3	35.4	23.2	4.9	1.71
Job losers ¹	1,719	1,301	25.8	10.6	77.4	37.8	26.1	3.9	1.82
Job leavers	556	536	26.4	6.0	74.2	35.8	24.1	2.7	1.69
Reentrants	701	689	16.6	9.6	74.5	32.3	18.3	9.4	1.61
New entrants	272	272	16.2	3.1	80.3	31.6	20.0	2.6	1.54
Women, 16 years and over	3,081	2,791	17.9	7.5	71.6	40.7	15.1	5.3	1.58
Job losers ¹	867	616	25.1	8.5	74.5	49.9	18.8	2.4	1.79
Job leavers	606	587	16.4	9.6	74.2	44.6	10.4	5.0	1.60
Reentrants	1,296	1,278	16.3	7.0	68.6	36.6	14.2	6.6	1.49
New entrants	313	309	13.1	3.9	73.0	31.6	20.0	6.4	1.48

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. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
All industries	115,474	117,498	63,742	64,344	51,732	53,154
16 to 19 years	6,516	6,345	3,340	3,231	3,176	3,114
16 to 17 years	2,519	2,412	1,327	1,192	1,192	1,220
18 to 19 years	3,996	3,933	2,013	2,039	1,983	1,894
20 to 24 years	13,171	12,746	6,929	6,644	6,242	6,102
25 to 54 years	81,046	83,511	44,928	46,008	36,118	37,503
25 to 34 years	33,730	34,399	18,955	19,155	14,774	15,244
35 to 44 years	28,713	29,644	15,724	16,189	12,989	13,455
45 to 54 years	18,604	19,469	10,249	10,665	8,355	8,804
55 to 64 years	11,514	11,568	6,602	6,578	4,912	4,990
55 to 59 years	6,918	6,882	3,942	3,907	2,974	2,975
60 to 64 years	4,598	4,686	2,660	2,671	1,938	2,015
65 years and over	3,227	3,328	1,943	1,883	1,284	1,445
Agriculture	3,250	3,329	2,565	2,598	685	731
16 to 19 years	282	209	240	179	42	30
16 to 17 years	121	97	101	85	19	12
18 to 19 years	161	111	138	94	23	17
20 to 24 years	336	378	281	304	55	74
25 to 54 years	1,892	2,015	1,450	1,523	442	491
25 to 34 years	819	852	652	664	166	188
35 to 44 years	619	698	452	525	167	173
45 to 54 years	455	464	346	334	108	130
55 to 64 years	448	448	347	357	101	91
55 to 59 years	254	242	194	187	60	54
60 to 64 years	194	207	153	170	41	37
65 years and over	291	279	247	235	44	44
Nonagricultural industries	112,225	114,169	61,177	61,746	51,048	52,423
16 to 19 years	6,234	6,136	3,100	3,052	3,133	3,084
16 to 17 years	2,399	2,315	1,226	1,107	1,173	1,208
18 to 19 years	3,835	3,821	1,875	1,945	1,960	1,877
20 to 24 years	12,835	12,368	6,648	6,340	6,186	6,028
25 to 54 years	79,154	81,497	43,477	44,485	35,677	37,012
25 to 34 years	32,911	33,547	18,303	18,491	14,608	15,056
35 to 44 years	28,094	28,945	15,272	15,664	12,822	13,282
45 to 54 years	18,149	19,005	9,902	10,330	8,247	8,675
55 to 64 years	11,066	11,120	6,255	6,221	4,811	4,898
55 to 59 years	6,662	6,641	3,748	3,720	2,913	2,921
60 to 64 years	4,404	4,479	2,507	2,501	1,898	1,978
65 years and over	2,936	3,048	1,696	1,648	1,240	1,401

**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. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
Total	115,474	117,498	63,742	64,344	60,402	61,113	51,732	53,154	48,556	50,040
Managerial and professional specialty	29,537	30,493	16,395	16,616	16,316	16,531	13,142	13,877	13,035	13,751
Executive, administrative, and managerial	14,302	14,882	8,714	8,975	8,672	8,936	5,588	5,907	5,531	5,856
Officials and administrators, public administration	567	586	332	319	332	319	235	267	235	265
Other executive, administrative, and managerial	10,063	10,503	6,556	6,715	6,519	6,677	3,507	3,788	3,460	3,753
Management-related occupations	3,672	3,793	1,827	1,940	1,820	1,940	1,845	1,852	1,836	1,838
Professional specialty	15,235	15,611	7,681	7,641	7,644	7,595	7,554	7,970	7,504	7,895
Engineers	1,849	1,775	1,734	1,638	1,729	1,637	115	137	115	133
Mathematical and computer scientists	745	881	479	579	479	576	266	302	264	298
Natural scientists	395	393	312	291	312	291	83	102	83	102
Health diagnosing occupations	912	846	730	702	730	700	182	144	181	144
Health assessment and treating occupations	2,163	2,247	312	333	311	334	1,851	1,913	1,848	1,911
Teachers, college and university	723	709	441	441	437	439	282	268	283	261
Teachers, except college and university	3,833	4,020	1,019	989	1,016	984	2,814	3,031	2,789	3,007
Lawyers and judges	765	797	639	639	639	639	126	158	126	158
Other professional specialty occupations	3,850	3,943	2,014	2,028	1,991	1,995	1,836	1,915	1,814	1,880
Technical, sales, and administrative support	35,509	35,728	12,463	12,480	11,886	11,846	23,046	23,248	21,334	21,557
Technicians and related support	3,676	3,486	1,918	1,776	1,889	1,762	1,758	1,711	1,731	1,687
Health technologists and technicians	1,307	1,258	230	233	226	233	1,077	1,025	1,063	1,017
Engineering and science technicians	1,196	1,068	952	837	935	824	244	232	234	224
Technicians, except health, engineering, and science	1,174	1,160	736	706	729	704	438	454	435	446
Sales occupations	13,575	13,939	6,879	7,058	6,512	6,674	6,696	6,882	5,686	5,838
Supervisors and proprietors	3,623	3,869	2,342	2,504	2,329	2,481	1,281	1,365	1,232	1,347
Sales representatives, finance and business services	2,413	2,289	1,427	1,301	1,413	1,280	986	988	946	958
Sales representatives, commodities, except retail	1,579	1,583	1,245	1,287	1,232	1,268	333	296	329	296
Sales workers, retail and personal services	5,900	6,135	1,850	1,948	1,529	1,627	4,050	4,187	3,139	3,195
Sales-related occupations	61	63	15	18	9	18	46	46	39	41
Administrative support, including clerical	18,259	18,302	3,667	3,646	3,485	3,410	14,592	14,656	13,917	14,032
Supervisors	741	765	331	296	328	293	410	470	408	468
Computer equipment operators	861	858	296	326	288	315	565	531	531	499
Secretaries, stenographers, and typists	4,736	4,620	91	73	84	71	4,645	4,547	4,476	4,386
Financial records processing	2,520	2,429	221	220	203	216	2,299	2,209	2,242	2,173
Mail and message distributing	981	898	616	565	592	548	364	333	343	309
Other administrative support, including clerical	8,420	8,732	2,112	2,166	1,990	1,967	6,308	6,567	5,916	6,197
Service occupations	15,223	15,626	6,069	6,115	5,180	5,178	9,153	9,511	8,090	8,499
Private household	851	778	16	31	10	23	835	747	731	656
Protective service	1,971	1,983	1,697	1,641	1,656	1,595	274	342	267	326
Service, except private household and protective	12,400	12,864	4,356	4,442	3,514	3,560	8,045	8,422	7,091	7,516
Food service	5,233	5,441	2,019	2,157	1,412	1,470	3,213	3,284	2,551	2,664
Health service	1,888	2,046	177	182	165	171	1,711	1,864	1,624	1,769
Cleaning and building service	3,005	3,066	1,761	1,693	1,586	1,563	1,244	1,373	1,163	1,317
Personal service	2,275	2,311	398	411	351	355	1,877	1,901	1,753	1,767
Precision production, craft, and repair	13,514	13,838	12,333	12,624	12,045	12,294	1,181	1,213	1,138	1,178
Mechanics and repairers	4,281	4,507	4,149	4,359	4,053	4,247	132	147	132	148
Construction trades	5,145	5,247	5,038	5,137	4,891	4,976	107	110	101	105
Other precision production, craft, and repair	4,088	4,084	3,146	3,127	3,100	3,072	941	956	906	925
Operators, fabricators, and laborers	18,106	18,158	13,495	13,474	12,324	12,489	4,611	4,684	4,410	4,474
Machine operators, assemblers, and inspectors	8,156	8,349	4,850	4,967	4,625	4,784	3,307	3,382	3,229	3,276
Manufacturing industries	6,781	6,914	3,993	4,046	3,832	3,916	2,788	2,869	2,737	2,796
Durable goods	3,751	3,737	2,587	2,550	2,483	2,475	1,164	1,187	1,147	1,161
Nondurable goods	3,030	3,177	1,406	1,496	1,349	1,441	1,624	1,681	1,590	1,635
Nonmanufacturing industries	1,375	1,435	857	921	793	868	518	514	492	480
Transportation and material moving occupations	5,056	5,129	4,632	4,685	4,498	4,543	425	444	416	437
Motor vehicle operators	3,745	3,826	3,353	3,417	3,244	3,315	392	408	384	402
Other transportation and material moving occupations	1,311	1,303	1,279	1,268	1,254	1,227	32	35	32	35
Handlers, equipment cleaners, helpers, and laborers	4,893	4,681	4,014	3,822	3,200	3,162	879	859	765	761
Construction laborers	899	768	853	757	764	706	46	11	42	10
Other handlers, equipment cleaners, helpers, and laborers	3,994	3,912	3,160	3,065	2,436	2,456	834	847	723	751
Farming, forestry, and fishing	3,586	3,656	2,986	3,035	2,652	2,775	600	621	549	581
Farm operators and managers	1,374	1,355	1,143	1,129	1,129	1,108	231	226	231	222
Other farming, forestry, and fishing occupations	2,212	2,301	1,843	1,907	1,523	1,667	369	395	319	359

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
TOTAL						
Total, 16 years and over (thousands)	115,474	117,498	63,742	64,344	51,732	53,154
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.6	26.0	25.7	25.8	25.4	26.1
Executive, administrative, and managerial	12.4	12.7	13.7	13.9	10.8	11.1
Professional specialty	13.2	13.3	12.1	11.9	14.6	15.0
Technical, sales, and administrative support	30.8	30.4	19.6	19.4	44.5	43.7
Technicians and related support	3.2	3.0	3.0	2.8	3.4	3.2
Sales occupations	11.8	11.9	10.8	11.0	12.9	12.9
Administrative support, including clerical	15.8	15.6	5.8	5.7	28.2	27.6
Service occupations	13.2	13.3	9.5	9.5	17.7	17.9
Private household .....	.7	.7	(¹)	-	1.6	1.4
Protective service	1.7	1.7	2.7	2.6	.5	.6
Service, except private household and protective	10.7	10.9	6.8	6.9	15.6	15.8
Precision production, craft, and repair	11.7	11.8	19.3	19.6	2.3	2.3
Operators, fabricators, and laborers	15.7	15.5	21.2	20.9	8.9	8.8
Machine operators, assemblers, and inspectors	7.1	7.1	7.6	7.7	6.4	6.4
Transportation and material moving occupations	4.4	4.4	7.3	7.3	.8	.8
Handlers, equipment cleaners, helpers, and laborers	4.2	4.0	6.3	5.9	1.7	1.6
Farming, forestry, and fishing	3.1	3.1	4.7	4.7	1.2	1.2
White						
Total, 16 years and over (thousands)	100,177	101,600	55,862	56,289	44,315	45,311
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.7	27.1	26.9	27.1	26.5	27.1
Executive, administrative, and managerial	13.1	13.3	14.5	14.7	11.4	11.5
Professional specialty	13.6	13.8	12.4	12.4	15.1	15.6
Technical, sales, and administrative support	31.0	30.8	19.6	19.6	45.4	44.8
Technicians and related support	3.1	2.9	3.0	2.7	3.3	3.2
Sales occupations	12.3	12.4	11.4	11.5	13.5	13.4
Administrative support, including clerical	15.6	15.5	5.3	5.3	28.6	28.2
Service occupations	12.0	12.0	8.6	8.4	16.3	16.5
Private household .....	.7	.5	(¹)	-	1.5	1.1
Protective service	1.6	1.6	2.5	2.3	.4	.6
Service, except private household and protective	9.8	9.9	6.1	6.0	14.4	14.8
Precision production, craft, and repair	12.1	12.1	20.0	20.1	2.3	2.2
Operators, fabricators, and laborers	14.8	14.6	20.0	19.8	8.2	8.2
Machine operators, assemblers, and inspectors	6.7	6.7	7.3	7.4	5.9	5.8
Transportation and material moving occupations	4.1	4.2	6.8	6.9	.8	.8
Handlers, equipment cleaners, helpers, and laborers	4.0	3.7	5.9	5.5	1.6	1.5
Farming, forestry, and fishing	3.3	3.3	4.9	5.0	1.3	1.3
Black						
Total, 16 years and over (thousands)	11,764	11,956	5,919	5,949	5,845	6,007
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.0	15.6	12.9	12.9	17.1	18.2
Executive, administrative, and managerial	6.8	7.6	6.6	7.0	6.9	8.2
Professional specialty	8.2	8.0	6.4	5.8	10.1	10.1
Technical, sales, and administrative support	28.4	27.5	18.0	16.8	38.9	38.0
Technicians and related support	3.2	2.9	2.7	2.2	3.7	3.6
Sales occupations	7.0	7.7	5.3	5.8	8.6	9.7
Administrative support, including clerical	18.2	16.8	10.0	8.9	26.5	24.7
Service occupations	22.6	23.5	17.1	18.8	28.2	28.1
Private household	1.5	1.7	.1	.1	2.9	3.3
Protective service	2.9	2.9	4.4	4.8	1.4	1.1
Service, except private household and protective	18.2	18.8	12.7	14.0	23.9	23.6
Precision production, craft, and repair	8.5	9.1	15.0	15.9	2.0	2.5
Operators, fabricators, and laborers	23.7	22.5	33.8	32.6	13.4	12.6
Machine operators, assemblers, and inspectors	10.2	10.1	10.7	10.9	9.7	9.4
Transportation and material moving occupations	6.8	6.4	12.2	11.8	1.4	.9
Handlers, equipment cleaners, helpers, and laborers	6.7	6.0	10.9	9.9	2.4	2.2
Farming, forestry, and fishing	1.8	1.8	3.2	3.0	.5	.7

¹ Less than 0.05 percent.

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

(In thousands)

Age and sex	September 1989								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	105,287	1,011	17,513	86,764	8,586	296	1,686	1,523	120
16 to 19 years	6,053	141	258	5,654	67	17	147	40	21
16 to 17 years	2,281	90	57	2,134	25	9	65	21	12
18 to 19 years	3,772	51	202	3,519	42	8	83	20	9
20 to 24 years	12,077	86	1,038	10,953	283	8	293	77	8
25 to 34 years	31,546	164	4,441	26,941	1,936	65	540	293	19
35 to 44 years	26,280	166	5,435	20,679	2,577	88	319	354	26
45 to 54 years	17,061	152	3,871	13,038	1,876	68	205	243	16
55 to 64 years	9,845	169	2,035	7,640	1,243	32	143	290	16
55 to 59 years	5,923	93	1,202	4,627	698	20	82	150	9
60 to 64 years	3,922	76	833	3,013	545	12	61	139	7
65 years and over	2,425	133	434	1,858	603	20	39	226	14
Men, 16 years and over	56,143	148	8,033	47,962	5,552	51	1,305	1,251	41
16 to 19 years	3,000	51	124	2,825	45	7	126	37	16
16 to 17 years	1,085	38	28	1,019	16	6	57	18	10
18 to 19 years	1,915	13	96	1,807	28	1	69	18	7
20 to 24 years	6,154	12	433	5,709	181	5	232	66	6
25 to 34 years	17,249	26	1,999	15,224	1,234	8	424	236	4
35 to 44 years	14,030	22	2,427	11,580	1,632	3	231	287	7
45 to 54 years	9,130	15	1,868	7,246	1,193	7	150	184	1
55 to 64 years	5,348	9	981	4,357	861	13	107	248	2
55 to 59 years	3,225	5	577	2,643	490	5	60	127	1
60 to 64 years	2,123	4	404	1,714	370	8	47	121	1
65 years and over	1,234	13	201	1,020	407	7	36	194	6
Women, 16 years and over	49,144	863	9,480	38,801	3,034	245	381	272	79
16 to 19 years	3,053	90	135	2,829	22	9	22	4	5
16 to 17 years	1,196	52	29	1,116	9	3	7	3	2
18 to 19 years	1,857	38	106	1,713	13	6	14	1	2
20 to 24 years	5,923	74	604	5,244	102	3	61	11	2
25 to 34 years	14,297	138	2,442	11,717	702	56	116	57	15
35 to 44 years	12,251	144	3,007	9,099	946	85	88	67	19
45 to 54 years	7,931	136	2,003	5,792	683	60	55	60	15
55 to 64 years	4,497	160	1,054	3,283	382	19	36	42	14
55 to 59 years	2,698	88	625	1,985	207	15	22	24	8
60 to 64 years	1,799	72	429	1,299	175	4	13	18	6
65 years and over	1,192	121	233	838	197	13	3	32	9

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	September 1989												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	3,329	68	62	29	16	101	-	15	38	3	58	30	2,908
Mining	699	115	64	25	6	67	-	9	224	23	131	30	2
Construction	7,774	1,007	133	45	66	380	-	39	4,508	126	580	873	16
Manufacturing	21,629	2,613	1,775	670	812	2,458	-	354	3,974	6,914	831	1,145	83
Durable goods	12,774	1,601	1,209	481	339	1,334	-	205	2,764	3,737	463	560	80
Nondurable goods	8,855	1,012	565	189	473	1,123	-	149	1,210	3,177	368	585	3
Transportation and public utilities	8,033	980	439	269	290	2,077	-	217	1,299	129	1,857	458	18
Wholesale and retail trade	24,332	2,052	443	128	10,051	2,492	-	4,529	1,571	333	1,037	1,660	36
Wholesale trade	4,564	475	116	40	1,741	819	-	45	333	137	532	314	11
Retail trade	19,768	1,577	327	88	8,310	1,673	-	4,484	1,237	196	505	1,346	25
Finance, insurance, and real estate	7,875	2,097	210	121	1,798	3,063	-	258	151	40	17	23	98
Services	38,219	4,751	11,676	1,981	880	6,154	778	8,027	1,823	742	551	413	443
Private households	1,017	1	5	8	-	4	778	88	31	3	9	15	75
Other service industries	37,202	4,750	11,670	1,973	880	6,150	-	7,939	1,792	739	542	398	368
Professional services	24,706	2,642	10,340	1,590	125	4,431	-	4,559	376	188	293	74	88
Public administration	5,610	1,199	809	218	20	1,510	-	1,399	251	38	67	49	50

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. 1988	Sept. 1989	Total		Wage and salary workers ¹			
			Sept. 1988	Sept. 1989	Paid absences		Unpaid absences	
					Sept. 1988	Sept. 1989	Sept. 1988	Sept. 1989
Total, 16 years and over	4,810	5,275	4,733	5,179	2,501	2,688	1,760	1,968
Vacation	2,303	2,738	2,279	2,701	1,678	1,901	413	568
Illness	1,310	1,382	1,293	1,361	549	556	668	687
Bad weather	52	51	46	37	(²)	(²)	(²)	(²)
Industrial dispute	45	95	45	95	(²)	(²)	(²)	(²)
All other reasons	1,099	1,009	1,070	985	274	231	679	713
Men, 16 years and over	2,350	2,688	2,300	2,607	1,262	1,440	770	857
Vacation	1,220	1,523	1,203	1,488	903	1,112	198	235
Illness	642	671	631	655	270	258	316	325
All other reasons ³	489	494	466	464	89	71	256	297
Women, 16 years and over	2,459	2,587	2,433	2,572	1,240	1,248	992	1,110
Vacation	1,083	1,215	1,076	1,214	775	790	216	334
Illness	669	711	662	706	280	298	353	361
All other reasons ³	707	662	694	653	185	159	423	415

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 1989					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	112,223	3,233	108,990	100.0	100.0	100.0
1 to 34 hours	24,796	898	23,898	22.1	27.8	21.9
1 to 4 hours	752	53	698	.7	1.6	.6
5 to 14 hours	4,340	224	4,116	3.9	6.9	3.8
15 to 29 hours	12,530	418	12,112	11.2	12.9	11.1
30 to 34 hours	7,174	203	6,971	6.4	6.3	6.4
35 hours and over	87,428	2,335	85,092	77.9	72.2	78.1
35 to 39 hours	7,267	124	7,144	6.5	3.8	6.6
40 hours	43,999	660	43,339	39.2	20.4	39.8
41 hours and over	36,161	1,552	34,609	32.2	48.0	31.8
41 to 48 hours	12,389	213	12,175	11.0	6.6	11.2
49 to 59 hours	13,595	431	13,164	12.1	13.3	12.1
60 hours and over	10,177	908	9,270	9.1	28.1	8.5
Average hours, total at work	40.0	44.6	39.9	-	-	-
Average hours, workers on full-time schedules	44.4	52.0	44.2	-	-	-

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 1989					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	24,796	6,262	18,534	23,898	5,963	17,935
Economic reasons	4,487	1,619	2,868	4,229	1,509	2,720
Slack work	2,097	1,220	877	1,935	1,125	810
Material shortages or repairs to plant and equipment	62	62	-	62	62	-
New job started during week	223	223	-	211	211	-
Job terminated during week	114	114	-	111	111	-
Could find only part-time work	1,991	-	1,991	1,910	-	1,910
Other reasons	20,309	4,643	15,666	19,669	4,454	15,215
Does not want, or unavailable for, full-time work	13,124	-	13,124	12,786	-	12,786
Vacation	1,262	1,262	-	1,249	1,249	-
Illness	1,455	1,342	113	1,404	1,304	100
Bad weather	367	367	-	289	289	-
Industrial dispute	11	11	-	11	11	-
Legal or religious holiday	86	86	-	86	86	-
Full time for this job	1,783	-	1,783	-	-	1,745
All other reasons	2,219	1,574	645	2,099	1,515	584
Average hours:						
Economic reasons	22.2	24.1	21.1	22.3	24.2	21.2
Other reasons	21.1	26.0	19.6	21.1	26.2	19.7
Worked 30 to 34 hours:						
Economic reasons	1,477	705	772	1,422	672	750
Other reasons	5,698	2,527	3,171	5,549	2,450	3,099

**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 1989								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	108,990	4,229	15,215	89,546	54,937	12,175	22,434	39.9	44.2
Wage and salary workers	100,583	3,709	13,691	83,183	52,119	11,566	19,497	39.8	43.9
Mining	639	14	11	614	308	98	207	46.1	47.3
Construction	6,080	358	224	5,499	3,537	698	1,264	41.4	43.5
Manufacturing	20,208	383	679	19,146	11,617	3,188	4,342	42.8	43.9
Durable goods	11,948	140	251	11,558	6,957	1,927	2,673	43.3	44.0
Nondurable goods	8,260	243	428	7,589	4,659	1,260	1,669	42.0	43.8
Transportation and public utilities	7,192	135	375	6,681	4,058	868	1,756	43.2	44.9
Wholesale and retail trade	21,444	1,175	5,133	15,137	8,714	2,322	4,102	37.5	44.5
Finance, insurance, and real estate	6,904	135	687	6,082	4,036	763	1,283	40.3	42.9
Service industries	32,777	1,465	6,318	24,995	16,191	3,079	5,726	37.9	43.6
Private households	977	196	440	340	209	36	96	25.5	46.3
All other industries	31,800	1,268	5,878	24,654	15,982	3,042	5,630	38.3	43.5
Public administration	5,339	46	264	5,029	3,660	551	818	41.3	42.6
Self-employed workers	8,111	503	1,367	6,240	2,745	586	2,909	41.8	48.6
Unpaid family workers	296	17	157	123	72	23	28	31.7	44.0

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 1989							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Total, 16 years and over	108,990	4,229	15,215	89,546	54,937	34,609	39.9	44.2
16 to 19 years	5,975	457	3,471	2,047	1,565	482	25.4	40.7
16 to 17 years	2,252	72	1,980	199	173	26	17.7	37.7
18 to 19 years	3,723	385	1,491	1,847	1,392	456	30.1	41.0
20 years and over	103,015	3,772	11,744	87,499	53,372	34,127	40.7	44.3
20 to 24 years	11,897	669	2,059	9,169	6,333	2,837	37.6	42.6
25 years and over	91,119	3,104	9,685	78,330	47,039	31,291	41.2	44.5
25 to 44 years	59,910	2,014	5,329	52,567	30,950	21,617	41.8	44.6
45 to 64 years	28,364	949	2,982	24,433	15,184	9,249	41.1	44.3
65 years and over	2,845	140	1,375	1,329	903	426	29.4	42.7
Men, 16 years and over	59,139	1,847	4,342	52,950	28,678	24,273	43.0	45.7
16 to 19 years	2,984	215	1,571	1,198	878	319	27.2	41.4
16 to 17 years	1,085	27	924	133	109	25	18.8	38.6
18 to 19 years	1,899	188	647	1,064	770	295	32.0	41.7
20 years and over	56,154	1,631	2,770	51,753	27,800	23,953	43.9	45.8
20 to 24 years	6,117	318	789	5,010	3,195	1,815	39.6	43.8
25 years and over	50,037	1,314	1,981	46,742	24,605	22,138	44.4	46.0
25 to 44 years	32,891	879	677	31,335	15,954	15,381	45.1	46.3
45 to 64 years	15,612	378	606	14,628	8,172	6,456	44.2	45.7
65 years and over	1,535	57	699	779	480	300	31.4	43.8
Women, 16 years and over	49,851	2,383	10,873	36,595	26,259	10,336	36.2	41.9
16 to 19 years	2,991	242	1,900	849	687	162	23.7	39.8
16 to 17 years	1,167	45	1,056	66	65	1	16.7	(¹)
18 to 19 years	1,823	197	843	783	622	161	28.1	40.1
20 years and over	46,861	2,141	8,973	35,747	25,572	10,174	37.0	42.0
20 to 24 years	5,780	351	1,270	4,159	3,138	1,021	35.4	41.2
25 years and over	41,081	1,790	7,704	31,588	22,435	9,153	37.2	42.1
25 to 44 years	27,020	1,135	4,651	21,234	14,999	6,235	37.7	42.1
45 to 64 years	12,752	570	2,376	9,806	7,014	2,792	37.3	42.1
65 years and over	1,309	83	676	550	423	126	27.1	41.2
RACE								
White, 16 years and over	94,039	3,404	13,555	77,081	45,814	31,267	40.1	44.4
Men	51,606	1,498	3,807	46,301	24,208	22,092	43.3	46.0
Women	42,434	1,906	9,748	30,780	21,606	9,175	36.1	42.1
Black, 16 years and over	11,216	680	1,119	9,417	7,028	2,389	38.8	42.2
Men	5,548	295	337	4,915	3,370	1,545	41.0	43.5
Women	5,668	385	781	4,502	3,658	844	36.7	40.8
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,519	743	1,361	35,416	18,238	17,177	44.8	46.2
Widowed, divorced, or separated	6,388	296	301	5,791	3,139	2,652	43.7	46.0
Single (never married)	15,231	808	2,679	11,744	7,301	4,443	38.4	44.1
Women, 16 years and over:								
Married, spouse present	27,476	1,122	6,304	20,050	14,644	5,406	36.1	41.7
Widowed, divorced, or separated	10,156	568	1,361	8,227	5,654	2,573	38.3	42.4
Single (never married)	12,220	693	3,209	8,318	5,962	2,357	34.6	42.0

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	September 1989								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over ¹	108,681	4,202	15,147	89,332	54,725	12,156	22,451	39.9	44.2
Managerial and professional specialty	29,318	473	2,691	26,154	13,519	3,539	9,096	43.2	45.9
Executive, administrative, and managerial	14,306	170	725	13,411	6,454	1,771	5,186	45.1	46.7
Professional specialty	15,012	303	1,967	12,743	7,065	1,768	3,910	41.3	45.1
Technical, sales, and administrative support	34,059	1,118	6,326	26,615	17,588	3,514	5,513	38.1	43.1
Technicians and related support	3,290	62	390	2,838	1,942	381	516	39.5	42.5
Sales occupations	13,288	597	2,864	9,827	4,920	1,358	3,549	39.5	46.2
Administrative support, including clerical	17,481	459	3,072	13,950	10,726	1,776	1,448	36.9	41.0
Service occupations	14,893	1,254	4,185	9,455	6,771	1,091	1,593	34.3	42.8
Private household	750	133	341	276	180	28	68	26.3	45.6
Protective service	1,873	38	181	1,654	968	279	406	42.8	45.9
Service, except private household and protective	12,271	1,083	3,663	7,525	5,622	783	1,119	33.5	42.0
Precision production, craft, and repair	13,137	523	427	12,187	7,436	1,784	2,968	42.5	44.1
Operators, fabricators, and laborers	17,272	834	1,517	14,921	9,411	2,229	3,281	41.0	44.0
Machine operators, assemblers, and inspectors	7,959	288	377	7,295	4,892	1,152	1,250	41.3	43.0
Transportation and material moving occupations	4,857	187	416	4,255	2,142	585	1,528	43.9	47.1
Handlers, equipment cleaners, helpers, and laborers	4,456	360	725	3,371	2,377	491	503	37.1	42.5
Men, 16 years and over ¹	58,718	1,810	4,238	52,670	28,426	7,439	16,805	43.1	45.8
Managerial and professional specialty	16,024	211	713	15,100	6,604	1,953	6,544	46.2	47.8
Executive, administrative, and managerial	8,657	87	266	8,304	3,400	1,038	3,866	47.2	48.3
Professional specialty	7,367	124	447	6,796	3,204	915	2,678	44.9	47.1
Technical, sales, and administrative support	11,958	248	1,153	10,556	5,372	1,568	3,617	43.0	46.1
Technicians and related support	1,675	27	107	1,541	979	218	344	42.0	43.8
Sales occupations	6,778	136	643	5,998	2,401	866	2,731	45.0	48.2
Administrative support, including clerical	3,504	84	403	3,017	1,992	484	541	39.6	42.9
Service occupations	5,890	335	1,135	4,419	2,960	530	929	37.9	44.0
Private household	31	10	9	12	8	3	1	(²)	(²)
Protective service	1,549	31	108	1,409	814	217	379	44.0	46.3
Service, except private household and protective	4,310	294	1,018	2,998	2,138	310	550	35.9	43.0
Precision production, craft, and repair	12,001	465	302	11,235	6,767	1,647	2,821	42.8	44.3
Operators, fabricators, and laborers	12,846	552	935	11,360	6,723	1,741	2,895	42.1	44.9
Machine operators, assemblers, and inspectors	4,772	108	133	4,531	2,783	780	969	43.0	44.1
Transportation and material moving occupations	4,437	149	258	4,030	1,990	566	1,474	45.0	47.4
Handlers, equipment cleaners, helpers, and laborers	3,638	295	544	2,799	1,951	395	453	37.5	42.7
Women, 16 years and over ¹	49,963	2,392	10,909	36,662	26,299	4,717	5,646	36.2	41.9
Managerial and professional specialty	13,294	262	1,978	11,054	6,915	1,586	2,552	39.5	43.4
Executive, administrative, and managerial	5,649	83	459	5,107	3,054	733	1,320	41.9	44.0
Professional specialty	7,645	179	1,520	5,947	3,862	853	1,232	37.8	42.9
Technical, sales, and administrative support	22,102	870	5,173	16,059	12,216	1,947	1,896	35.5	41.1
Technicians and related support	1,615	35	283	1,297	963	163	171	37.0	40.8
Sales occupations	6,510	461	2,221	3,828	2,519	492	817	33.7	43.0
Administrative support, including clerical	13,977	374	2,669	10,934	8,734	1,292	908	36.2	40.5
Service occupations	9,004	919	3,050	5,036	3,811	561	664	31.9	41.7
Private household	719	123	332	264	172	25	67	26.4	45.6
Protective service	324	7	73	244	154	63	28	36.9	43.3
Service, except private household and protective	7,961	789	2,645	4,527	3,484	473	570	32.2	41.4
Precision production, craft, and repair	1,137	59	126	952	669	137	147	38.4	41.8
Operators, fabricators, and laborers	4,426	282	582	3,562	2,688	488	386	37.5	41.3
Machine operators, assemblers, and inspectors	3,188	180	244	2,764	2,110	373	281	38.7	41.2
Transportation and material moving occupations	421	38	158	225	153	19	54	32.8	42.4
Handlers, equipment cleaners, helpers, and laborers	818	65	181	572	426	96	50	35.1	41.5

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	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Noninstitutional population ¹	186,666	186,801	186,949	187,098	187,340	187,461	187,581	187,708	187,854	187,995	188,149	188,286	188,428
Labor force ¹	123,688	123,778	124,215	124,259	125,124	124,865	124,948	125,343	125,283	125,768	125,622	125,706	125,742
Percent of population ²	66.3	66.3	66.4	66.4	66.8	66.6	66.6	66.8	66.7	66.9	66.8	66.8	66.7
Total employed ¹	117,074	117,260	117,652	117,705	118,407	118,537	118,820	118,797	118,888	119,207	119,125	119,285	119,158
Employment-population ratio ³	62.7	62.8	62.9	62.9	63.2	63.2	63.3	63.3	63.3	63.4	63.3	63.4	63.2
Resident Armed Forces	1,704	1,687	1,705	1,696	1,696	1,684	1,684	1,684	1,673	1,666	1,666	1,688	1,702
Civilian employed	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456
Agriculture	3,176	3,238	3,238	3,193	3,300	3,223	3,206	3,104	3,112	3,096	3,219	3,307	3,257
Nonagricultural industries	112,194	112,335	112,709	112,816	113,411	113,630	113,930	114,009	114,102	114,445	114,240	114,290	114,199
Unemployed	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497	6,421	6,584
Unemployment rate ⁴	5.3	5.3	5.3	5.3	5.4	5.1	4.9	5.2	5.1	5.2	5.2	5.1	5.2
Not in labor force	62,978	63,023	62,734	62,839	62,216	62,596	62,633	62,365	62,571	62,228	62,527	62,580	62,686
Men													
Noninstitutional population ¹	89,577	89,637	89,716	89,792	89,914	89,973	90,032	90,094	90,167	90,237	90,315	90,384	90,456
Labor force ¹	68,604	68,569	68,686	68,638	69,032	69,113	69,190	69,360	69,114	69,507	69,245	69,337	69,272
Percent of population ²	76.6	76.5	76.6	76.4	76.8	76.8	76.9	77.0	76.7	77.0	76.7	76.7	76.6
Total employed ¹	65,015	64,976	65,074	65,055	65,322	65,572	65,920	65,767	65,713	66,110	65,961	65,934	65,601
Employment-population ratio ³	72.6	72.5	72.5	72.5	72.6	72.9	73.2	73.0	72.9	73.3	73.0	72.9	72.5
Resident Armed Forces	1,540	1,526	1,542	1,534	1,532	1,521	1,521	1,521	1,511	1,501	1,499	1,519	1,531
Civilian employed	63,475	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609	64,462	64,415	64,070
Unemployed	3,589	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397	3,284	3,403	3,672
Unemployment rate ⁴	5.2	5.2	5.3	5.2	5.4	5.1	4.7	5.2	4.9	4.9	4.7	4.9	5.3
Not in labor force	20,973	21,068	21,030	21,154	20,882	20,860	20,842	20,734	21,053	20,730	21,070	21,047	21,184
Women													
Noninstitutional population ¹	97,089	97,164	97,234	97,306	97,427	97,488	97,550	97,614	97,687	97,758	97,834	97,902	97,972
Labor force ¹	55,084	55,209	55,529	55,621	56,091	55,752	55,758	55,983	56,169	56,261	56,377	56,370	56,470
Percent of population ²	56.7	56.8	57.1	57.2	57.6	57.2	57.2	57.4	57.5	57.6	57.6	57.6	57.6
Total employed ¹	52,059	52,284	52,578	52,650	53,085	52,965	52,900	53,029	53,175	53,097	53,164	53,352	53,557
Employment-population ratio ³	53.6	53.8	54.1	54.1	54.5	54.3	54.2	54.3	54.4	54.3	54.3	54.5	54.7
Resident Armed Forces	164	161	163	162	164	163	163	163	162	165	167	169	171
Civilian employed	51,895	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932	52,997	53,183	53,386
Unemployed	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164	3,213	3,018	2,912
Unemployment rate ⁴	5.5	5.3	5.3	5.3	5.4	5.0	5.1	5.3	5.3	5.6	5.7	5.4	5.2
Not in labor force	42,005	41,955	41,705	41,685	41,336	41,736	41,792	41,631	41,518	41,497	41,457	41,532	41,502

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	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Civilian noninstitutional population ¹	184,962	185,114	185,244	185,402	185,644	185,777	185,897	186,024	186,181	186,329	186,483	186,598	186,726
Civilian labor force	121,984	122,091	122,510	122,563	123,428	123,181	123,264	123,659	123,610	124,102	123,956	124,018	124,040
Percent of population	66.0	66.0	66.1	66.1	66.5	66.3	66.3	66.5	66.4	66.6	66.5	66.5	66.4
Employed	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456
Employment-population ratio ²	62.4	62.4	62.6	62.6	62.9	62.9	63.0	63.0	63.0	63.1	63.0	63.0	62.9
Unemployed	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497	6,421	6,584
Unemployment rate	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2	5.2	5.3
Men, 20 years and over													
Civilian noninstitutional population ¹	80,751	80,851	80,924	81,001	81,162	81,256	81,333	81,413	81,524	81,592	81,679	81,754	81,790
Civilian labor force	62,884	62,915	62,995	63,002	63,358	63,490	63,557	63,709	63,503	63,831	63,656	63,643	63,721
Percent of population	77.9	77.8	77.8	77.8	78.1	78.1	78.1	78.3	77.9	78.2	77.9	77.8	77.9
Employed	59,979	60,004	59,999	60,049	60,420	60,636	60,869	60,757	60,798	61,093	60,921	60,853	60,683
Employment-population ratio ²	74.3	74.2	74.1	74.1	74.4	74.6	74.8	74.6	74.6	74.9	74.6	74.4	74.2
Agriculture	2,249	2,315	2,313	2,292	2,277	2,320	2,317	2,252	2,284	2,256	2,342	2,364	2,339
Nonagricultural industries	57,730	57,689	57,686	57,757	58,143	58,316	58,552	58,505	58,514	58,837	58,579	58,489	58,344
Unemployed	2,905	2,911	2,996	2,953	2,938	2,853	2,688	2,952	2,705	2,737	2,734	2,790	3,038
Unemployment rate	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3	4.3	4.4	4.8
Not in labor force	17,867	17,936	17,929	17,999	17,804	17,766	17,776	17,704	18,021	17,761	18,023	18,111	18,069
Women, 20 years and over													
Civilian noninstitutional population ¹	89,735	89,807	89,887	89,954	90,072	90,153	90,242	90,318	90,432	90,526	90,607	90,684	90,771
Civilian labor force	50,991	51,201	51,558	51,587	51,998	51,821	51,851	51,992	52,171	52,231	52,463	52,373	52,443
Percent of population	56.8	57.0	57.4	57.3	57.7	57.5	57.5	57.6	57.7	57.7	57.9	57.8	57.8
Employed	48,535	48,788	49,113	49,165	49,543	49,514	49,484	49,544	49,690	49,661	49,850	49,905	50,089
Employment-population ratio ²	54.1	54.3	54.6	54.7	55.0	54.9	54.8	54.9	54.9	54.9	55.0	55.0	55.2
Agriculture	638	640	640	646	715	666	664	615	628	610	627	644	701
Nonagricultural industries	47,897	48,148	48,473	48,519	48,827	48,849	48,819	48,929	49,062	49,051	49,223	49,261	49,388
Unemployed	2,456	2,413	2,445	2,422	2,455	2,306	2,367	2,448	2,480	2,570	2,613	2,468	2,353
Unemployment rate	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9	5.0	4.7	4.5
Not in labor force	38,744	38,606	38,329	38,367	38,074	38,332	38,391	38,326	38,261	38,295	38,144	38,311	38,328
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,477	14,456	14,433	14,447	14,410	14,367	14,323	14,293	14,224	14,211	14,196	14,160	14,166
Civilian labor force	8,109	7,975	7,957	7,974	8,071	7,871	7,856	7,958	7,936	8,040	7,837	8,003	7,876
Percent of population	56.0	55.2	55.1	55.2	56.0	54.8	54.9	55.7	55.8	56.6	55.2	56.5	55.6
Employed	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786	6,687	6,840	6,683
Employment-population ratio ²	47.4	46.9	47.4	47.0	46.8	46.7	47.4	47.7	47.3	47.8	47.1	48.3	47.2
Agriculture	289	283	285	255	307	237	224	237	200	230	249	300	216
Nonagricultural industries	6,567	6,498	6,550	6,540	6,441	6,466	6,559	6,575	6,526	6,556	6,438	6,540	6,467
Unemployed	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254	1,150	1,163	1,193
Unemployment rate	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7	14.5	15.1
Not in labor force	6,368	6,481	6,476	6,473	6,339	6,496	6,467	6,335	6,288	6,171	6,359	6,157	6,290

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: The corrected May 1989 seasonal adjustment factor for unemployed men, 20 years and over is .962.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
WHITE													
Civilian noninstitutional population ¹	158,422	158,524	158,603	158,705	158,865	158,947	159,020	159,098	159,200	159,297	159,400	159,470	159,549
Civilian labor force	105,036	105,051	105,395	105,411	106,106	105,798	105,988	106,312	106,164	106,455	106,424	106,446	106,325
Percent of population	66.3	66.3	66.5	66.4	66.8	66.6	66.7	66.8	66.7	66.8	66.8	66.8	66.6
Employed	100,058	100,199	100,543	100,567	101,183	101,278	101,554	101,458	101,465	101,693	101,581	101,670	101,535
Employment-population ratio ²	63.2	63.2	63.4	63.4	63.7	63.7	63.9	63.8	63.7	63.8	63.7	63.8	63.6
Unemployed	4,978	4,852	4,852	4,844	4,923	4,521	4,434	4,854	4,699	4,762	4,843	4,777	4,791
Unemployment rate	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5	4.6	4.5	4.5
Men, 20 years and over													
Civilian labor force	54,839	54,861	54,922	54,898	55,213	55,308	55,382	55,448	55,249	55,557	55,437	55,377	55,413
Percent of population	78.3	78.3	78.3	78.2	78.5	78.6	78.6	78.7	78.3	78.7	78.4	78.3	78.3
Employed	52,579	52,612	52,624	52,636	53,007	53,197	53,387	53,246	53,248	53,500	53,343	53,282	53,097
Employment-population ratio ²	75.1	75.1	75.0	75.0	75.4	75.6	75.8	75.5	75.5	75.8	75.5	75.3	75.0
Unemployed	2,260	2,249	2,298	2,262	2,205	2,111	1,995	2,202	2,001	2,057	2,094	2,095	2,316
Unemployment rate	4.1	4.1	4.2	4.1	4.0	3.8	3.6	4.0	3.6	3.7	3.8	3.8	4.2
Women, 20 years and over													
Civilian labor force	43,191	43,298	43,625	43,644	43,936	43,770	43,780	44,016	44,084	44,050	44,302	44,169	44,192
Percent of population	56.4	56.5	56.9	56.9	57.2	56.9	56.9	57.2	57.2	57.1	57.4	57.2	57.2
Employed	41,413	41,583	41,889	41,930	42,201	42,177	42,115	42,207	42,282	42,236	42,411	42,372	42,527
Employment-population ratio ²	54.1	54.2	54.6	54.6	54.9	54.8	54.7	54.8	54.9	54.8	55.0	54.9	55.0
Unemployed	1,778	1,715	1,736	1,714	1,734	1,593	1,665	1,810	1,803	1,814	1,891	1,798	1,665
Unemployment rate	4.1	4.0	4.0	3.9	3.9	3.6	3.8	4.1	4.1	4.1	4.3	4.1	3.8
Both sexes, 16 to 19 years													
Civilian labor force	7,006	6,892	6,848	6,869	6,958	6,720	6,826	6,848	6,831	6,848	6,685	6,900	6,720
Percent of population	59.4	58.5	58.3	58.6	59.6	57.7	58.7	59.0	59.0	59.2	57.9	60.0	58.6
Employed	6,066	6,004	6,030	6,001	5,975	5,904	6,052	6,005	5,936	5,957	5,827	6,016	5,910
Employment-population ratio ²	51.4	51.0	51.3	51.2	51.1	50.7	52.1	51.8	51.3	51.5	50.5	52.3	51.6
Unemployed	940	888	818	868	983	816	774	843	895	891	858	884	810
Unemployment rate	13.4	12.9	11.9	12.6	14.1	12.1	11.3	12.3	13.1	13.0	12.8	12.8	12.1
Men	14.5	14.4	12.6	13.4	16.4	14.0	12.3	13.1	14.8	13.4	12.4	12.9	13.3
Women	12.3	11.3	11.3	11.8	11.7	10.2	10.2	11.5	11.2	12.6	13.4	12.7	10.8
BLACK													
Civilian noninstitutional population ¹	20,762	20,786	20,811	20,842	20,877	20,905	20,930	20,956	20,986	21,012	21,038	21,060	21,085
Civilian labor force	13,201	13,290	13,330	13,405	13,477	13,476	13,425	13,287	13,444	13,600	13,555	13,448	13,515
Percent of population	63.6	63.9	64.1	64.3	64.6	64.5	64.1	63.4	64.1	64.7	64.4	63.9	64.1
Employed	11,758	11,807	11,831	11,856	11,860	11,873	11,961	11,846	11,968	11,982	12,082	11,958	11,940
Employment-population ratio ²	56.6	56.8	56.8	56.9	56.8	56.8	57.1	56.5	57.0	57.0	57.4	56.8	56.6
Unemployed	1,443	1,483	1,499	1,549	1,617	1,603	1,464	1,442	1,476	1,618	1,473	1,490	1,574
Unemployment rate	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9	10.9	11.1	11.6
Men, 20 years and over													
Civilian labor force	6,117	6,157	6,146	6,179	6,226	6,199	6,230	6,171	6,207	6,200	6,205	6,189	6,247
Percent of population	74.2	74.6	74.3	74.6	75.0	74.6	74.8	74.0	74.3	74.1	74.1	73.8	74.7
Employed	5,563	5,566	5,545	5,561	5,576	5,549	5,620	5,554	5,622	5,619	5,629	5,580	5,620
Employment-population ratio ²	67.5	67.4	67.1	67.1	67.2	66.7	67.5	66.6	67.3	67.2	67.2	66.6	67.2
Unemployed	554	591	601	618	650	650	611	617	586	581	576	609	627
Unemployment rate	9.1	9.6	9.8	10.0	10.4	10.5	9.8	10.0	9.4	9.4	9.3	9.8	10.0
Women, 20 years and over													
Civilian labor force	6,174	6,234	6,280	6,316	6,369	6,349	6,315	6,227	6,340	6,405	6,394	6,359	6,356
Percent of population	59.8	60.2	60.6	60.9	61.2	61.0	60.5	59.6	60.6	61.2	61.0	60.5	60.4
Employed	5,575	5,620	5,663	5,654	5,706	5,697	5,739	5,677	5,740	5,732	5,759	5,762	5,748
Employment-population ratio ²	54.0	54.3	54.6	54.5	54.9	54.7	55.0	54.3	54.9	54.7	54.9	54.9	54.6
Unemployed	599	614	617	662	663	651	576	550	600	674	635	597	607
Unemployment rate	9.7	9.8	9.8	10.5	10.4	10.3	9.1	8.8	9.5	10.5	9.9	9.4	9.6

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	910	899	904	910	881	928	880	889	897	994	956	900	912
Percent of population	41.7	41.2	41.5	41.7	40.5	42.7	40.5	40.9	41.3	45.7	44.0	41.4	41.5
Employed	620	621	623	641	577	627	602	615	606	631	694	616	572
Employment-population ratio ²	28.4	28.5	28.6	29.4	26.5	28.8	27.7	28.3	27.9	29.0	31.9	28.3	26.0
Unemployed	290	278	281	269	304	301	278	274	291	363	262	284	340
Unemployment rate	31.9	30.9	31.1	29.6	34.5	32.4	31.6	30.8	32.4	36.5	27.4	31.6	37.3
Men	31.9	32.8	32.1	29.8	36.7	33.1	28.6	35.5	36.9	33.5	22.1	30.0	34.1
Women	31.9	28.6	29.9	29.3	32.0	31.6	34.8	26.2	28.4	40.2	33.1	33.4	40.3
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	13,419	13,458	13,495	13,533	13,564	13,606	13,849	13,690	13,731	13,772	13,813	13,853	13,894
Civilian labor force	9,061	9,075	9,148	9,133	9,205	9,219	9,210	9,262	9,428	9,272	9,433	9,364	9,326
Percent of population	67.5	67.4	67.8	67.5	67.9	67.8	67.5	67.7	68.7	67.3	68.3	67.6	67.1
Employed	8,376	8,368	8,419	8,441	8,434	8,596	8,607	8,495	8,686	8,524	8,587	8,521	8,550
Employment-population ratio ²	62.4	62.2	62.4	62.4	62.2	63.2	63.1	62.1	63.3	61.9	62.2	61.5	61.5
Unemployed	683	707	729	692	771	624	603	767	742	748	846	843	776
Unemployment rate	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1	9.0	9.0	8.3

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	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456
Married men, spouse present	40,513	40,504	40,407	40,483	40,925	40,928	41,083	40,890	40,902	41,102	41,089	40,636	40,572
Married women, spouse present	28,836	28,890	28,995	29,053	29,589	29,412	29,569	29,656	29,739	29,481	29,552	29,220	29,461
Women who maintain families	6,253	6,344	6,375	6,399	6,416	6,385	6,256	6,243	6,331	6,403	6,456	6,342	6,437
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,612	1,661	1,672	1,698	1,684	1,645	1,656	1,554	1,610	1,550	1,695	1,803	1,671
Self-employed workers	1,421	1,405	1,450	1,349	1,387	1,419	1,403	1,419	1,358	1,412	1,434	1,420	1,441
Unpaid family workers	137	177	125	149	189	150	138	124	127	126	126	137	135
Nonagricultural industries:													
Wage and salary workers	103,501	103,733	103,770	103,904	104,510	104,797	104,982	104,985	105,245	105,519	105,321	105,259	105,355
Government	17,145	17,240	17,387	17,423	17,393	17,311	17,382	17,180	17,230	17,261	17,519	17,591	17,619
Private industries	86,356	86,493	86,383	86,481	87,117	87,486	87,600	87,806	88,015	88,259	87,803	87,668	87,737
Private households	1,119	1,152	1,209	1,210	1,196	1,135	1,163	1,117	1,128	1,140	1,093	1,146	1,054
Other industries	85,237	85,341	85,174	85,271	85,921	86,350	86,437	86,689	86,887	87,118	86,710	86,522	86,682
Self-employed workers	8,570	8,479	8,619	8,602	8,718	8,517	8,645	8,671	8,516	8,570	8,606	8,625	8,569
Unpaid family workers	230	232	300	266	298	285	332	281	322	241	239	264	296
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,097	4,963	5,061	5,321	5,097	4,981	4,968	5,143	4,837	4,957	4,750	4,785	4,882
Slack work	2,266	2,220	2,279	2,549	2,302	2,303	2,232	2,373	2,296	2,318	2,311	2,282	2,330
Could only find part-time work	2,389	2,399	2,375	2,410	2,352	2,333	2,393	2,425	2,343	2,289	2,138	2,107	2,171
Voluntary part time	15,270	15,161	15,446	15,363	15,401	15,126	15,561	15,498	15,316	15,416	15,652	15,614	15,542
Nonagricultural industries:													
Part time for economic reasons	4,862	4,727	4,819	5,033	4,837	4,697	4,709	4,930	4,609	4,801	4,505	4,553	4,612
Slack work	2,102	2,095	2,116	2,377	2,144	2,105	2,048	2,243	2,102	2,190	2,185	2,129	2,174
Could only find part-time work	2,317	2,319	2,288	2,307	2,283	2,272	2,317	2,369	2,301	2,236	2,057	2,024	2,090
Voluntary part time	14,819	14,679	14,986	14,928	14,970	14,688	15,127	15,060	14,976	14,977	15,219	15,094	15,109

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	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456
16 to 24 years	20,050	19,930	19,877	19,852	19,741	19,797	19,996	19,899	19,784	19,959	19,796	19,877	19,457
16 to 19 years	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786	6,687	6,840	6,683
16 to 17 years	2,669	2,689	2,770	2,686	2,602	2,563	2,639	2,639	2,593	2,526	2,439	2,563	2,560
18 to 19 years	4,195	4,090	4,045	4,150	4,125	4,163	4,186	4,177	4,123	4,221	4,244	4,245	4,138
20 to 24 years	13,194	13,149	13,042	13,057	12,993	13,095	13,213	13,088	13,059	13,173	13,109	13,038	12,774
25 years and over	95,332	95,619	96,062	96,151	96,988	97,020	97,125	97,167	97,384	97,602	97,740	97,758	98,010
25 to 54 years	80,697	80,950	81,242	81,399	82,036	82,160	82,165	82,204	82,436	82,721	82,852	83,066	83,178
55 years and over	14,664	14,690	14,790	14,771	14,924	14,803	14,933	14,928	14,948	14,863	14,912	14,727	14,830
Men, 16 years and over	63,475	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609	64,462	64,415	64,070
16 to 24 years	10,401	10,303	10,379	10,288	10,198	10,377	10,530	10,385	10,243	10,412	10,303	10,301	10,015
16 to 19 years	3,496	3,446	3,533	3,472	3,370	3,415	3,530	3,489	3,403	3,515	3,540	3,562	3,386
16 to 17 years	1,397	1,404	1,433	1,385	1,270	1,298	1,377	1,338	1,304	1,296	1,273	1,379	1,260
18 to 19 years	2,106	2,040	2,105	2,135	2,088	2,134	2,179	2,149	2,089	2,206	2,264	2,163	2,134
20 to 24 years	6,905	6,857	6,846	6,816	6,828	6,962	7,000	6,896	6,839	6,897	6,763	6,739	6,628
25 years and over	53,072	53,136	53,152	53,227	53,573	53,659	53,897	53,842	53,949	54,222	54,208	54,155	54,079
25 to 54 years	44,577	44,669	44,712	44,779	45,001	45,091	45,278	45,163	45,398	45,619	45,644	45,725	45,646
55 years and over	8,502	8,482	8,436	8,470	8,563	8,536	8,603	8,643	8,543	8,589	8,605	8,430	8,427
Women, 16 years and over	51,895	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932	52,997	53,183	53,386
16 to 24 years	9,649	9,627	9,498	9,564	9,543	9,420	9,466	9,515	9,541	9,547	9,493	9,576	9,443
16 to 19 years	3,360	3,335	3,302	3,323	3,378	3,287	3,253	3,323	3,322	3,271	3,147	3,278	3,297
16 to 17 years	1,272	1,285	1,337	1,301	1,332	1,265	1,262	1,301	1,289	1,230	1,166	1,184	1,300
18 to 19 years	2,089	2,050	1,940	2,015	2,037	2,029	2,007	2,028	2,034	2,015	1,980	2,082	2,004
20 to 24 years	6,289	6,292	6,196	6,241	6,165	6,133	6,213	6,192	6,219	6,276	6,346	6,298	6,146
25 years and over	42,260	42,483	42,910	42,924	43,415	43,361	43,228	43,325	43,434	43,379	43,533	43,603	43,931
25 to 54 years	36,120	36,281	36,530	36,620	37,035	37,069	36,886	37,042	37,039	37,102	37,208	37,341	37,533
55 years and over	6,162	6,208	6,354	6,301	6,361	6,267	6,331	6,285	6,404	6,274	6,306	6,297	6,403

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

(In thousands)

Sex and age	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497	6,421	6,584
16 to 24 years	2,457	2,429	2,363	2,421	2,663	2,316	2,182	2,344	2,303	2,544	2,381	2,420	2,444
16 to 19 years	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254	1,150	1,163	1,193
16 to 17 years	650	559	520	535	581	572	477	463	500	535	529	565	518
18 to 19 years	615	629	599	637	751	605	597	667	701	737	603	609	683
20 to 24 years	1,204	1,235	1,241	1,242	1,340	1,148	1,109	1,198	1,093	1,290	1,231	1,257	1,251
25 years and over	4,179	4,061	4,193	4,125	4,101	4,026	3,921	4,191	4,074	4,036	4,099	4,031	4,182
25 to 54 years	3,733	3,651	3,739	3,687	3,632	3,559	3,542	3,761	3,628	3,503	3,641	3,556	3,698
55 years and over	436	419	433	457	474	466	396	451	453	515	485	468	461
Men, 16 years and over	3,589	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397	3,284	3,403	3,672
16 to 24 years	1,329	1,376	1,274	1,280	1,494	1,302	1,128	1,238	1,270	1,358	1,196	1,328	1,380
16 to 19 years	684	682	616	630	772	687	582	641	696	660	550	613	634
16 to 17 years	367	318	300	290	330	317	258	274	301	323	268	290	311
18 to 19 years	329	360	314	333	455	379	330	368	390	347	270	315	334
20 to 24 years	645	694	658	650	722	615	546	597	574	698	646	715	746
25 years and over	2,270	2,195	2,331	2,296	2,245	2,246	2,136	2,344	2,099	2,057	2,085	2,106	2,324
25 to 54 years	2,014	1,946	2,050	1,999	1,986	1,943	1,890	2,076	1,845	1,768	1,840	1,800	1,992
55 years and over	255	266	275	286	269	303	246	283	258	270	274	291	313
Women, 16 years and over	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164	3,213	3,018	2,912
16 to 24 years	1,128	1,053	1,089	1,141	1,169	1,014	1,054	1,106	1,034	1,186	1,185	1,092	1,064
16 to 19 years	569	512	506	549	551	481	491	505	514	584	600	550	559
16 to 17 years	283	241	220	245	251	255	219	189	199	212	261	275	207
18 to 19 years	286	269	285	304	296	226	267	299	311	390	333	294	349
20 to 24 years	559	541	583	592	618	533	563	601	520	592	585	542	505
25 years and over	1,909	1,866	1,862	1,829	1,856	1,780	1,784	1,847	1,975	1,979	2,004	1,925	1,858
25 to 54 years	1,719	1,705	1,689	1,688	1,646	1,616	1,652	1,685	1,782	1,735	1,801	1,756	1,705
55 years and over	181	153	158	171	205	164	151	169	195	245	211	178	147

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2	5.2	5.3
16 to 24 years	10.9	10.9	10.6	10.9	11.9	10.5	9.8	10.5	10.4	11.3	10.7	10.9	11.2
16 to 19 years	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7	14.5	15.1
16 to 17 years	19.6	17.2	15.8	16.6	18.3	18.2	15.3	14.9	16.2	17.5	17.8	18.1	16.8
18 to 19 years	12.8	13.3	12.9	13.3	15.4	12.7	12.5	13.8	14.5	14.9	12.4	12.5	14.2
20 to 24 years	8.4	8.6	8.7	8.7	9.3	8.1	7.7	8.4	7.7	8.9	8.6	8.8	8.9
25 years and over	4.2	4.1	4.2	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	4.1
25 to 54 years	4.4	4.3	4.4	4.3	4.2	4.2	4.1	4.4	4.2	4.1	4.2	4.1	4.3
55 years and over	2.9	2.8	2.8	3.0	3.1	3.1	2.6	2.9	2.9	3.3	3.1	3.1	3.0
Men, 16 years and over	5.4	5.4	5.4	5.3	5.5	5.2	4.8	5.3	5.0	5.0	4.8	5.0	5.4
16 to 24 years	11.3	11.8	10.9	11.1	12.8	11.1	9.7	10.7	11.0	11.5	10.4	11.4	12.1
16 to 19 years	16.4	16.5	14.8	15.4	18.6	16.7	14.2	15.5	17.0	15.8	13.4	14.7	15.8
16 to 17 years	20.8	18.5	17.3	17.3	20.6	19.6	15.8	17.0	18.8	20.0	17.4	17.4	19.8
18 to 19 years	13.5	15.0	13.0	13.5	17.9	15.1	13.2	14.6	15.7	13.6	10.7	12.7	13.5
20 to 24 years	8.5	9.2	8.8	8.7	9.6	8.1	7.2	8.0	7.7	9.2	8.7	9.6	10.1
25 years and over	4.1	4.0	4.2	4.1	4.0	4.0	3.8	4.2	3.7	3.7	3.7	3.7	4.1
25 to 54 years	4.3	4.2	4.4	4.3	4.2	4.1	4.0	4.4	3.9	3.7	3.9	3.8	4.2
55 years and over	2.9	3.0	3.2	3.3	3.0	3.4	2.8	3.2	2.9	3.0	3.1	3.3	3.6
Women, 16 years and over	5.5	5.3	5.3	5.4	5.4	5.0	5.1	5.3	5.3	5.6	5.7	5.4	5.2
16 to 24 years	10.5	9.9	10.3	10.7	10.9	9.7	10.0	10.4	9.8	11.0	11.1	10.2	10.1
16 to 19 years	14.5	13.3	13.3	14.2	14.0	12.8	13.1	13.2	13.4	15.4	16.0	14.4	14.5
16 to 17 years	18.2	15.8	14.1	15.8	15.9	16.8	14.8	12.7	13.4	14.7	18.3	18.8	13.7
18 to 19 years	12.0	11.6	12.8	13.1	12.7	10.0	11.7	12.8	13.3	16.2	14.4	12.4	14.8
20 to 24 years	8.2	7.9	8.6	8.7	9.1	8.0	8.3	8.9	7.7	8.6	8.4	7.9	7.6
25 years and over	4.3	4.2	4.2	4.1	4.1	3.9	4.0	4.1	4.4	4.4	4.4	4.2	4.1
25 to 54 years	4.5	4.5	4.4	4.4	4.3	4.2	4.3	4.4	4.6	4.5	4.6	4.5	4.3
55 years and over	2.9	2.4	2.4	2.6	3.1	2.5	2.3	2.6	3.0	3.8	3.2	2.7	2.2

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total (all civilian workers)	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2	5.2	5.3
Men, 20 years and over	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3	4.3	4.4	4.8
Women, 20 years and over	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9	5.0	4.7	4.5
Both sexes, 16 to 19 years	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7	14.5	15.1
White	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5	4.6	4.5	4.5
Black and other	9.5	9.8	10.0	10.0	10.6	10.6	9.8	9.6	9.5	10.3	9.6	9.5	10.1
Black	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9	10.9	11.1	11.6
Hispanic origin	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1	9.0	9.0	8.3
Married men, spouse present	3.1	3.1	3.3	3.1	3.1	3.1	2.9	3.2	2.9	2.8	2.9	3.1	3.4
Married women, spouse present	3.8	3.7	3.8	3.7	3.6	3.4	3.5	4.0	3.8	3.8	3.8	3.9	3.8
Women who maintain families	8.1	7.9	7.7	8.2	8.0	8.0	7.9	7.6	8.3	7.9	8.7	8.0	7.6
Full-time workers	5.1	5.0	5.0	5.1	5.0	4.8	4.8	5.0	4.8	4.8	4.9	4.9	5.0
Part-time workers	7.4	7.4	7.1	7.0	7.9	7.3	6.2	7.2	6.9	7.7	7.2	6.9	7.3
Unemployed 15 weeks and over ¹	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.2	1.1	1.0	1.2	1.1	1.1
Labor force time lost ²	6.3	6.1	6.2	6.3	6.2	5.9	5.8	6.0	5.9	6.1	6.0	5.9	5.9
INDUSTRY													
Nonagricultural private wage and salary workers	5.4	5.4	5.5	5.4	5.6	5.1	5.0	5.4	5.2	5.3	5.4	5.4	5.4
Goods-producing industries	6.4	6.4	6.4	6.4	6.4	6.1	5.8	6.0	5.8	6.2	6.2	6.4	6.3
Mining	8.6	8.8	8.9	7.7	6.1	8.0	7.0	5.6	4.5	3.7	5.5	6.5	8.5
Construction	9.6	10.0	10.6	10.4	10.4	10.0	9.4	9.7	9.3	10.0	10.5	10.3	10.4
Manufacturing	5.4	5.3	5.1	5.2	5.3	4.9	4.8	4.9	4.9	5.2	5.0	5.2	5.1
Durable goods	5.2	5.0	4.9	5.0	5.0	4.4	4.7	4.7	4.5	4.6	4.7	4.8	4.7
Nondurable goods	5.8	5.7	5.3	5.5	5.7	5.5	4.9	5.2	5.5	6.1	5.5	5.9	5.5
Service-producing industries	5.0	4.9	5.1	4.9	5.2	4.7	4.6	5.1	4.9	4.9	5.0	4.9	5.0
Transportation and public utilities	3.8	3.5	4.0	3.8	3.8	3.9	3.9	4.0	4.0	4.4	4.2	3.6	4.7
Wholesale and retail trade	6.2	6.0	6.2	6.3	6.3	5.6	5.6	5.9	5.5	6.0	6.2	6.0	5.8
Finance and service industries	4.4	4.5	4.6	4.1	4.7	4.3	4.1	4.8	4.7	4.3	4.4	4.4	4.5
Government workers	2.7	2.6	2.5	2.7	2.7	2.7	2.6	2.7	2.9	3.0	2.8	2.7	2.8
Agricultural wage and salary workers	10.8	10.2	9.3	8.8	9.5	8.9	8.9	10.5	10.3	11.0	8.5	8.6	7.7

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	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
DURATION													
Less than 5 weeks	3,116	3,059	3,117	3,029	3,181	3,247	3,055	3,090	3,041	3,309	3,149	3,071	3,156
5 to 14 weeks	1,896	1,835	1,935	2,039	2,081	1,865	1,821	2,034	2,017	1,999	1,927	2,011	2,036
15 weeks and over	1,568	1,554	1,502	1,495	1,512	1,304	1,310	1,426	1,313	1,258	1,472	1,305	1,370
15 to 26 weeks	775	788	787	758	757	665	648	689	702	659	846	737	789
27 weeks and over	793	766	715	737	755	639	663	737	611	599	626	567	581
Average (mean) duration, in weeks	13.5	13.4	12.6	12.8	12.7	12.1	12.4	12.7	11.8	11.1	12.0	11.3	11.4
Median duration, in weeks	5.7	5.7	5.6	5.8	5.7	5.3	5.4	5.4	5.3	5.5	5.6	5.0	5.0
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	47.4	47.4	47.6	46.2	47.0	50.6	49.4	47.2	47.7	50.4	48.1	48.1	48.1
5 to 14 weeks	28.8	28.5	29.5	31.1	30.7	29.1	29.4	31.1	31.7	30.4	29.4	31.5	31.0
15 weeks and over	23.8	24.1	22.9	22.8	22.3	20.3	21.2	21.8	20.6	19.2	22.5	20.4	20.9
15 to 26 weeks	11.8	12.2	12.0	11.5	11.2	10.4	10.5	10.5	11.0	10.0	12.9	11.5	12.0
27 weeks and over	12.1	11.9	10.9	11.2	11.1	10.0	10.7	11.3	9.6	9.1	9.6	8.9	8.8

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

(Numbers in thousands)

Reasons for unemployment	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NUMBER OF UNEMPLOYED													
Job losers	3,079	2,951	3,031	3,066	3,121	2,876	2,831	2,984	2,724	2,765	2,920	2,984	2,915
On layoff	833	844	814	819	827	774	808	847	790	806	822	873	828
Other job losers	2,246	2,107	2,217	2,247	2,294	2,102	2,023	2,137	1,934	1,958	2,097	2,111	2,087
Job leavers	985	984	963	998	985	985	885	978	1,114	1,023	1,010	1,040	1,039
Reentrants	1,767	1,747	1,766	1,725	1,835	1,740	1,730	1,894	1,852	2,051	1,934	1,768	1,946
New entrants	761	747	799	799	780	765	713	671	683	742	724	628	629
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	46.7	45.9	46.2	46.5	46.4	45.2	46.0	45.7	42.7	42.0	44.3	46.5	44.6
On layoff	12.6	13.1	12.4	12.4	12.3	12.2	13.1	13.0	12.4	12.3	12.5	13.6	12.7
Other job losers	34.1	32.8	33.8	34.1	34.1	33.0	32.8	32.7	30.3	29.8	31.8	32.9	32.0
Job leavers	14.9	15.3	14.7	15.1	14.7	15.5	14.4	15.0	17.5	15.5	15.3	16.2	15.9
Reentrants	26.8	27.2	26.9	26.2	27.3	27.3	28.1	29.0	29.1	31.2	29.4	27.5	29.8
New entrants	11.5	11.6	12.2	12.1	11.6	12.0	11.6	10.3	10.7	11.3	11.0	9.8	9.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.5	2.4	2.5	2.5	2.5	2.3	2.3	2.4	2.2	2.2	2.4	2.4	2.4
Job leavers .....	.8	.8	.8	.8	.8	.8	.7	.8	.9	.8	.8	.8	.8
Reentrants	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.5	1.7	1.6	1.4	1.6
New entrants .....	.6	.6	.7	.7	.6	.6	.6	.5	.6	.6	.6	.5	.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status and sex	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Noninstitutional population ¹	182,530	183,115	183,743	184,253	184,749	185,216	185,707	186,099	186,530	186,949	187,461	187,852	188,288
Labor force ¹	119,900	120,298	120,826	121,441	121,779	122,301	122,786	123,062	123,570	124,084	124,979	125,464	125,690
Percent of population ²	65.7	65.7	65.8	65.9	65.9	66.0	66.1	66.1	66.2	66.4	66.7	66.8	66.8
Total employed ¹	111,662	112,178	112,974	113,926	114,576	115,224	115,893	116,398	116,892	117,539	118,588	118,964	119,189
Employment-population ratio ³	61.2	61.3	61.5	61.8	62.0	62.2	62.4	62.5	62.7	62.9	63.3	63.3	63.3
Resident Armed Forces	1,695	1,750	1,741	1,726	1,733	1,749	1,740	1,710	1,690	1,696	1,688	1,674	1,685
Civilian employed	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289	117,504
Agriculture	3,134	3,163	3,191	3,263	3,186	3,193	3,212	3,139	3,126	3,223	3,243	3,104	3,261
Nonagricultural industries	106,833	107,264	108,042	108,937	109,657	110,282	110,940	111,549	112,076	112,620	113,657	114,185	114,243
Unemployed	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545	6,391	6,501	6,501
Unemployment rate ⁴	6.9	6.8	6.5	6.2	5.9	5.8	5.6	5.4	5.4	5.3	5.1	5.2	5.2
Not in labor force	62,630	62,817	62,917	62,813	62,970	62,915	62,922	63,037	62,959	62,865	62,482	62,388	62,597
Men													
Noninstitutional population ¹	87,463	87,775	88,101	88,358	88,605	88,843	89,100	89,293	89,509	89,715	89,973	90,166	90,385
Labor force ¹	67,036	67,322	67,608	67,711	67,765	68,005	68,234	68,436	68,583	68,631	69,112	69,327	69,284
Percent of population ²	76.6	76.7	76.7	76.6	76.5	76.5	76.6	76.6	76.6	76.5	76.8	76.9	76.7
Total employed ¹	62,459	62,796	63,249	63,503	63,815	64,168	64,475	64,811	64,962	65,035	65,605	65,863	65,831
Employment-population ratio ³	71.4	71.5	71.8	71.9	72.0	72.2	72.4	72.6	72.6	72.5	72.9	73.0	72.8
Resident Armed Forces	1,540	1,592	1,583	1,567	1,572	1,587	1,579	1,548	1,527	1,534	1,525	1,511	1,516
Civilian employed	60,920	61,204	61,666	61,937	62,243	62,581	62,895	63,262	63,435	63,501	64,080	64,352	64,315
Unemployed	4,577	4,526	4,358	4,208	3,950	3,837	3,759	3,625	3,621	3,596	3,507	3,464	3,453
Unemployment rate ⁴	6.8	6.7	6.4	6.2	5.8	5.6	5.5	5.3	5.3	5.2	5.1	5.0	5.0
Not in labor force	20,426	20,453	20,494	20,647	20,840	20,839	20,866	20,858	20,926	21,084	20,861	20,839	21,101
Women													
Noninstitutional population ¹	95,067	95,341	95,642	95,896	96,144	96,372	96,608	96,806	97,022	97,234	97,488	97,686	97,903
Labor force ¹	52,864	52,976	53,219	53,730	54,014	54,296	54,552	54,626	54,987	55,453	55,867	56,137	56,405
Percent of population ²	55.6	55.6	55.6	56.0	56.2	56.3	56.5	56.4	56.7	57.0	57.3	57.5	57.6
Total employed ¹	49,202	49,382	49,725	50,423	50,760	51,056	51,418	51,588	51,930	52,504	52,983	53,100	53,358
Employment-population ratio ³	51.8	51.8	52.0	52.6	52.8	53.0	53.2	53.3	53.5	54.0	54.3	54.4	54.5
Resident Armed Forces	155	158	158	160	161	161	161	162	163	162	163	163	169
Civilian employed	49,047	49,224	49,567	50,263	50,600	50,894	51,257	51,426	51,767	52,342	52,820	52,937	53,189
Unemployed	3,661	3,594	3,494	3,307	3,253	3,241	3,134	3,039	3,057	2,949	2,884	3,037	3,048
Unemployment rate ⁴	6.9	6.8	6.6	6.2	6.0	6.0	5.7	5.6	5.6	5.3	5.2	5.4	5.4
Not in labor force	42,204	42,365	42,423	42,166	42,130	42,076	42,056	42,180	42,035	41,781	41,621	41,549	41,498

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	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Civilian noninstitutional population ¹	180,835	181,365	182,002	182,527	183,016	183,467	183,967	184,389	184,840	185,253	185,773	186,178	186,602
Civilian labor force	118,205	118,548	119,085	119,714	120,046	120,552	121,045	121,352	121,861	122,388	123,291	123,790	124,005
Percent of population	65.4	65.4	65.4	65.6	65.6	65.7	65.8	65.8	65.9	66.1	66.4	66.5	66.5
Employed	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289	117,504
Employment-population ratio ²	60.8	60.9	61.1	61.5	61.7	61.9	62.1	62.2	62.3	62.5	62.9	63.0	63.0
Unemployed	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545	6,391	6,501	6,501
Unemployment rate	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3	5.2	5.3	5.2
Men, 20 years and over													
Civilian noninstitutional population ¹	78,647	78,883	79,217	79,466	79,678	79,898	80,194	80,418	80,676	80,925	81,251	81,510	81,741
Civilian labor force	61,364	61,670	61,908	62,068	62,083	62,270	62,522	62,721	62,843	62,971	63,468	63,681	63,673
Percent of population	78.0	78.2	78.1	78.1	77.9	77.9	78.0	78.0	77.9	77.8	78.1	78.1	77.9
Employed	57,575	57,885	58,316	58,613	58,828	59,147	59,448	59,756	59,905	60,017	60,642	60,883	60,819
Employment-population ratio ²	73.2	73.4	73.6	73.8	73.8	74.0	74.1	74.3	74.3	74.2	74.6	74.7	74.4
Agriculture	2,252	2,297	2,316	2,386	2,314	2,298	2,280	2,243	2,258	2,307	2,305	2,264	2,348
Nonagricultural industries	55,323	55,589	56,000	56,227	56,514	56,849	57,168	57,514	57,647	57,711	58,337	58,619	58,471
Unemployed	3,789	3,785	3,592	3,455	3,255	3,123	3,074	2,965	2,938	2,953	2,827	2,798	2,854
Unemployment rate	6.2	6.1	5.8	5.6	5.2	5.0	4.9	4.7	4.7	4.7	4.5	4.4	4.5
Not in labor force	17,283	17,213	17,309	17,398	17,595	17,628	17,672	17,697	17,833	17,954	17,783	17,829	18,068
Women, 20 years and over													
Civilian noninstitutional population ¹	87,699	87,935	88,236	88,468	88,701	88,925	89,183	89,397	89,664	89,883	90,155	90,425	90,685
Civilian labor force	48,921	48,993	49,255	49,688	49,962	50,214	50,501	50,604	50,919	51,449	51,890	52,131	52,426
Percent of population	55.8	55.7	55.8	56.2	56.3	56.5	56.6	56.6	56.8	57.2	57.6	57.7	57.8
Employed	45,916	46,062	46,403	46,986	47,295	47,605	47,963	48,122	48,423	49,022	49,514	49,632	49,948
Employment-population ratio ²	52.4	52.4	52.6	53.1	53.3	53.5	53.8	53.8	54.0	54.5	54.9	54.9	55.1
Agriculture	628	622	611	615	622	635	639	628	599	642	682	618	657
Nonagricultural industries	45,288	45,440	45,791	46,371	46,673	46,970	47,323	47,494	47,824	48,380	48,832	49,014	49,291
Unemployed	3,005	2,931	2,852	2,702	2,667	2,609	2,538	2,483	2,496	2,427	2,376	2,499	2,478
Unemployment rate	6.1	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9	4.7	4.6	4.8	4.7
Not in labor force	38,778	38,942	38,981	38,780	38,739	38,711	38,682	38,793	38,745	38,434	38,265	38,294	38,259
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,489	14,547	14,548	14,593	14,638	14,644	14,590	14,574	14,500	14,445	14,367	14,243	14,177
Civilian labor force	7,920	7,885	7,922	7,959	8,001	8,069	8,022	8,026	8,119	7,969	7,933	7,978	7,905
Percent of population	54.7	54.2	54.5	54.5	54.7	55.1	55.0	55.1	56.0	55.2	55.2	56.0	55.8
Employed	6,476	6,481	6,514	6,601	6,720	6,723	6,742	6,810	6,874	6,804	6,745	6,774	6,737
Employment-population ratio ²	44.7	44.5	44.8	45.2	45.9	45.9	46.2	46.7	47.4	47.1	46.9	47.6	47.5
Agriculture	254	245	263	263	249	260	293	269	269	274	256	222	255
Nonagricultural industries	6,222	6,236	6,251	6,339	6,470	6,463	6,448	6,541	6,605	6,529	6,489	6,552	6,482
Unemployed	1,444	1,404	1,408	1,358	1,281	1,345	1,281	1,216	1,244	1,165	1,188	1,203	1,169
Unemployment rate	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6	15.0	15.1	14.8
Not in labor force	6,569	6,662	6,626	6,634	6,637	6,575	6,568	6,548	6,381	6,476	6,434	6,265	6,272

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	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
WHITE													
Civilian noninstitutional population ¹	155,609	155,982	156,435	156,806	157,145	157,448	157,772	158,048	158,347	158,611	158,944	159,198	159,473
Civilian labor force	102,135	102,413	102,735	103,224	103,386	103,758	104,255	104,555	104,900	105,286	105,964	106,310	106,399
Percent of population	65.6	65.7	65.7	65.8	65.8	65.9	66.1	66.2	66.2	66.4	66.7	66.8	66.7
Employed	96,027	96,345	96,900	97,642	98,084	98,527	99,204	99,691	99,909	100,436	101,338	101,539	101,595
Employment-population ratio ²	61.7	61.8	61.9	62.3	62.4	62.6	62.9	63.1	63.1	63.3	63.8	63.8	63.7
Unemployed	6,109	6,067	5,835	5,581	5,302	5,231	5,050	4,864	4,991	4,849	4,626	4,772	4,804
Unemployment rate	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.7	4.8	4.6	4.4	4.5	4.5
Men, 20 years and over													
Civilian labor force	53,691	53,959	54,120	54,205	54,191	54,365	54,546	54,678	54,805	54,894	55,301	55,418	55,409
Percent of population	78.4	78.6	78.5	78.5	78.2	78.3	78.3	78.3	78.3	78.3	78.6	78.5	78.3
Employed	50,832	51,068	51,350	51,570	51,718	51,956	52,231	52,465	52,541	52,624	53,197	53,331	53,241
Employment-population ratio ²	74.2	74.4	74.5	74.6	74.7	74.8	75.0	75.2	75.1	75.0	75.6	75.6	75.3
Unemployed	2,859	2,891	2,770	2,635	2,473	2,409	2,315	2,212	2,264	2,270	2,104	2,087	2,168
Unemployment rate	5.3	5.4	5.1	4.9	4.6	4.4	4.2	4.0	4.1	4.1	3.8	3.8	3.9
Women, 20 years and over													
Civilian labor force	41,586	41,577	41,734	42,113	42,327	42,474	42,764	42,926	43,099	43,522	43,829	44,050	44,221
Percent of population	55.3	55.1	55.2	55.6	55.7	55.8	56.1	56.2	56.3	56.7	57.0	57.2	57.3
Employed	39,401	39,465	39,712	40,181	40,446	40,626	40,967	41,186	41,305	41,801	42,164	42,241	42,437
Employment-population ratio ²	52.4	52.3	52.5	53.0	53.3	53.4	53.7	53.9	54.0	54.5	54.8	54.8	54.9
Unemployed	2,185	2,112	2,022	1,932	1,881	1,848	1,797	1,740	1,794	1,722	1,664	1,809	1,785
Unemployment rate	5.3	5.1	4.8	4.6	4.4	4.4	4.2	4.1	4.2	4.0	3.8	4.1	4.0
Both sexes, 16 to 19 years													
Civilian labor force	6,858	6,876	6,882	6,905	6,868	6,918	6,945	6,952	6,996	6,870	6,835	6,842	6,768
Percent of population	57.7	57.8	57.7	57.8	57.4	57.8	58.0	58.4	58.5	58.1	58.6	59.1	58.9
Employed	5,793	5,812	5,838	5,891	5,920	5,944	6,006	6,040	6,063	6,012	5,977	5,966	5,918
Employment-population ratio ²	48.8	48.9	49.0	49.3	49.5	49.8	50.5	50.9	51.2	51.2	51.3	51.5	51.5
Unemployed	1,065	1,065	1,043	1,014	948	974	938	912	933	858	858	876	851
Unemployment rate	15.5	15.5	15.2	14.7	13.8	14.1	13.5	13.1	13.3	12.5	12.5	12.8	12.6
Men	16.2	16.0	16.3	16.2	14.4	14.9	14.2	13.9	14.2	13.4	14.2	13.8	12.8
Women	14.8	15.0	13.9	13.1	13.1	13.2	12.8	12.3	12.4	11.5	10.7	11.8	12.3
BLACK													
Civilian noninstitutional population ¹	20,028	20,120	20,218	20,310	20,398	20,481	20,568	20,651	20,737	20,813	20,904	20,985	21,061
Civilian labor force	12,600	12,709	12,836	12,883	13,076	13,167	13,137	13,090	13,240	13,342	13,459	13,444	13,506
Percent of population	62.9	63.2	63.5	63.4	64.1	64.3	63.9	63.4	63.8	64.1	64.4	64.1	64.1
Employed	10,751	10,893	11,053	11,201	11,426	11,546	11,512	11,530	11,751	11,831	11,898	11,932	11,994
Employment-population ratio ²	53.7	54.1	54.7	55.1	56.0	56.4	56.0	55.8	56.7	56.8	56.9	56.9	56.9
Unemployed	1,849	1,816	1,783	1,682	1,650	1,621	1,626	1,559	1,489	1,510	1,561	1,512	1,512
Unemployment rate	14.7	14.3	13.9	13.1	12.6	12.3	12.4	11.9	11.2	11.3	11.6	11.2	11.2
Men, 20 years and over													
Civilian labor force	5,904	5,962	5,979	6,007	6,053	6,050	6,117	6,114	6,109	6,161	6,218	6,193	6,214
Percent of population	74.5	74.9	74.7	74.7	74.9	74.5	75.0	74.6	74.2	74.5	74.8	74.2	74.2
Employed	5,116	5,196	5,278	5,322	5,397	5,431	5,461	5,486	5,532	5,557	5,582	5,598	5,610
Employment-population ratio ²	64.6	65.3	65.9	66.1	66.8	66.9	66.9	66.9	67.2	67.2	67.1	67.0	67.0
Unemployed	788	766	702	685	656	619	656	628	577	603	637	595	604
Unemployment rate	13.3	12.8	11.7	11.4	10.8	10.2	10.7	10.3	9.4	9.8	10.2	9.6	9.7
Women, 20 years and over													
Civilian labor force	5,854	5,902	5,984	6,007	6,108	6,180	6,161	6,103	6,216	6,277	6,344	6,324	6,370
Percent of population	58.7	58.9	59.5	59.5	60.2	60.6	60.2	59.4	60.2	60.6	60.9	60.5	60.6
Employed	5,132	5,161	5,227	5,324	5,402	5,499	5,497	5,449	5,595	5,646	5,714	5,716	5,756
Employment-population ratio ²	51.5	51.5	52.0	52.7	53.2	54.0	53.7	53.0	54.2	54.5	54.9	54.6	54.8
Unemployed	723	741	756	683	706	681	663	654	621	631	630	608	613
Unemployment rate	12.3	12.5	12.6	11.4	11.6	11.0	10.8	10.7	10.0	10.1	9.9	9.6	9.6

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	842	844	873	869	915	937	859	873	915	904	896	927	923
Percent of population	39.4	39.4	40.6	40.2	42.2	43.1	39.5	40.0	41.9	41.5	41.2	42.6	42.3
Employed	503	535	548	555	627	616	553	595	623	628	602	617	627
Employment-population ratio ²	23.6	25.0	25.5	25.7	28.9	28.4	25.5	27.3	28.5	28.8	27.7	28.4	28.8
Unemployed	339	309	325	315	288	321	306	278	292	276	294	309	295
Unemployment rate	40.2	36.6	37.2	36.2	31.5	34.2	35.6	31.8	31.9	30.5	32.8	33.4	32.0
Men	40.4	37.0	36.0	36.3	32.8	33.0	37.4	31.0	31.7	31.6	32.8	35.2	28.5
Women	40.1	36.2	38.6	36.1	30.0	35.5	33.8	32.8	32.1	29.3	32.8	31.6	35.7
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,397	12,504	12,692	12,809	12,926	13,043	13,153	13,268	13,382	13,495	13,606	13,731	13,853
Civilian labor force	8,172	8,252	8,400	8,501	8,528	8,724	8,889	8,914	9,007	9,119	9,212	9,321	9,375
Percent of population	65.9	66.0	66.2	66.4	66.0	66.9	67.6	67.2	67.3	67.6	67.7	67.9	67.7
Employed	7,278	7,418	7,581	7,763	7,830	7,981	8,176	8,127	8,286	8,409	8,546	8,568	8,553
Employment-population ratio ²	58.7	59.3	59.7	60.6	60.6	61.2	62.2	61.3	61.9	62.3	62.8	62.4	61.7
Unemployed	894	834	819	738	698	743	713	787	721	709	666	752	822
Unemployment rate	10.9	10.1	9.8	8.7	8.2	8.5	8.0	8.8	8.0	7.8	7.2	8.1	8.8

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	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
EMPLOYED													
Full-time workers	90,899	91,267	92,009	92,576	93,336	93,886	94,527	95,069	95,345	95,866	96,723	97,102	97,540
Men, 16 years and over	54,744	54,945	55,388	55,532	55,910	56,164	56,452	56,838	56,948	57,028	57,537	57,801	58,055
Men, 20 years and over	53,386	53,609	54,026	54,244	54,501	54,755	55,035	55,372	55,460	55,545	56,122	56,300	56,473
Women, 16 years and over	36,135	36,357	36,611	37,046	37,449	37,729	38,014	38,271	38,453	38,852	39,120	39,327	39,576
Women, 20 years and over	35,123	35,351	35,560	35,979	36,331	36,602	36,922	37,178	37,318	37,769	38,085	38,251	38,518
Both sexes, 16 to 19 years	2,390	2,307	2,423	2,354	2,504	2,528	2,570	2,520	2,567	2,552	2,517	2,551	2,549
Part-time workers	19,030	19,175	19,246	19,603	19,449	19,632	19,670	19,549	19,771	20,021	20,208	20,121	19,836
Men, 16 years and over	6,174	6,286	6,264	6,387	6,346	6,440	6,412	6,399	6,515	6,499	6,504	6,528	6,326
Men, 20 years and over	4,185	4,285	4,285	4,362	4,337	4,393	4,410	4,372	4,459	4,471	4,499	4,566	4,350
Women, 16 years and over	12,896	12,895	12,949	13,212	13,143	13,194	13,219	13,153	13,293	13,522	13,667	13,597	13,559
Women, 20 years and over	10,763	10,731	10,851	11,012	10,926	11,026	11,048	10,949	11,053	11,283	11,439	11,386	11,358
Both sexes, 16 to 19 years	4,082	4,160	4,110	4,229	4,186	4,213	4,212	4,228	4,260	4,268	4,270	4,169	4,127
UNEMPLOYED													
Looking for full-time work	6,698	6,608	6,348	6,064	5,791	5,658	5,516	5,305	5,333	5,255	5,116	5,160	5,218
Men, 16 years and over	3,918	3,890	3,773	3,610	3,405	3,288	3,159	3,089	3,120	3,093	2,914	2,928	2,993
Men, 20 years and over	3,533	3,528	3,355	3,223	3,036	2,923	2,860	2,746	2,753	2,739	2,619	2,572	2,673
Women, 16 years and over	2,763	2,700	2,583	2,466	2,393	2,390	2,305	2,229	2,232	2,196	2,120	2,247	2,237
Women, 20 years and over	2,436	2,394	2,300	2,186	2,130	2,092	2,037	1,982	1,990	1,935	1,898	1,988	1,985
Both sexes, 16 to 19 years	730	687	693	655	625	642	620	577	590	582	598	600	560
Looking for part-time work	1,553	1,514	1,525	1,422	1,415	1,421	1,396	1,331	1,353	1,286	1,293	1,317	1,301
Men, 16 years and over	641	618	607	591	568	556	563	530	545	518	527	533	509
Men, 20 years and over	257	255	249	218	221	198	226	206	188	211	220	215	191
Women, 16 years and over	902	902	915	836	848	866	828	811	808	772	758	791	795
Women, 20 years and over	575	547	559	505	531	524	508	490	505	494	482	501	494
Both sexes, 16 to 19 years	721	712	717	699	663	699	662	635	661	580	591	600	617

NOTE: Employed persons with a job but not at work and persons at work part time are distributed according to whether they usually work full or part time; unemployed persons are classified according to whether they are seeking full- or part-time jobs.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Category	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289	117,504
Married men, spouse present	39,698	39,878	40,036	40,087	40,316	40,611	40,471	40,435	40,514	40,465	40,979	40,964	40,766
Married women, spouse present	27,349	27,485	27,793	28,231	28,196	28,228	28,589	28,694	28,771	28,979	29,523	29,625	29,411
Women who maintain families	5,870	5,950	5,936	6,013	6,108	6,173	6,154	6,074	6,234	6,373	6,352	6,325	6,412
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,539	1,589	1,626	1,638	1,639	1,622	1,626	1,596	1,597	1,677	1,662	1,571	1,723
Self-employed workers	1,433	1,419	1,406	1,451	1,411	1,427	1,418	1,377	1,398	1,401	1,403	1,396	1,432
Unpaid family workers	168	170	147	162	149	150	137	156	148	150	159	126	133
Nonagricultural industries:													
Wage and salary workers	98,572	98,941	99,668	100,462	101,174	101,781	102,417	102,553	103,299	103,802	104,763	105,250	105,312
Government	16,464	16,357	16,526	16,722	16,901	17,047	16,998	17,002	17,096	17,350	17,362	17,224	17,576
Private industries	82,108	82,584	83,142	83,739	84,273	84,735	85,419	85,551	86,203	86,452	87,401	88,026	87,736
Private households	1,257	1,193	1,225	1,216	1,179	1,216	1,160	1,137	1,126	1,190	1,165	1,128	1,098
Other industries	80,851	81,391	81,917	82,523	83,094	83,519	84,259	84,414	85,077	85,262	86,236	86,898	86,638
Self-employed workers	7,984	8,081	8,170	8,144	8,210	8,274	8,326	8,640	8,536	8,567	8,626	8,586	8,600
Unpaid family workers	264	259	259	267	269	245	241	290	241	266	305	281	266
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,505	5,628	5,511	5,337	5,353	5,414	5,352	5,131	5,210	5,115	5,015	4,979	4,806
Slack work	2,457	2,491	2,421	2,339	2,388	2,387	2,402	2,292	2,351	2,349	2,279	2,329	2,308
Could only find part-time work	2,723	2,801	2,733	2,678	2,631	2,670	2,590	2,486	2,467	2,395	2,359	2,352	2,139
Voluntary part time	13,939	14,043	14,177	14,443	14,451	14,554	14,618	14,791	15,098	15,323	15,363	15,410	15,603
Nonagricultural industries:													
Part time for economic reasons	5,271	5,369	5,227	5,066	5,066	5,136	5,100	4,901	4,979	4,860	4,747	4,780	4,557
Slack work	2,306	2,340	2,230	2,156	2,206	2,210	2,245	2,150	2,202	2,196	2,099	2,179	2,163
Could only find part-time work	2,661	2,701	2,647	2,597	2,551	2,575	2,504	2,402	2,406	2,305	2,291	2,302	2,057
Voluntary part time	13,525	13,602	13,719	13,953	13,989	14,093	14,163	14,332	14,663	14,864	14,928	15,005	15,141

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	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	109,967	110,428	111,233	112,200	112,843	113,475	114,152	114,688	115,202	115,843	116,900	117,289	117,504
16 to 24 years	20,209	20,188	20,186	20,149	20,231	20,101	20,150	20,077	20,103	19,886	19,845	19,881	19,710
16 to 19 years	6,476	6,481	6,514	6,601	6,720	6,723	6,742	6,810	6,874	6,804	6,745	6,774	6,737
16 to 17 years	2,619	2,679	2,696	2,689	2,797	2,758	2,730	2,725	2,680	2,715	2,601	2,586	2,521
18 to 19 years	3,826	3,821	3,836	3,906	3,900	3,975	4,015	4,080	4,175	4,095	4,158	4,174	4,209
20 to 24 years	13,734	13,707	13,672	13,548	13,512	13,378	13,409	13,267	13,229	13,083	13,100	13,106	12,974
25 years and over	89,781	90,223	91,068	92,021	92,649	93,355	94,004	94,575	95,152	95,944	97,044	97,384	97,836
25 to 54 years	75,392	75,953	76,647	77,551	78,164	78,715	79,379	79,987	80,587	81,197	82,120	82,454	83,032
55 years and over	14,420	14,278	14,397	14,462	14,519	14,643	14,601	14,576	14,587	14,750	14,887	14,913	14,823
Men, 16 years and over	60,920	61,204	61,666	61,937	62,243	62,581	62,895	63,262	63,435	63,501	64,080	64,352	64,315
16 to 24 years	10,540	10,529	10,509	10,395	10,473	10,391	10,424	10,458	10,439	10,323	10,368	10,347	10,206
16 to 19 years	3,345	3,319	3,350	3,324	3,415	3,434	3,447	3,506	3,530	3,484	3,438	3,469	3,496
16 to 17 years	1,353	1,369	1,384	1,367	1,408	1,410	1,409	1,400	1,395	1,407	1,315	1,313	1,304
18 to 19 years	1,973	1,969	1,972	1,953	1,987	2,039	2,036	2,103	2,122	2,093	2,134	2,148	2,187
20 to 24 years	7,195	7,211	7,159	7,071	7,058	6,957	6,977	6,952	6,909	6,840	6,930	6,877	6,710
25 years and over	50,389	50,673	51,173	51,521	51,788	52,184	52,473	52,786	53,024	53,172	53,710	54,004	54,147
25 to 54 years	42,029	42,276	42,666	42,982	43,293	43,602	43,944	44,256	44,519	44,720	45,123	45,393	45,671
55 years and over	8,369	8,411	8,497	8,531	8,507	8,593	8,517	8,517	8,513	8,463	8,567	8,592	8,488
Women, 16 years and over	49,047	49,224	49,567	50,263	50,600	50,894	51,257	51,426	51,767	52,342	52,820	52,937	53,189
16 to 24 years	9,669	9,658	9,677	9,754	9,759	9,710	9,726	9,619	9,664	9,563	9,477	9,534	9,504
16 to 19 years	3,131	3,162	3,164	3,277	3,305	3,289	3,294	3,304	3,344	3,320	3,306	3,305	3,241
16 to 17 years	1,266	1,310	1,311	1,322	1,389	1,349	1,321	1,324	1,285	1,308	1,286	1,273	1,217
18 to 19 years	1,853	1,852	1,864	1,952	1,913	1,936	1,979	1,977	2,053	2,002	2,024	2,026	2,022
20 to 24 years	6,539	6,496	6,513	6,477	6,454	6,421	6,432	6,315	6,320	6,243	6,170	6,229	6,263
25 years and over	39,392	39,550	39,895	40,500	40,861	41,171	41,531	41,789	42,128	42,772	43,335	43,379	43,689
25 to 54 years	33,362	33,677	33,981	34,569	34,871	35,113	35,435	35,732	36,068	36,477	36,997	37,061	37,361
55 years and over	6,052	5,867	5,900	5,931	6,012	6,050	6,084	6,059	6,074	6,288	6,320	6,321	6,335

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

(In thousands)

Sex and age	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	8,238	8,120	7,852	7,514	7,203	7,077	6,893	6,664	6,678	6,545	6,391	6,501	6,501
16 to 24 years	3,106	3,011	2,995	2,859	2,703	2,631	2,600	2,475	2,466	2,404	2,387	2,397	2,415
16 to 19 years	1,444	1,404	1,408	1,358	1,281	1,345	1,281	1,216	1,244	1,165	1,188	1,203	1,169
16 to 17 years	661	648	672	664	604	653	598	548	609	538	543	499	537
18 to 19 years	773	755	743	695	673	688	689	667	634	622	651	702	632
20 to 24 years	1,662	1,607	1,586	1,501	1,422	1,286	1,319	1,259	1,222	1,239	1,199	1,194	1,246
25 years and over	5,143	5,093	4,872	4,645	4,509	4,427	4,306	4,181	4,219	4,126	4,016	4,100	4,104
25 to 54 years	4,560	4,525	4,398	4,141	4,018	3,936	3,830	3,712	3,754	3,692	3,578	3,631	3,632
55 years and over	582	562	480	505	488	491	481	469	456	436	445	473	471
Men, 16 years and over	4,577	4,526	4,358	4,208	3,950	3,837	3,759	3,625	3,621	3,596	3,507	3,464	3,453
16 to 24 years	1,701	1,621	1,612	1,562	1,450	1,403	1,397	1,325	1,337	1,310	1,308	1,289	1,301
16 to 19 years	788	741	767	753	695	714	685	660	683	643	680	666	599
16 to 17 years	363	334	363	372	328	348	320	297	325	303	302	299	290
18 to 19 years	411	405	413	386	358	362	375	365	350	336	388	368	306
20 to 24 years	914	880	846	810	755	689	712	665	654	667	627	623	702
25 years and over	2,888	2,891	2,754	2,638	2,511	2,419	2,371	2,292	2,293	2,274	2,209	2,167	2,175
25 to 54 years	2,520	2,521	2,451	2,315	2,206	2,124	2,066	2,002	2,013	1,998	1,940	1,896	1,877
55 years and over	368	363	306	322	305	294	309	288	277	276	272	270	293
Women, 16 years and over	3,661	3,594	3,494	3,307	3,253	3,241	3,134	3,039	3,057	2,949	2,884	3,037	3,048
16 to 24 years	1,405	1,390	1,382	1,296	1,253	1,228	1,203	1,150	1,129	1,094	1,079	1,109	1,114
16 to 19 years	656	663	642	605	586	632	596	556	561	522	508	538	570
16 to 17 years	298	314	308	292	276	305	278	250	284	235	242	200	248
18 to 19 years	362	350	331	310	315	327	314	302	284	286	263	333	325
20 to 24 years	749	727	741	691	667	597	607	594	568	572	571	571	544
25 years and over	2,255	2,203	2,118	2,008	1,998	2,008	1,935	1,889	1,926	1,852	1,807	1,934	1,929
25 to 54 years	2,040	2,003	1,947	1,826	1,811	1,812	1,764	1,710	1,742	1,694	1,638	1,734	1,754
55 years and over	213	199	174	183	183	197	172	182	179	161	173	203	179

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Civilian workers)

Sex and age	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3	5.2	5.3	5.2
16 to 24 years	13.3	13.0	12.9	12.4	11.8	11.6	11.4	11.0	10.9	10.8	10.7	10.8	10.9
16 to 19 years	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6	15.0	15.1	14.8
16 to 17 years	20.2	19.5	19.9	19.8	17.8	19.1	18.0	16.7	18.5	16.5	17.3	16.2	17.6
18 to 19 years	16.8	16.5	16.2	15.1	14.7	14.8	14.7	14.0	13.2	13.2	13.5	14.4	13.0
20 to 24 years	10.8	10.5	10.4	10.0	9.5	8.8	9.0	8.7	8.5	8.7	8.4	8.3	8.8
25 years and over	5.4	5.3	5.1	4.8	4.6	4.5	4.4	4.2	4.2	4.1	4.0	4.0	4.0
25 to 54 years	5.7	5.6	5.4	5.1	4.9	4.8	4.6	4.4	4.5	4.3	4.2	4.2	4.2
55 years and over	3.9	3.8	3.2	3.4	3.2	3.2	3.2	3.1	3.0	2.9	2.9	3.1	3.1
Men, 16 years and over	7.0	6.9	6.6	6.4	6.0	5.8	5.6	5.4	5.4	5.4	5.2	5.1	5.1
16 to 24 years	13.9	13.3	13.3	13.1	12.2	11.9	11.8	11.2	11.4	11.3	11.2	11.1	11.3
16 to 19 years	19.1	18.3	18.6	18.5	16.9	17.2	16.6	15.8	16.2	15.6	16.5	16.1	14.6
16 to 17 years	21.2	19.6	20.8	21.4	18.9	19.8	18.5	17.5	18.9	17.7	18.7	18.6	18.2
18 to 19 years	17.2	17.1	17.3	16.5	15.3	15.1	15.6	14.8	14.2	13.8	15.4	14.6	12.3
20 to 24 years	11.3	10.9	10.6	10.3	9.7	9.0	9.3	8.7	8.6	8.9	8.3	8.3	9.5
25 years and over	5.4	5.4	5.1	4.9	4.6	4.4	4.3	4.2	4.1	4.1	4.0	3.9	3.9
25 to 54 years	5.7	5.6	5.4	5.1	4.8	4.6	4.5	4.3	4.3	4.3	4.1	4.0	3.9
55 years and over	4.2	4.1	3.5	3.6	3.5	3.3	3.5	3.3	3.2	3.2	3.1	3.0	3.3
Women, 16 years and over	6.9	6.8	6.6	6.2	6.0	6.0	5.8	5.6	5.6	5.3	5.2	5.4	5.4
16 to 24 years	12.7	12.6	12.5	11.7	11.4	11.2	11.0	10.7	10.5	10.3	10.2	10.4	10.5
16 to 19 years	17.3	17.3	16.9	15.6	15.1	16.1	15.3	14.4	14.4	13.6	13.3	14.0	15.0
16 to 17 years	19.1	19.3	19.0	18.1	16.6	18.4	17.4	15.9	18.1	15.3	15.8	13.6	16.9
18 to 19 years	16.3	15.9	15.1	13.7	14.1	14.4	13.7	13.2	12.2	12.5	11.5	14.1	13.9
20 to 24 years	10.3	10.1	10.2	9.6	9.4	8.5	8.6	8.6	8.2	8.4	8.5	8.4	8.0
25 years and over	5.4	5.3	5.0	4.7	4.7	4.6	4.5	4.3	4.4	4.2	4.0	4.3	4.2
25 to 54 years	5.8	5.6	5.4	5.0	4.9	4.9	4.7	4.6	4.6	4.4	4.2	4.5	4.5
55 years and over	3.4	3.3	2.9	3.0	2.9	3.2	2.7	2.9	2.9	2.5	2.7	3.1	2.7

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total (all civilian workers)	7.0	6.8	6.6	6.3	6.0	5.9	5.7	5.5	5.5	5.3	5.2	5.3	5.2
Men, 20 years and over	6.2	6.1	5.8	5.6	5.2	5.0	4.9	4.7	4.7	4.7	4.5	4.4	4.5
Women, 20 years and over	6.1	6.0	5.8	5.4	5.3	5.2	5.0	4.9	4.9	4.7	4.6	4.8	4.7
Both sexes, 16 to 19 years	18.2	17.8	17.8	17.1	16.0	16.7	16.0	15.2	15.3	14.6	15.0	15.1	14.8
White	6.0	5.9	5.7	5.4	5.1	5.0	4.8	4.7	4.8	4.6	4.4	4.5	4.5
Black and other	13.1	12.7	12.4	11.7	11.3	11.0	11.1	10.6	9.9	9.9	10.3	9.8	9.7
Black	14.7	14.3	13.9	13.1	12.6	12.3	12.4	11.9	11.2	11.3	11.6	11.2	11.2
Hispanic origin	10.9	10.1	9.8	8.7	8.2	8.5	8.0	8.8	8.0	7.8	7.2	8.1	8.8
Married men, spouse present	4.4	4.4	4.1	4.1	3.8	3.5	3.4	3.2	3.2	3.2	3.0	3.0	3.1
Married women, spouse present	5.1	4.9	4.6	4.3	4.2	4.2	4.0	3.9	3.9	3.7	3.5	3.9	3.8
Women who maintain families	9.8	9.6	9.7	9.4	9.1	8.6	8.2	8.2	8.0	7.9	8.0	7.9	8.1
Full-time workers	6.6	6.5	6.2	5.9	5.6	5.5	5.3	5.1	5.1	5.0	4.9	4.9	4.9
Part-time workers	9.2	9.0	9.0	8.2	8.2	8.2	8.0	7.6	7.6	7.2	7.1	7.3	7.1
Unemployed 15 weeks and over ¹	1.9	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.1
Labor force time lost ²	7.9	7.7	7.4	7.2	6.8	6.7	6.6	6.3	6.4	6.2	6.0	6.0	5.9
INDUSTRY													
Nonagricultural private wage and salary workers	7.0	6.9	6.6	6.3	6.0	5.8	5.7	5.5	5.5	5.4	5.3	5.3	5.4
Goods-producing industries	8.5	8.9	8.0	7.5	7.0	6.7	6.7	6.4	6.5	6.4	6.1	6.0	6.3
Mining	15.9	14.7	12.3	10.8	8.2	7.8	7.9	8.1	7.0	8.5	7.0	4.6	6.8
Construction	12.9	14.1	12.1	12.0	11.5	10.9	11.1	10.5	10.2	10.3	9.9	9.7	10.4
Manufacturing	7.0	7.2	6.7	6.1	5.7	5.4	5.4	5.2	5.4	5.2	5.0	5.0	5.1
Durable goods	6.7	7.0	6.5	6.0	5.6	5.1	5.4	4.8	5.0	5.0	4.7	4.6	4.7
Nondurable goods	7.4	7.5	6.9	6.3	5.8	6.0	5.5	5.8	5.9	5.5	5.4	5.6	5.6
Service-producing industries	6.3	6.0	5.9	5.7	5.5	5.4	5.2	5.0	5.0	5.0	4.9	5.0	5.0
Transportation and public utilities	5.1	4.7	4.5	4.6	4.3	4.4	3.9	4.0	3.7	3.8	3.9	4.1	4.1
Wholesale and retail trade	7.6	7.3	7.3	7.1	6.7	6.5	6.4	6.0	6.2	6.2	5.8	5.8	6.0
Finance and service industries	5.6	5.2	5.2	4.9	4.8	4.7	4.6	4.5	4.4	4.4	4.4	4.6	4.4
Government workers	3.3	3.6	3.6	3.5	3.4	3.3	2.9	2.9	2.9	2.6	2.7	2.9	2.8
Agricultural wage and salary workers	12.3	11.2	11.1	9.2	9.9	11.2	11.0	11.1	10.9	9.4	9.1	10.6	8.3

¹ Unemployment as a percent of the civilian labor force.

² Aggregate hours lost by the unemployed and persons on part time

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Weeks of unemployment	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
DURATION													
Less than 5 weeks	3,423	3,362	3,382	3,208	3,193	3,205	3,091	3,086	3,086	3,068	3,161	3,147	3,125
5 to 14 weeks	2,521	2,543	2,409	2,185	2,102	2,060	2,122	1,982	1,964	1,936	1,922	2,016	1,992
15 weeks and over	2,288	2,204	2,109	2,085	1,892	1,804	1,718	1,580	1,608	1,517	1,375	1,332	1,382
15 to 26 weeks	1,081	1,022	979	1,002	891	872	844	765	811	778	690	683	791
27 weeks and over	1,207	1,182	1,131	1,083	1,001	932	874	815	797	739	686	649	591
Average (mean) duration, in weeks	15.4	15.1	14.8	14.9	14.2	14.1	14.0	13.5	13.5	12.9	12.4	11.9	11.6
Median duration, in weeks	7.1	7.1	6.7	6.7	6.3	6.1	6.3	5.9	5.9	5.7	5.5	5.4	5.2
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.6	41.5	42.8	42.9	44.4	45.3	44.6	46.4	46.4	47.0	48.9	48.4	48.1
5 to 14 weeks	30.6	31.4	30.5	29.2	29.2	29.1	30.6	29.8	29.5	29.7	29.8	31.0	30.6
15 weeks and over	27.8	27.2	26.7	27.9	26.3	25.5	24.8	23.8	24.1	23.3	21.3	20.5	21.3
15 to 26 weeks	13.1	12.6	12.4	13.4	12.4	12.3	12.2	11.5	12.2	11.9	10.7	10.5	12.2
27 weeks and over	14.7	14.6	14.3	14.5	13.9	13.2	12.6	12.3	12.0	11.3	10.6	10.0	9.1

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

(Numbers in thousands)

Reasons for unemployment	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
NUMBER OF UNEMPLOYED													
Job losers	4,005	3,951	3,847	3,634	3,409	3,313	3,165	3,080	3,092	3,016	2,942	2,824	2,940
On layoff	1,058	1,066	1,018	946	871	898	877	837	855	826	803	815	841
Other job losers	2,946	2,885	2,829	2,688	2,538	2,415	2,288	2,243	2,237	2,190	2,140	2,010	2,098
Job leavers	1,009	1,037	968	953	991	949	1,025	960	965	982	952	1,038	1,030
Reentrants	2,181	2,103	2,059	1,998	1,926	1,914	1,872	1,785	1,831	1,746	1,768	1,933	1,883
New entrants	1,051	1,003	994	921	873	893	865	832	787	782	753	699	660
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	48.6	48.8	48.9	48.4	47.4	46.9	45.7	46.3	46.3	46.2	45.9	43.5	45.1
On layoff	12.8	13.2	12.9	12.6	12.1	12.7	12.7	12.6	12.8	12.7	12.5	12.5	12.9
Other job losers	35.7	35.6	35.9	35.8	35.3	34.2	33.0	33.7	33.5	33.6	33.4	30.9	32.2
Job leavers	12.2	12.8	12.3	12.7	13.8	13.4	14.8	14.4	14.5	15.0	14.8	16.0	15.8
Reentrants	26.4	26.0	26.2	26.6	26.8	27.1	27.0	26.8	27.4	26.8	27.6	29.8	28.9
New entrants	12.7	12.4	12.6	12.3	12.1	12.6	12.5	12.5	11.8	12.0	11.7	10.8	10.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.4	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.5	2.5	2.4	2.3	2.4
Job leavers .....	.9	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
Reentrants	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.6	1.5
New entrants .....	.9	.8	.8	.8	.7	.7	.7	.7	.6	.6	.6	.6	.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason, sex, and race	1986		1987				1988				1989		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Total not in labor force	62,630	62,817	62,917	62,813	62,970	62,915	62,922	63,037	62,959	62,865	62,482	62,388	62,597
Do not want a job now	56,695	56,987	57,062	57,048	57,324	57,357	57,490	57,630	58,202	57,491	57,310	57,046	57,853
Current activity:													
Going to school	6,121	6,343	6,423	6,388	6,317	6,436	6,350	6,329	7,022	6,229	6,365	6,292	7,312
Ill, disabled	4,088	3,907	4,147	4,207	4,431	4,397	4,292	4,482	4,453	4,730	4,528	4,782	4,659
Keeping house	26,120	26,069	26,205	25,553	25,563	25,578	25,304	25,339	25,331	24,588	24,550	24,062	23,988
Retired	15,840	16,025	15,870	16,259	16,341	16,456	16,869	16,797	16,825	17,251	17,179	17,407	17,688
Other activity	4,525	4,643	4,416	4,641	4,672	4,490	4,675	4,683	4,571	4,693	4,688	4,503	4,206
Want a job now	5,931	5,848	5,775	5,885	5,788	5,455	5,484	5,318	5,276	5,418	5,313	5,331	5,509
Reason not looking:													
School attendance	1,511	1,415	1,364	1,479	1,516	1,371	1,327	1,286	1,387	1,412	1,279	1,274	1,477
Ill health, disability	905	769	854	906	838	849	849	832	794	750	910	965	889
Home responsibilities	1,200	1,357	1,240	1,326	1,265	1,237	1,193	1,209	1,128	1,145	1,177	1,151	1,169
Think cannot get a job	1,160	1,150	1,107	1,053	1,026	913	990	914	941	951	855	869	815
Job-market factors	753	828	735	706	652	587	667	600	599	597	562	519	511
Personal factors	407	322	373	347	374	326	323	314	341	354	293	350	305
Other reasons ¹	1,155	1,158	1,209	1,122	1,142	1,085	1,125	1,076	1,026	1,160	1,093	1,072	1,159
Men													
Total not in labor force	20,426	20,453	20,494	20,647	20,840	20,839	20,866	20,858	20,926	21,084	20,861	20,839	21,101
Do not want a job now	18,270	18,424	18,478	18,623	18,869	18,868	19,012	18,888	19,100	19,062	19,085	18,929	19,284
Want a job now	2,066	2,000	1,996	2,081	2,044	1,902	1,966	1,889	1,920	1,985	1,946	1,932	2,031
Reason not looking:													
School attendance	793	666	680	753	742	719	654	677	669	716	632	639	735
Ill health, disability	440	361	415	464	407	417	410	367	379	351	420	471	487
Think cannot get a job	431	499	452	437	445	364	440	414	447	446	410	410	340
Other reasons ¹	401	473	450	427	449	403	462	431	425	473	484	412	470
Women													
Total not in labor force	42,204	42,365	42,423	42,166	42,130	42,076	42,056	42,180	42,035	41,781	41,621	41,549	41,498
Do not want a job now	38,425	38,563	38,583	38,425	38,455	38,488	38,478	38,742	39,103	38,428	38,225	38,118	38,569
Want a job now	3,865	3,848	3,779	3,804	3,744	3,553	3,518	3,429	3,356	3,433	3,367	3,399	3,478
Reason not looking:													
School attendance	717	749	685	726	774	652	673	609	718	697	646	635	742
Ill health, disability	466	408	439	442	431	432	439	466	415	399	491	494	403
Home responsibilities	1,200	1,357	1,240	1,326	1,265	1,237	1,193	1,209	1,128	1,145	1,177	1,151	1,169
Think cannot get a job	729	651	655	615	581	549	551	500	494	505	445	460	475
Other reasons ¹	753	684	760	695	693	682	663	645	601	688	609	660	689
White													
Total not in labor force	53,474	53,569	53,700	53,582	53,759	53,690	53,517	53,493	53,447	53,325	52,980	52,888	53,074
Do not want a job now	49,185	49,353	49,445	49,291	49,496	49,594	49,547	49,651	49,728	49,381	49,280	49,060	49,320
Want a job now	4,287	4,209	4,187	4,362	4,277	4,012	4,012	3,886	3,691	3,854	3,844	3,835	3,774
Reason not looking:													
School attendance	1,013	955	955	1,108	1,058	962	954	917	908	911	885	906	1,003
Ill health, disability	630	542	615	687	645	651	640	639	556	511	704	684	583
Home responsibilities	900	982	924	954	950	901	848	846	806	828	793	835	793
Think cannot get a job	827	801	745	718	679	611	670	596	600	676	570	527	514
Other reasons ¹	916	929	948	895	945	887	900	888	821	928	892	882	881
Black													
Total not in labor force	7,428	7,411	7,382	7,427	7,322	7,314	7,431	7,561	7,497	7,471	7,445	7,542	7,555
Do not want a job now	6,022	6,036	5,976	6,151	6,083	6,090	6,115	6,340	6,227	6,182	6,134	6,303	5,971
Want a job now	1,390	1,394	1,388	1,323	1,207	1,211	1,301	1,267	1,241	1,259	1,315	1,325	1,613
Reason not looking:													
School attendance	411	373	344	326	322	335	346	327	316	374	335	316	430
Ill health, disability	240	197	227	196	158	173	197	187	217	206	206	261	297
Home responsibilities	271	304	290	314	279	299	308	315	270	272	343	266	365
Think cannot get a job	271	297	327	314	294	244	264	276	290	210	253	323	272
Other reasons ¹	197	223	201	173	154	161	185	162	147	197	178	160	250

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 1988	III 1989	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL										
Total not in labor force	61,798	61,447	5,423	5,293	3,526	3,360	21,291	20,988	31,558	31,806
Do not want a job now	56,816	56,153	4,586	4,354	2,838	2,672	18,419	17,925	30,970	31,201
Current activity:										
Going to school	3,774	3,855	2,154	2,285	969	958	632	589	20	23
Ill, disabled	4,447	4,694	50	63	122	93	2,202	2,405	2,072	2,134
Keeping house	25,380	24,028	419	410	1,174	1,101	12,197	11,586	11,588	10,932
Retired	17,044	18,026	-	-	-	-	481	414	16,563	17,613
Other activity	6,171	5,550	1,963	1,596	573	521	2,907	2,932	727	501
Want a job now	4,982	5,294	835	939	690	687	2,927	3,063	588	605
Reason for not looking:										
School attendance	808	912	406	493	149	194	252	215	-	10
Ill health, disability	791	915	24	20	42	59	540	676	186	161
Home responsibilities	1,237	1,307	71	54	206	209	915	1,006	46	37
Think cannot get a job	952	835	139	160	148	72	531	439	134	164
Job-market factors	600	513	70	86	95	32	377	322	57	73
Personal factors	352	322	69	74	52	40	153	117	77	91
Other reasons ¹	1,194	1,325	195	212	143	153	635	727	222	233
Men										
Total not in labor force	20,000	20,135	2,544	2,474	1,065	1,044	4,180	4,184	12,211	12,434
Do not want a job now	18,311	18,322	2,129	2,013	818	802	3,424	3,350	11,941	12,157
Current activity:										
Going to school	1,850	1,908	1,103	1,143	480	484	269	277	-	4
Ill, disabled	2,290	2,418	19	35	64	50	1,281	1,345	924	987
Keeping house	468	430	52	20	10	12	168	148	238	250
Retired	10,692	10,907	-	-	-	-	359	293	10,334	10,614
Other activity	3,012	2,660	955	815	264	256	1,347	1,287	445	302
Want a job now	1,689	1,813	416	460	247	242	755	835	271	277
Reason for not looking:										
School attendance	379	440	232	259	71	94	75	81	-	6
Ill health, disability	376	503	6	12	17	42	265	370	89	80
Think cannot get a job	448	351	79	75	82	41	212	163	75	72
Other reasons ¹	487	519	99	115	77	64	203	221	107	119
Women										
Total not in labor force	41,798	41,311	2,879	2,819	2,461	2,316	17,111	16,804	19,347	19,372
Do not want a job now	38,505	37,831	2,459	2,341	2,020	1,870	14,996	14,576	19,031	19,044
Current activity:										
Going to school	1,924	1,947	1,051	1,142	490	474	364	312	20	19
Ill, disabled	2,158	2,276	31	28	57	42	921	1,060	1,148	1,146
Keeping house	24,912	23,598	368	390	1,164	1,089	12,029	11,438	11,351	10,682
Retired	6,352	7,120	-	-	-	-	122	121	6,230	6,999
Other activity	3,159	2,890	1,009	781	309	265	1,560	1,646	282	199
Want a job now	3,293	3,481	420	479	441	446	2,117	2,228	316	328
Reason not looking:										
School attendance	429	472	174	234	78	100	177	133	-	4
Ill health, disability	415	412	19	9	26	17	274	306	97	81
Home responsibilities	1,237	1,307	71	54	206	209	915	1,006	46	37
Think cannot get a job	504	484	59	85	66	31	319	276	59	92
Other reasons	708	806	97	97	65	89	432	506	114	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 1988	III 1989	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
WHITE												
Total not in labor force	52,518	52,175	6,659	6,465	17,563	17,314	28,298	28,396	16,783	16,860	35,736	35,316
Do not want a job now	48,975	48,513	5,657	5,430	15,489	15,188	27,827	27,895	15,567	15,602	33,408	32,910
Current activity:												
Going to school	2,771	2,874	2,283	2,433	469	421	18	20	1,397	1,417	1,374	1,457
Ill, disabled	3,442	3,670	134	118	1,683	1,833	1,627	1,719	1,747	1,892	1,695	1,777
Keeping house	22,444	21,302	1,316	1,226	10,565	10,183	10,561	9,893	365	337	22,079	20,965
Retired	15,384	16,176	-	-	429	367	14,954	15,809	9,710	9,838	5,674	6,338
Other activity	4,934	4,491	1,924	1,653	2,343	2,385	667	453	2,348	2,118	2,586	2,373
Want a job now	3,545	3,658	1,000	1,031	2,071	2,156	469	472	1,215	1,281	2,327	2,377
Reason for not looking:												
School attendance	517	607	355	444	163	153	-	10	241	319	275	288
Ill health, disability	552	597	45	49	376	444	129	104	278	346	274	251
Home responsibilities	902	898	174	162	688	711	41	25	-	-	902	898
Think cannot get a job	583	509	150	106	328	281	104	122	277	206	305	303
Other reasons ¹	991	1,048	276	270	516	567	195	211	419	411	571	637
BLACK												
Total not in labor force	7,284	7,347	1,813	1,755	2,726	2,784	2,746	2,808	2,579	2,638	4,705	4,709
Do not want a job now	6,134	5,875	1,386	1,205	2,118	1,981	2,631	2,689	2,198	2,155	3,935	3,719
Current activity:												
Going to school	714	667	625	573	87	94	2	-	298	320	416	347
Ill, disabled	916	945	36	29	462	520	418	396	496	477	419	468
Keeping house	2,156	1,966	233	227	1,097	922	827	818	83	90	2,073	1,876
Retired	1,401	1,470	-	-	44	32	1,357	1,437	806	839	595	631
Other activity	947	826	492	377	428	412	27	37	515	430	432	396
Want a job now	1,150	1,472	427	550	608	804	116	119	381	482	771	990
Reason for not looking:												
School attendance	197	264	146	214	51	50	-	-	95	103	102	161
Ill health, disability	222	310	17	31	148	224	58	56	97	154	126	156
Home responsibilities	265	362	86	93	174	256	5	12	-	-	265	362
Think cannot get a job	317	296	127	121	161	139	29	37	144	130	174	167
Other reasons ¹	149	239	51	91	74	134	24	14	45	95	104	145
HISPANIC ORIGIN												
Total not in labor force	4,278	4,390	1,081	1,101	2,057	2,126	1,140	1,163	1,130	1,154	3,148	3,236
Do not want a job now	3,752	3,810	858	821	1,785	1,851	1,107	1,138	960	976	2,792	2,834
Current activity:												
Going to school	331	376	293	315	38	61	-	-	163	164	168	212
Ill, disabled	346	373	20	13	187	257	137	105	171	151	174	222
Keeping house	2,074	1,955	316	276	1,283	1,292	474	386	53	37	2,022	1,918
Retired	511	644	-	-	35	15	476	629	338	377	173	268
Other activity	490	462	229	217	242	227	20	18	235	248	255	214
Want a job now	526	501	221	170	274	307	33	23	168	141	356	359
Reason for not looking:												
School attendance	94	92	60	82	35	10	-	-	43	38	51	54
Ill health, disability	34	49	9	9	16	38	10	2	18	27	16	22
Home responsibilities	170	177	65	43	104	133	2	-	-	-	170	177
Think cannot get a job	124	74	44	9	71	60	10	6	58	16	66	59
Other reasons ¹	104	109	43	27	48	66	11	15	49	60	53	49

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 1989							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
TOTAL								
Personal factors:								
Employers think too young or old	107	23	1	10	73	77	29	6
Lacks education or training	126	31	31	50	14	67	49	6
Other personal handicap	89	21	8	56	4	65	22	11
Job-market factors:								
Could not find work	300	63	32	177	31	157	135	29
Thinks no job available	213	22	29	145	42	142	62	22
Men								
Personal factors:								
Employers think too young or old	51	15	1	3	32	38	12	3
Lacks education or training	51	9	18	19	6	23	23	-
Other personal handicap	40	11	-	29	-	28	10	1
Job-market factors:								
Could not find work	208	26	20	75	10	65	61	5
Thinks no job available	132	14	2	36	24	50	24	7
Women								
Personal factors:								
Employers think too young or old	56	8	-	7	41	39	17	4
Lacks education or training	75	22	13	32	8	44	26	6
Other personal handicap	49	9	8	27	4	37	12	10
Job-market factors:								
Could not find work	168	37	8	101	21	92	73	25
Thinks no job available	136	9	1	109	18	92	38	15

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 1988	III 1989	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL												
Do not intend to seek work	53,947	53,115	5,559	5,078	17,359	16,831	31,030	31,206	46,421	45,730	5,907	5,737
Intend to seek work in the next 12 months	7,850	8,332	3,391	3,575	3,932	4,157	528	600	6,098	6,441	1,377	1,609
Never worked	1,087	1,137	892	957	192	177	3	3	674	739	303	334
Last worked over 5 years ago	1,185	999	38	24	984	784	163	191	817	715	301	252
Last worked 1 to 5 years ago	1,765	1,919	425	478	1,162	1,234	177	207	1,368	1,476	321	378
Worked during previous 12 months	3,814	4,277	2,036	2,116	1,592	1,962	185	199	3,238	3,511	452	646
Men												
Do not intend to seek work	17,463	17,392	2,190	1,952	3,318	3,269	11,957	12,171	14,800	14,758	2,132	2,115
Intend to seek work in the next 12 months	2,537	2,743	1,421	1,566	862	915	254	263	1,983	2,126	448	523
Never worked	362	474	344	433	38	41	-	-	231	332	121	125
Last worked over 5 years ago	253	212	9	3	162	131	62	77	169	144	64	57
Last worked 1 to 5 years ago	503	513	151	152	252	257	101	104	399	390	80	105
Worked during previous 12 months	1,398	1,544	916	978	391	485	92	81	1,184	1,260	183	236
Women												
Do not intend to seek work	36,484	35,723	3,370	3,126	14,041	13,562	19,073	19,035	31,621	30,972	3,776	3,622
Intend to seek work in the next 12 months	5,313	5,589	1,969	2,009	3,070	3,242	273	337	4,115	4,316	929	1,087
Never worked	704	663	548	524	154	136	3	3	443	407	182	209
Last worked over 5 years ago	931	787	28	21	801	653	101	113	648	571	237	195
Last worked 1 to 5 years ago	1,262	1,406	274	326	912	977	76	103	969	1,087	241	273
Worked during previous 12 months	2,415	2,733	1,120	1,138	1,201	1,477	93	118	2,054	2,251	269	410

**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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL								
Civilian noninstitutional population	184,840	186,602	158,347	159,473	20,737	21,061	13,382	13,853
Civilian labor force	123,042	125,156	105,829	107,298	13,453	13,714	9,103	9,463
Percent of population	66.6	67.1	66.8	67.3	64.9	65.1	68.0	68.3
Employed	116,426	118,689	100,941	102,585	11,919	12,171	8,399	8,660
Agriculture	3,415	3,564	3,188	3,348	167	167	440	497
Nonagricultural industries	113,010	115,125	97,753	99,237	11,752	12,004	7,959	8,163
Unemployed	6,617	6,468	4,888	4,712	1,534	1,544	704	803
Unemployment rate	5.4	5.2	4.6	4.4	11.4	11.3	7.7	8.5
Not in labor force	61,798	61,447	52,518	52,175	7,284	7,347	4,278	4,390
Men, 16 years and over								
Civilian noninstitutional population	87,982	88,869	75,941	76,539	9,314	9,457	6,633	6,857
Civilian labor force	67,981	68,733	59,159	59,680	6,734	6,820	5,503	5,703
Percent of population	77.3	77.3	77.9	78.0	72.3	72.1	83.0	83.2
Employed	64,594	65,496	56,605	57,275	6,007	6,093	5,087	5,248
Agriculture	2,711	2,800	2,518	2,625	142	138	391	438
Nonagricultural industries	61,882	62,696	54,087	54,650	5,865	5,955	4,695	4,811
Unemployed	3,387	3,237	2,554	2,405	728	727	416	455
Unemployment rate	5.0	4.7	4.3	4.0	10.8	10.7	7.6	8.0
Not in labor force	20,000	20,135	16,783	16,860	2,579	2,638	1,130	1,154
Men, 20 years and over								
Civilian noninstitutional population	80,676	81,741	69,973	70,737	8,236	8,375	5,948	6,147
Civilian labor force	63,219	64,079	55,101	55,700	6,166	6,265	5,090	5,266
Percent of population	78.4	78.4	78.7	78.7	74.9	74.8	85.6	85.7
Employed	60,539	61,466	53,062	53,746	5,611	5,693	4,763	4,895
Agriculture	2,406	2,501	2,224	2,349	133	121	348	403
Nonagricultural industries	58,134	58,965	50,838	51,397	5,477	5,572	4,415	4,492
Unemployed	2,680	2,612	2,039	1,953	555	572	327	371
Unemployment rate	4.2	4.1	3.7	3.5	9.0	9.1	6.4	7.0
Not in labor force	17,457	17,662	14,872	15,037	2,070	2,110	859	881
Women, 16 years and over								
Civilian noninstitutional population	96,859	97,734	82,405	82,934	11,424	11,604	6,749	6,996
Civilian labor force	55,061	56,422	46,670	47,618	6,719	6,895	3,601	3,760
Percent of population	56.8	57.7	56.6	57.4	58.8	59.4	53.4	53.7
Employed	51,832	53,193	44,336	45,310	5,912	6,078	3,313	3,412
Agriculture	704	764	671	724	25	28	49	59
Nonagricultural industries	51,128	52,429	43,666	44,586	5,887	6,049	3,264	3,353
Unemployed	3,229	3,229	2,334	2,308	806	817	288	348
Unemployment rate	5.9	5.7	5.0	4.8	12.0	11.9	8.0	9.3
Not in labor force	41,798	41,311	35,736	35,316	4,705	4,709	3,148	3,236
Women, 20 years and over								
Civilian noninstitutional population	89,664	90,685	76,541	77,236	10,318	10,504	6,079	6,303
Civilian labor force	50,745	52,193	42,950	44,037	6,214	6,372	3,276	3,442
Percent of population	56.6	57.6	56.1	57.0	60.2	60.7	53.9	54.6
Employed	48,114	49,574	41,050	42,144	5,564	5,732	3,037	3,159
Agriculture	647	711	615	672	24	28	46	55
Nonagricultural industries	47,467	48,863	40,435	41,473	5,540	5,704	2,991	3,104
Unemployed	2,631	2,619	1,899	1,893	650	640	239	283
Unemployment rate	5.2	5.0	4.4	4.3	10.5	10.0	7.3	8.2
Not in labor force	38,919	38,492	33,591	33,198	4,105	4,132	2,803	2,861
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,500	14,177	11,833	11,500	2,183	2,182	1,355	1,402
Civilian labor force	9,078	8,884	7,778	7,561	1,073	1,077	738	755
Percent of population	62.6	62.7	65.7	65.7	49.2	49.3	54.5	53.8
Employed	7,772	7,649	6,828	6,695	744	745	600	606
Agriculture	362	351	349	328	10	17	47	38
Nonagricultural industries	7,410	7,298	6,480	6,367	734	728	553	568
Unemployed	1,306	1,235	950	866	328	332	138	149
Unemployment rate	14.4	13.9	12.2	11.5	30.6	30.8	18.7	19.7
Not in labor force	5,423	5,293	4,055	3,939	1,110	1,105	617	647

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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL								
Civilian noninstitutional population	13,382	13,853	8,179	8,521	1,581	1,540	821	829
Civilian labor force	9,103	9,463	5,725	5,992	878	900	553	522
Percent of population	68.0	68.3	70.0	70.3	55.5	58.4	67.4	63.0
Employed	8,399	8,660	5,246	5,457	795	800	525	493
Agriculture	440	497	404	451	3	11	2	1
Nonagricultural industries	7,959	8,163	4,842	5,007	792	789	523	492
Unemployed	704	803	479	535	83	100	28	29
Unemployment rate	7.7	8.5	8.4	8.9	9.5	11.1	5.0	5.6
Not in labor force	4,278	4,390	2,453	2,529	703	640	268	306
Men, 16 years and over								
Civilian noninstitutional population	6,633	6,857	4,207	4,345	701	682	396	403
Civilian labor force	5,503	5,703	3,584	3,669	511	535	310	312
Percent of population	83.0	83.2	85.2	84.4	72.9	78.5	78.3	77.5
Employed	5,087	5,248	3,295	3,366	457	470	300	296
Agriculture	391	438	358	394	3	10	2	1
Nonagricultural industries	4,695	4,811	2,937	2,972	454	461	298	295
Unemployed	416	455	289	303	54	64	10	16
Unemployment rate	7.6	8.0	8.1	8.3	10.6	12.0	3.4	5.2
Not in labor force	1,130	1,154	623	676	190	147	86	91
Men, 20 years and over								
Civilian noninstitutional population	5,948	6,147	3,732	3,849	633	613	382	379
Civilian labor force	5,090	5,266	3,270	3,339	484	502	303	302
Percent of population	85.6	85.7	87.6	86.8	76.5	82.0	79.3	79.9
Employed	4,763	4,895	3,058	3,097	432	450	293	287
Agriculture	348	403	322	363	3	10	2	1
Nonagricultural industries	4,415	4,492	2,736	2,735	429	440	291	286
Unemployed	327	371	212	242	53	52	10	15
Unemployment rate	6.4	7.0	6.5	7.3	10.8	10.4	3.4	5.1
Not in labor force	859	881	462	510	148	111	79	76
Women, 16 years and over								
Civilian noninstitutional population	6,749	6,996	3,971	4,176	881	859	425	426
Civilian labor force	3,601	3,760	2,141	2,323	367	365	243	210
Percent of population	53.4	53.7	53.9	55.6	41.7	42.5	57.2	49.3
Employed	3,313	3,412	1,951	2,092	338	330	226	197
Agriculture	49	59	46	57	-	1	-	-
Nonagricultural industries	3,264	3,353	1,905	2,035	338	328	226	197
Unemployed	288	348	190	232	29	35	17	13
Unemployment rate	8.0	9.3	8.9	10.0	7.9	9.7	7.1	6.3
Not in labor force	3,148	3,236	1,830	1,853	514	494	182	216
Women, 20 years and over								
Civilian noninstitutional population	6,079	6,303	3,524	3,721	789	777	401	413
Civilian labor force	3,276	3,442	1,910	2,102	336	335	229	201
Percent of population	53.9	54.6	54.2	56.5	42.6	43.1	57.1	48.6
Employed	3,037	3,159	1,757	1,916	313	305	213	189
Agriculture	46	55	43	53	-	1	-	-
Nonagricultural industries	2,991	3,104	1,714	1,863	314	304	213	190
Unemployed	239	283	154	185	23	30	17	11
Unemployment rate	7.3	8.2	8.0	8.8	6.8	9.0	7.2	5.6
Not in labor force	2,803	2,861	1,614	1,620	453	442	171	212
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,355	1,402	923	951	159	151	38	37
Civilian labor force	738	755	545	551	58	63	20	19
Percent of population	54.5	53.8	59.0	58.0	36.5	41.6	(²)	(²)
Employed	600	606	431	444	5.0	4.6	2.0	1.6
Agriculture	47	38	39	35	-	-	-	-
Nonagricultural industries	553	568	392	409	5.0	4.5	2.0	1.6
Unemployed	138	149	114	107	8	17	1	3
Unemployment rate	18.7	19.7	20.9	19.5	(²)	27.3	(²)	(²)
Not in labor force	617	647	378	399	102	88	18	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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
CHARACTERISTIC								
Total (all civilian workers)	116,426	118,689	100,941	102,585	11,919	12,171	8,399	8,660
Men	64,594	65,496	56,605	57,275	6,007	6,093	5,087	5,248
Women	51,832	53,193	44,336	45,310	5,912	6,078	3,313	3,412
OCCUPATION								
Managerial and professional specialty	29,174	30,160	26,355	27,193	1,827	1,868	1,118	1,095
Executive, administrative, and managerial	14,473	15,026	13,241	13,658	843	888	602	590
Professional specialty	14,701	15,134	13,113	13,534	983	980	516	505
Technical, sales, and administrative support	35,765	36,324	31,314	31,747	3,311	3,405	2,100	2,026
Technicians and related support	3,648	3,671	3,073	3,129	381	366	167	138
Sales occupations	13,855	14,176	12,610	12,804	830	953	717	681
Administrative support, including clerical	18,262	18,476	15,631	15,814	2,099	2,086	1,216	1,206
Service occupations	15,495	15,945	12,244	12,472	2,724	2,851	1,606	1,720
Private household	930	880	707	637	206	217	145	133
Protective service	2,055	2,050	1,674	1,637	349	368	144	110
Service, except private household and protective	12,510	13,014	9,862	10,198	2,170	2,265	1,318	1,477
Precision production, craft, and repair	13,853	13,973	12,444	12,470	1,056	1,112	1,066	1,151
Mechanics and repairers	4,440	4,485	3,991	4,003	340	366	325	332
Construction trades	5,310	5,374	4,871	4,861	358	393	427	471
Other precision production, craft, and repair	4,103	4,114	3,582	3,605	358	353	315	348
Operators, fabricators, and laborers	18,314	18,315	15,080	15,037	2,746	2,696	2,031	2,126
Machine operators, assemblers, and inspectors	8,181	8,302	6,699	6,782	1,209	1,191	1,100	1,155
Transportation and material moving occupations	4,956	5,021	4,091	4,201	766	719	348	401
Handlers, equipment cleaners, helpers, and laborers	5,176	4,992	4,290	4,054	772	785	584	570
Construction laborers	957	828	801	683	135	123	148	108
Other handlers, equipment cleaners, helpers, and laborers	4,219	4,164	3,489	3,370	636	663	436	462
Farming, forestry, and fishing	3,825	3,973	3,504	3,666	255	239	477	543
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,746	1,880	1,567	1,714	135	135	367	440
Self-employed workers	1,491	1,525	1,443	1,478	32	31	68	49
Unpaid family workers	179	159	178	156	-	1	5	8
Nonagricultural industries:								
Wage and salary workers	104,131	106,163	89,639	91,015	11,351	11,601	7,505	7,675
Government	16,644	17,084	13,544	13,835	2,529	2,664	1,018	961
Private industries	87,488	89,079	76,095	77,180	8,822	8,937	6,487	6,714
Private households	1,177	1,145	898	850	257	265	164	165
Other industries	86,311	87,934	75,197	76,330	8,565	8,672	6,322	6,549
Self-employed workers	8,631	8,690	7,909	7,968	394	398	436	471
Unpaid family workers	248	272	205	253	7	5	19	17
FULL- AND PART-TIME STATUS¹								
Full-time schedules	95,800	98,052	82,943	84,695	9,892	10,071	7,080	7,301
Part time for economic reasons	5,468	5,034	4,463	4,037	821	826	632	599
Part time for noneconomic reasons	15,158	15,603	13,534	13,854	1,207	1,274	688	760

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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
CHARACTERISTIC								
Total (all civilian workers)	8,399	8,660	5,246	5,457	795	800	525	493
Men	5,087	5,248	3,295	3,366	457	470	300	296
Women	3,313	3,412	1,951	2,092	338	330	226	197
OCCUPATION								
Managerial and professional specialty	1,118	1,095	546	579	126	119	125	111
Executive, administrative, and managerial	602	590	311	317	65	79	76	65
Professional specialty	516	505	235	262	61	40	49	45
Technical, sales, and administrative support	2,100	2,026	1,166	1,145	217	217	187	173
Technicians and related support	167	138	90	71	22	15	13	11
Sales occupations	717	681	416	393	41	56	62	63
Administrative support, including clerical	1,216	1,206	660	682	154	146	112	99
Service occupations	1,606	1,720	1,041	1,082	151	146	71	71
Private household	145	133	77	75	2	4	6	2
Protective service	144	110	102	61	23	18	5	12
Service, except private household and protective	1,318	1,477	861	946	125	124	60	57
Precision production, craft, and repair	1,066	1,151	679	720	114	116	59	64
Mechanics and repairers	325	332	209	191	40	45	16	19
Construction trades	427	471	278	312	32	35	28	28
Other precision production, craft, and repair	315	348	192	218	42	37	15	17
Operators, fabricators, and laborers	2,031	2,126	1,384	1,450	180	187	81	71
Machine operators, assemblers, and inspectors	1,100	1,155	739	796	96	98	42	34
Transportation and material moving occupations	348	401	221	253	39	37	18	16
Handlers, equipment cleaners, helpers, and laborers	584	570	425	401	45	51	21	21
Construction laborers	148	108	109	83	11	3	4	5
Other handlers, equipment cleaners, helpers, and laborers	436	462	316	319	35	48	17	16
Farming, forestry, and fishing	477	543	430	481	7	16	3	3
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	367	440	344	406	1	8		
Self-employed workers	68	49	55	38	2	3	2	
Unpaid family workers	5	8	5	7				
Nonagricultural industries:								
Wage and salary workers	7,505	7,675	4,599	4,755	769	758	470	452
Government	1,018	961	598	586	163	134	65	54
Private industries	6,487	6,714	4,000	4,169	606	624	405	398
Private households	164	165	91	97	3	7	6	2
Other industries	6,322	6,549	3,909	4,072	603	617	399	396
Self-employed workers	436	471	234	243	22	31	52	40
Unpaid family workers	19	17	9	8	1	-	1	
FULL- AND PART-TIME STATUS²								
Full-time schedules	7,080	7,301	4,376	4,562	681	696	462	435
Part time for economic reasons	632	599	480	443	36	30	24	13
Part time for noneconomic reasons	688	760	390	453	79	74	39	45

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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
Total, 16 years and over	116,426	118,689	100,941	102,585	11,919	12,171	8,399	8,660
16 to 19 years	7,772	7,649	6,828	6,695	744	745	600	606
16 to 17 years	3,187	3,036	2,824	2,628	293	331	210	193
18 to 19 years	4,585	4,613	4,004	4,067	451	414	390	413
20 to 24 years	13,645	13,402	11,776	11,449	1,479	1,496	1,381	1,372
25 years and over	95,008	97,638	82,336	84,442	9,695	9,930	6,418	6,682
25 to 54 years	80,456	82,855	69,397	71,292	8,413	8,677	5,760	5,972
55 years and over	14,553	14,783	12,939	13,150	1,283	1,253	658	710
Men, 16 years and over	64,594	65,496	56,605	57,275	6,007	6,093	5,087	5,248
16 to 19 years	4,055	4,030	3,543	3,529	396	400	324	353
16 to 17 years	1,698	1,618	1,501	1,403	159	176	103	104
18 to 19 years	2,356	2,412	2,041	2,126	237	224	221	250
20 to 24 years	7,217	7,015	6,241	6,036	776	741	846	850
25 years and over	53,323	54,451	46,821	47,710	4,835	4,952	3,917	4,045
25 to 54 years	44,785	45,931	39,150	40,044	4,148	4,304	3,546	3,629
55 years and over	8,538	8,519	7,671	7,666	687	648	370	416
Women, 16 years and over	51,832	53,193	44,336	45,310	5,912	6,078	3,313	3,412
16 to 19 years	3,718	3,619	3,286	3,166	349	345	276	253
16 to 17 years	1,489	1,419	1,323	1,225	134	154	107	89
18 to 19 years	2,229	2,200	1,963	1,941	214	191	169	164
20 to 24 years	6,429	6,387	5,536	5,412	703	754	535	522
25 years and over	41,685	43,187	35,515	36,732	4,860	4,978	2,501	2,637
25 to 54 years	35,670	36,924	30,247	31,247	4,265	4,373	2,214	2,343
55 years and over	6,015	6,264	5,268	5,485	596	605	288	293

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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
Total, 16 years and over	5.4	5.2	4.6	4.4	11.4	11.3	7.7	8.5
16 to 19 years	14.4	13.9	12.2	11.5	30.6	30.8	18.7	19.7
16 to 17 years	16.7	16.0	14.4	13.7	33.8	29.7	24.7	30.0
18 to 19 years	12.7	12.5	10.6	10.0	28.4	31.7	15.1	13.8
20 to 24 years	8.1	8.3	6.6	6.9	18.7	17.7	9.7	11.6
25 years and over	4.1	3.9	3.6	3.4	8.2	8.2	6.1	6.6
25 to 54 years	4.4	4.1	3.8	3.6	8.8	8.6	6.2	6.8
55 years and over	2.9	2.9	2.7	2.6	3.8	6.0	5.2	4.9
Men, 16 years and over	5.0	4.7	4.3	4.0	10.8	10.7	7.6	8.0
16 to 19 years	14.9	13.4	12.7	11.3	30.3	27.8	21.7	19.2
16 to 17 years	16.9	16.3	14.4	13.7	34.3	31.5	28.1	31.9
18 to 19 years	13.3	11.4	11.4	9.7	27.3	24.7	18.3	12.5
20 to 24 years	7.8	8.5	6.5	7.2	16.9	17.6	8.6	11.0
25 years and over	3.7	3.5	3.3	3.0	7.6	7.7	6.0	6.2
25 to 54 years	3.9	3.6	3.4	3.1	8.3	7.9	5.9	6.2
55 years and over	2.8	2.9	2.6	2.5	2.8	6.6	5.6	6.4
Women, 16 years and over	5.9	5.7	5.0	4.8	12.0	11.9	8.0	9.3
16 to 19 years	13.9	14.4	11.7	11.6	30.9	33.9	15.0	20.4
16 to 17 years	16.5	15.6	14.4	13.7	33.1	27.5	21.2	27.6
18 to 19 years	12.0	13.7	9.7	10.2	29.5	38.4	10.5	15.8
20 to 24 years	8.5	8.2	6.7	6.6	20.5	17.7	11.4	12.5
25 years and over	4.7	4.5	4.1	3.9	8.8	8.7	6.4	7.3
25 to 54 years	4.9	4.8	4.3	4.2	9.3	9.2	6.6	7.9
55 years and over	3.0	2.9	2.7	2.7	4.9	5.2	4.3	2.8

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
DURATION								
Total, 16 years and over	6,617	6,466	4,888	4,712	1,534	1,544	704	803
Less than 5 weeks	3,189	3,240	2,405	2,443	692	688	386	417
5 to 14 weeks	1,971	1,984	1,463	1,400	452	523	208	236
15 weeks and over	1,457	1,242	1,020	870	390	333	110	149
15 to 26 weeks	666	660	496	467	155	170	61	85
27 weeks and over	791	582	524	403	235	163	49	64
Average (mean) duration, in weeks	13.2	11.2	12.4	10.8	15.7	12.7	9.3	10.7
Median duration, in weeks	5.4	4.5	5.2	4.3	6.4	5.7	4.6	4.3
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	48.2	50.1	49.2	51.8	45.1	44.6	54.8	52.0
5 to 14 weeks	29.8	30.7	29.9	29.7	29.5	33.9	29.5	29.4
15 weeks and over	22.0	19.2	20.9	18.5	25.4	21.6	15.6	18.6
15 to 26 weeks	10.1	10.2	10.1	9.9	10.1	11.0	8.7	10.6
27 weeks and over	12.0	9.0	10.7	8.6	15.3	10.5	6.9	8.0

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

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

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,617	6,466	4,888	4,712	1,534	1,544	704	803
Job losers	2,859	2,728	2,176	2,037	619	615	360	400
On layoff	719	715	594	597	109	98	80	88
Other job losers	2,140	2,012	1,582	1,440	510	516	279	312
Job leavers	1,045	1,122	838	912	180	174	93	118
Reentrants	1,863	1,903	1,351	1,323	448	513	155	174
New entrants	850	714	524	441	286	242	96	110
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	43.2	42.2	44.5	43.2	40.4	39.8	51.1	49.8
On layoff	10.9	11.1	12.1	12.7	7.1	6.4	11.4	10.9
Other job losers	32.3	31.1	32.4	30.6	33.2	33.5	39.7	38.9
Job leavers	15.8	17.3	17.1	19.4	11.8	11.3	13.2	14.8
Reentrants	28.2	29.4	27.6	28.1	29.2	33.2	22.1	21.7
New entrants	12.8	11.0	10.7	9.4	18.7	15.7	13.6	13.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.3	2.2	2.1	1.9	4.6	4.5	4.0	4.2
Job leavers .....	.8	.9	.8	.8	1.3	1.3	1.0	1.3
Reentrants	1.5	1.5	1.3	1.2	3.3	3.7	1.7	1.8
New entrants .....	.7	.6	.5	.4	2.1	1.8	1.1	1.2

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	III 1988	III 1989	Total		Employed		Unemployed			
			III 1988	III 1989	III 1988	III 1989	Number		Percent of labor force	
							III 1988	III 1989	III 1988	III 1989
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,897	7,927	7,284	7,252	7,039	7,007	245	246	3.4	3.4
30 to 44 years	5,867	5,449	5,605	5,175	5,405	4,991	200	184	3.6	3.6
30 to 34 years	658	456	617	426	584	404	33	22	5.4	5.1
35 to 39 years	2,106	1,702	2,002	1,593	1,929	1,519	73	75	3.7	4.7
40 to 44 years	3,103	3,291	2,986	3,156	2,893	3,069	93	87	3.1	2.8
45 years and over	2,030	2,478	1,680	2,077	1,634	2,015	45	62	2.7	3.0
NONVETERANS										
Total, 30 to 44 years	20,541	21,567	19,509	20,446	18,776	19,739	734	707	3.8	3.5
30 to 34 years	9,163	9,383	8,754	8,960	8,392	8,641	362	319	4.1	3.6
35 to 39 years	6,875	7,472	6,533	7,082	6,307	6,842	226	240	3.5	3.4
40 to 44 years	4,503	4,712	4,223	4,405	4,077	4,256	146	149	3.4	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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL, 30 to 44 years												
Civilian noninstitutional population	5,219	4,850	570	528	261	206	17,611	18,504	2,080	2,196	1,877	2,007
Civilian labor force	5,013	4,630	520	483	253	191	16,876	17,679	1,860	1,973	1,771	1,883
Employed	4,848	4,478	490	454	244	178	16,319	17,149	1,711	1,819	1,668	1,756
Unemployed	165	152	30	29	9	13	557	530	149	153	103	127
Unemployment rate	3.3	3.3	5.8	6.1	3.5	6.7	3.3	3.0	8.0	7.8	5.8	6.8
30 to 34 years												
Civilian noninstitutional population	566	384	83	64	42	40	7,896	8,041	951	986	806	885
Civilian labor force	534	362	74	59	42	31	7,601	7,744	862	899	757	835
Employed	506	344	70	55	40	29	7,322	7,497	786	839	709	773
Unemployed	28	18	4	4	2	2	280	247	76	60	48	61
Unemployment rate	5.3	5.0	5.8	(¹)	(¹)	(¹)	3.7	3.2	8.8	6.6	6.4	7.4
35 to 39 years												
Civilian noninstitutional population	1,839	1,502	225	168	98	75	5,891	6,406	681	750	619	622
Civilian labor force	1,762	1,425	203	139	95	73	5,649	6,116	612	668	587	581
Employed	1,703	1,367	192	125	90	65	5,481	5,944	562	608	558	537
Unemployed	60	58	12	15	5	7	168	173	50	61	29	44
Unemployment rate	3.4	4.1	5.8	10.5	5.5	10.2	3.0	2.8	8.2	9.1	5.0	7.6
40 to 44 years												
Civilian noninstitutional population	2,814	2,964	262	295	120	92	3,823	4,056	448	460	451	500
Civilian labor force	2,717	2,842	242	285	116	87	3,626	3,819	385	405	426	467
Employed	2,640	2,767	229	274	114	84	3,516	3,709	362	372	401	446
Unemployed	77	76	14	11	2	3	110	110	23	33	25	21
Unemployment rate	2.8	2.7	5.7	3.8	1.7	3.8	3.0	2.9	5.9	8.1	5.8	4.6

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 1988					III 1989				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	Percent of families:		
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL										
Total families	64,586	5,050	28.0	72.0	63.1	65,117	4,783	27.1	72.9	66.4
With children under 18 years of age	31,567	3,010	30.8	69.2	60.7	31,660	2,731	31.5	68.5	63.1
Married-couple families	51,051	3,379	17.6	82.4	73.4	51,330	3,237	15.6	84.4	78.4
With children under 18 years of age	24,058	2,027	16.2	83.8	74.9	24,049	1,870	15.7	84.3	79.2
Families maintained by women	10,661	1,349	52.2	47.8	38.8	10,884	1,325	52.8	47.2	39.2
With children under 18 years of age	6,383	842	62.4	37.6	29.8	6,416	782	66.4	33.6	27.4
Families maintained by men	2,875	322	36.6	63.4	56.5	2,904	222	41.6	58.4	52.9
With children under 18 years of age	1,127	141	51.8	48.2	41.1	1,196	79	59.5	40.5	36.7
White										
Total families	55,571	3,790	24.7	75.3	66.4	55,858	3,559	23.8	76.2	69.9
With children under 18 years of age	26,440	2,234	26.1	73.9	65.3	26,298	2,021	27.2	72.8	67.5
Married-couple families	46,066	2,813	17.7	82.3	73.3	46,206	2,666	15.4	84.6	78.6
With children under 18 years of age	21,363	1,683	16.2	83.8	75.0	21,222	1,546	15.9	84.1	79.1
Families maintained by women	7,267	743	49.4	50.6	41.6	7,331	733	50.0	50.0	42.2
With children under 18 years of age	4,212	452	58.8	41.2	33.2	4,122	412	64.0	36.0	29.0
Families maintained by men	2,239	234	31.8	68.2	61.8	2,321	161	44.4	55.6	52.5
With children under 18 years of age	864	99	45.5	54.5	46.5	954	63	63.5	36.5	33.3
Black										
Total families	7,174	1,109	39.8	60.2	51.3	7,275	1,070	37.9	62.1	54.6
With children under 18 years of age	4,062	686	46.9	53.1	45.0	4,196	614	45.5	54.5	48.8
Married-couple families	3,547	452	16.8	83.2	73.7	3,579	463	15.9	84.1	78.0
With children under 18 years of age	1,845	272	15.4	84.6	74.3	1,887	252	13.1	86.9	80.6
Families maintained by women	3,115	581	55.4	44.6	35.8	3,242	554	56.5	43.5	35.2
With children under 18 years of age	2,003	377	66.6	33.4	26.0	2,111	348	69.0	31.0	25.6
Families maintained by men	512	76	56.6	43.4	36.8	454	54	(¹)	(¹)	(¹)
With children under 18 years of age	214	37	(¹)	(¹)	(¹)	199	14	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,574	531	27.0	73.0	63.4	4,877	619	26.8	73.2	67.0
With children under 18 years of age	2,942	362	28.2	71.8	63.0	3,146	438	32.0	68.0	64.6
Married-couple families	3,226	379	22.7	77.3	67.0	3,444	445	17.1	82.9	77.5
With children under 18 years of age	2,107	281	21.0	79.0	68.7	2,254	317	19.9	80.1	77.6
Families maintained by women	1,044	110	45.5	54.5	45.5	1,063	143	54.5	45.5	37.1
With children under 18 years of age	719	66	56.7	43.3	38.8	738	106	64.2	35.8	28.3
Families maintained by men	304	41	(¹)	(¹)	(¹)	371	31	(¹)	(¹)	(¹)
With children under 18 years of age	116	16	(¹)	(¹)	(¹)	154	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 1988			III 1989				
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed in families ¹	5,465	29.8	70.2	61.2	5,314	28.6	71.4	65.0
Husbands	1,082	37.3	62.7	48.0	1,058	34.8	65.2	55.0
With children under 18 years of age	681	40.3	59.7	43.7	634	41.2	58.8	48.7
Wives	1,150	14.4	85.6	79.7	1,146	11.5	88.5	84.1
With children under 18 years of age	713	12.4	87.6	81.6	713	10.5	89.5	86.3
Relatives in married-couple families	1,396	11.8	88.2	81.0	1,350	9.0	91.0	87.3
Women who maintain families	548	85.3	14.7	8.5	576	83.4	16.6	12.4
With children under 18 years of age	480	90.0	10.0	5.0	488	92.3	7.7	4.6
Relatives in families maintained by women	945	31.1	68.9	57.5	938	33.3	66.7	56.8
Men who maintain families	126	67.3	32.7	24.1	98	63.9	36.1	31.7
With children under 18 years of age	76	84.3	15.7	8.5	45	(²)	(²)	(²)
Relatives in families maintained by men	218	22.8	77.2	71.8	149	28.8	71.2	64.2
White								
Total unemployed in families ¹	4,010	26.9	73.1	64.2	3,850	25.4	74.6	68.4
Husbands	907	38.7	61.3	46.7	868	36.0	64.0	53.6
With children under 18 years of age	563	41.7	58.3	42.4	520	42.7	57.3	47.1
Wives	961	13.8	86.2	80.4	969	10.8	89.2	84.9
With children under 18 years of age	578	11.5	88.5	82.9	595	9.9	90.1	87.7
Relatives in married-couple families	1,100	10.7	89.3	82.3	1,059	8.1	91.9	88.2
Women who maintain families	286	81.1	18.9	11.6	312	78.5	21.5	16.3
With children under 18 years of age	249	87.9	12.1	6.5	254	91.4	8.6	4.5
Relatives in families maintained by women	512	30.9	69.1	58.1	467	32.3	67.7	59.0
Men who maintain families	83	63.1	36.9	26.1	80	63.6	36.4	33.1
With children under 18 years of age	46	(²)	(²)	(²)	38	(²)	(²)	(²)
Relatives in families maintained by men	161	21.1	78.9	74.5	96	31.9	68.1	63.9
Black								
Total unemployed in families ¹	1,293	39.1	60.9	51.3	1,294	38.1	61.9	54.6
Husbands	131	29.6	70.4	54.5	152	26.6	73.4	64.5
With children under 18 years of age	91	33.3	66.7	50.5	86	32.5	67.5	58.9
Wives	149	15.7	84.3	76.6	142	14.2	85.8	80.1
With children under 18 years of age	106	15.1	84.9	75.9	97	12.7	87.3	79.0
Relatives in married-couple families	258	15.7	84.3	75.7	248	13.9	86.1	82.7
Women who maintain families	250	90.1	9.9	5.1	247	90.5	9.5	6.1
With children under 18 years of age	224	92.3	7.7	3.2	222	93.4	6.6	4.3
Relatives in families maintained by women	421	31.2	68.8	56.6	444	34.5	65.5	54.6
Men who maintain families	36	(²)	(²)	(²)	14	(²)	(²)	(²)
With children under 18 years of age	27	(²)	(²)	(²)	6	(²)	(²)	(²)
Relatives in families maintained by men	49	(²)	(²)	(²)	46	(²)	(²)	(²)
Hispanic origin								
Total unemployed in families ¹	598	27.5	72.5	62.9	693	28.5	71.5	65.3
Husbands	143	46.2	53.8	36.5	165	40.5	59.5	51.7
With children under 18 years of age	101	49.0	51.0	31.7	118	49.1	50.9	45.6
Wives	106	21.0	79.0	73.6	136	15.5	84.5	81.1
With children under 18 years of age	80	18.5	81.5	75.0	103	17.1	82.9	82.1
Relatives in married-couple families	173	10.5	89.5	81.9	203	6.9	93.1	87.6
Women who maintain families	39	(²)	(²)	(²)	61	83.5	16.5	15.9
With children under 18 years of age	35	(²)	(²)	(²)	56	(²)	(²)	(²)
Relatives in families maintained by women	94	22.7	77.3	67.1	91	35.3	64.7	53.3
Men who maintain families	18	(²)	(²)	(²)	13	(²)	(²)	(²)
With children under 18 years of age	9	(²)	(²)	(²)	9	(²)	(²)	(²)
Relatives in families maintained by men	25	(²)	(²)	(²)	24	(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 1988				III 1989			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in families ¹	94,472	21.7	78.3	67.8	95,513	21.8	78.2	68.8
Husbands	38,957	29.2	70.8	53.8	39,208	28.8	71.2	55.3
With children under 18 years of age	22,394	31.4	68.6	48.2	22,433	31.3	68.7	50.0
Wives	27,559	7.8	92.2	87.7	28,214	7.9	92.1	88.6
With children under 18 years of age	14,732	4.1	95.9	92.2	15,020	4.0	96.0	93.6
Relatives in married-couple families	13,373	6.7	93.3	89.7	12,838	6.8	93.2	90.5
Women who maintain families	6,096	60.1	39.9	27.1	6,331	61.4	38.6	27.7
With children under 18 years of age	3,925	77.3	22.7	11.3	4,053	78.9	21.1	11.9
Relatives in families maintained by women	4,794	22.8	77.2	87.7	4,974	23.3	76.7	68.5
Men who maintain families	2,058	51.3	48.7	37.4	2,164	51.1	48.9	40.2
With children under 18 years of age	920	79.1	20.9	10.8	1,021	79.8	20.2	12.7
Relatives in families maintained by men	1,635	16.4	83.6	77.5	1,784	15.3	84.7	79.5
White								
Total employed in families ¹	82,274	21.1	78.9	68.1	82,925	21.1	78.9	69.3
Husbands	35,193	29.6	70.4	52.8	35,341	29.2	70.8	54.3
With children under 18 years of age	20,043	31.9	68.1	48.7	19,946	31.9	68.1	48.3
Wives	24,539	7.5	92.5	88.1	25,070	7.6	92.4	88.9
With children under 18 years of age	12,929	3.8	96.2	92.7	13,141	3.7	96.3	94.0
Relatives in married-couple families	11,787	6.6	93.4	89.8	11,299	6.6	93.4	90.9
Women who maintain families	4,314	57.3	42.7	29.0	4,438	59.4	40.6	29.5
With children under 18 years of age	2,742	75.8	24.2	11.9	2,779	78.7	21.3	12.0
Relatives in families maintained by women	3,482	23.2	76.8	67.3	3,533	23.3	76.7	69.0
Men who maintain families	1,657	50.1	49.9	37.5	1,778	49.3	50.7	41.4
With children under 18 years of age	730	77.0	23.0	11.6	827	78.2	21.8	13.6
Relatives in families maintained by men	1,303	15.5	84.5	78.5	1,467	13.6	86.4	81.8
Black								
Total employed in families ¹	9,248	27.8	72.2	63.7	9,350	28.9	71.1	63.6
Husbands	2,643	23.6	76.4	65.4	2,653	24.7	75.3	66.2
With children under 18 years of age	1,631	23.0	77.0	65.4	1,677	24.2	75.8	66.6
Wives	2,121	10.7	89.3	83.4	2,141	11.9	88.1	84.6
With children under 18 years of age	1,265	6.0	94.0	88.4	1,274	6.7	93.3	90.9
Relatives in married-couple families	1,102	9.0	91.0	86.5	1,025	10.4	89.6	85.2
Women who maintain families	1,653	68.1	31.9	21.8	1,725	66.3	33.7	23.1
With children under 18 years of age	1,113	80.9	19.1	9.6	1,174	79.1	20.9	11.7
Relatives in families maintained by women	1,169	22.2	77.8	68.3	1,302	22.9	77.1	67.6
Men who maintain families	313	59.3	40.7	33.7	294	64.6	35.4	29.0
With children under 18 years of age	160	88.8	11.2	5.7	162	87.5	12.5	7.2
Relatives in families maintained by men	245	21.5	78.5	71.8	212	27.5	72.5	65.4
Hispanic origin								
Total employed in families ¹	6,818	24.1	75.9	67.3	7,153	24.8	75.2	68.2
Husbands	2,652	35.4	64.6	52.9	2,821	35.3	64.7	53.4
With children under 18 years of age	1,886	38.5	61.5	48.5	2,022	38.0	62.0	50.4
Wives	1,600	7.5	92.5	87.5	1,688	8.8	91.2	87.7
With children under 18 years of age	1,033	5.6	94.4	89.7	1,123	6.1	93.9	90.4
Relatives in married-couple families	1,138	5.1	94.9	89.7	1,132	6.4	93.6	89.9
Women who maintain families	526	60.5	39.5	29.6	506	61.6	38.4	30.7
With children under 18 years of age	344	76.0	24.0	13.0	347	71.4	28.6	21.2
Relatives in families maintained by women	413	21.7	78.3	67.4	414	22.1	77.9	71.4
Men who maintain families	240	42.8	57.2	46.7	285	43.3	56.7	53.4
With children under 18 years of age	97	74.5	25.5	17.4	123	79.9	20.1	16.3
Relatives in families maintained by men	249	6.6	93.4	89.5	307	9.8	90.2	88.5

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

¹ Data for the third quarter of 1989 are not yet available because of processing problems.

² Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the

Armed Forces.

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	II 1988	II 1989 ¹	II 1988	II 1989 ¹
Married-couple families ²	2,405	2,405	\$455	\$473
Husband unemployed	680	627	252	272
Wife only earner	93	89	(³)	(³)
Wife and other earner(s)	67	62	(³)	(³)
Other earner(s) only	67	62	(³)	(³)
Wife unemployed	708	792	398	419
Husband only earner	592	663	356	399
Husband and other earner(s)	102	106	709	692
Other earner(s) only	13	24	(³)	(³)
Other member(s) unemployed	1,017	986	696	691
Husband or wife earner	406	342	598	526
Both husband and wife earners	577	620	777	868
Other combinations of earners	34	23	(³)	(³)
Families maintained by women ²	567	536	283	307
Householder unemployed	78	107	(³)	193
Other member(s) unemployed	489	428	310	334
Families maintained by men ²	158	109	321	378

¹ Data for the third quarter of 1989 are not yet available because of processing problems.

² Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other per-

son maintaining the family is either self-employed or in the Armed Forces.

³ Data not shown where base is less than 100,000.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	II 1988	II 1989	II 1988	II 1989
SEX AND AGE				
Total, 16 years and over	84,894	86,631	\$381	\$395
Men, 16 years and over	49,492	50,263	443	458
16 to 24 years	7,667	7,600	253	266
25 years and over	41,825	42,663	487	497
Women, 16 years and over	35,402	36,368	313	329
16 to 24 years	6,148	5,884	229	244
25 years and over	29,253	30,484	335	353
FAMILY RELATIONSHIP				
Husbands	31,031	31,277	500	511
Wives	18,032	18,403	328	346
Women who maintain families	4,842	4,981	317	324
Men who maintain families	1,685	1,706	421	425
Other persons in families:				
Men	7,622	7,764	261	276
Women	5,106	4,996	237	253
All other men ¹	9,153	9,516	412	427
All other women ¹	7,423	7,988	339	361
RACE, HISPANIC ORIGIN, AND SEX				
White	72,773	73,953	390	405
Men	43,024	43,586	458	476
Women	29,750	30,366	315	333
Black	9,595	9,740	315	320
Men	5,017	5,024	343	337
Women	4,578	4,717	295	309
Hispanic origin	6,742	6,885	290	298
Men	4,219	4,335	307	315
Women	2,523	2,550	261	269

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	
	II 1988	II 1989	II 1988	II 1989
SEX AND AGE				
Total, 16 years and over	17,702	17,932	\$110	\$115
Men, 16 years and over	5,519	5,455	106	109
16 to 24 years	3,151	2,996	93	96
25 years and over	2,369	2,459	136	138
Women, 16 years and over	12,182	12,478	112	118
16 to 24 years	3,831	3,937	91	96
25 years and over	8,351	8,540	127	136
FAMILY RELATIONSHIP				
Husbands	1,447	1,412	140	145
Wives	6,330	6,488	134	140
Women who maintain families	878	978	110	121
Men who maintain families	122	126	142	121
Other persons in families:				
Men	3,054	2,996	92	95
Women	3,313	3,362	88	94
All other men ¹	897	919	124	131
All other women ¹	1,661	1,649	112	119
RACE, HISPANIC ORIGIN, AND SEX				
White	15,396	15,443	111	117
Men	4,669	4,512	106	110
Women	10,727	10,932	114	120
Black	1,815	1,918	99	103
Men	641	711	99	103
Women	1,174	1,206	98	102
Hispanic origin	1,078	1,107	114	113
Men	461	435	121	116
Women	617	673	108	110

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	
	1988	1989	1988	1989
TOTAL				
Managerial and professional specialty	22,028	22,707	\$557	\$582
Executive, administrative, and managerial	11,149	11,591	551	571
Professional specialty	10,879	11,115	561	590
Technical, sales, and administrative support	25,625	25,549	342	358
Technicians and related support	3,168	3,120	440	460
Sales occupations	7,995	8,191	366	375
Administrative support, including clerical	14,462	14,239	316	333
Service occupations	8,731	9,487	240	246
Private household	389	367	130	150
Protective service	1,737	1,757	415	432
Service, except private household and protective	6,605	7,363	222	229
Precision production, craft, and repair	11,394	11,532	427	452
Mechanics and repairers	3,809	3,955	431	452
Construction trades	3,826	3,931	421	453
Other precision production, craft, and repair	3,759	3,646	430	451
Operators, fabricators, and laborers	15,510	15,686	311	321
Machine operators, assemblers, and inspectors	7,638	7,734	302	310
Transportation and material moving occupations	3,975	4,158	388	401
Handlers, equipment cleaners, helpers, and laborers	3,897	3,794	270	287
Farming, forestry, and fishing	1,607	1,670	226	249
Men				
Managerial and professional specialty	12,187	12,170	669	695
Executive, administrative, and managerial	6,403	6,572	687	697
Professional specialty	5,784	5,599	650	693
Technical, sales, and administrative support	9,409	9,414	463	466
Technicians and related support	1,795	1,669	517	526
Sales occupations	4,507	4,584	474	483
Administrative support, including clerical	3,107	3,160	415	406
Service occupations	4,326	4,724	294	293
Private household	12	11	(¹)	(¹)
Protective service	1,479	1,501	424	457
Service, except private household and protective	2,836	3,212	249	253
Precision production, craft, and repair	10,375	10,642	444	464
Mechanics and repairers	3,690	3,855	434	450
Construction trades	3,752	3,857	423	455
Other precision production, craft, and repair	2,933	2,930	480	486
Operators, fabricators, and laborers	11,760	11,806	346	359
Machine operators, assemblers, and inspectors	4,619	4,687	363	367
Transportation and material moving occupations	3,803	3,915	392	408
Handlers, equipment cleaners, helpers, and laborers	3,338	3,204	277	295
Farming, forestry, and fishing	1,436	1,508	228	250
Women				
Managerial and professional specialty	9,841	10,536	466	485
Executive, administrative, and managerial	4,746	5,020	432	449
Professional specialty	5,095	5,516	490	507
Technical, sales, and administrative support	16,216	16,136	303	319
Technicians and related support	1,374	1,450	375	401
Sales occupations	3,488	3,607	264	274
Administrative support, including clerical	11,354	11,078	303	320
Service occupations	4,405	4,763	206	216
Private household	377	356	127	151
Protective service	258	256	316	322
Service, except private household and protective	3,770	4,151	208	217
Precision production, craft, and repair	1,019	890	312	325
Mechanics and repairers	119	100	385	532
Construction trades	74	74	(¹)	(¹)
Other precision production, craft, and repair	826	716	298	306
Operators, fabricators, and laborers	3,750	3,881	243	258
Machine operators, assemblers, and inspectors	3,019	3,047	241	257
Transportation and material moving occupations	172	243	283	309
Handlers, equipment cleaners, helpers, and laborers	559	590	246	247
Farming, forestry, and fishing	171	162	219	245

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 1988	III 1989	Total		Central cities		Suburbs	
			III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL								
Civilian noninstitutional population	184,840	186,602	144,028	144,848	57,034	57,003	86,994	87,844
Civilian labor force	123,042	125,156	97,249	98,373	37,296	37,115	59,954	61,258
Percent of population	66.6	67.1	67.5	67.9	65.4	65.1	68.9	69.7
Employed	118,426	118,689	92,132	93,366	34,794	34,635	57,338	58,731
Unemployed	6,617	6,466	5,117	5,007	2,502	2,480	2,616	2,527
Unemployment rate	5.4	5.2	5.3	5.1	6.7	6.7	4.4	4.1
Not in labor force	61,798	61,447	46,779	46,475	19,739	19,888	27,040	26,586
Men, 20 years and over								
Civilian noninstitutional population	80,676	81,741	62,900	63,516	24,448	24,494	38,452	39,023
Civilian labor force	63,219	64,079	49,952	50,403	18,813	18,753	31,139	31,650
Percent of population	78.4	78.4	79.4	79.4	77.0	76.6	81.0	81.1
Employed	60,539	61,466	47,869	48,350	17,767	17,670	30,102	30,680
Unemployed	2,680	2,612	2,083	2,053	1,046	1,083	1,036	970
Unemployment rate	4.2	4.1	4.2	4.1	5.6	5.8	3.3	3.1
Not in labor force	17,457	17,662	12,949	13,113	5,635	5,741	7,314	7,372
Women, 20 years and over								
Civilian noninstitutional population	89,664	90,685	69,994	70,502	28,305	28,449	41,689	42,053
Civilian labor force	50,745	52,193	40,317	41,234	15,995	16,071	24,322	25,163
Percent of population	56.6	57.6	57.6	58.5	56.5	56.5	58.3	59.8
Employed	48,114	49,574	38,274	39,224	14,992	15,117	23,282	24,108
Unemployed	2,631	2,619	2,043	2,010	1,004	954	1,039	1,056
Unemployment rate	5.2	5.0	5.1	4.9	6.3	5.9	4.3	4.2
Not in labor force	38,919	38,492	29,677	29,268	12,310	12,378	17,367	16,891
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,500	14,177	11,134	10,829	4,281	4,061	6,853	6,769
Civilian labor force	9,078	8,884	6,980	6,736	2,487	2,291	4,494	4,445
Percent of population	62.6	62.7	62.7	62.2	58.1	56.4	65.6	65.7
Employed	7,772	7,649	5,988	5,792	2,035	1,847	3,953	3,945
Unemployed	1,306	1,235	992	944	452	444	540	500
Unemployment rate	14.4	13.9	14.2	14.0	18.2	19.4	12.0	11.3
Not in labor force	5,423	5,293	4,154	4,093	1,794	1,769	2,360	2,323
White								
Civilian noninstitutional population	158,347	159,473	121,759	122,027	42,543	42,342	79,217	79,886
Civilian labor force	105,829	107,298	82,555	83,163	28,070	27,844	54,484	55,319
Percent of population	66.8	67.3	67.8	68.2	66.0	65.8	68.8	69.4
Employed	100,941	102,585	78,876	79,610	26,599	26,382	52,277	53,228
Unemployed	4,888	4,712	3,879	3,553	1,471	1,462	2,208	2,091
Unemployment rate	4.6	4.4	4.5	4.3	5.2	5.3	4.1	3.8
Not in labor force	52,518	52,175	39,205	38,864	14,472	14,497	24,733	24,367
Black								
Civilian noninstitutional population	20,737	21,061	17,210	17,537	11,882	11,959	5,328	5,578
Civilian labor force	13,453	13,714	11,341	11,552	7,511	7,479	3,830	4,074
Percent of population	64.9	65.1	65.9	65.9	63.2	62.5	71.9	73.0
Employed	11,919	12,171	10,051	10,265	6,554	6,535	3,497	3,730
Unemployed	1,534	1,544	1,290	1,287	957	944	334	343
Unemployment rate	11.4	11.3	11.4	11.1	12.7	12.6	8.7	8.4
Not in labor force	7,284	7,347	5,869	5,985	4,371	4,480	1,498	1,505
Hispanic origin								
Civilian noninstitutional population	13,382	13,853	12,353	12,833	7,131	7,342	5,222	5,491
Civilian labor force	9,103	9,463	8,396	8,735	4,678	4,730	3,718	4,006
Percent of population	68.0	68.3	68.0	68.1	65.6	64.4	71.2	73.0
Employed	8,399	8,660	7,781	8,011	4,287	4,275	3,495	3,735
Unemployed	704	803	615	725	392	455	223	270
Unemployment rate	7.7	8.5	7.3	8.3	8.4	9.6	6.0	6.7
Not in labor force	4,278	4,390	3,957	4,098	2,452	2,613	1,504	1,485

**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		III 1988	III 1989	III 1988	III 1989
	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989				
TOTAL										
Civilian noninstitutional population	40,812	41,755	2,873	2,776	37,940	38,979	135,695	136,086	49,145	50,517
Civilian labor force	25,793	26,783	2,054	1,984	23,739	24,799	90,875	91,640	32,168	33,516
Percent of population	63.2	64.1	71.5	71.5	62.6	63.6	67.0	67.3	65.5	66.3
Employed	24,294	25,323	2,018	1,941	22,276	23,382	85,909	86,726	30,517	31,963
Unemployed	1,499	1,459	36	42	1,463	1,417	4,966	4,913	1,651	1,553
Unemployment rate	5.8	5.4	1.8	2.1	6.2	5.7	5.5	5.4	5.1	4.6
Not in labor force	15,019	14,972	818	792	14,201	14,180	44,821	44,446	16,977	17,001
Men, 20 years and over										
Civilian noninstitutional population	17,774	18,224	1,370	1,354	16,403	16,870	58,878	58,889	21,996	22,852
Civilian labor force	13,265	13,676	1,151	1,132	12,114	12,543	46,211	46,364	17,006	17,715
Percent of population	74.8	75.0	84.0	83.6	73.8	74.4	78.8	78.7	77.3	77.5
Employed	12,670	13,116	1,138	1,121	11,532	11,995	44,186	44,362	18,353	17,104
Unemployed	595	560	13	12	582	548	2,025	2,002	653	610
Unemployment rate	4.5	4.1	1.1	1.0	4.8	4.4	4.4	4.3	3.8	3.4
Not in labor force	4,508	4,549	219	222	4,290	4,327	12,467	12,525	4,990	5,137
Women, 20 years and over										
Civilian noninstitutional population	19,872	20,183	1,256	1,211	18,416	18,972	66,702	67,125	22,964	23,560
Civilian labor force	10,430	10,960	728	706	9,702	10,253	38,244	39,024	12,503	13,170
Percent of population	53.0	54.3	58.0	58.3	52.7	54.0	57.3	58.1	54.4	55.9
Employed	9,840	10,350	713	686	9,127	9,665	36,269	37,047	11,845	12,527
Unemployed	590	609	16	21	575	589	1,975	1,977	658	643
Unemployment rate	5.7	5.6	2.2	2.9	5.9	5.7	5.2	5.1	5.3	4.9
Not in labor force	9,242	9,223	528	505	8,714	8,718	28,458	28,102	10,461	10,390
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,366	3,347	246	210	3,120	3,137	10,316	10,071	4,185	4,105
Civilian labor force	2,097	2,147	174	145	1,923	2,002	6,420	6,252	2,658	2,631
Percent of population	62.3	64.1	70.9	69.1	61.6	63.8	62.2	62.1	63.5	64.1
Employed	1,784	1,857	167	135	1,617	1,722	5,454	5,317	2,318	2,332
Unemployed	314	290	7	10	306	280	966	935	340	300
Unemployment rate	14.9	13.5	4.1	7.0	15.9	14.0	15.0	15.0	12.8	11.4
Not in labor force	1,269	1,200	72	65	1,197	1,135	3,896	3,819	1,526	1,474
White										
Civilian noninstitutional population	36,587	37,446	2,803	2,683	33,784	34,763	112,779	112,575	45,568	46,898
Civilian labor force	23,274	24,134	2,016	1,930	21,258	22,204	75,849	78,076	29,980	31,222
Percent of population	63.6	64.5	71.9	71.9	62.9	63.9	67.3	67.6	65.8	66.6
Employed	22,065	22,975	1,982	1,894	20,083	21,081	72,387	72,701	28,554	29,884
Unemployed	1,209	1,159	34	36	1,175	1,123	3,462	3,375	1,426	1,338
Unemployment rate	5.2	4.8	1.7	1.9	5.5	5.1	4.6	4.4	4.8	4.3
Not in labor force	13,313	13,311	787	753	12,527	12,558	36,930	38,499	15,588	15,676
Black										
Civilian noninstitutional population	3,528	3,524	51	70	3,477	3,454	17,861	18,193	2,876	2,868
Civilian labor force	2,112	2,162	28	39	2,084	2,123	11,688	11,906	1,765	1,808
Percent of population	59.9	61.4	(¹)	55.3	59.9	61.5	65.4	65.4	61.4	63.0
Employed	1,868	1,906	26	33	1,842	1,873	10,339	10,542	1,580	1,628
Unemployed	244	257	2	6	242	250	1,350	1,364	184	179
Unemployment rate	11.5	11.9	(¹)	(¹)	11.6	11.8	11.5	11.5	10.4	9.9
Not in labor force	1,415	1,362	23	31	1,393	1,331	6,173	6,287	1,111	1,060
Hispanic origin										
Civilian noninstitutional population	1,029	1,020	53	43	976	977	12,299	12,633	1,082	1,219
Civilian labor force	707	728	37	31	670	697	8,361	8,612	743	851
Percent of population	68.7	71.4	(¹)	(¹)	68.7	71.3	68.0	68.2	68.6	69.8
Employed	618	650	29	30	588	619	7,727	7,892	673	768
Unemployed	89	78	7	1	82	77	634	720	70	83
Unemployment rate	12.6	10.8	(¹)	(¹)	12.2	11.1	7.6	8.4	9.4	9.7
Not in labor force	321	292	16	12	305	280	3,938	4,022	340	368

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 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989	III 1988	III 1989
TOTAL												
Civilian noninstitutional population	27,431	27,554	157,409	159,049	18,133	18,058	125,895	126,789	9,298	9,495	31,514	32,259
Civilian labor force	15,975	16,081	107,067	109,075	10,480	10,408	86,769	87,965	5,495	5,672	20,298	21,110
Percent of population	58.2	58.4	68.0	68.6	57.8	57.6	68.9	69.4	59.1	59.7	64.4	65.4
Employed	14,348	14,447	102,078	104,243	9,309	9,232	82,823	84,134	5,039	5,215	19,255	20,109
Unemployed	1,627	1,634	4,990	4,832	1,171	1,176	3,946	3,831	456	458	1,043	1,002
Unemployment rate	10.2	10.2	4.7	4.4	11.2	11.3	4.5	4.4	8.3	8.1	5.1	4.7
Men, 20 years and over	8.3	8.2	3.6	3.5	9.5	9.7	3.5	3.4	6.0	5.7	4.1	3.7
Women, 20 years and over	9.5	9.6	4.5	4.3	10.3	10.1	4.4	4.2	8.0	8.7	5.0	4.7
Both sexes, 16 to 19 years	26.3	26.1	12.5	12.0	27.8	29.9	12.5	12.0	23.7	20.2	12.5	11.7
Men	26.7	25.5	12.8	11.5	29.9	30.1	13.2	11.8	21.4	18.5	11.4	10.3
Women	25.7	26.9	12.2	12.5	25.0	29.6	11.8	12.3	26.9	22.2	13.7	13.3
Not in labor force	11,456	11,473	50,342	49,974	7,653	7,650	39,126	38,825	3,804	3,823	11,216	11,149
White												
Civilian noninstitutional population	16,447	16,704	141,900	142,769	9,628	9,715	112,132	112,312	6,819	6,988	29,768	30,457
Civilian labor force	9,804	9,986	96,025	97,312	5,710	5,743	76,845	77,420	4,094	4,243	19,180	19,892
Percent of population	59.6	59.8	67.7	68.2	59.3	59.1	68.5	68.9	60.0	60.7	64.4	65.3
Employed	9,074	9,220	91,867	93,366	5,247	5,236	73,629	74,374	3,828	3,984	18,237	18,992
Unemployed	730	766	4,158	3,946	463	508	3,216	3,046	267	259	943	900
Unemployment rate	7.4	7.7	4.3	4.1	8.1	8.8	4.2	3.9	6.5	6.1	4.9	4.5
Men, 20 years and over	6.1	6.3	3.4	3.2	7.2	7.3	3.3	3.1	4.4	5.0	3.9	3.5
Women, 20 years and over	7.1	7.4	4.2	4.0	7.4	8.4	4.0	3.9	6.6	6.1	4.8	4.5
Both sexes, 16 to 19 years	19.0	18.9	11.5	10.6	18.6	23.1	11.3	10.5	19.5	13.7	12.1	11.2
Men	20.7	19.8	11.7	10.4	22.8	26.5	11.9	10.5	18.0	11.8	11.3	10.0
Women	16.7	17.9	11.2	11.0	12.8	18.9	10.8	10.4	21.9	16.4	12.8	12.7
Not in labor force	6,643	6,718	45,875	45,457	3,918	3,972	35,287	34,892	2,725	2,746	10,588	10,566
Black												
Civilian noninstitutional population	9,751	9,707	10,986	11,354	7,579	7,513	9,631	10,023	2,172	2,194	1,356	1,330
Civilian labor force	5,517	5,461	7,936	8,253	4,281	4,207	7,060	7,346	1,236	1,255	876	907
Percent of population	56.6	56.3	72.2	72.7	56.5	56.0	73.3	73.3	56.9	57.2	64.6	68.2
Employed	4,683	4,642	7,236	7,529	3,612	3,567	6,439	6,698	1,071	1,075	797	831
Unemployed	834	819	700	724	669	640	621	647	165	180	79	77
Unemployment rate	15.1	15.0	8.8	8.8	15.6	15.2	8.8	8.8	13.4	14.3	9.0	8.5
Men, 20 years and over	12.8	12.7	6.4	6.8	13.6	14.1	6.3	6.8	10.3	8.0	7.0	7.3
Women, 20 years and over	13.2	13.3	8.5	7.8	13.5	12.5	8.5	7.9	11.9	16.0	8.8	7.6
Both sexes, 16 to 19 years	38.6	38.8	24.8	25.5	40.5	40.0	25.3	26.4	33.6	36.0	20.7	19.5
Men	38.2	37.3	24.7	22.0	40.6	36.6	26.5	23.4	31.2	38.9	(¹)	12.8
Women	39.0	40.4	24.9	29.5	40.3	43.2	24.1	29.6	35.9	32.9	(¹)	(¹)
Not in labor force	4,234	4,246	3,050	3,101	3,298	3,307	2,570	2,678	936	939	480	423
Hispanic origin												
Civilian noninstitutional population	4,569	4,522	8,813	9,331	4,182	4,181	8,171	8,652	387	341	642	679
Civilian labor force	2,779	2,698	6,324	6,765	2,521	2,469	5,875	6,266	258	229	449	499
Percent of population	60.8	59.7	71.8	72.5	60.3	59.1	71.9	72.4	66.7	67.1	70.0	73.5
Employed	2,508	2,379	5,891	6,281	2,281	2,180	5,500	5,830	227	199	391	451
Unemployed	271	318	433	485	240	289	375	436	31	30	59	48
Unemployment rate	9.7	11.8	6.9	7.2	9.5	11.7	6.4	7.0	11.8	13.1	13.1	9.7
Men, 20 years and over	7.9	9.5	5.7	6.0	8.1	9.5	5.2	5.9	5.9	9.3	12.1	7.7
Women, 20 years and over	9.6	11.9	6.4	6.8	9.0	11.5	5.9	6.8	15.8	16.1	12.9	7.8
Both sexes, 16 to 19 years	21.9	27.3	17.1	16.6	20.7	28.0	17.0	15.4	(¹)	(¹)	(¹)	28.4
Men	26.7	29.6	19.0	15.2	27.2	31.3	19.6	15.5	(¹)	(¹)	(¹)	(¹)
Women	15.4	24.6	14.8	18.5	11.7	24.3	13.6	15.3	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,789	1,824	2,489	2,566	1,661	1,712	2,296	2,386	129	112	193	180

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, 1937 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															
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	28,808	12,297	854	1,165	10,276	18,306	2,938	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	15,260	21,636	3,480	1,906	5,212	1,509	4,066	2,213	(¹)	(¹)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	(¹)	(¹)
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	(¹)	(¹)
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	(¹)	(¹)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	(¹)	(¹)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	(¹)	(¹)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,605	6,667	1,800	5,181	1,863	(¹)	(¹)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	(¹)	(¹)
1950	45,197	39,170	18,506	901	2,364	15,241	26,891	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	5,969	2,188	(¹)	(¹)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,296	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 ^p	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	46,860	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	8,623	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,038	3,486	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	18,823	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	78,790	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	78,285	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,306	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,356	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	66,868	4,954	5,268	15,613	5,468	19,694	2,774	3,682	9,434
1984	94,496	78,472	24,727	966	4,383	19,768	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	19,280	72,680	5,238	5,717	17,358	5,955	22,000	2,875	3,832	9,887
1986	99,525	82,832	24,558	777	4,818	18,965	74,987	5,255	5,753	17,930	6,283	23,053	2,899	3,893	9,901
1987	102,200	85,190	24,708	717	4,987	19,024	77,492	5,372	5,844	18,483	6,547	24,236	2,943	3,967	10,100
1988	105,584	88,212	25,249	721	5,125	19,403	80,335	5,548	6,029	19,110	6,676	25,600	2,971	4,063	10,339
Monthly data, seasonally adjusted															
1988:															
September	108,207	88,736	25,313	719	5,163	19,431	80,894	5,581	6,071	19,188	6,695	25,888	2,985	4,088	10,398
October	106,475	88,991	25,384	717	5,162	19,505	81,091	5,596	6,086	19,229	6,710	25,986	2,986	4,081	10,417
November	108,824	89,299	25,460	712	5,191	19,557	81,364	5,616	6,104	19,282	6,726	26,111	2,983	4,085	10,457
December	107,097	89,574	25,513	711	5,213	19,589	81,564	5,634	6,125	19,328	6,744	26,230	2,981	4,085	10,457
1989:															
January	107,442	89,897	25,626	711	5,267	19,648	81,816	5,654	6,146	19,407	6,746	26,318	2,978	4,084	10,483
February	107,711	90,124	25,629	711	5,270	19,648	82,082	5,667	6,171	19,460	6,763	26,434	2,982	4,095	10,510
March	107,888	90,291	25,646	714	5,252	19,880	82,242	5,666	6,197	19,488	6,774	26,520	2,982	4,102	10,513
April	108,101	90,475	25,671	720	5,279	19,672	82,430	5,682	6,206	19,489	6,776	26,651	2,982	4,111	10,533
May	108,310	90,623	25,672	722	5,283	19,667	82,638	5,700	6,222	19,528	6,790	26,711	2,999	4,119	10,569
June	108,607	90,884	25,648	715	5,283	19,850	82,959	5,716	6,230	19,551	6,808	26,931	2,995	4,136	10,592
July	108,767	91,018	25,669	706	5,314	19,649	83,098	5,736	6,237	19,586	6,815	26,973	3,000	4,145	10,606
August ^p	108,855	91,075	25,696	730	5,316	19,650	83,159	5,625	6,254	19,620	6,834	27,046	2,998	4,161	10,621
September ^p	109,064	91,189	25,588	725	5,316	19,547	83,476	5,717	6,263	19,624	6,844	27,153	2,996	4,171	10,708

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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

**ESTABLISHMENT DATA
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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Total		105,729	106,601	108,540	108,638	109,453	-	-	-	-	-
Total private		89,431	89,416	91,733	91,967	91,874	72,498	72,456	74,324	74,537	74,404
Mining		734	728	714	740	734	530	526	509	535	530
Metal mining		53.9	53.4	64.4	64.2	-	42.1	41.7	51.3	51.0	-
Iron ores	101	8.4	8.4	9.8	9.7	-	6.9	6.8	8.1	8.1	-
Copper ores	102	13.7	13.4	14.2	13.8	-	10.7	10.3	11.3	11.0	-
Coal mining	11,12	150.0	149.8	121.6	145.0	-	122.0	122.5	96.2	119.0	-
Bituminous coal and lignite mining	12	147.9	147.6	119.5	142.9	-	120.2	120.6	94.4	117.2	-
Oil and gas extraction	13	411.4	406.5	406.4	409.3	405.7	274.5	270.6	268.4	271.8	-
Crude petroleum, natural gas, and natural gas liquids ...	131,2	201.9	199.0	199.1	198.1	-	101.0	99.2	98.0	97.2	-
Oil and gas field services	138	209.5	207.5	207.3	211.2	-	173.5	171.4	170.4	174.6	-
Nonmetallic minerals, except fuels	14	118.7	118.1	121.5	121.2	-	91.4	90.9	93.2	93.2	-
Crushed and broken stone	142	43.2	42.9	43.6	43.4	-	34.2	33.9	34.5	34.4	-
Sand and gravel	144	38.0	37.7	38.8	38.9	-	-	-	-	-	-
Chemical and fertilizer minerals	147	17.1	17.1	18.1	17.9	-	-	-	-	-	-
Construction		5,497	5,442	5,622	5,672	5,598	4,353	4,304	4,428	4,479	4,415
General building contractors	15	1,449.4	1,426.3	1,463.8	1,479.1	1,451.6	1,078.7	1,056.7	1,078.3	1,093.5	-
Residential building construction	152	775.8	765.1	792.3	799.3	-	566.1	555.9	571.8	578.6	-
Operative builders	153	49.4	48.0	46.5	47.1	-	22.7	21.8	20.9	21.2	-
Nonresidential building construction	154	624.2	613.2	625.0	632.7	-	489.9	479.0	485.6	493.7	-
Heavy construction contractors	16	850.3	848.1	867.2	879.2	-	721.5	719.0	731.3	743.7	-
Highway and street construction	161	298.6	294.1	288.1	290.4	-	252.6	248.6	241.9	244.3	-
Heavy construction, except highway	162	551.7	554.0	579.1	588.8	-	468.9	470.4	489.4	499.4	-
Special trade contractors	17	3,197.6	3,167.8	3,291.2	3,313.6	-	2,553.0	2,527.9	2,618.1	2,642.0	-
Plumbing, heating, and air conditioning	171	680.6	679.8	691.3	691.2	-	507.6	508.7	513.3	513.8	-
Painting, paper hanging, and decorating	172	191.1	185.9	197.4	200.1	-	162.8	158.0	166.5	169.9	-
Electrical work	173	568.0	565.0	575.1	580.1	-	446.0	444.0	447.2	452.7	-
Masonry, stonework, and plastering	174	538.9	535.1	543.4	547.7	-	468.7	463.2	469.5	472.9	-
Carpentering and flooring	175	204.5	199.9	210.6	213.2	-	160.2	155.9	165.9	169.0	-
Roofing and sheet metal work	176	227.1	224.1	236.0	241.7	-	183.1	179.8	190.6	195.9	-
Manufacturing		19,504	19,587	19,568	19,730	19,709	13,320	13,413	13,296	13,458	13,461
Durable goods		11,448	11,524	11,490	11,538	11,535	7,628	7,712	7,618	7,670	7,682
Lumber and wood products	24	784.5	783.0	786.5	787.4	781.0	656.0	653.2	654.5	654.8	649.3
Logging camps and logging contractors	241	96.8	94.7	101.4	100.8	-	80.8	78.3	84.1	83.6	-
Sawmills and planing mills	242	207.2	210.2	211.0	211.3	-	182.4	185.0	184.5	184.5	-
Sawmills and planing mills, general	2421	169.0	171.8	172.6	172.5	-	148.7	151.2	151.2	150.7	-
Hardwood dimension and flooring	2426	34.5	34.9	34.9	35.4	-	30.5	30.8	30.5	31.1	-
Millwork, plywood, and structural members	243	277.3	274.0	274.1	273.9	-	228.8	225.6	224.7	224.3	-
Millwork	2431	111.4	108.8	109.1	108.3	-	90.6	88.2	87.8	87.1	-
Wood kitchen cabinets	2434	73.7	72.8	71.9	72.0	-	59.2	58.4	57.5	57.5	-
Hardwood veneer and plywood	2435	24.5	24.4	24.6	24.7	-	21.4	21.2	21.4	21.4	-
Softwood veneer and plywood	2436	37.4	38.5	37.3	37.3	-	33.7	34.7	33.7	33.6	-
Wood containers	244	44.4	43.9	43.8	43.6	-	37.9	37.2	37.2	37.0	-
Wood buildings and mobile homes	245	72.9	72.9	71.7	72.4	-	56.0	55.7	55.1	55.7	-
Mobile homes	2451	48.3	48.5	49.8	50.6	-	39.9	39.8	40.8	41.5	-
Miscellaneous wood products	249	85.9	87.3	84.5	85.4	-	70.1	71.4	68.9	69.7	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Durable goods—Continued											
Furniture and fixtures	25	526.9	531.5	523.6	527.5	529.7	419.9	425.4	414.7	419.4	421.3
Household furniture	251	304.4	307.7	299.6	301.7	-	256.5	260.4	252.0	254.0	-
Wood household furniture	2511	137.8	138.4	133.9	135.2	-	120.4	121.2	116.8	117.9	-
Upholstered household furniture	2512	99.7	100.6	100.4	101.1	-	83.5	84.5	83.7	84.4	-
Metal household furniture	2514	23.2	24.4	22.6	21.7	-	18.1	19.4	17.6	16.8	-
Mattresses and bedsprings	2515	30.9	30.9	29.4	30.3	-	24.1	24.1	22.6	23.3	-
Office furniture	252	70.7	70.7	70.8	70.2	-	53.2	53.4	51.8	51.7	-
Public building and related furniture	253	33.7	33.8	33.4	34.5	-	26.3	26.5	26.0	27.2	-
Partitions and fixtures	254	79.8	80.8	81.4	82.3	-	58.2	59.2	58.8	60.0	-
Miscellaneous furniture and fixtures	259	38.3	38.5	38.4	38.8	-	25.7	25.9	26.1	26.5	-
Stone, clay, and glass products	32	612.7	611.6	612.5	613.2	607.4	479.3	477.4	477.0	477.9	472.4
Flat glass	321	15.9	15.9	16.4	16.5	-	12.5	12.5	13.2	13.3	-
Glass and glassware, pressed or blown	322	86.2	86.5	83.5	84.0	-	74.7	74.7	72.0	72.6	-
Glass containers	3221	44.5	43.8	42.4	42.7	-	40.5	39.8	38.5	38.8	-
Pressed and blown glass, nec	3229	41.7	42.7	41.1	41.3	-	34.2	34.9	33.5	33.8	-
Products of purchased glass	323	55.4	55.2	55.5	56.1	-	42.1	41.9	42.6	43.3	-
Cement, hydraulic	324	20.2	19.7	20.1	19.9	-	15.5	15.0	15.4	15.3	-
Structural clay products	325	39.5	39.0	38.2	38.3	-	30.8	30.7	29.8	29.7	-
Pottery and related products	326	37.4	37.7	38.5	38.6	-	29.8	30.0	30.6	30.8	-
Concrete, gypsum, and plaster products	327	223.6	222.8	224.5	224.3	-	173.9	172.7	173.4	173.0	-
Concrete block and brick	3271	21.1	21.3	19.9	19.9	-	13.8	13.9	13.0	13.0	-
Concrete products, nec	3272	75.0	74.7	77.1	76.8	-	57.6	57.0	58.9	58.5	-
Ready-mixed concrete	3273	107.7	106.9	107.6	107.8	-	87.1	86.4	86.1	86.2	-
Misc. nonmetallic mineral products	329	120.1	120.3	120.4	120.1	-	88.7	88.6	88.3	88.2	-
Abrasive products	3291	22.1	22.1	22.7	22.8	-	15.4	15.3	16.3	16.3	-
Asbestos products	3292	9.1	8.9	8.8	8.6	-	6.9	6.6	6.5	6.4	-
Mineral wool	3296	26.5	26.7	26.0	26.1	-	-	-	-	-	-
Primary metal industries	33	772.8	781.1	776.0	783.6	779.9	591.7	599.9	591.1	597.8	594.3
Blast furnaces and basic steel products	331	277.1	276.7	277.5	276.1	274.4	215.2	214.6	213.8	213.0	210.5
Blast furnaces and steel mills	3312	208.1	207.9	208.5	207.7	-	163.1	162.7	162.1	161.9	-
Steel pipe and tubes	3317	25.0	24.9	25.0	24.6	-	19.0	18.8	18.8	18.5	-
Iron and steel foundries	332	137.9	142.0	139.7	143.8	-	110.7	114.5	111.2	115.2	-
Gray iron foundries	3321	85.2	87.3	83.4	87.1	-	69.6	71.7	67.9	71.4	-
Malleable iron foundries	3322	8.8	9.6	8.8	9.0	-	6.5	7.3	6.8	7.0	-
Steel foundries, nec	3325	29.1	30.2	31.3	31.4	-	23.0	23.8	24.6	24.7	-
Primary nonferrous metals	333	44.7	45.1	45.9	45.7	-	33.0	33.5	34.5	34.0	-
Primary aluminum	3334	26.4	26.9	27.2	27.0	-	20.0	20.5	21.1	20.8	-
Nonferrous rolling and drawing	335	180.6	181.5	178.1	181.4	-	129.6	130.9	127.2	130.0	-
Copper rolling and drawing	3351	23.5	23.4	23.1	23.5	-	18.0	18.0	17.6	18.0	-
Aluminum sheet, plate, and foil	3353	28.1	28.4	27.7	27.8	-	19.3	19.5	18.4	18.5	-
Nonferrous wire drawing and insulating	3357	76.5	77.7	74.1	76.9	-	55.5	56.8	53.8	56.2	-
Nonferrous foundries	336	87.4	90.2	88.4	90.1	-	70.1	72.7	70.1	71.3	-
Aluminum foundries	3361	54.0	55.3	51.9	53.3	-	44.2	45.4	41.7	43.0	-
Fabricated metal products	34	1,430.4	1,443.9	1,430.3	1,435.2	1,442.9	1,064.9	1,078.5	1,057.0	1,063.8	1,072.1
Metal cans and shipping containers	341	53.2	52.6	53.6	53.4	-	45.9	45.3	46.2	46.2	-
Metal cans	3411	42.7	42.1	42.7	42.4	-	37.2	36.6	37.2	37.1	-
Cutlery, hand tools, and hardware	342	138.7	138.8	132.7	132.1	-	101.8	102.7	97.3	97.2	-
Hand and edge tools, and hand saws and blades	3423.5	47.0	46.7	44.9	45.0	-	33.9	33.8	32.5	32.8	-
Hardware, nec	3429	80.7	80.8	76.8	75.7	-	60.4	61.1	57.2	56.4	-
Plumbing and heating, except electric	343	60.3	61.2	60.2	60.7	-	43.8	44.6	43.3	43.4	-
Plumbing fittings and brass goods	3432	24.8	24.8	25.7	26.0	-	18.2	18.2	18.8	19.0	-
Heating equipment, except electric	3433	22.5	22.8	21.8	22.6	-	15.8	16.0	14.8	15.4	-
Fabricated structural metal products	344	432.9	436.4	438.4	438.8	-	310.1	314.1	313.1	314.5	-
Fabricated structural metal	3441	78.2	78.5	79.1	78.8	-	56.8	57.2	56.7	56.8	-
Metal doors, sash, and trim	3442	86.0	84.2	84.6	84.5	-	63.4	61.9	61.8	62.3	-
Fabricated plate work (boiler shops)	3443	101.2	105.2	106.9	107.6	-	67.0	71.2	71.8	72.4	-
Sheet metal work	3444	100.7	100.8	100.9	101.2	-	75.7	75.8	75.6	76.0	-
Architectural metal work	3446	32.4	33.4	33.5	33.3	-	24.0	24.8	24.3	24.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	99.7	101.1	99.2	98.5	-	76.5	77.7	75.3	75.2	-
Screw machine products	3451	49.3	50.3	48.6	47.9	-	40.6	41.5	39.3	39.1	-
Bolts, nuts, rivets, and washers	3452	50.4	50.8	50.6	50.6	-	35.9	36.2	36.0	36.1	-
Metal forgings and stampings	346	224.8	230.5	221.9	225.2	-	178.5	183.6	175.4	178.0	-
Iron and steel forgings	3462	31.2	31.9	32.8	32.0	-	24.0	24.5	25.3	24.4	-
Automotive stampings	3465	98.2	102.2	96.6	98.0	-	82.2	86.0	80.1	81.4	-
Metal stampings, nec	3469	82.9	83.9	80.0	82.6	-	63.0	63.9	60.5	62.6	-
Metal services, nec	347	121.0	122.5	126.1	129.5	-	96.9	98.0	99.8	102.9	-
Plating and polishing	3471	78.8	80.0	80.8	83.9	-	63.6	64.4	64.5	67.3	-
Metal coating and allied services	3479	42.2	42.5	45.3	45.6	-	33.3	33.6	35.3	35.6	-
Ordnance and accessories, nec	348	76.3	76.2	71.6	71.0	-	48.4	48.3	43.1	43.3	-
Ammunition, except for small arms, nec	3483	42.4	42.2	39.8	39.6	-	24.3	24.0	20.9	21.4	-
Misc. fabricated metal products	349	223.5	224.6	226.6	226.0	-	163.0	164.2	163.5	163.1	-
Valves and pipe fittings	3494	76.4	76.6	79.1	78.3	-	51.5	51.8	52.9	52.4	-
Misc. fabricated wire products	3496	54.0	54.4	55.6	56.0	-	41.3	41.6	42.3	42.4	-
Machinery, except electrical	35	2,084.1	2,094.6	2,145.1	2,142.5	2,147.3	1,247.6	1,259.7	1,295.7	1,292.4	1,298.4
Engines and turbines	351	94.1	94.7	97.1	96.3	-	62.5	62.5	63.4	62.3	-
Turbines and turbine generator sets	3511	24.9	25.3	28.4	28.7	-	14.6	14.8	16.6	16.7	-
Internal combustion engines, nec	3519	69.2	69.4	68.7	67.6	-	47.9	47.7	46.8	45.6	-
Farm and garden machinery	352	100.3	103.1	104.1	106.1	-	70.6	73.7	74.1	75.6	-
Farm machinery and equipment	3523	76.0	76.8	79.6	81.0	-	52.2	53.3	55.8	57.0	-
Construction and related machinery	353	230.3	230.1	237.0	239.0	-	140.7	140.8	145.0	146.6	-
Construction machinery	3531	82.8	82.8	86.3	86.9	-	51.6	51.5	53.6	54.2	-
Mining machinery	3532	16.5	16.5	16.3	16.7	-	10.2	10.1	10.0	10.2	-
Oil field machinery	3533	42.4	42.3	42.0	42.3	-	25.5	25.5	24.5	24.9	-
Conveyors and conveying equipment	3535	35.7	35.4	36.9	36.5	-	19.1	19.0	20.1	19.7	-
Industrial trucks and tractors	3537	27.3	27.2	28.1	29.0	-	18.7	18.8	19.2	19.9	-
Metalworking machinery	354	314.3	318.7	334.3	334.5	-	224.8	229.6	240.4	240.3	-
Machine tools, metal cutting types	3541	49.3	49.9	53.9	53.8	-	31.2	32.0	35.0	34.7	-
Machine tools, metal forming types	3542	18.5	18.7	19.6	19.5	-	11.8	12.0	12.6	12.4	-
Special dies, tools, jigs, and fixtures	3544	148.2	150.6	156.1	156.1	-	113.4	115.9	120.0	120.3	-
Machine tool accessories	3545	58.1	58.8	61.9	62.0	-	41.3	42.0	44.0	44.1	-
Power driven hand tools	3546	22.6	22.5	23.1	23.5	-	16.4	16.4	16.3	16.4	-
Special industry machinery	355	172.4	174.0	179.0	178.0	-	103.3	104.4	106.6	106.0	-
Food products machinery	3551	35.0	35.4	36.3	35.7	-	20.9	21.2	22.0	21.5	-
Textile machinery	3552	20.9	21.0	20.8	20.9	-	14.0	14.0	13.8	13.9	-
Printing trades machinery	3555	29.0	29.1	29.5	28.9	-	17.8	17.7	17.1	16.8	-
General industrial machinery	356	249.4	250.3	257.1	256.1	-	160.2	161.5	166.4	165.4	-
Pumps and pumping equipment	3561	44.6	44.5	45.6	45.8	-	25.7	25.7	26.6	26.8	-
Ball and roller bearings	3562	41.7	42.5	44.0	43.7	-	32.1	32.9	34.1	34.0	-
Air and gas compressors	3563	22.6	22.3	22.9	22.6	-	13.1	13.0	12.9	12.7	-
Blowers and fans	3564	30.6	30.8	32.1	32.0	-	19.6	19.9	21.7	21.5	-
Speed changers, drives, and gears	3566	17.1	17.2	17.6	17.7	-	11.7	11.9	12.2	12.2	-
Power transmission equipment, nec	3568	18.3	18.4	19.0	18.7	-	12.4	12.4	12.9	12.7	-
Office and computing machines	357	476.6	474.6	477.1	476.8	-	154.3	153.6	158.6	157.9	-
Electronic computing equipment	3573	421.4	419.3	421.5	421.3	-	129.0	128.3	133.2	132.8	-
Refrigeration and service machinery	358	183.7	184.3	190.8	186.8	-	131.8	132.6	137.6	134.4	-
Refrigeration and heating equipment	3585	127.6	128.3	134.5	131.0	-	94.0	94.8	100.0	97.3	-
Misc. machinery, except electrical	359	263.0	264.8	268.6	268.9	-	199.4	201.0	203.6	203.9	-
Carburetors, pistons, rings, and valves	3592	30.0	30.9	28.7	28.8	-	23.7	24.5	22.3	22.6	-
Machinery, except electrical, nec	3599	233.0	233.9	239.9	240.1	-	175.7	176.5	181.3	181.3	-
Electrical and electronic equipment	36	2,073.2	2,077.8	2,027.6	2,032.4	2,026.2	1,223.6	1,233.3	1,183.2	1,191.3	1,190.8
Electric distributing equipment	361	105.0	107.2	105.9	106.1	-	75.2	76.5	74.5	75.0	-
Transformers	3612	52.6	53.1	51.4	52.4	-	38.1	38.3	36.6	37.8	-
Switchgear and switchboard apparatus	3613	52.4	54.1	54.5	53.7	-	37.1	38.2	37.9	37.2	-
Electrical industrial apparatus	362	184.0	185.1	187.0	185.2	-	128.2	129.6	130.7	129.0	-
Motors and generators	3621	89.7	91.0	90.9	89.4	-	70.1	71.5	71.6	70.0	-
Industrial controls	3622	59.8	59.8	61.0	61.1	-	35.0	35.1	35.9	36.0	-
Household appliances	363	140.6	141.9	135.7	137.8	-	112.9	115.2	108.3	110.0	-
Household refrigerators and freezers	3632	29.7	29.0	28.8	27.9	-	24.1	23.8	23.5	22.9	-
Household laundry equipment	3633	22.8	22.8	22.2	23.0	-	18.6	18.6	18.0	18.4	-
Electric housewares and fans	3634	38.6	39.0	36.3	38.1	-	30.5	31.2	28.2	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. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	197.0	199.0	194.1	195.2	-	142.4	144.0	139.3	140.2	
Electric lamps	3641	26.6	26.5	26.2	25.5	-	22.7	22.6	22.4	21.5	
Current-carrying wiring devices	3643	77.9	78.7	75.8	76.5	-	50.8	51.2	49.0	49.5	
Noncurrent-carrying wiring devices	3644	16.2	16.5	16.3	16.4	-	12.0	12.1	12.0	12.2	
Residential lighting fixtures	3645	27.7	28.1	27.0	28.0	-	21.1	21.5	19.8	20.9	
Radio and TV receiving equipment	365	86.2	88.1	94.0	96.0	-	59.9	61.8	65.9	68.2	
Radio and TV receiving sets	3651	63.6	64.7	70.0	71.6	-	42.4	43.8	47.7	49.3	
Communication equipment	366	565.9	562.6	539.5	536.6	-	235.9	235.1	215.6	214.9	
Telephone and telegraph apparatus	3661	111.7	110.9	102.5	102.5	-	65.9	66.2	60.6	60.6	
Radio and TV communication equipment	3662	454.2	451.7	437.0	434.1	-	170.0	168.9	155.0	154.3	
Electronic components and accessories	367	638.0	637.0	618.6	618.9	-	358.7	359.8	343.4	345.1	-
Electronic tubes	3671-3	38.8	38.9	38.3	38.4	-	25.0	25.2	24.1	24.1	
Semiconductors and related devices	3674	265.4	264.9	259.8	259.0	-	104.3	105.2	97.4	97.7	
Electronic components, nec	3679	256.7	256.5	248.8	250.2	-	172.2	172.3	169.1	171.1	
Misc. electrical equipment and supplies	369	156.5	156.9	152.8	156.6	-	110.4	111.3	105.5	108.9	-
Storage batteries	3691	29.6	29.6	26.8	29.2	-	22.7	22.7	20.0	22.4	
Engine electrical equipment	3694	68.4	68.5	68.4	68.1	-	52.3	52.4	52.1	51.9	
Transportation equipment	37	2,017.1	2,053.1	2,023.3	2,035.1	2,041.8	1,244.3	1,281.3	1,240.7	1,252.8	1,262.2
Motor vehicles and equipment	371	833.1	865.5	828.5	846.7	847.1	645.7	676.8	631.7	649.4	647.1
Motor vehicles and car bodies	3711	336.1	359.9	333.7	354.6	-	250.0	272.8	240.7	260.8	-
Truck and bus bodies	3713	43.7	43.7	44.6	44.3	-	34.0	34.1	34.8	34.5	-
Motor vehicle parts and accessories	3714	400.6	408.8	401.2	401.2	-	319.7	327.9	317.7	317.7	-
Truck trailers	3715	31.7	31.8	29.7	29.3	-	25.3	25.2	23.5	23.2	-
Aircraft and parts	372	691.6	694.4	703.9	700.3	-	332.7	336.7	340.0	335.8	-
Aircraft	3721	366.6	367.1	382.9	383.5	-	159.0	160.3	167.9	168.1	-
Aircraft engines and engine parts	3724	151.9	154.0	150.3	147.4	-	73.3	76.5	74.6	71.8	-
Aircraft equipment, nec	3728	173.1	173.3	170.7	169.4	-	100.4	99.9	97.5	95.9	-
Ship and boat building and repairing	373	186.4	185.9	185.6	183.3	-	138.5	137.9	136.7	134.9	-
Ship building and repairing	3731	116.9	115.5	120.8	120.6	-	81.3	79.9	83.7	83.7	-
Boat building and repairing	3732	69.5	70.4	64.8	62.7	-	57.2	58.0	53.0	51.2	-
Railroad equipment	374	32.7	34.1	38.5	39.0	-	24.0	25.3	28.6	29.0	-
Guided missiles, space vehicles, and parts	376	212.5	212.0	207.1	206.4	-	63.1	63.3	63.3	63.5	-
Guided missiles and space vehicles	3761	154.9	154.5	152.7	152.3	-	43.4	43.6	42.9	42.9	-
Miscellaneous transportation equipment	379	50.1	50.1	47.2	46.6	-	33.0	33.6	31.5	31.0	-
Travel trailers and campers	3792	21.3	21.4	19.1	18.9	-	16.5	16.7	14.8	14.7	-
Instruments and related products	38	756.5	755.0	781.4	783.6	781.2	415.7	416.7	428.9	431.1	432.4
Engineering and scientific instruments	381	95.7	96.4	99.9	100.0	-	43.0	43.5	45.9	46.3	-
Measuring and controlling devices	382	262.4	263.0	271.7	271.7	-	149.9	151.3	154.5	154.2	-
Environmental controls	3822	48.7	49.2	50.0	49.8	-	32.0	32.5	33.4	33.3	-
Process control instruments	3823	60.1	60.2	63.9	63.8	-	32.2	32.2	34.0	34.2	-
Instruments to measure electricity	3825	107.7	107.4	109.7	110.2	-	54.7	54.9	55.1	54.9	-
Optical instruments and lenses	383	29.8	29.9	30.5	30.3	-	15.3	15.4	16.2	16.2	-
Medical instruments and supplies	384	203.6	202.7	211.8	212.5	-	123.0	122.3	126.8	127.7	-
Surgical and medical instruments	3841	101.7	100.5	106.2	106.2	-	59.0	58.1	61.4	61.6	-
Surgical appliances and supplies	3842	87.3	87.7	90.5	91.3	-	55.7	56.0	56.9	57.6	-
Ophthalmic goods	385	39.3	39.2	39.3	40.4	-	26.8	27.1	26.8	28.1	-
Photographic equipment and supplies	386	114.2	112.0	117.3	117.2	-	49.2	48.2	50.6	50.2	-
Watches, clocks, and watchcases	387	11.5	11.8	10.9	11.5	-	8.5	8.9	8.1	8.4	-
Miscellaneous manufacturing	39	390.2	391.9	383.4	397.0	397.5	284.8	286.6	275.6	288.9	289.0
Jewelry, silverware, and plated ware	391	54.2	55.3	50.8	54.1	-	38.0	39.0	35.2	38.4	-
Jewelry, precious metal	3911	38.6	39.6	36.6	39.1	-	26.9	27.9	25.4	27.5	-
Musical instruments	393	13.1	13.2	12.9	13.1	-	11.0	11.0	10.6	10.8	-
Toys and sporting goods	394	104.8	105.4	105.3	107.1	-	77.9	78.8	76.6	78.5	-
Dolls, games, toys, and children's vehicles	3942,4	46.7	47.3	44.8	47.7	-	34.1	34.5	31.5	34.3	-
Sporting and athletic goods, nec	3949	58.1	58.1	60.5	59.4	-	43.8	44.3	45.1	44.2	-
Pens, pencils, office, and art supplies	395	33.8	33.5	34.3	34.4	-	23.8	23.5	23.9	23.9	-
Costume jewelry and notions	396	42.6	42.8	40.0	46.8	-	33.5	33.6	30.8	37.6	-
Costume jewelry	3961	22.4	22.4	21.2	26.1	-	17.4	17.3	15.9	20.8	-
Miscellaneous manufactures	399	141.7	141.7	140.1	141.5	-	100.6	100.7	98.5	99.7	-
Signs and advertising displays	3993	61.4	62.0	61.3	62.0	-	42.8	42.9	42.1	42.7	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Nondurable goods		8,056	8,063	8,078	8,192	8,174	5,692	5,701	5,678	5,788	5,779
Food and kindred products	20	1,711.9	1,707.8	1,711.2	1,755.5	1,756.8	1,232.5	1,230.2	1,232.3	1,275.4	1,276.9
Meat products	201	405.1	405.3	424.2	427.3	-	343.3	343.4	360.6	363.4	-
Meat packing plants	2011	141.4	142.1	144.8	145.4	-	118.3	118.9	121.3	121.9	-
Sausages and other prepared meats	2013	81.2	81.2	83.6	84.1	-	59.8	59.8	61.7	62.2	-
Poultry dressing plants	2016	159.8	159.7	172.3	173.7	-	145.0	144.9	156.6	157.7	-
Dairy products	202	162.0	159.3	161.5	160.6	-	98.5	96.1	100.6	99.5	-
Cheese, natural and processed	2022	43.1	42.2	43.9	43.4	-	32.9	32.2	33.8	33.4	-
Fluid milk	2026	77.0	76.5	75.1	75.4	-	38.2	37.8	38.3	38.3	-
Preserved fruits and vegetables	203	304.0	303.2	293.2	326.8	-	256.9	256.6	245.8	278.4	-
Canned specialties	2032	24.8	25.1	24.5	26.4	-	18.0	18.4	18.0	19.9	-
Canned fruits and vegetables	2033	125.9	123.2	113.3	138.8	-	110.5	107.5	98.1	122.4	-
Frozen fruits and vegetables	2037	58.0	57.6	56.0	63.6	-	51.6	51.5	49.4	57.2	-
Grain mill products	204	125.5	126.2	127.3	129.8	-	87.5	88.0	88.4	90.1	-
Flour and other grain mill products	2041	21.9	22.1	23.2	23.9	-	15.1	15.3	15.8	15.9	-
Prepared feeds, nec	2048	42.5	42.8	42.7	42.9	-	26.9	27.2	26.8	27.0	-
Bakery products	205	204.3	204.5	205.0	205.0	-	125.2	125.7	126.3	126.2	-
Bread, cake, and related products	2051	158.0	157.0	159.5	159.4	-	89.3	88.8	91.5	91.2	-
Cookies and crackers	2052	46.3	47.5	45.5	45.6	-	35.9	36.9	34.8	35.0	-
Sugar and confectionery products	206	98.1	102.2	91.7	99.2	-	77.2	81.1	70.1	76.9	-
Cane and beet sugar	2061-3	18.7	20.1	16.2	17.3	-	14.4	15.8	12.1	13.1	-
Confectionery products	2065	57.3	60.1	53.5	59.8	-	47.8	50.4	43.3	49.1	-
Fats and oils	207	31.6	31.8	31.2	31.1	-	23.0	23.2	23.0	22.8	-
Beverages	208	208.0	206.0	204.6	203.3	-	90.0	89.5	87.4	86.9	-
Malt beverages	2082	42.5	41.9	41.8	41.4	-	25.7	25.1	25.7	25.5	-
Bottled and canned soft drinks	2086	118.7	115.7	116.2	115.4	-	40.3	39.0	39.0	38.6	-
Misc. food and kindred products	209	173.3	169.3	172.5	172.4	-	130.9	126.6	130.1	131.2	-
Tobacco manufactures	21	54.9	58.1	49.5	52.2	54.6	40.8	43.4	35.6	38.3	41.0
Cigarettes	211	40.8	40.8	38.9	38.3	-	30.4	30.0	28.4	28.0	-
Textile mill products	22	725.5	730.0	717.3	730.9	730.3	628.1	632.8	619.0	631.6	630.8
Weaving mills, cotton	221	98.7	98.9	94.4	95.7	-	89.3	89.5	84.7	86.2	-
Weaving mills, synthetics	222	86.4	90.5	90.3	91.1	-	75.8	80.1	80.0	80.6	-
Weaving and finishing mills, wool	223	18.8	18.9	18.6	19.7	-	15.3	15.3	15.0	16.0	-
Narrow fabric mills	224	24.2	24.3	23.4	24.8	-	20.8	20.9	19.7	21.1	-
Knitting mills	225	212.7	211.2	210.8	214.5	-	187.9	186.3	185.1	188.7	-
Women's hosiery, except socks	2251	32.9	32.8	32.3	32.7	-	30.1	29.8	28.9	29.3	-
Hosiery, nec	2252	36.5	36.4	37.7	38.5	-	32.9	32.8	34.1	35.0	-
Knit outerwear mills	2253	72.0	71.0	70.5	71.9	-	64.4	63.3	62.5	63.8	-
Knit underwear mills	2254	26.5	26.3	25.3	25.3	-	22.2	22.2	21.3	21.3	-
Circular knit fabric mills	2257	25.7	25.5	27.3	27.5	-	22.4	22.2	23.8	24.0	-
Textile finishing, except wool	226	60.3	60.8	60.0	61.8	-	49.6	50.2	49.3	50.7	-
Finishing plants, cotton	2261	25.1	25.4	24.8	25.8	-	20.6	20.9	20.2	21.1	-
Finishing plants, synthetics	2262	21.4	21.6	21.2	21.8	-	17.1	17.4	17.1	17.4	-
Floor covering mills	227	60.3	61.0	62.6	63.2	-	48.7	49.5	50.9	51.4	-
Yarn and thread mills	228	108.1	107.9	102.9	104.8	-	96.9	96.8	92.2	94.0	-
Yarn mills, except wool	2281	81.0	80.8	78.1	78.8	-	73.4	73.2	70.3	71.1	-
Throwing and winding mills	2282	14.9	14.9	13.7	14.5	-	13.1	13.2	12.3	12.9	-
Miscellaneous textile goods	229	56.0	56.5	54.3	55.3	-	43.8	44.2	42.1	42.9	-
Apparel and other textile products	23	1,084.4	1,090.8	1,061.3	1,093.2	1,088.0	911.6	917.7	890.8	921.1	917.1
Men's and boys' suits and coats	231	58.3	58.7	54.0	54.5	-	50.5	51.0	46.1	46.3	-
Men's and boys' furnishings	232	299.8	300.4	294.7	301.3	-	258.6	258.7	253.5	260.2	-
Men's and boys' shirts and nightwear	2321	75.5	75.6	73.9	75.3	-	64.5	64.5	63.3	64.8	-
Men's and boys' separate trousers	2327	49.5	50.5	46.3	49.0	-	42.9	43.8	39.7	42.1	-
Men's and boys' work clothing	2328	91.0	90.0	91.6	92.7	-	79.7	78.6	80.2	81.1	-
Women's and misses' outerwear	233	337.5	338.5	320.6	334.6	-	280.3	282.0	266.9	279.6	-
Women's and misses' blouses and waists	2331	44.5	44.1	41.4	42.1	-	36.6	36.3	34.1	34.8	-
Women's and misses' dresses	2335	76.3	76.4	68.4	75.0	-	63.1	63.2	56.2	61.9	-
Women's and misses' suits and coats	2337	38.5	39.1	39.1	40.0	-	31.8	32.6	32.6	33.4	-
Women's and misses' outerwear, nec	2339	178.2	178.9	171.7	177.5	-	148.8	149.9	144.0	149.5	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	70.9	70.9	67.2	69.5	-	58.6	58.8	55.5	57.6	-
Women's and children's underwear	2341	57.3	57.3	54.4	55.7	-	49.1	49.3	46.6	48.1	-
Brassieres and allied garments	2342	13.6	13.6	12.8	13.8	-	9.5	9.5	8.9	9.5	-
Children's outerwear	236	57.8	57.5	56.8	56.6	-	48.9	48.3	47.9	48.0	-
Children's dresses and blouses	2361	22.6	22.2	22.1	21.7	-	19.9	19.3	19.3	19.0	-
Misc. apparel and accessories	238	43.8	43.5	43.5	45.1	-	36.3	35.8	35.7	37.0	-
Misc. fabricated textile products	239	199.1	203.8	205.7	212.8	-	164.6	169.1	169.8	177.0	-
Curtains and draperies	2391	25.5	25.7	26.0	26.9	-	21.1	21.1	21.5	22.4	-
House furnishings, nec	2392	53.6	54.8	54.9	57.6	-	45.6	46.7	45.8	48.4	-
Automotive and apparel trimmings	2396	41.0	43.4	43.0	43.8	-	34.0	36.3	35.9	36.6	-
Paper and allied products	26	697.3	694.5	702.6	704.1	699.4	527.0	524.5	528.7	530.1	527.5
Paper and pulp mills	261,2,6	196.6	193.0	197.2	197.7	-	149.5	146.1	150.0	149.8	-
Paper mills, except building paper	262	175.6	172.5	176.9	177.1	-	133.0	130.1	133.9	133.4	-
Paperboard mills	263	53.4	52.5	53.8	53.8	-	40.7	40.0	41.2	41.0	-
Misc. converted paper products	264	240.0	241.0	241.0	240.9	-	176.0	176.8	174.5	175.1	-
Paper coating and glazing	2641	60.8	60.3	61.3	61.2	-	37.0	36.3	35.7	35.5	-
Envelopes	2642	26.6	26.9	25.9	26.3	-	20.4	20.8	20.0	20.4	-
Bags, except textile bags	2643	52.8	53.3	52.8	53.3	-	41.4	41.9	41.2	41.8	-
Paperboard containers and boxes	265	207.3	208.0	210.6	211.7	-	160.8	161.6	163.0	164.2	-
Folding paperboard boxes	2651	45.6	45.9	46.7	47.1	-	36.1	36.5	37.3	37.5	-
Corrugated and solid fiber boxes	2653	112.1	112.7	113.7	114.1	-	84.4	84.9	85.4	85.8	-
Sanitary food containers	2654	23.2	22.8	22.9	22.3	-	19.8	19.3	19.4	18.8	-
Printing and publishing	27	1,563.6	1,566.7	1,605.4	1,606.4	1,604.4	872.4	873.5	887.9	888.6	888.0
Newspapers	271	473.9	474.4	477.2	477.1	-	169.6	169.9	166.2	166.4	-
Periodicals	272	130.2	130.4	135.9	136.6	-	46.3	46.3	48.3	48.5	-
Books	273	116.1	114.0	122.0	120.3	-	61.3	59.5	64.5	62.9	-
Book publishing	2731	85.8	83.8	90.3	89.2	-	36.9	35.3	39.4	38.1	-
Book printing	2732	30.3	30.2	31.7	31.1	-	24.4	24.2	25.1	24.8	-
Miscellaneous publishing	274	79.3	79.0	83.1	83.0	-	40.2	39.5	41.4	40.8	-
Commercial printing	275	554.0	558.6	570.3	571.8	-	404.0	406.8	413.3	414.9	-
Commercial printing, letterpress	2751	171.4	172.7	176.7	177.6	-	122.9	123.9	126.7	127.6	-
Commercial printing, lithographic	2752	356.2	359.2	366.8	367.1	-	260.0	261.6	265.2	265.6	-
Manifold business forms	276	49.2	49.2	48.7	48.7	-	33.7	33.8	33.0	33.1	-
Blankbooks and bookbinding	278	78.5	77.7	82.2	83.0	-	62.0	61.3	63.7	64.4	-
Printing trade services	279	58.0	58.4	61.0	60.5	-	42.8	43.2	44.5	44.3	-
Chemicals and allied products	28	1,078.3	1,074.4	1,099.0	1,102.6	1,095.0	605.2	602.6	616.9	620.4	616.2
Industrial inorganic chemicals	281	133.7	133.4	135.7	136.1	-	67.1	67.3	69.9	70.6	-
Industrial inorganic chemicals, nec	2819	90.6	90.6	91.2	91.5	-	48.9	49.2	48.2	48.4	-
Plastics materials and synthetics	282	180.7	178.8	188.7	189.3	-	118.9	117.7	123.3	124.1	-
Plastics materials and resins	2821	84.7	83.7	88.5	88.7	-	50.3	49.7	52.2	52.5	-
Organic fibers, noncellulosic	2824	67.1	66.4	70.5	71.1	-	47.9	47.5	50.3	50.8	-
Drugs	283	234.6	234.0	244.3	245.1	-	103.3	102.7	107.4	107.9	-
Pharmaceutical preparations	2834	192.7	192.9	201.2	201.9	-	83.4	83.1	88.6	89.0	-
Soap, cleaners, and toilet goods	284	164.3	164.4	160.1	161.7	-	106.5	106.3	100.8	101.9	-
Soap and other detergents	2841	44.9	44.2	43.9	43.9	-	28.0	27.4	27.5	27.4	-
Polishing, sanitation, and finishing preparations	2842,3	44.5	44.3	45.8	46.2	-	25.4	25.2	25.3	25.8	-
Toilet preparations	2844	74.9	75.9	70.4	71.6	-	53.1	53.7	48.0	48.7	-
Paints and allied products	285	64.6	63.5	64.0	64.5	-	32.6	31.6	33.1	32.9	-
Industrial organic chemicals	286	147.3	147.2	150.9	150.7	-	85.4	85.3	88.8	89.2	-
Cyclic crudes and intermediates	2865	30.0	30.0	30.9	31.0	-	18.5	18.5	19.0	19.2	-
Gum, wood, and industrial organic chemicals, nec	2861,9	117.3	117.2	120.0	119.7	-	66.9	66.8	69.8	70.0	-
Agricultural chemicals	287	51.2	51.3	53.6	52.8	-	32.5	32.3	32.9	32.3	-
Miscellaneous chemical products	289	101.9	101.8	101.7	102.4	-	58.9	59.4	60.7	61.5	-
Petroleum and coal products	29	165.3	164.2	166.0	166.3	165.0	108.4	107.8	109.2	109.5	108.9
Petroleum refining	291	123.8	122.7	124.3	124.5	-	79.0	78.3	79.3	79.6	-
Paving and roofing materials	295	28.9	28.9	28.7	28.8	-	22.5	22.6	22.5	22.6	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	828.8	830.7	831.2	838.6	839.7	644.8	647.7	646.5	654.3	655.8
Tires and inner tubes	301	83.3	82.3	85.9	86.4	-	61.2	60.4	64.6	65.6	-
Rubber and plastics footwear	302	11.4	11.2	10.7	10.1	-	9.5	9.3	8.7	8.2	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	26.5	26.6	27.4	27.0	-	19.6	19.7	20.3	20.0	-
Fabricated rubber products, nec	306	100.5	101.4	98.1	98.3	-	77.0	78.0	74.5	74.8	-
Miscellaneous plastics products	307	607.1	609.2	609.1	616.8	-	477.5	480.3	478.4	485.7	-
Leather and leather products	31	146.4	145.8	134.1	142.2	140.7	120.8	120.9	111.3	118.5	116.9
Leather tanning and finishing	311	13.7	13.6	13.7	14.2	-	11.3	11.4	11.5	11.9	-
Footwear, except rubber	314	84.1	83.2	75.9	79.9	-	71.8	71.1	64.7	68.6	-
Men's footwear, except athletic	3143	36.9	36.8	33.0	34.2	-	29.8	29.8	27.1	28.1	-
Women's footwear, except athletic	3144	29.5	28.5	26.4	28.0	-	26.1	25.2	23.4	24.9	-
Luggage	316	11.6	11.9	10.6	12.0	-	8.3	8.7	7.7	8.9	-
Handbags and personal leather goods	317	17.5	17.6	15.4	16.9	-	13.6	13.8	12.1	13.6	-
Transportation and public utilities		5,574	5,627	5,737	5,624	5,763	4,630	4,677	4,779	4,667	4,794
Transportation		3,337	3,410	3,503	3,521	3,598	-	-	-	-	-
Railroad transportation	40	303.0	302.3	296.9	299.0	-	-	-	-	-	-
Class I railroads ²	4011	262.3	261.6	253.0	255.0	-	-	-	-	-	-
Local and interurban passenger transit	41	263.7	324.1	278.4	279.1	-	239.0	297.1	250.2	249.9	-
Local and suburban transportation	411	120.3	122.1	130.3	131.0	-	109.6	110.8	116.7	116.0	-
Taxicabs	412	35.2	35.0	33.8	34.0	-	-	-	-	-	-
Intercity highway transportation	413	29.7	29.6	30.1	29.4	-	26.7	26.7	27.1	26.7	-
School buses	415	51.3	108.6	54.0	54.2	-	-	-	-	-	-
Trucking and warehousing	42	1,595.6	1,609.2	1,679.3	1,686.6	-	1,391.9	1,404.0	1,468.2	1,475.9	-
Trucking and trucking terminals	421,3	1,483.4	1,488.8	1,559.7	1,564.8	-	1,297.8	1,302.3	1,368.3	1,374.0	-
Public warehousing	422	112.2	120.4	119.6	121.8	-	94.1	101.7	99.9	101.9	-
Water transportation	44	180.5	180.1	190.2	186.7	-	-	-	-	-	-
Local water transportation	445	31.5	30.7	34.0	33.9	-	-	-	-	-	-
Water transportation services	446	97.3	97.8	104.2	101.1	-	-	-	-	-	-
Transportation by air	45	655.3	655.9	694.4	703.8	-	-	-	-	-	-
Air transportation	451,2	566.9	566.7	596.0	606.0	-	-	-	-	-	-
Air transportation services	458	88.4	89.2	98.4	97.8	-	-	-	-	-	-
Pipe lines, except natural gas	46	19.1	18.5	19.5	19.6	-	13.4	13.1	14.1	14.1	-
Transportation services	47	320.1	320.2	344.3	346.2	-	-	-	-	-	-
Freight forwarding	471	71.0	71.2	75.5	76.7	-	-	-	-	-	-
Communication and public utilities		2,237	2,217	2,234	2,103	2,165	-	-	-	-	-
Communication	48	1,290.9	1,283.1	1,286.6	1,155.7	-	974.7	967.6	979.2	850.6	-
Telephone communication	481	904.4	896.9	889.7	757.3	-	663.2	656.5	657.9	527.7	-
Radio and television broadcasting	483	240.5	240.5	245.1	246.5	-	198.0	197.8	202.6	203.7	-
Radio broadcasting	4832	120.3	120.0	122.3	123.1	-	-	-	-	-	-
Television broadcasting	4833	120.2	120.5	122.8	123.4	-	-	-	-	-	-
Electric, gas, and sanitary services	49	946.3	933.6	947.3	947.0	-	751.5	736.6	749.6	750.1	-
Electric services	491	457.6	453.2	453.2	452.5	-	350.6	344.4	347.7	348.2	-
Gas production and distribution	492	168.6	165.4	170.6	170.5	-	133.9	130.7	134.5	134.4	-
Combination utility services	493	196.1	193.5	194.8	194.5	-	161.3	158.4	158.2	157.6	-
Sanitary services	495	94.7	92.6	98.4	99.4	-	82.5	80.4	85.4	86.2	-
Wholesale trade		6,086	6,090	6,279	6,291	6,281	4,911	4,909	5,061	5,072	5,055
Durable goods	50	3,596	3,591	3,722	3,725	3,712	2,877	2,870	2,977	2,980	-
Motor vehicles and automotive equipment	501	435.8	433.7	441.1	438.6	-	350.2	348.6	357.5	355.9	-
Automobiles and other motor vehicles	5012	120.5	120.3	124.3	123.9	-	-	-	-	-	-
Automotive parts and supplies	5013	284.1	282.7	285.5	283.5	-	-	-	-	-	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	153.3	152.6	156.0	156.2	-	123.3	123.0	126.4	126.5	-
Furniture	5021	70.8	70.1	72.7	72.6	-	-	-	-	-	-
Home furnishings	5023	82.5	82.5	83.3	83.6	-	-	-	-	-	-
Lumber and construction materials	503	230.2	229.5	242.1	243.0	-	189.0	188.1	198.9	199.9	-
Lumber, plywood, and millwork	5031	119.7	118.6	124.9	125.5	-	-	-	-	-	-
Construction materials, nec	5039	110.5	110.9	117.2	117.5	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	90.2	89.9	99.3	99.2	-	73.5	72.9	80.1	79.6	-
Metals and minerals, except petroleum	505	141.4	141.1	145.5	145.0	-	112.6	112.0	115.5	114.9	-
Electrical goods	506	508.1	508.0	528.1	529.9	-	390.9	389.9	401.4	404.3	-
Electrical apparatus and equipment	5063	265.9	265.3	278.5	277.9	-	-	-	-	-	-
Electrical appliances, TV and radios	5064	66.2	66.2	68.2	69.4	-	-	-	-	-	-
Electronic parts and equipment	5065	176.0	176.5	181.4	182.6	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	281.3	280.5	285.4	285.2	-	227.6	226.4	231.7	231.9	-
Hardware	5072	98.3	97.8	97.5	97.5	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	114.4	114.3	117.6	117.3	-	-	-	-	-	-
Machinery, equipment, and supplies	508	1,529.9	1,529.5	1,584.8	1,587.1	-	1,227.3	1,226.7	1,271.5	1,273.1	-
Commercial machines and equipment	5081	549.3	549.2	560.4	560.5	-	-	-	-	-	-
Construction and mining machinery	5082	82.7	82.6	86.9	87.1	-	-	-	-	-	-
Farm machinery and equipment	5083	119.7	118.4	127.1	127.0	-	-	-	-	-	-
Industrial machinery and equipment	5084	337.6	336.2	351.8	352.3	-	-	-	-	-	-
Industrial supplies	5085	139.2	139.8	148.0	148.1	-	-	-	-	-	-
Professional equipment and supplies	5086	175.1	177.3	179.0	180.4	-	-	-	-	-	-
Miscellaneous durable goods	509	225.7	226.4	239.8	240.3	-	182.2	182.7	193.7	193.9	-
Scrap and waste materials	5093	105.4	106.0	113.7	113.3	-	-	-	-	-	-
Nondurable goods	51	2,490	2,499	2,557	2,566	2,569	2,034	2,039	2,084	2,092	-
Paper and paper products	511	220.5	220.8	230.4	230.2	-	179.3	178.4	185.7	185.3	-
Drugs, proprietaries, and sundries	512	181.0	182.3	188.9	189.4	-	151.8	152.7	158.5	158.6	-
Apparel, piece goods, and notions	513	193.3	192.5	202.3	205.1	-	149.2	148.6	156.3	159.0	-
Groceries and related products	514	834.2	837.9	846.0	847.0	-	703.9	707.0	714.8	716.0	-
Groceries, general line	5141	265.9	265.9	275.7	276.8	-	-	-	-	-	-
Meats and meat products	5147	65.7	65.4	67.2	67.6	-	-	-	-	-	-
Fresh fruits and vegetables	5148	105.0	111.3	105.0	102.3	-	-	-	-	-	-
Chemicals and allied products	516	127.5	126.2	131.8	130.6	-	94.1	92.6	96.0	95.0	-
Petroleum and petroleum products	517	204.5	204.4	209.7	210.0	-	160.8	160.4	164.9	165.7	-
Petroleum bulk stations and terminals	5171	85.2	85.2	88.6	88.8	-	-	-	-	-	-
Petroleum products, nec	5172	119.3	119.2	121.1	121.2	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	153.9	152.3	157.8	157.6	-	126.9	125.0	129.9	129.3	-
Beer and ale	5181	98.7	97.0	101.6	101.6	-	-	-	-	-	-
Wines and distilled beverages	5182	55.2	55.3	56.2	56.0	-	-	-	-	-	-
Miscellaneous nondurable goods	519	445.9	450.6	473.9	473.3	-	361.5	365.3	383.9	383.3	-
Farm supplies	5191	149.7	153.0	161.5	159.4	-	-	-	-	-	-
Retail trade		19,312	19,266	19,684	19,757	19,702	17,118	17,058	17,442	17,506	17,422
Building materials and garden supplies	52	789.6	777.8	791.3	783.7	-	655.0	643.7	657.8	651.5	-
Lumber and other building materials	521	445.3	437.4	440.2	437.3	-	375.4	367.6	373.0	370.8	-
Hardware stores	525	163.5	161.8	170.5	169.7	-	136.2	134.5	140.8	140.1	-
General merchandise stores	53	2,400.3	2,404.8	2,425.2	2,428.6	2,435.9	2,215.9	2,216.7	2,254.0	2,256.3	-
Department stores	531	1,985.0	1,990.2	2,006.9	2,010.6	-	1,843.9	1,845.3	1,877.2	1,880.1	-
Variety stores	533	237.9	236.8	230.4	230.5	-	217.6	216.6	212.1	211.9	-
Misc. general merchandise stores	539	177.4	177.8	187.9	187.5	-	154.4	154.8	164.7	164.3	-
Food stores	54	3,123.9	3,123.2	3,290.2	3,298.8	3,291.6	2,875.9	2,874.8	3,029.8	3,037.5	-
Grocery stores	541	2,766.8	2,772.8	2,909.5	2,917.0	-	2,560.7	2,566.6	2,693.9	2,700.4	-
Meat markets and freezer provisioners	542	54.5	53.9	57.2	56.6	-	-	-	-	-	-
Dairy products stores	545	28.5	27.0	34.6	35.1	-	-	-	-	-	-
Retail bakeries	546	172.2	170.4	176.1	176.8	-	155.2	153.9	158.7	159.5	-
Automotive dealers and service stations	55	2,136.6	2,132.9	2,182.6	2,182.9	2,172.9	1,790.0	1,783.7	1,825.7	1,823.9	-
New and used car dealers	551,2	1,044.0	1,047.6	1,046.1	1,046.6	-	866.4	869.0	869.3	868.8	-
Auto and home supply stores	553	342.8	342.8	361.8	363.8	-	278.2	277.2	291.0	292.2	-
Gasoline service stations	554	639.4	634.9	649.7	649.1	-	555.9	551.5	564.5	563.5	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Retail trade—Continued											
Apparel and accessory stores	56	1,162.5	1,156.4	1,176.0	1,189.7	-	983.3	975.1	987.0	1,000.9	-
Men's and boys' clothing and furnishings	561	106.7	105.4	105.6	105.6	-	86.4	85.2	84.6	84.5	-
Women's ready-to-wear stores	562	405.0	407.3	412.5	416.5	-	340.1	342.2	345.3	347.8	-
Family clothing stores	565	276.4	269.5	278.8	282.1	-	241.5	233.8	240.8	245.5	-
Shoe stores	566	222.7	223.0	228.9	234.1	-	186.3	185.8	189.7	194.9	-
Furniture and home furnishings stores	57	796.0	796.2	804.3	806.4	-	650.8	651.4	658.8	660.6	-
Furniture and home furnishings stores	571	459.7	460.5	472.8	473.3	-	373.8	375.0	384.3	384.4	-
Furniture stores	5712	283.1	284.2	291.2	290.7	-	-	-	-	-	-
Household appliance stores	572	86.7	85.8	76.1	76.0	-	73.1	72.0	63.0	63.4	-
Radio, television, and music stores	573	249.6	249.9	255.4	257.1	-	203.9	204.4	211.5	212.8	-
Radio and television stores	5732	175.8	175.5	178.5	179.8	-	-	-	-	-	-
Music stores	5733	73.8	74.4	76.9	77.3	-	-	-	-	-	-
Eating and drinking places	58	6,491.5	6,449.7	6,535.4	6,576.8	6,551.0	5,920.7	5,874.6	5,954.0	5,990.6	-
Miscellaneous retail	59	2,411.6	2,424.5	2,478.6	2,489.8	-	2,026.4	2,038.3	2,075.1	2,084.2	-
Drug stores and proprietary stores	591	591.1	587.9	603.2	606.1	-	504.1	501.3	511.0	512.9	-
Liquor stores	592	122.1	121.7	126.6	126.2	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	846.1	858.1	881.1	886.2	-	706.5	718.0	732.7	737.5	-
Sporting goods and bicycle shops	5941	152.6	154.5	162.4	163.6	-	-	-	-	-	-
Book stores	5942	82.2	90.2	86.7	88.7	-	-	-	-	-	-
Stationery stores	5943	81.7	82.3	84.5	84.4	-	-	-	-	-	-
Jewelry stores	5944	154.9	155.6	158.6	158.8	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	185.8	182.9	198.8	199.0	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	61.3	62.7	62.3	62.9	-	-	-	-	-	-
Nonstore retailers	596	283.4	286.5	256.4	259.1	-	253.2	256.5	227.2	229.4	-
Mail order houses	5961	140.8	145.3	125.2	125.9	-	-	-	-	-	-
Merchandising machine operators	5962	85.3	86.1	85.3	86.0	-	-	-	-	-	-
Fuel and ice dealers	598	107.8	109.3	115.0	115.2	-	89.2	90.5	95.0	95.3	-
Retail stores, nec	599	381.8	381.7	409.3	410.3	-	308.7	308.5	335.0	335.5	-
Finance, insurance, and real estate³		6,769	6,706	6,913	6,918	6,853	4,936	4,866	5,033	5,038	4,973
Finance		3,309	3,282	3,357	3,358	3,330	-	-	-	-	-
Banking	60	1,751.7	1,735.0	1,795.0	1,796.3	-	1,251.5	1,236.3	1,281.6	1,282.7	-
Commercial and stock savings banks	602	1,568.2	1,552.2	1,590.2	1,589.9	-	1,118.3	1,103.4	1,132.6	1,132.7	-
State banks, Federal Reserve	6022	317.5	315.1	317.4	316.1	-	-	-	-	-	-
State banks, not Federal Reserve	6023,4	364.4	360.0	372.6	372.9	-	-	-	-	-	-
Mutual savings banks	603	80.2	79.0	81.2	80.9	-	-	-	-	-	-
Credit agencies other than banks	61	901.1	896.6	909.8	911.8	-	673.9	668.4	683.4	686.3	-
Savings and loan associations	612	402.5	399.4	405.3	405.4	-	306.0	302.5	308.1	308.3	-
Federal savings and loan associations	6122	232.1	229.9	234.6	235.2	-	-	-	-	-	-
State associations, insured	6123	165.2	164.4	165.5	165.0	-	-	-	-	-	-
Personal credit institutions	614	257.0	257.3	267.7	268.5	-	199.5	199.3	208.4	209.0	-
Business credit institutions	615	59.4	59.6	67.7	68.4	-	-	-	-	-	-
Mortgage bankers and brokers	616	159.0	157.2	147.0	147.7	-	-	-	-	-	-
Security, commodity brokers, and services	62	447.6	443.0	437.9	436.1	-	-	-	-	-	-
Security brokers and dealers	621	351.0	347.6	338.5	335.8	-	-	-	-	-	-
Holding and other investment offices	67	208.7	207.2	214.2	213.6	-	-	-	-	-	-
Insurance		2,094	2,087	2,142	2,141	2,132	-	-	-	-	-
Insurance carriers	63	1,448.5	1,443.4	1,478.4	1,477.3	-	973.8	965.7	987.3	984.6	-
Life insurance	631	578.0	574.6	579.3	578.5	-	346.8	343.1	351.2	349.5	-
Medical service and health insurance	632	219.7	219.3	235.4	235.5	-	177.5	177.0	190.4	190.0	-
Fire, marine, and casualty insurance	633	541.7	541.0	549.9	549.7	-	366.7	363.4	358.4	357.7	-
Title insurance	636	59.2	58.9	60.0	60.1	-	-	-	-	-	-
Insurance agents, brokers, and service	64	645.4	643.6	663.1	663.4	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,366	1,337	1,414	1,419	1,391	-	-	-	-	-
Real estate	65	1,356.9	1,327.4	1,405.3	1,409.8	-	-	-	-	-	
Real estate operators and lessors	651	586.0	576.8	611.6	614.7	-	-	-	-	-	
Real estate agents and managers	653	559.7	544.3	568.7	571.2	-	-	-	-	-	
Subdividers and developers	655	179.3	174.6	192.3	190.8	-	-	-	-	-	
Combined real estate, insurance, etc	66	9.5	9.2	9.1	9.0	-	-	-	-	-	
Services		25,955	25,970	27,216	27,235	27,234	22,700	22,703	23,776	23,782	23,754
Hotels and other lodging places	70	1,679.3	1,606.3	1,726.7	1,725.7	-	-	-	-	-	
Hotels, motels, and tourist courts	701	1,601.1	1,562.1	1,635.5	1,632.7	-	1,433.3	1,395.5	1,461.4	1,456.6	
Personal services	72	1,146.6	1,157.9	1,166.8	1,166.2	-	-	-	-	-	
Laundry, cleaning, and garment services	721	412.6	414.2	411.6	410.8	-	366.5	367.9	365.8	365.2	
Photographic studios, portrait	722	56.8	59.2	57.6	58.5	-	-	-	-	-	
Beauty shops	723	361.9	365.9	368.0	368.6	-	323.0	326.5	328.0	328.3	
Funeral service and crematories	726	80.5	79.7	81.2	81.4	-	-	-	-	-	
Business services	73	5,677.1	5,701.8	5,826.3	5,864.1	5,898.8	4,873.1	4,893.6	4,967.0	4,998.8	
Advertising	731	241.0	241.6	258.3	258.7	-	178.6	178.5	191.3	191.6	
Advertising agencies	7311	173.9	173.7	187.4	187.6	-	-	-	-	-	
Credit reporting and collection	732	92.3	91.6	96.7	96.8	-	-	-	-	-	
Mailing, reproduction, and stenographic	733	211.5	221.5	243.3	246.8	-	-	-	-	-	
Services to buildings	734	806.6	811.9	815.6	815.8	-	730.7	734.0	737.9	738.0	
Personnel supply services	736	1,408.0	1,419.4	1,352.9	1,378.0	-	-	-	-	-	
Employment agencies	7361	225.7	229.2	216.5	217.8	-	-	-	-	-	
Temporary help supply services	7362	1,076.1	1,083.3	1,033.0	1,057.2	-	-	-	-	-	
Computer and data processing services	737	688.0	693.8	772.2	772.0	-	535.6	538.3	601.7	602.0	
Computer programming and software	7372	313.4	316.4	358.8	361.2	-	-	-	-	-	
Data processing services	7374	258.4	259.2	288.3	284.9	-	-	-	-	-	
Miscellaneous business services	739	2,217.9	2,210.0	2,274.1	2,282.7	-	-	-	-	-	
Research development laboratories, nec	7391	216.5	215.8	221.7	220.9	-	-	-	-	-	
Management and public relations	7392	544.8	535.4	555.0	554.2	-	-	-	-	-	
Detective and protective services	7393	470.2	472.8	478.7	483.8	-	-	-	-	-	
Equipment rental and leasing	7394	268.3	267.9	280.1	280.4	-	-	-	-	-	
Photofinishing laboratories	7395	83.6	86.7	82.2	82.4	-	-	-	-	-	
Auto repair, services, and garages	75	851.3	852.9	908.4	909.5	-	705.9	704.9	747.9	748.7	
Automotive rentals, without drivers	751	168.6	168.9	188.7	188.8	-	-	-	-	-	
Automotive repair shops	753	496.4	497.2	527.0	530.5	-	410.7	410.3	431.2	433.8	
Miscellaneous repair services	76	352.4	352.4	363.8	365.4	-	288.0	288.1	299.6	301.0	
Electrical repair shops	762	112.7	112.4	124.7	126.1	-	-	-	-	-	
Motion pictures	78	250.5	250.7	278.9	284.0	-	211.1	210.1	238.0	242.1	
Motion picture production and services	781	115.6	123.0	137.2	144.9	-	91.2	97.5	111.5	118.6	
Motion picture theaters	783	117.0	109.8	124.1	121.0	-	-	-	-	-	
Amusement and recreation services	79	1,080.6	975.8	1,160.5	1,153.2	-	933.8	838.2	1,026.1	1,019.0	
Health services	80	7,210.3	7,229.2	7,685.8	7,717.5	7,738.9	6,411.6	6,426.1	6,835.4	6,863.6	
Offices of physicians	801	1,123.4	1,127.2	1,214.4	1,220.0	-	920.8	924.0	993.0	997.8	
Offices of dentists	802	489.1	489.9	513.3	516.4	-	429.6	428.9	448.7	450.6	
Nursing and personal care facilities	805	1,331.8	1,330.1	1,392.3	1,400.2	-	1,204.1	1,201.7	1,259.3	1,266.3	
Skilled nursing care facilities	8051	922.4	921.5	964.7	969.5	-	-	-	-	-	
Nursing and personal care, nec	8059	409.4	408.6	427.6	430.7	-	-	-	-	-	
Hospitals	806	3,328.6	3,337.9	3,517.3	3,524.4	-	3,043.9	3,052.7	3,220.7	3,228.4	
General medical and surgical hospitals	8062	3,079.5	3,088.6	3,253.9	3,260.3	-	-	-	-	-	
Psychiatric hospitals	8063	92.7	92.4	97.1	96.8	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	156.4	156.9	166.3	167.3	-	-	-	-	-	
Medical and dental laboratories	807	150.9	151.6	172.7	174.3	-	-	-	-	-	
Outpatient care facilities	808	271.0	275.1	320.2	325.2	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Services—Continued											
Legal services	81	868.4	855.2	916.7	914.8	-	728.3	712.8	763.3	760.5	-
Educational services	82	1,345.9	1,544.9	1,413.3	1,403.7	-	-	-	-	-	-
Elementary and secondary schools	821	345.2	391.9	358.0	357.3	-	-	-	-	-	-
Colleges and universities	822	791.0	944.0	813.9	803.3	-	-	-	-	-	-
Correspondence and vocational schools	824	92.0	94.0	102.5	103.3	-	-	-	-	-	-
Social services	83	1,591.9	1,619.8	1,725.5	1,718.1	-	-	-	-	-	-
Individual and family services	832	344.0	338.9	359.6	358.5	-	-	-	-	-	-
Job training and related services	833	256.5	230.2	266.1	257.2	-	-	-	-	-	-
Residential care	836	398.4	396.5	429.9	432.6	-	-	-	-	-	-
Museums, botanical and zoological gardens	84	53.9	51.7	56.3	55.8	-	-	-	-	-	-
Membership organizations	86	1,772.6	1,724.5	1,826.0	1,802.4	-	-	-	-	-	-
Business associations	861	102.8	100.5	102.9	103.3	-	-	-	-	-	-
Labor organizations	863	130.8	133.8	134.6	132.3	-	-	-	-	-	-
Civic and social associations	864	416.2	371.2	460.1	441.1	-	-	-	-	-	-
Miscellaneous services	89	1,404.1	1,392.9	1,469.2	1,470.8	-	1,131.5	1,115.4	1,174.2	1,174.4	-
Engineering and architectural services	891	740.8	733.0	773.6	773.8	-	619.8	610.2	641.4	641.9	-
Noncommercial research organizations	892	138.4	133.7	150.0	151.2	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	491.6	493.1	511.3	509.3	-	375.8	373.8	387.7	386.0	-
Government		16,298	17,185	16,807	16,671	17,579	-	-	-	-	-
Federal Government ⁴		2,980	2,968	3,033	3,010	2,978	-	-	-	-	-
Executive, by agency ⁴		2,920.5	2,909.1	2,971.9	-	-	-	-	-	-	-
Department of Defense		959.0	951.0	983.4	-	-	-	-	-	-	-
Postal Service ⁵		827.3	828.3	831.8	-	-	-	-	-	-	-
Other executive agencies		1,134.2	1,129.8	1,156.7	-	-	-	-	-	-	-
Legislative		38.3	37.5	39.3	-	-	-	-	-	-	-
Judicial		21.2	21.3	21.4	-	-	-	-	-	-	-
Federal government, by industry:											
Manufacturing activities		121.1	121.2	125.0	125.2	-	-	-	-	-	-
Shipbuilding and repairing	3731	73.8	73.8	74.4	74.4	-	-	-	-	-	-
Transportation and public utilities, except Postal Service		40.5	39.4	38.6	38.9	-	-	-	-	-	-
Services		426.3	433.1	438.3	440.0	-	-	-	-	-	-
Hospitals	806	248.2	248.0	250.4	251.3	-	-	-	-	-	-
State government		3,855	4,016	3,921	3,932	4,096	-	-	-	-	-
Hospitals	806	447.6	445.8	452.4	449.1	-	-	-	-	-	-
Education	82	1,340.8	1,545.5	1,358.4	1,365.1	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		1,514.4	1,494.8	1,556.6	1,562.7	-	-	-	-	-	-
Local government		9,463	10,201	9,853	9,729	10,505	-	-	-	-	-
Transportation and public utilities		493.8	490.5	503.1	503.5	-	-	-	-	-	-
Hospitals	806	627.9	626.6	652.0	653.3	-	-	-	-	-	-
Education	82	4,619.2	5,566.0	4,814.2	4,734.9	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions		3,356.9	3,169.0	3,477.0	3,445.4	-	-	-	-	-	-

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

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	June 1988	July 1988	May 1989	June 1989	July 1989
Total	49,306	48,402	50,923	51,094	50,178
Total private	40,371	40,276	41,520	41,907	41,767
Goods-producing	7,071	7,004	7,141	7,202	7,131
Mining	97	98	97	99	99
Construction	555	562	576	584	589
Manufacturing	6,419	6,344	6,468	6,519	6,443
Durable goods	3,085	3,054	3,104	3,116	3,074
Lumber and wood products	128	127	126	128	126
Furniture and fixtures	163	160	167	166	164
Stone, clay, and glass products	123	123	124	125	124
Primary metal industries	107	104	108	109	106
Fabricated metal products	326	321	327	328	321
Machinery, except electrical	463	462	474	477	474
Electrical and electronic equipment	868	860	849	850	839
Transportation equipment	402	399	409	410	404
Instruments and related products	328	326	338	339	339
Miscellaneous manufacturing	179	174	182	184	177
Nondurable goods	3,334	3,290	3,364	3,403	3,369
Food and kindred products	523	537	515	537	564
Tobacco manufactures	17	16	16	16	16
Textile mill products	355	346	353	355	348
Apparel and other textile products	876	837	877	879	840
Paper and allied products	171	171	171	174	175
Printing and publishing	676	676	706	709	708
Chemicals and allied products	314	315	324	329	327
Petroleum and coal products	25	25	26	27	27
Rubber and misc. plastics products	291	285	292	293	286
Leather and leather products	86	82	84	84	79
Service-producing	42,235	41,398	43,782	43,892	43,047
Transportation and public utilities	1,605	1,581	1,640	1,653	1,634
Wholesale trade	1,805	1,806	1,880	1,897	1,897
Retail trade	10,193	10,154	10,342	10,449	10,407
Finance, insurance, and real estate	4,194	4,207	4,257	4,301	4,316
Services	15,503	15,524	16,260	16,405	16,382
Government	8,935	8,126	9,403	9,187	8,411
Federal	1,066	1,069	1,073	1,082	1,085
State	1,922	1,871	2,065	1,974	1,919
Local	5,947	5,186	6,265	6,131	5,407

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

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

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total	106,207	106,475	106,824	107,097	107,442	107,711	107,888	108,101	108,310	108,607	108,767	108,855	109,064
Total private	88,736	88,991	89,299	89,574	89,897	90,124	90,291	90,475	90,623	90,884	91,016	91,075	91,189
Goods-producing	25,313	25,384	25,460	25,513	25,626	25,629	25,648	25,671	25,672	25,648	25,669	25,696	25,588
Mining	719	717	712	711	711	711	714	720	722	715	706	730	725
Oil and gas extraction	404	400	396	394	393	394	397	400	401	402	404	405	403
Construction	5,163	5,162	5,191	5,213	5,267	5,270	5,252	5,279	5,283	5,283	5,314	5,316	5,316
General building contractors	1,374	1,363	1,375	1,380	1,404	1,398	1,380	1,377	1,388	1,384	1,391	1,401	1,398
Manufacturing	19,431	19,505	19,557	19,589	19,648	19,648	19,680	19,672	19,667	19,650	19,649	19,650	19,547
Durable goods	11,464	11,509	11,545	11,565	11,805	11,594	11,604	11,600	11,594	11,567	11,549	11,553	11,471
Lumber and wood products	763	770	775	780	784	778	777	772	771	769	767	764	760
Furniture and fixtures	530	531	532	532	532	534	535	537	534	534	536	529	528
Stone, clay, and glass products	600	603	605	607	607	608	607	606	604	603	602	601	595
Primary metal industries	779	783	784	785	786	786	788	788	787	787	785	787	777
Blast furnaces and basic steel products	277	277	277	276	276	276	276	275	276	276	277	276	274
Fabricated metal products	1,438	1,442	1,445	1,449	1,458	1,458	1,457	1,454	1,452	1,449	1,446	1,441	1,434
Machinery, except electrical	2,098	2,110	2,120	2,126	2,134	2,138	2,143	2,144	2,150	2,151	2,154	2,153	2,149
Electrical and electronic equipment	2,072	2,073	2,075	2,067	2,065	2,062	2,060	2,058	2,050	2,041	2,040	2,032	2,020
Transportation equipment	2,044	2,055	2,060	2,063	2,079	2,067	2,071	2,073	2,076	2,062	2,046	2,070	2,034
Motor vehicles and equipment	859	865	867	867	882	871	869	875	876	861	844	873	840
Instruments and related products	758	758	782	767	770	772	776	777	778	779	781	782	782
Miscellaneous manufacturing	386	384	387	389	390	391	390	391	392	392	392	394	392
Nondurable goods	7,967	7,996	8,012	8,024	8,043	8,054	8,076	8,072	8,073	8,083	8,100	8,097	8,076
Food and kindred products	1,827	1,644	1,648	1,648	1,650	1,650	1,655	1,657	1,656	1,663	1,678	1,670	1,673
Tobacco manufactures	55	55	56	56	56	56	56	54	53	52	53	52	52
Textile mill products	726	726	725	724	728	728	729	728	728	729	730	729	726
Apparel and other textile products	1,085	1,083	1,088	1,090	1,092	1,096	1,101	1,098	1,095	1,093	1,094	1,094	1,083
Paper and allied products	693	695	695	696	696	696	697	696	697	697	701	701	697
Printing and publishing	1,573	1,577	1,581	1,588	1,595	1,595	1,600	1,601	1,603	1,607	1,609	1,611	1,611
Chemicals and allied products	1,072	1,074	1,075	1,079	1,084	1,085	1,088	1,090	1,094	1,096	1,091	1,095	1,093
Petroleum and coal products	162	162	162	162	160	161	161	162	162	163	163	163	163
Rubber and misc. plastics products	830	836	839	840	839	843	845	843	843	841	841	842	839
Leather and leather products	144	144	143	143	143	144	144	143	142	142	140	140	139
Service-producing	80,894	81,091	81,364	81,584	81,816	82,082	82,242	82,430	82,638	82,959	83,098	83,159	83,476
Transportation and public utilities	5,581	5,596	5,616	5,634	5,654	5,667	5,666	5,682	5,700	5,716	5,736	5,625	5,717
Transportation	3,365	3,381	3,402	3,421	3,439	3,453	3,452	3,467	3,484	3,500	3,524	3,539	3,552
Communication and public utilities	2,216	2,215	2,214	2,213	2,215	2,214	2,214	2,215	2,216	2,216	2,212	2,086	2,165
Wholesale trade	6,071	6,088	6,104	6,125	6,146	6,171	6,197	6,206	6,222	6,230	6,237	6,254	6,263
Durable goods	3,590	3,599	3,612	3,626	3,638	3,657	3,676	3,676	3,685	3,693	3,700	3,706	3,712
Nondurable goods	2,481	2,487	2,492	2,499	2,508	2,514	2,521	2,530	2,537	2,537	2,537	2,548	2,551
Retail trade	19,188	19,229	19,282	19,328	19,407	19,460	19,488	19,489	19,528	19,551	19,586	19,620	19,624
General merchandise stores	2,452	2,447	2,452	2,460	2,472	2,481	2,490	2,492	2,491	2,493	2,482	2,483	2,486
Food stores	3,122	3,149	3,185	3,182	3,200	3,212	3,223	3,233	3,245	3,262	3,274	3,292	3,292
Automotive dealers and service stations	2,115	2,124	2,131	2,136	2,143	2,150	2,155	2,159	2,159	2,155	2,155	2,153	2,154
Eating and drinking places	6,296	6,314	6,322	6,328	6,323	6,332	6,322	6,335	6,348	6,362	6,370	6,385	6,397
Finance, insurance, and real estate	6,895	6,710	6,726	6,744	6,746	6,763	6,774	6,776	6,790	6,808	6,815	6,834	6,844
Finance	3,288	3,293	3,299	3,307	3,308	3,311	3,316	3,312	3,320	3,320	3,324	3,335	3,337
Insurance	2,092	2,098	2,102	2,110	2,109	2,116	2,117	2,119	2,123	2,129	2,131	2,135	2,138
Real estate	1,315	1,319	1,325	1,327	1,329	1,336	1,341	1,345	1,347	1,359	1,360	1,364	1,369
Services	25,888	25,986	26,111	26,230	26,318	26,434	26,520	26,651	26,711	26,931	26,973	27,046	27,153
Business services	5,651	5,667	5,882	5,715	5,707	5,729	5,736	5,760	5,776	5,799	5,786	5,800	5,846
Health services	7,228	7,267	7,313	7,359	7,396	7,442	7,488	7,528	7,570	7,616	7,648	7,694	7,739
Government	17,471	17,484	17,525	17,523	17,545	17,587	17,597	17,626	17,687	17,723	17,751	17,780	17,875
Federal	2,985	2,986	2,983	2,981	2,978	2,982	2,982	2,982	2,999	2,995	3,000	2,998	2,996
State	4,088	4,081	4,085	4,085	4,084	4,095	4,102	4,111	4,119	4,136	4,145	4,161	4,171
Local	10,398	10,417	10,457	10,457	10,483	10,510	10,513	10,533	10,569	10,592	10,606	10,621	10,708

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988

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

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1988						1989						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total	49,207	49,338	49,488	49,586	49,799	49,963	50,130	50,302	50,414	50,515	50,670	50,894	51,023
Total private	40,296	40,393	40,503	40,602	40,776	40,943	41,093	41,239	41,340	41,418	41,530	41,717	41,794
Goods-producing	7,053	7,049	7,054	7,069	7,095	7,112	7,141	7,152	7,159	7,161	7,166	7,165	7,176
Mining	97	98	97	97	97	97	97	97	97	97	97	99	98
Construction	551	554	555	555	557	561	566	571	571	573	577	577	577
Manufacturing	6,405	6,397	6,402	6,417	6,441	6,454	6,478	6,484	6,491	6,491	6,492	6,489	6,501
Durable goods	3,084	3,084	3,082	3,087	3,097	3,103	3,113	3,111	3,109	3,111	3,108	3,103	3,103
Lumber and wood products	125	125	125	125	127	127	127	127	127	126	126	125	124
Furniture and fixtures	165	164	165	165	165	165	166	166	167	167	167	167	169
Stone, clay, and glass products	122	122	121	122	122	123	123	123	123	124	124	123	123
Primary metal industries	106	106	106	106	106	107	108	107	108	108	108	108	107
Fabricated metal products	326	325	325	325	327	327	330	329	328	327	327	326	327
Machinery, except electrical	463	464	465	467	469	469	471	471	471	471	472	474	475
Electrical and electronic equipment	868	868	867	868	869	866	864	863	860	859	853	850	847
Transportation equipment	401	401	399	401	402	405	407	407	408	409	410	409	407
Instruments and related products	328	330	330	331	332	335	337	337	337	338	339	338	341
Miscellaneous manufacturing	180	179	179	177	178	179	180	181	180	182	182	183	183
Nondurable goods	3,321	3,313	3,320	3,330	3,344	3,351	3,365	3,373	3,382	3,380	3,384	3,386	3,398
Food and kindred products	525	520	524	531	535	532	536	537	537	537	537	540	551
Tobacco manufactures	18	18	18	18	18	19	18	19	19	18	17	17	18
Textile mill products	351	349	349	349	350	350	352	352	354	353	353	353	353
Apparel and other textile products	867	863	863	862	867	869	871	874	877	875	873	871	870
Paper and allied products	170	170	171	171	171	171	171	171	171	171	171	172	173
Printing and publishing	678	681	682	685	688	692	697	698	700	702	706	708	709
Chemicals and allied products	312	313	314	315	315	316	318	319	321	322	325	325	324
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	290	289	289	289	291	292	292	292	293	292	292	291	292
Leather and leather products	86	85	85	85	84	84	84	85	84	84	84	83	82
Service-producing	42,154	42,289	42,434	42,517	42,704	42,851	42,989	43,150	43,255	43,354	43,504	43,729	43,847
Transportation and public utilities	1,598	1,604	1,604	1,608	1,614	1,621	1,626	1,630	1,629	1,628	1,635	1,645	1,652
Wholesale trade	1,808	1,811	1,820	1,827	1,835	1,845	1,854	1,862	1,866	1,876	1,888	1,893	1,899
Retail trade	10,149	10,171	10,179	10,190	10,213	10,238	10,287	10,318	10,336	10,337	10,373	10,387	10,407
Finance, insurance, and real estate	4,169	4,178	4,188	4,199	4,212	4,222	4,227	4,242	4,249	4,247	4,257	4,271	4,278
Services	15,519	15,580	15,658	15,709	15,807	15,905	15,958	16,035	16,101	16,169	16,211	16,356	16,382
Government	8,911	8,945	8,985	8,984	9,023	9,020	9,037	9,063	9,074	9,097	9,140	9,177	9,229
Federal	1,055	1,059	1,065	1,067	1,066	1,065	1,063	1,064	1,064	1,064	1,070	1,070	1,071
State	1,998	2,003	2,015	2,009	2,013	2,013	2,012	2,017	2,020	2,023	2,034	2,043	2,048
Local	5,858	5,883	5,905	5,908	5,944	5,942	5,962	5,982	5,990	6,010	6,036	6,064	6,110

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

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

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

B-6. Production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	71,825	72,021	72,273	72,494	72,774	72,949	73,101	73,204	73,315	73,555	73,670	73,731	73,770
Goods-producing	17,813	17,865	17,929	17,963	18,065	18,048	18,052	18,053	18,058	18,022	18,047	18,072	17,968
Mining	518	515	511	510	510	510	514	519	521	511	503	526	521
Construction	4,032	4,026	4,053	4,068	4,132	4,112	4,096	4,104	4,111	4,111	4,134	4,140	4,138
Manufacturing	13,263	13,324	13,365	13,385	13,423	13,426	13,442	13,430	13,426	13,400	13,410	13,406	13,309
Durable goods	7,653	7,690	7,717	7,730	7,758	7,749	7,749	7,744	7,735	7,706	7,697	7,700	7,624
Lumber and wood products	635	641	645	647	652	648	646	642	641	638	636	633	631
Furniture and fixtures	424	425	426	426	426	427	428	428	427	426	427	421	420
Stone, clay, and glass products	466	469	470	472	473	474	472	471	469	468	468	467	461
Primary metal industries	597	600	601	602	603	602	603	603	601	602	601	601	591
Blast furnaces and basic steel products	217	216	217	216	215	215	213	211	210	211	211	213	212
Fabricated metal products	1,069	1,076	1,079	1,082	1,089	1,087	1,086	1,080	1,079	1,074	1,073	1,069	1,063
Machinery, except electrical	1,261	1,270	1,279	1,285	1,292	1,298	1,298	1,298	1,302	1,303	1,309	1,305	1,300
Electrical and electronic equipment	1,227	1,228	1,233	1,224	1,222	1,218	1,214	1,213	1,205	1,198	1,199	1,195	1,185
Transportation equipment	1,276	1,283	1,283	1,285	1,294	1,286	1,292	1,297	1,297	1,284	1,270	1,292	1,257
Motor vehicles and equipment	671	676	676	676	687	677	675	680	681	667	650	676	641
Instruments and related products	417	419	421	425	424	425	427	428	430	429	431	431	433
Miscellaneous manufacturing	281	279	280	282	283	284	283	284	284	284	283	286	283
Nondurable goods	5,610	5,634	5,648	5,655	5,665	5,677	5,693	5,686	5,691	5,694	5,713	5,706	5,685
Food and kindred products	1,156	1,169	1,173	1,172	1,175	1,177	1,182	1,184	1,184	1,190	1,205	1,199	1,201
Tobacco manufactures	40	41	42	42	41	41	41	40	38	38	39	38	38
Textile mill products	629	629	628	628	630	630	630	630	630	630	631	629	626
Apparel and other textile products	912	912	916	919	922	926	930	927	925	922	922	922	912
Paper and allied products	523	524	525	525	524	524	525	524	525	525	528	528	525
Printing and publishing	878	881	883	886	887	888	891	889	891	892	893	893	892
Chemicals and allied products	600	602	602	604	607	608	610	609	614	616	614	615	613
Petroleum and coal products	106	106	106	105	104	105	105	105	106	107	107	107	107
Rubber and misc. plastics products	647	652	655	656	656	659	660	660	660	656	657	659	656
Leather and leather products	119	118	118	118	119	119	119	118	118	118	117	116	115
Service-producing	54,012	54,156	54,344	54,531	54,709	54,901	55,049	55,151	55,257	55,533	55,623	55,659	55,802
Transportation and public utilities	4,635	4,653	4,671	4,691	4,704	4,718	4,718	4,735	4,752	4,763	4,779	4,667	4,751
Wholesale trade	4,890	4,903	4,917	4,931	4,948	4,970	4,990	4,996	5,007	5,016	5,021	5,037	5,035
Retail trade	16,997	17,017	17,066	17,106	17,171	17,215	17,244	17,235	17,280	17,317	17,338	17,384	17,370
Finance, insurance, and real estate	4,858	4,866	4,873	4,879	4,886	4,893	4,900	4,902	4,918	4,933	4,944	4,954	4,963
Services	22,632	22,717	22,817	22,924	23,000	23,105	23,197	23,283	23,300	23,504	23,541	23,617	23,683

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

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

(Percent)

Year	Private nonagricultural payrolls, 349 industries ¹											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977	63.5	60.5	70.3	67.9	68.6	63.8	64.5	61.3	65.9	61.3	67.0	67.9
1978	62.5	64.3	70.2	70.1	64.6	67.6	61.6	62.2	62.0	64.3	70.9	66.6
1979	63.9	81.0	64.8	52.7	61.6	61.3	55.7	53.2	50.7	61.3	54.2	53.9
1980	54.6	53.4	49.7	37.4	40.8	38.0	42.3	59.0	55.7	63.8	59.3	58.6
1981	58.5	52.7	54.0	64.5	57.0	53.3	57.7	51.3	45.8	42.3	40.3	38.0
1982	37.2	47.3	40.1	41.5	49.3	38.1	42.8	39.1	44.7	36.2	40.1	43.6
1983	55.0	47.9	60.2	65.6	68.3	66.5	87.2	68.9	70.1	66.6	87.8	64.6
1984	67.8	70.6	65.2	87.8	63.3	67.2	59.6	61.9	57.2	62.9	59.3	57.7
1985	58.5	52.3	80.2	53.2	58.5	51.4	57.6	60.7	53.8	56.3	58.6	59.7
1986	55.4	53.7	53.2	56.3	55.2	50.7	54.7	56.3	57.9	54.6	58.0	81.7
1987	55.8	59.3	81.0	61.9	58.6	59.7	65.3	60.6	63.0	67.8	64.5	80.7
1988	60.7	63.5	83.0	82.8	61.3	67.2	83.8	58.0	55.4	63.9	68.2	64.6
1989	68.3	60.5	61.0	58.2	55.6	59.7	55.8	^P 56.3	^P 47.4			
Over 3-month span												
1977	70.2	74.5	78.4	79.2	74.8	72.1	69.3	72.1	70.5	73.5	73.6	72.5
1978	71.9	73.8	78.9	76.9	74.9	71.1	69.2	65.8	68.3	73.5	74.8	76.2
1979	69.5	71.8	65.8	66.2	62.0	64.0	58.9	53.3	57.6	58.6	62.2	58.2
1980	56.6	51.4	42.0	38.3	35.5	37.4	42.8	50.9	65.3	66.9	68.5	84.3
1981	59.5	55.6	58.9	64.6	63.3	60.7	57.0	52.4	43.3	40.0	34.0	30.9
1982	31.2	34.8	37.7	41.5	40.3	40.3	34.8	38.3	35.4	35.8	34.0	46.6
1983	48.4	57.0	62.6	71.9	72.1	74.4	72.6	77.2	77.2	74.6	71.6	73.6
1984	74.9	75.5	78.2	72.8	73.6	68.8	67.8	65.5	64.6	62.2	61.9	61.8
1985	58.3	58.3	55.6	59.0	55.4	57.6	56.6	58.7	58.5	56.9	59.5	59.3
1986	57.7	53.0	54.4	55.4	53.3	51.4	52.9	58.7	57.0	59.7	62.0	62.0
1987	60.7	62.0	66.6	65.2	65.8	65.9	67.8	71.1	71.2	72.3	70.9	65.9
1988	64.8	65.6	69.5	70.2	71.1	71.9	71.2	64.2	65.3	70.1	73.4	74.6
1989	71.6	70.1	64.5	61.9	61.6	60.7	^P 62.5	^P 52.1				
Over 6-month span												
1977	79.1	81.8	78.7	78.4	78.1	79.7	76.2	76.2	77.5	76.6	78.1	78.4
1978	77.8	81.4	81.2	79.8	78.7	76.2	73.6	76.9	75.6	76.8	76.1	77.8
1979	74.6	73.9	71.2	66.8	63.2	57.9	62.9	59.5	57.7	58.6	60.9	57.7
1980	48.6	44.7	41.1	37.4	37.1	37.5	44.4	51.9	61.2	70.9	68.9	66.2
1981	66.5	65.2	62.9	64.9	61.3	58.0	50.3	43.0	39.0	32.2	32.5	28.7
1982	28.5	29.7	33.0	38.8	37.2	36.8	34.5	33.8	34.8	38.1	39.1	43.1
1983	55.2	62.2	67.3	71.1	76.4	78.2	79.4	79.5	78.2	77.2	78.1	77.7
1984	78.7	78.9	80.2	77.1	74.4	72.6	70.1	68.6	64.9	63.9	61.6	62.6
1985	58.7	58.7	58.2	57.6	58.6	57.6	57.6	56.2	59.5	59.7	58.3	55.6
1986	55.6	56.6	52.7	52.9	53.4	56.0	55.6	57.0	62.3	61.6	62.9	63.2
1987	67.3	65.8	64.8	66.8	67.6	69.5	71.3	73.5	73.2	71.5	71.8	72.2
1988	69.9	70.2	71.5	73.9	73.9	69.1	70.2	74.6	73.5	73.9	74.5	75.8
1989	75.1	69.5	68.2	66.0	^P 63.5	^P 58.5						
Over 12-month span												
1977	79.2	80.1	81.8	81.9	84.8	84.7	84.5	83.4	83.7	83.0	82.5	82.1
1978	81.9	82.2	81.8	81.9	83.0	82.8	83.4	81.4	81.7	75.8	78.1	75.5
1979	75.9	75.4	74.8	72.1	68.2	66.0	66.0	63.6	59.7	57.6	52.0	48.7
1980	47.0	46.4	46.8	45.3	43.7	43.8	43.6	42.8	44.3	50.6	57.2	62.2
1981	71.2	68.3	68.1	61.3	53.4	48.0	42.3	38.8	36.4	33.1	34.1	32.2
1982	32.4	31.1	29.7	30.4	30.4	31.4	35.0	35.1	38.8	43.4	46.7	51.4
1983	57.0	61.9	66.5	72.8	75.8	77.2	76.8	80.7	80.4	81.4	83.0	81.9
1984	81.7	79.5	78.7	77.1	76.2	74.1	73.1	70.2	69.1	65.2	63.8	61.5
1985	59.5	59.2	59.2	56.9	56.6	58.5	55.9	55.9	56.7	55.6	55.2	53.7
1986	54.4	54.6	53.9	55.6	55.2	56.3	57.2	59.3	60.0	62.0	61.3	63.6
1987	66.6	68.2	68.2	71.8	71.9	72.5	72.2	74.1	75.4	72.5	73.8	76.9
1988	76.2	76.1	74.8	74.6	75.8	74.9	78.1	75.5	75.5	74.8	74.9	74.1
1989	73.2	^P 72.5	^P 69.1									

See footnotes at end of table.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

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

(Percent)

Year	Manufacturing payrolls, 141 industries ¹											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.
Over 1-month span												
1977	66.0	59.9	68.4	70.9	67.0	59.6	60.3	54.3	62.1	57.4	63.1	70.2
1978	63.1	64.5	63.8	65.6	61.0	62.4	56.0	58.5	57.1	62.8	66.3	69.1
1979	60.3	55.0	58.9	50.4	55.7	61.7	50.0	45.0	41.1	57.4	46.8	47.9
1980	48.6	46.1	47.5	28.4	24.8	27.0	28.7	58.2	55.0	63.1	61.7	53.9
1981	53.2	45.0	55.0	63.1	61.3	56.7	56.0	42.2	39.4	30.5	29.4	23.4
1982	27.0	39.4	28.0	31.9	36.2	26.6	34.4	28.4	35.5	26.6	26.2	39.4
1983	53.2	48.6	55.3	67.0	67.4	59.9	68.8	64.9	68.1	70.9	62.4	62.1
1984	61.7	70.6	64.5	63.8	54.6	61.0	56.0	52.8	42.9	52.8	44.7	48.6
1985	46.5	40.4	44.0	37.6	41.5	39.4	47.9	48.6	37.9	44.3	44.0	50.7
1986	48.9	45.0	43.6	43.6	46.5	43.3	38.7	51.1	48.6	45.0	50.7	52.8
1987	44.3	53.9	54.3	55.7	55.3	54.3	62.8	59.9	63.8	59.9	65.6	56.4
1988	58.5	56.0	55.0	59.9	58.5	61.7	59.6	51.1	49.3	62.8	64.9	58.5
1989	62.4	53.5	53.2	49.6	46.8	48.6	49.6	^P 47.2	^P 34.8			
Over 3-month span												
1977	70.6	77.0	78.7	78.7	72.0	66.7	62.4	64.9	62.4	67.7	69.1	76.2
1978	77.0	72.3	72.3	69.9	69.1	62.8	61.3	58.2	62.4	67.0	70.9	73.4
1979	64.9	62.8	59.6	59.9	58.5	59.2	50.0	36.5	44.0	43.6	52.5	42.9
1980	44.7	40.4	28.4	20.2	18.4	19.5	27.7	39.7	64.2	67.7	67.4	61.3
1981	51.8	50.4	56.4	64.5	66.7	64.9	55.0	42.6	28.0	25.5	17.7	17.4
1982	17.0	19.1	21.3	22.0	22.0	22.3	18.1	18.8	20.6	18.4	17.7	33.3
1983	46.1	53.9	61.7	71.3	70.9	73.8	70.6	76.2	77.0	74.1	72.0	67.4
1984	71.6	71.6	75.2	65.6	65.2	58.9	57.1	50.7	47.5	42.9	45.7	44.7
1985	43.6	37.9	32.6	33.0	31.2	37.6	40.8	37.9	38.3	36.5	42.9	46.8
1986	45.0	40.8	38.3	38.7	39.4	37.2	37.2	44.0	46.5	47.5	52.5	49.3
1987	52.1	51.4	59.6	61.3	58.5	62.8	67.0	71.6	68.4	70.6	67.7	64.5
1988	63.1	61.0	62.4	64.9	67.4	67.0	64.5	58.2	62.1	66.7	71.3	70.9
1989	67.4	63.8	55.7	51.8	49.3	48.6	^P 49.6	^P 35.5				
Over 6-month span												
1977	81.6	81.9	79.1	77.3	75.2	74.8	67.7	68.4	70.9	75.2	80.5	77.7
1978	77.7	79.8	78.0	72.3	73.0	68.8	63.5	68.1	69.9	71.3	67.0	69.9
1979	68.4	68.3	62.1	58.2	52.1	43.6	48.2	41.5	39.7	40.1	42.6	42.9
1980	33.0	27.0	23.4	16.7	17.4	19.1	26.2	39.7	52.8	70.6	67.4	65.2
1981	65.2	62.8	62.8	68.1	61.7	55.3	40.1	29.1	22.3	17.0	18.4	12.4
1982	10.3	10.6	13.5	20.6	15.6	15.2	12.4	12.1	14.5	18.1	21.3	27.3
1983	46.8	59.6	64.9	67.0	75.5	76.2	78.7	77.3	76.2	73.8	75.9	74.8
1984	75.2	72.3	72.7	70.2	62.1	58.2	54.6	52.5	48.6	44.7	39.4	41.8
1985	35.5	34.8	29.4	31.9	33.3	33.0	31.9	32.6	38.3	40.1	38.3	37.6
1986	37.6	38.7	35.5	33.3	34.0	38.3	37.9	41.1	45.4	49.6	50.4	51.1
1987	57.4	56.7	55.3	62.4	64.9	67.0	67.4	70.6	71.3	69.5	69.5	68.1
1988	66.3	66.3	67.7	69.5	66.7	64.2	66.0	70.9	68.8	69.9	71.8	74.1
1989	69.5	58.5	55.7	52.8	^P 50.4	^P 40.4						
Over 12-month span												
1977	77.0	77.7	75.9	76.6	81.2	82.6	84.0	81.9	83.3	80.5	78.0	77.3
1978	75.2	77.7	76.2	77.0	77.0	77.0	75.2	70.6	70.9	65.6	69.1	64.9
1979	67.0	64.2	62.4	57.4	51.8	48.6	48.9	47.5	42.2	36.5	29.1	24.8
1980	20.6	22.3	23.8	25.2	23.0	22.3	21.3	22.7	23.8	30.5	45.7	59.6
1981	72.0	69.1	68.1	52.8	40.4	35.1	27.7	21.6	17.7	15.2	13.8	12.4
1982	12.1	12.4	9.2	11.3	8.2	9.9	13.5	14.2	15.2	21.6	25.5	33.7
1983	43.3	50.0	56.0	66.0	71.6	75.5	76.2	78.4	78.0	78.7	80.1	76.2
1984	77.0	72.3	68.1	66.0	62.4	61.0	57.8	54.6	50.4	44.0	40.1	33.7
1985	31.6	30.9	30.1	28.4	27.7	28.4	29.1	29.8	32.6	30.9	32.6	29.8
1986	30.9	30.1	34.8	34.8	36.2	39.0	38.3	39.7	42.9	46.1	48.6	50.0
1987	55.3	58.5	58.5	63.5	66.3	67.4	71.6	72.7	71.6	69.1	68.4	72.3
1988	73.8	70.2	70.9	71.6	72.0	69.9	70.9	69.1	71.6	70.2	69.9	67.0
1989	63.1	^P 63.1	^P 55.3									

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

^P = preliminary.

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

equal balance between industries with increasing and decreasing employment.

Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Alabama	1,546.4	1,571.3	1,576.6	11.1	6.3	11.3	80.2	75.1	75.6
Birmingham	402.9	406.4	407.2	5.4	2.9	4.5	25.8	24.8	24.8
Huntsville	129.4	134.7	135.0	.1	.1	.1	6.0	6.2	6.3
Mobile	165.3	167.9	167.5	.7	.7	.7	10.1	10.4	10.3
Montgomery	128.4	128.9	128.3	.1	.1	.1	8.1	7.8	7.6
Tuscaloosa	60.0	59.1	61.9	2.3	.9	2.6	3.2	3.1	3.1
Alaska	226.7	237.9	238.3	10.3	10.9	11.0	11.0	11.1	11.3
Arizona	1,381.5	1,394.1	1,401.2	12.3	12.1	12.2	95.7	91.5	92.3
Phoenix	915.3	922.9	923.9	.7	.8	.9	65.9	61.6	61.8
Tucson	239.5	240.6	244.3	1.8	2.1	2.1	17.1	16.5	16.7
Arkansas	861.0	881.7	886.0	4.3	4.4	4.4	35.5	35.8	36.4
Fayetteville-Springdale	50.1	51.2	51.8	(¹)	(¹)	(¹)	1.8	1.8	1.8
Fort Smith	78.2	77.0	75.4	1.0	.9	.9	2.6	2.6	2.7
Little Rock-North Little Rock	237.6	241.5	242.7	.4	.4	.4	10.8	10.9	11.0
Pine Bluff	32.8	33.7	33.8	(¹)	(¹)	(¹)	1.7	1.9	2.0
California	12,041.7	12,368.1	12,342.1	42.8	42.6	42.4	629.9	653.7	661.4
Anaheim-Santa Ana	1,132.5	1,158.6	1,156.2	1.3	1.2	1.3	68.3	69.9	71.1
Bakersfield	158.8	159.7	159.4	14.4	14.1	14.1	10.0	9.9	9.8
Fresno	204.9	210.3	210.4	.6	.5	.6	12.3	12.8	12.7
Los Angeles-Long Beach	4,077.2	4,163.7	4,150.6	9.8	10.0	10.0	150.1	156.1	158.0
Modesto	112.0	118.9	121.3	(¹)	(¹)	(¹)	7.5	8.2	8.2
Oakland	836.9	868.9	860.8	3.3	3.7	3.7	51.8	53.5	54.1
Oxnard-Ventura	215.8	223.3	223.4	2.9	2.9	2.9	14.6	15.4	15.5
Riverside-San Bernardino	616.4	631.9	629.6	1.3	1.3	1.3	55.3	56.1	56.8
Sacramento	570.1	592.8	593.4	.7	.7	.7	35.8	37.0	37.7
San Diego	911.7	949.1	951.5	.8	.8	.8	59.5	62.3	62.7
San Francisco	938.2	957.6	954.6	.9	.9	.9	36.7	37.2	37.8
San Jose	823.3	825.3	823.7	.1	.1	.1	34.5	34.3	34.5
Santa Barbara-Santa Maria-Lompoc	143.7	147.1	146.3	1.5	1.5	1.5	6.7	7.0	7.1
Santa Rosa-Petaluma	126.9	128.8	129.3	.7	.7	.7	9.5	9.5	9.8
Stockton	149.7	149.4	150.1	.1	.1	.1	9.0	8.8	8.9
Vallejo-Fairfield-Napa	130.8	137.8	136.9	.6	.7	.7	10.6	11.4	11.5
Colorado	1,423.8	1,439.7	1,440.8	21.0	20.9	21.1	62.6	61.5	61.9
Boulder-Longmont	107.2	107.5	107.6	.3	.3	.3	3.8	3.8	3.9
Denver	802.5	805.6	805.9	13.0	12.1	12.0	33.5	31.3	31.4
Connecticut	1,660.7	1,690.0	1,681.3	1.6	1.4	1.4	84.4	81.5	82.1
Bridgeport-Milford	200.4	201.1	200.1	(¹)	(¹)	(¹)	9.8	9.8	9.8
Hartford	480.0	489.0	484.9	.4	.4	.4	21.8	22.4	22.5
New Britain	64.6	65.3	64.9	(¹)	(¹)	(¹)	5.5	5.0	5.0
New Haven-Meriden	258.7	265.3	264.6	.4	.4	.4	14.7	15.5	15.7
Stamford	127.0	127.8	127.5	.5	.4	.4	5.9	6.1	6.2
Waterbury	87.1	84.4	87.2	(¹)	(¹)	(¹)	5.1	5.4	5.5
Delaware	333.0	340.0	345.2	.1	.1	.1	23.0	21.1	21.0
Wilmington	282.4	285.4	291.2	.1	.2	.2	19.8	18.5	18.5
District of Columbia	683.6	699.2	694.5	.1	.1	.1	13.4	13.4	13.4
Washington MSA	2,179.7	2,264.1	2,247.8	1.2	1.2	1.2	146.0	153.7	154.4
Florida	5,014.5	5,196.9	5,199.8	9.1	9.4	9.5	351.7	348.3	348.9
Daytona Beach	115.5	120.1	119.2	(¹)	(¹)	(¹)	8.7	8.6	8.6
Fort Lauderdale-Hollywood-Pompano Beach	475.0	487.3	486.9	.3	.3	.3	37.5	36.9	36.8
Fort Myers-Cape Coral	113.6	122.3	122.0	(¹)	(¹)	(¹)	12.9	14.1	14.0
Jacksonville	405.9	417.5	417.0	.6	.7	.6	27.1	27.5	27.2
Melbourne-Titusville-Palm Bay	152.8	158.3	158.9	(¹)	(¹)	(¹)	9.2	9.3	9.1
Miami-Hialeah	844.3	867.3	866.5	.9	.9	.9	40.6	38.7	39.1
Orlando	499.9	516.9	516.0	(¹)	(¹)	(¹)	37.8	36.7	36.9
Pensacola	123.9	125.8	125.5	.4	.4	.3	8.2	8.5	8.6
Sarasota	108.2	112.6	112.1	(¹)	(¹)	(¹)	10.0	10.3	10.2
Tallahassee	110.9	114.3	114.1	(¹)	(¹)	(¹)	5.7	5.6	5.6
Tampa-St. Petersburg-Clearwater	818.9	853.6	849.7	.7	.8	.8	57.9	57.0	56.7
West Palm Beach-Boca Raton-DeLray Beach	331.6	350.3	352.8	(¹)	(¹)	(¹)	30.9	30.0	30.2

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Alabama	380.2	383.0	388.0	80.2	79.9	79.9	341.3	345.3	344.5
Birmingham	56.4	58.3	57.9	32.9	32.0	32.2	98.8	101.2	101.5
Huntsville	32.7	33.6	33.9	2.9	3.1	3.1	24.7	25.6	25.5
Mobile	26.3	25.3	25.4	10.2	10.0	10.1	44.0	44.5	44.4
Montgomery	19.1	17.9	18.0	5.1	5.1	5.1	29.2	29.5	29.4
Tuscaloosa	9.9	10.1	10.1	2.0	2.0	2.0	12.6	12.9	13.0
Alaska	22.2	22.5	21.2	18.3	24.9	24.8	44.7	46.0	46.1
Arizona	190.6	189.5	189.7	72.0	73.3	73.4	341.9	356.1	356.1
Phoenix	138.7	139.1	139.5	50.0	51.2	51.2	232.0	239.7	239.3
Tucson	30.4	28.4	28.0	9.0	9.5	9.6	56.3	58.1	58.7
Arkansas	231.2	235.0	235.9	51.1	52.2	52.4	196.9	201.0	202.0
Fayetteville-Springdale	12.9	13.1	13.2	4.7	4.8	4.8	11.7	12.1	12.2
Fort Smith	28.3	26.7	25.5	4.2	4.3	4.2	16.0	15.4	15.4
Little Rock-North Little Rock	35.0	35.3	35.3	16.9	17.6	17.7	57.4	57.7	58.1
Pine Bluff	6.5	6.6	6.7	2.5	2.6	2.6	7.2	7.4	7.4
California	2,172.1	2,175.6	2,184.6	592.6	601.0	559.1	2,880.9	2,950.9	2,956.4
Anaheim-Santa Ana	259.5	257.9	257.8	34.2	34.3	30.0	281.7	293.4	293.2
Bakersfield	10.6	10.4	10.4	7.2	7.6	7.5	38.3	38.4	38.4
Fresno	22.8	22.7	22.8	11.6	11.6	10.8	53.3	53.9	53.8
Los Angeles-Long Beach	898.2	891.4	894.5	204.7	206.4	196.0	950.9	973.8	974.6
Modesto	27.1	30.5	32.9	4.7	5.0	4.8	28.7	29.6	29.9
Oakland	110.2	111.4	111.7	56.7	59.8	51.5	206.5	215.4	215.5
Oxnard-Ventura	30.5	30.1	30.6	11.2	11.9	11.5	53.1	55.4	55.6
Riverside-San Bernardino	81.6	82.6	82.8	30.6	30.5	29.9	155.2	156.9	155.6
Sacramento	44.0	43.6	44.6	25.3	27.0	23.7	138.4	142.2	142.6
San Diego	127.7	132.5	133.4	35.5	36.0	32.3	222.5	231.9	233.8
San Francisco	80.0	80.9	80.6	77.3	78.7	74.2	210.2	214.3	215.0
San Jose	279.1	278.8	279.9	21.7	21.9	19.2	160.6	160.8	160.4
Santa Barbara-Santa Maria-Lompoc	22.0	22.1	22.0	5.0	5.2	5.2	35.0	35.7	35.6
Santa Rosa-Petaluma	20.1	20.0	20.2	5.9	5.9	5.5	33.1	33.6	34.0
Stockton	26.9	25.7	26.8	9.7	9.5	9.1	34.4	34.7	34.6
Vallejo-Fairfield-Napa	13.5	13.5	13.6	4.7	4.8	4.4	32.1	33.6	33.6
Colorado	191.5	192.3	192.7	91.6	91.3	91.5	354.5	359.7	360.4
Boulder-Longmont	30.1	29.4	29.4	2.3	2.3	2.3	23.1	23.3	23.4
Denver	95.5	96.3	96.1	67.3	66.4	66.6	198.2	200.2	201.3
Connecticut	361.9	363.5	358.0	71.4	71.0	70.8	377.8	390.1	390.1
Bridgeport-Milford	56.7	54.5	53.9	8.0	8.2	8.2	46.6	46.7	46.6
Hartford	87.3	89.1	85.9	18.2	18.5	18.5	102.5	104.6	104.3
New Britain	18.1	17.8	17.2	3.0	3.2	3.2	13.4	13.9	13.9
New Haven-Meriden	46.9	47.2	46.6	17.5	18.1	18.0	60.4	61.9	62.0
Stamford	22.9	21.7	21.7	5.6	5.8	5.7	29.4	29.7	29.6
Waterbury	23.4	19.5	22.3	3.0	2.8	2.8	16.8	17.4	17.4
Delaware	69.3	66.3	72.6	13.7	13.6	13.5	74.8	76.7	76.8
Wilmington	58.3	55.2	61.9	14.7	14.9	15.0	60.0	61.3	61.1
District of Columbia	16.4	16.1	16.1	25.3	25.7	23.3	64.0	66.6	65.8
Washington MSA	87.9	86.8	85.8	107.9	113.6	105.8	429.6	443.6	441.7
Florida	538.3	539.1	541.6	260.0	260.7	261.3	1,368.1	1,428.4	1,428.3
Daytona Beach	11.6	11.9	11.9	3.6	3.7	3.7	34.9	36.3	36.1
Fort Lauderdale-Hollywood-Pompano Beach	46.0	45.6	46.2	22.9	23.0	22.9	141.6	146.2	145.9
Fort Myers-Cape Coral	5.8	6.6	6.5	5.2	5.3	5.3	33.2	35.9	35.9
Jacksonville	38.7	39.6	39.9	27.1	27.5	27.4	113.9	116.7	116.8
Melbourne-Titusville-Palm Bay	29.3	30.2	30.2	5.6	6.0	6.0	35.6	37.3	37.5
Miami-Hialeah	92.9	90.6	90.7	69.9	66.2	66.3	232.5	239.9	239.8
Orlando	57.3	56.4	56.4	25.9	26.0	26.1	130.4	134.2	134.5
Pensacola	11.3	11.3	11.3	6.7	6.7	6.5	32.2	32.4	32.3
Sarasota	8.5	8.8	8.7	3.4	3.4	3.4	31.5	33.7	33.5
Tallahassee	5.0	4.9	4.9	2.8	2.8	2.8	24.1	24.9	24.9
Tampa-St. Petersburg-Clearwater	96.0	97.6	97.1	39.3	39.9	40.0	224.7	238.3	237.6
West Palm Beach-Boca Raton-DeLray Beach	35.4	33.4	34.1	12.5	13.0	13.1	87.2	96.8	96.7

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	Finance, insurance, and real estate			Services			Government		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Alabama	70.7	71.8	71.7	287.4	297.1	296.0	295.4	312.8	309.6
Birmingham	28.8	27.9	27.9	94.9	97.1	97.1	59.9	62.2	61.3
Huntsville	3.7	3.9	3.9	30.9	31.9	32.1	28.4	30.3	30.1
Mobile	7.9	7.9	7.9	38.7	39.1	39.2	27.4	30.0	29.5
Montgomery	7.7	7.6	7.6	28.0	29.1	29.1	31.1	31.8	31.4
Tuscaloosa	2.2	2.1	2.1	8.9	8.9	9.3	18.9	19.1	19.7
Alaska	10.9	10.7	10.7	45.5	46.6	47.0	63.8	65.2	66.2
Arizona	92.8	92.2	92.3	358.7	366.8	365.4	217.5	212.6	219.8
Phoenix	74.0	73.5	73.6	242.0	244.5	243.0	112.0	112.5	114.6
Tucson	12.2	11.7	11.7	66.3	69.2	69.3	46.4	45.1	48.2
Arkansas	38.4	38.7	38.7	163.9	173.2	173.1	139.7	141.4	143.1
Fayetteville-Springdale	1.5	1.5	1.5	7.7	8.1	8.2	9.8	9.8	10.1
Fort Smith	2.7	2.7	2.6	16.7	17.4	17.1	6.7	7.0	7.0
Little Rock-North Little Rock	16.1	15.9	16.0	57.0	59.7	59.5	44.0	44.0	44.7
Pine Bluff	1.4	1.4	1.3	6.6	6.9	6.8	6.9	6.9	7.0
California	816.9	830.1	832.6	3,085.4	3,184.3	3,197.1	1,821.1	1,929.9	1,908.5
Anaheim-Santa Ana	93.0	91.8	92.4	286.0	297.0	297.7	108.5	113.1	112.7
Bakersfield	6.4	6.5	6.5	33.4	33.5	33.5	38.5	39.3	39.2
Fresno	12.1	11.8	11.9	50.8	52.6	54.4	41.4	44.4	43.4
Los Angeles-Long Beach	288.3	288.9	289.9	1,097.4	1,126.3	1,131.5	477.8	510.8	496.1
Modesto	4.4	4.3	4.3	22.9	23.5	23.6	16.7	17.8	17.6
Oakland	55.6	56.7	56.6	199.7	210.7	210.8	153.1	157.7	156.9
Oxnard-Ventura	11.2	11.3	11.3	51.6	54.3	54.7	40.7	42.0	41.3
Riverside-San Bernardino	27.9	28.2	28.2	146.2	150.8	150.5	118.3	125.5	124.5
Sacramento	36.1	37.7	37.9	125.9	132.4	133.6	163.9	172.2	172.6
San Diego	64.4	65.7	65.8	247.4	259.4	261.4	153.9	160.5	161.3
San Francisco	111.9	111.2	111.5	292.3	301.2	301.1	128.9	133.2	133.5
San Jose	32.8	33.3	33.4	211.8	213.6	213.8	82.7	82.5	82.4
Santa Barbara-Santa Maria-Lompoc	8.6	8.7	8.7	39.9	40.8	40.3	25.0	26.1	25.9
Santa Rosa-Petaluma	8.7	8.6	8.6	29.1	30.0	30.2	19.8	20.5	20.3
Stockton	8.8	8.6	8.6	30.7	30.8	30.8	30.1	31.2	31.2
Vallejo-Fairfield-Napa	4.6	4.7	4.7	28.8	30.5	30.6	35.9	38.6	37.8
Colorado	95.2	95.1	95.0	359.3	366.7	366.0	248.1	252.2	252.2
Boulder-Longmont	4.0	4.1	4.1	23.7	23.7	23.9	19.9	20.6	20.3
Denver	63.4	63.2	63.1	213.4	216.8	216.4	118.2	119.3	119.0
Connecticut	155.7	156.9	156.6	410.3	422.2	421.7	197.6	203.4	200.6
Bridgeport-Milford	13.0	13.5	13.4	48.6	50.8	50.7	17.7	17.6	17.5
Hartford	76.5	76.9	76.6	113.4	116.1	115.8	59.9	61.0	60.9
New Britain	4.4	4.6	4.7	14.1	14.6	14.7	6.1	6.2	6.2
New Haven-Meriden	16.4	17.2	17.1	71.2	74.3	74.3	31.2	30.7	30.5
Stamford	14.2	14.7	14.8	38.4	39.3	38.9	10.1	10.1	10.2
Waterbury	4.8	4.8	4.8	21.7	22.2	22.2	12.3	12.3	12.2
Delaware	29.9	33.6	33.7	77.0	80.3	80.7	45.2	48.3	46.8
Wilmington	26.5	29.2	29.4	68.2	69.3	69.5	34.8	36.8	35.6
District of Columbia	35.0	35.1	35.1	241.9	254.4	253.9	287.5	287.7	286.9
Washington MSA	129.4	134.3	134.7	707.5	746.8	744.7	570.3	584.3	579.4
Florida	366.2	376.5	378.2	1,401.6	1,469.0	1,473.4	719.5	765.5	758.6
Daytona Beach	6.4	6.3	6.3	32.8	34.3	34.1	17.5	19.0	18.5
Fort Lauderdale-Hollywood-Pompano Beach	39.5	40.1	40.1	130.4	134.7	134.7	56.8	60.5	60.0
Fort Myers-Cape Coral	8.0	8.9	8.9	32.3	34.6	34.3	16.1	16.8	17.0
Jacksonville	39.3	39.9	39.9	104.3	108.9	109.0	54.9	56.7	56.2
Melbourne-Titusville-Palm Bay	5.6	5.7	5.9	45.9	47.5	47.7	21.5	22.2	22.4
Miami-Hialeah	70.9	73.1	73.0	231.2	242.6	243.0	105.4	115.3	113.7
Orlando	33.5	34.3	34.4	163.4	174.3	173.7	51.5	54.8	53.8
Pensacola	5.6	5.6	5.6	32.2	32.7	33.0	27.3	28.2	27.9
Sarasota	8.5	8.6	8.5	33.4	34.4	34.4	12.8	13.4	13.4
Tallahassee	4.9	5.0	5.0	23.7	24.1	24.3	44.4	46.7	46.3
Tampa-St. Petersburg-Clearwater	65.7	66.7	66.4	239.1	252.5	251.8	95.5	100.8	99.3
West Palm Beach-Boca Raton-Deer Beach	28.0	28.6	29.1	98.0	107.1	107.6	39.5	41.3	41.9

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. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a
Georgia	2,888.2	2,933.4	2,935.1	9.0	8.8	8.8	154.1	147.5	146.9
Athens	63.9	65.3	65.2	.2	.1	.1	2.6	2.5	2.4
Atlanta	1,419.9	1,443.8	1,442.3	1.5	1.4	1.4	72.9	69.4	69.2
Augusta	159.0	159.1	159.1	.5	.5	.5	10.4	10.9	10.7
Columbus	95.1	95.7	95.6	.1	.1	.1	5.2	5.2	5.3
Macon-Warner Robins	121.7	123.3	122.9	.1	.1	.1	5.5	5.3	5.2
Savannah	106.0	105.9	105.8	(¹)	(¹)	(¹)	6.6	6.6	6.6
Hawaii	478.0	493.2	493.4	(¹)	(¹)	(¹)	23.8	27.2	27.7
Honolulu	378.4	388.4	387.8	(¹)	(¹)	(¹)	18.9	21.0	21.3
Idaho	351.5	363.6	365.2	3.7	4.0	4.0	17.1	17.2	17.8
Boise City	94.3	98.4	98.4	(²)	(²)	(²)	5.3	5.1	4.9
Illinois	5,095.5	5,155.9	5,161.2	21.3	20.7	20.6	224.5	220.8	223.9
Aurora-Elgin	142.7	147.2	147.0	(¹)	(¹)	(¹)	7.7	8.6	8.6
Bloomington-Normal	57.6	60.7	60.8	(¹)	(¹)	(¹)	1.8	2.6	2.5
Champaign-Urbana-Rantoul	81.9	86.1	84.1	(¹)	(¹)	(¹)	2.8	2.8	2.8
Chicago	3,138.0	3,172.0	3,170.8	2.3	2.3	2.2	139.0	142.7	143.3
Davenport-Rock Island-Moline	156.2	157.4	157.3	(¹)	(¹)	(¹)	5.1	5.1	5.1
Decatur	51.6	52.4	52.3	(¹)	(¹)	(¹)	2.6	2.7	2.7
Joliet	97.9	99.1	99.2	(¹)	(¹)	(¹)	6.0	6.0	6.1
Kankakee	33.2	34.1	34.3	(¹)	(¹)	(¹)	1.3	1.3	1.3
Lake County	199.7	206.3	205.7	(¹)	(¹)	(¹)	10.2	12.5	12.6
Peoria	140.7	143.4	143.4	(¹)	(¹)	(¹)	6.1	6.4	6.3
Rockford	131.5	128.0	131.2	(¹)	(¹)	(¹)	4.6	4.7	4.9
Springfield	105.8	101.2	106.5	(¹)	(¹)	(¹)	3.1	3.1	3.0
Indiana	2,410.7	2,458.9	2,465.6	8.6	6.7	8.4	122.6	128.8	130.6
Anderson	48.3	48.9	49.3	(²)	(²)	(²)	1.6	1.8	1.8
Bloomington	52.0	56.6	56.9	(²)	(²)	(²)	2.7	3.5	3.7
Elkhart-Goshen	103.9	105.3	105.6	(²)	(²)	(²)	3.1	3.3	3.3
Evansville	130.2	132.9	133.1	2.2	1.7	1.7	8.1	8.2	8.1
Fort Wayne	191.6	198.0	198.1	(²)	(²)	(²)	10.2	11.0	11.1
Gary-Hammond	229.3	240.1	238.1	(²)	(²)	(²)	13.9	16.3	18.2
Indianapolis	631.0	648.9	650.8	.9	.9	.9	34.5	37.1	37.7
Lafayette-West Lafayette	61.5	63.1	62.8	(²)	(²)	(²)	3.3	4.1	4.5
Muncie	49.7	50.5	50.6	(²)	(²)	(²)	2.3	2.4	2.5
South Bend-Mishawaka	111.9	117.1	118.8	(²)	(²)	(²)	6.0	7.6	7.8
Terre Haute	52.4	54.2	54.7	.3	.2	.1	2.2	2.7	2.8
Iowa	1,150.4	1,184.1	1,183.8	2.4	2.3	2.3	44.2	43.9	44.6
Cedar Rapids	88.6	89.6	90.0	.1	.1	.1	3.5	3.1	3.2
Des Moines	213.3	221.0	220.9	(¹)	(¹)	(¹)	7.6	7.4	7.4
Dubuque	40.7	41.5	41.8	(¹)	(¹)	(¹)	1.2	1.2	1.2
Sioux City	51.1	53.1	53.4	(¹)	(¹)	(¹)	1.9	1.8	1.9
Waterloo-Cedar Falls	61.2	63.7	63.5	(¹)	(¹)	(¹)	2.3	2.8	2.8
Kansas	1,031.3	1,041.7	1,044.8	10.5	10.0	10.0	46.7	45.3	46.0
Topeka	90.0	89.8	90.1	(¹)	(¹)	(¹)	3.5	3.1	3.5
Wichita	234.4	240.8	241.1	2.1	1.9	1.9	10.7	10.3	10.3
Kentucky	1,369.4	1,391.2	1,398.9	36.4	34.4	34.7	66.6	66.5	66.9
Lexington-Fayette	190.3	195.9	197.7	.3	.2	.2	12.0	12.7	13.2
Louisville	452.8	459.2	458.4	.9	1.2	1.2	22.4	21.8	21.9
Owensboro	33.8	33.7	33.7	.7	.6	.6	2.2	2.1	2.0
Louisiana	1,500.2	1,513.4	1,512.6	56.8	57.3	57.4	87.7	90.1	90.4
Alexandria	45.0	45.0	45.0	.2	.2	.2	2.4	2.1	2.2
Baton Rouge	218.0	219.5	219.4	1.0	1.0	1.0	24.8	24.4	24.3
Houma-Thibodaux	53.8	55.3	54.8	6.0	6.3	6.0	1.8	1.9	1.9
Lafayette	86.3	86.1	86.3	11.6	11.6	11.6	3.3	3.6	3.5
Monroe	54.0	54.8	54.3	.5	.5	.5	2.4	2.3	2.4
New Orleans	519.8	522.1	520.4	15.2	15.2	15.1	23.2	22.9	23.0
Shreveport	129.2	125.9	125.8	3.2	3.1	3.2	6.8	6.1	6.2
Maine	535.0	531.5	535.6	.2	.3	.3	38.4	36.1	36.2
Lewiston-Auburn	40.4	39.8	40.7	(¹)	(¹)	(¹)	2.6	2.5	2.5
Portland	131.1	136.6	135.7	(¹)	(¹)	(¹)	9.8	10.0	9.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Georgia	570.6	565.4	565.6	184.0	184.4	184.7	743.8	761.8	760.2
Athens	15.0	15.2	15.2	1.8	2.0	2.0	14.0	14.4	14.4
Atlanta	180.2	175.9	175.3	121.4	118.7	118.9	402.7	413.9	413.7
Augusta	36.3	35.9	36.0	4.5	4.4	4.4	35.1	35.1	35.0
Columbus	20.4	20.9	20.8	3.8	3.8	3.7	21.4	21.0	21.0
Macon-Warner Robins	19.2	19.0	19.0	5.3	5.3	5.3	28.4	28.3	28.2
Savannah	17.6	17.6	17.7	9.7	10.1	10.1	28.5	26.1	26.1
Hawaii	22.7	22.1	22.2	38.1	40.1	39.9	128.8	131.5	130.6
Honolulu	18.8	16.6	16.4	31.2	33.1	32.8	100.5	102.2	101.5
Idaho	58.7	83.1	82.9	18.8	18.9	19.0	88.4	91.2	92.4
Boise City	13.5	15.0	15.0	5.3	5.3	5.2	23.7	25.1	25.4
Illinois	976.6	978.2	982.5	301.1	304.0	303.9	1,261.4	1,294.6	1,293.9
Aurora-Elgin	38.2	38.8	38.7	3.1	2.9	3.0	38.7	40.1	40.1
Bloomington-Normal	6.1	8.4	8.3	2.7	2.6	2.6	13.1	13.2	13.2
Champaign-Urbana-Rantoul	8.3	8.9	8.8	2.3	2.3	2.4	20.1	19.9	19.6
Chicago	565.6	561.6	563.4	190.5	190.1	190.7	782.1	784.6	785.8
Davenport-Rock Island-Moline	32.4	32.7	32.9	8.1	8.1	8.1	42.8	43.4	43.4
Decatur	13.6	13.8	13.8	5.0	5.1	5.1	11.4	11.6	11.6
Joliet	19.1	19.4	19.5	8.4	8.3	8.3	22.9	22.9	22.9
Kankakee	5.0	5.6	5.6	1.3	1.3	1.3	8.3	8.5	8.5
Lake County	43.9	44.5	44.6	6.9	7.2	7.2	55.4	59.0	59.0
Peoria	33.9	35.6	35.8	7.0	7.1	7.0	33.9	34.1	33.9
Rockford	46.1	42.9	45.6	5.0	5.1	5.1	28.8	28.8	29.0
Springfield	3.8	3.5	3.6	4.9	5.0	5.0	24.4	22.3	24.4
Indiana	636.6	635.6	638.7	126.0	130.1	130.2	581.7	593.1	592.2
Anderson	16.8	16.3	16.5	1.4	1.5	1.5	11.4	11.8	11.8
Bloomington	9.8	10.7	10.8	1.7	1.8	1.8	12.2	12.3	12.4
Elkhart-Goshen	57.2	56.8	56.9	2.8	2.9	2.9	19.1	19.6	19.7
Evansville	31.4	31.4	31.7	6.6	6.7	6.6	34.0	34.9	35.2
Fort Wayne	52.8	53.7	53.4	12.8	13.3	13.4	48.3	49.3	49.4
Gary-Hammond	56.9	58.2	57.3	15.6	16.0	15.9	55.7	58.7	59.0
Indianapolis	106.3	108.1	107.5	39.5	41.4	41.4	163.5	168.5	168.9
Lafayette-West Lafayette	12.4	12.5	12.5	1.9	1.9	2.0	13.3	13.3	13.5
Muncie	11.0	10.9	11.1	2.4	2.4	2.3	12.7	13.1	13.2
South Bend-Mishawaka	23.6	22.5	23.8	5.3	5.4	5.5	30.2	30.9	31.0
Terre Haute	10.3	10.3	10.3	3.0	3.3	3.3	15.0	15.1	15.1
Iowa	228.3	236.3	235.5	55.2	56.4	56.5	300.4	308.8	310.7
Cedar Rapids	23.5	23.9	24.0	5.4	5.6	5.6	21.4	21.7	22.0
Des Moines	25.0	26.5	26.7	12.6	12.7	12.7	56.7	57.9	58.4
Dubuque	12.2	12.6	12.6	1.8	1.8	1.8	9.9	10.1	10.3
Sioux City	9.6	10.5	10.7	3.1	3.4	3.4	13.5	13.7	13.8
Waterloo-Cedar Falls	14.6	15.6	15.4	1.8	1.9	1.9	15.0	15.5	15.5
Kansas	181.8	185.8	186.1	64.6	65.8	65.5	260.2	259.2	259.8
Topeka	9.0	9.4	9.2	6.8	6.7	6.7	21.3	22.1	21.9
Wichita	61.3	64.0	64.0	10.9	11.6	11.7	54.9	54.9	54.8
Kentucky	277.1	283.0	283.4	74.2	75.8	75.6	329.5	335.4	335.5
Lexington-Fayette	31.8	34.6	34.6	8.4	8.3	8.4	42.4	43.5	43.4
Louisville	88.4	87.4	87.2	28.8	29.3	29.1	112.7	111.7	111.4
Owensboro	5.9	6.2	6.3	2.2	2.1	2.1	8.7	8.7	8.6
Louisiana	171.5	172.1	173.1	108.3	109.9	110.1	360.6	363.6	363.2
Alexandria	3.2	3.5	3.5	2.1	2.1	2.1	10.9	10.6	10.6
Baton Rouge	19.2	19.8	19.9	10.4	10.4	10.4	52.7	53.3	53.4
Houma-Thibodaux	4.8	4.6	4.5	6.3	6.2	6.3	13.9	14.0	14.1
Lafayette	7.0	6.9	7.1	6.2	6.1	6.0	23.5	23.4	23.6
Monroe	7.4	7.1	7.1	3.0	2.9	2.9	13.9	13.7	13.8
New Orleans	43.2	43.7	43.7	44.8	44.6	44.6	135.2	135.1	134.7
Shreveport	18.0	17.6	17.8	8.1	8.1	8.0	31.8	31.7	31.4
Maine	111.5	104.4	109.9	21.7	22.0	20.5	133.4	135.6	135.7
Lewiston-Auburn	10.5	9.1	10.0	1.5	1.4	1.3	10.0	10.5	10.7
Portland	17.6	17.0	17.1	5.5	5.6	4.7	39.7	41.8	41.8

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Georgia	162.8	164.3	164.5	577.5	599.7	601.0	486.3	501.5	503.3
Athens	1.9	1.9	2.0	10.3	10.5	10.3	18.2	18.8	18.7
Atlanta	104.1	105.7	106.0	339.1	355.3	354.5	198.0	203.5	203.4
Augusta	5.8	5.5	5.5	32.9	33.3	33.4	33.5	33.5	33.7
Columbus	6.6	6.5	6.5	17.5	17.4	17.4	20.4	20.8	20.9
Macon-Warner Robins	7.6	8.0	8.0	23.2	23.3	23.2	32.4	33.8	33.8
Savannah	4.8	4.6	4.6	24.9	24.6	24.6	15.9	16.2	16.1
Hawaii	35.1	35.9	35.9	131.9	137.9	138.5	97.6	98.5	98.6
Honolulu	29.6	30.0	30.1	100.1	103.4	103.9	81.3	82.1	81.8
Idaho	19.6	19.4	19.5	74.0	77.0	77.3	71.2	72.8	72.3
Boise City	7.9	7.8	7.9	21.8	22.6	22.6	16.8	17.5	17.4
Illinois	372.5	376.5	377.2	1,244.6	1,263.2	1,266.6	693.3	697.9	692.6
Aurora-Elgin	8.5	8.7	8.8	32.5	34.0	34.1	13.9	14.1	13.7
Bloomington-Normal	10.0	10.0	10.0	13.4	13.6	13.6	10.5	10.3	10.6
Champaign-Urbana-Rantoul	3.5	3.5	3.6	16.8	17.4	17.2	28.1	31.3	29.7
Chicago	273.3	275.7	276.4	832.1	849.1	850.1	353.1	365.9	358.9
Davenport-Rock Island-Moline	8.2	8.3	8.3	32.9	33.1	33.0	26.7	26.7	26.5
Decatur	2.2	2.2	2.1	11.6	11.8	11.8	5.2	5.2	5.2
Joliet	3.8	3.8	3.8	22.1	22.1	22.0	15.3	16.6	16.6
Kankakee	1.5	1.6	1.6	9.4	9.5	9.7	6.4	6.3	6.3
Lake County	7.1	7.1	7.1	46.8	46.3	46.4	29.0	29.7	28.8
Peoria	7.3	7.6	7.5	36.9	37.4	37.3	15.6	15.2	15.6
Rockford	5.3	5.4	5.4	30.2	30.2	30.5	11.5	10.9	10.7
Springfield	8.1	8.4	8.4	28.0	26.1	28.3	33.4	32.8	33.8
Indiana	121.9	126.7	126.6	480.1	501.4	503.5	333.2	336.6	335.4
Anderson	1.7	1.7	1.7	9.9	10.2	10.3	5.6	5.6	5.7
Bloomington	2.1	2.3	2.3	8.7	9.5	9.5	14.8	16.6	16.3
Elkhart-Goshen	2.7	3.0	3.0	13.8	14.5	14.5	5.0	5.2	5.3
Evansville	5.3	5.4	5.4	31.0	32.3	32.4	11.8	12.3	11.9
Fort Wayne	12.7	13.4	13.4	39.9	41.9	42.2	15.0	15.5	15.1
Gary-Hammond	8.4	8.6	8.6	50.9	53.1	52.6	28.1	29.2	26.5
Indianapolis	49.5	50.0	50.1	146.0	151.2	152.1	90.9	91.7	92.1
Lafayette-West Lafayette	3.1	3.3	3.3	11.2	12.1	12.2	16.3	15.9	14.8
Muncie	1.7	1.7	1.7	11.1	11.4	11.5	8.6	8.6	8.2
South Bend-Mishawaka	6.2	6.4	6.5	30.5	33.0	33.5	10.2	11.2	10.7
Terre Haute	1.9	2.0	2.0	10.8	11.5	11.9	8.9	9.2	9.1
Iowa	67.1	69.3	69.2	259.2	267.8	267.3	193.6	199.3	197.7
Cedar Rapids	4.9	5.0	5.1	20.8	21.6	21.5	9.0	8.6	8.5
Des Moines	29.5	31.3	31.3	53.8	56.3	56.0	27.9	28.7	28.2
Dubuque	1.4	1.4	1.5	11.2	11.4	11.4	2.9	2.9	2.9
Sioux City	2.6	2.6	2.6	14.0	14.6	14.5	6.4	6.5	6.5
Waterloo-Cedar Falls	2.9	2.9	2.9	14.1	14.2	14.3	10.4	10.7	10.6
Kansas	58.8	59.0	59.1	213.9	221.8	222.4	194.8	194.8	195.9
Topeka	6.6	6.7	6.7	21.0	21.1	20.8	21.7	20.6	21.2
Wichita	11.0	10.8	10.9	56.5	59.3	59.4	27.0	28.0	28.1
Kentucky	59.4	59.3	59.3	294.7	301.8	302.8	231.5	235.0	240.7
Lexington-Fayette	9.2	9.3	9.3	42.4	42.1	42.4	43.8	45.2	46.2
Louisville	27.1	26.8	26.6	113.6	120.1	120.5	58.9	60.9	60.5
Owensboro	1.4	1.4	1.4	8.0	7.9	8.0	4.7	4.7	4.7
Louisiana	82.2	80.2	79.6	326.3	329.4	329.9	306.8	310.8	308.9
Alexandria	2.6	2.6	2.6	11.3	11.5	11.4	12.3	12.4	12.4
Baton Rouge	13.8	13.5	13.5	45.9	46.4	46.3	50.2	50.7	50.6
Houma-Thibodaux	2.2	2.2	2.1	9.1	9.6	9.5	9.7	10.5	10.4
Lafayette	3.7	3.5	3.5	19.1	18.7	18.8	11.9	12.3	12.2
Monroe	4.4	4.2	4.2	11.8	12.3	12.1	10.6	11.8	11.3
New Orleans	33.9	33.2	33.2	137.0	137.6	137.2	87.3	89.8	88.9
Shreveport	6.5	6.2	6.0	31.6	30.4	30.7	23.2	22.7	22.5
Maine	25.5	25.9	25.8	124.0	123.9	124.8	80.3	83.3	82.4
Lewiston-Auburn	2.2	2.2	2.2	10.3	10.6	10.6	3.3	3.5	3.4
Portland	12.4	12.1	12.0	31.9	35.2	35.4	14.2	15.1	14.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Maryland	2,103.7	2,135.6	2,123.0	1.8	1.7	1.7	168.0	166.6	167.2
Baltimore MSA	1,118.2	1,135.3	1,127.1	.3	.3	.3	79.1	79.1	78.8
Baltimore City	470.3	477.6	474.2	(¹)	(¹)	(¹)	20.5	20.3	20.5
Suburban Maryland-D.C.	746.7	763.3	757.0	.6	.5	.5	69.2	69.6	69.7
Massachusetts	3,119.3	3,134.5	3,122.4	1.8	1.4	1.4	153.7	148.1	148.0
Boston	1,737.1	1,748.4	1,733.6	1.0	1.0	1.1	76.8	76.9	76.5
Brockton	74.0	75.2	75.0	(¹)	(¹)	(¹)	4.5	4.8	4.8
Fall River	55.7	55.0	55.9	(¹)	(¹)	(¹)	3.5	3.9	4.0
Fitchburg-Leominster	40.4	41.0	41.2	(¹)	(¹)	(¹)	2.9	2.9	3.0
Lawrence-Haverhill	164.9	165.5	165.3	(¹)	(¹)	(¹)	8.5	8.3	8.3
Lowell	108.0	109.3	109.2	.2	.1	.1	6.3	6.7	6.8
New Bedford	68.2	68.2	68.7	(¹)	(¹)	(¹)	3.8	4.1	4.1
Pittsfield	43.5	44.3	44.3	.1	.1	.1	3.0	3.1	3.1
Springfield	238.8	240.4	239.3	.1	.1	.1	11.1	11.4	11.3
Worcester	205.3	212.7	212.6	.1	.1	.1	11.5	11.5	11.5
Michigan	3,752.7	3,827.1	3,832.7	11.0	11.1	11.0	148.2	146.1	147.7
Ann Arbor	167.3	169.7	167.3	(¹)	(¹)	(¹)	6.9	6.6	6.5
Battle Creek	58.6	58.7	59.6	(¹)	(¹)	(¹)	2.0	2.4	2.3
Benton Harbor	65.8	67.1	67.0	(¹)	(¹)	(¹)	1.8	1.8	1.8
Detroit	1,875.2	1,929.5	1,929.7	.9	.8	.8	70.1	70.3	70.4
Flint	158.1	168.2	168.8	(¹)	(¹)	(¹)	5.7	5.9	5.9
Grand Rapids	330.1	338.0	339.7	(¹)	(¹)	(¹)	18.2	18.4	18.5
Jackson	52.4	54.2	54.9	(¹)	(¹)	(¹)	1.7	1.8	1.8
Kalamazoo	105.5	108.0	108.4	(¹)	(¹)	(¹)	3.8	4.0	4.0
Lansing-East Lansing	202.4	208.3	209.2	(¹)	(¹)	(¹)	7.4	6.8	7.0
Muskegon	58.8	58.4	58.6	(¹)	(¹)	(¹)	2.7	2.7	2.8
Saginaw-Bay City-Midland	155.6	158.8	160.2	(¹)	(¹)	(¹)	8.3	8.0	8.3
Minnesota	2,036.1	2,084.1	2,090.9	7.5	7.8	7.8	91.2	90.8	92.0
Duluth	90.7	92.5	91.9	4.9	5.2	5.2	4.0	3.7	3.9
Minneapolis-St. Paul	1,325.6	1,360.5	1,364.3	(¹)	(¹)	(¹)	59.7	59.7	60.7
Rochester	60.8	62.8	62.9	(²)	(²)	(²)	2.4	2.3	2.4
St. Cloud	69.9	72.4	72.6	(²)	(²)	(²)	3.9	4.4	4.4
Mississippi	888.6	905.8	902.5	6.4	5.7	5.8	37.8	34.4	34.6
Jackson	179.5	183.4	184.1	.9	.9	.8	8.7	8.4	8.5
Missouri	2,230.0	2,262.0	2,265.6	5.4	5.4	5.4	101.9	98.0	98.7
Kansas City	755.6	767.3	769.1	.6	.5	.6	35.7	34.5	35.1
St. Louis	1,139.0	1,156.5	1,154.1	3.3	3.3	3.2	58.6	57.5	57.5
Springfield	111.8	112.8	113.3	.1	.1	.1	4.9	4.8	4.8
Montana	280.8	281.5	282.6	6.8	6.6	6.5	10.1	10.3	10.3
Nebraska	687.8	709.4	710.8	1.8	2.0	2.0	26.8	28.5	28.5
Lincoln	116.7	120.0	120.6	(¹)	(¹)	(¹)	4.6	4.2	4.1
Omaha	309.1	320.2	320.5	.2	.2	.2	12.6	13.0	13.1
Nevada	544.3	577.5	579.5	11.7	13.5	13.6	38.8	44.8	45.5
Las Vegas	307.4	330.7	331.3	.2	.2	.2	23.6	28.7	28.9
Reno	139.7	144.5	145.1	1.4	1.5	1.5	8.3	8.8	9.0
New Hampshire	533.9	531.4	534.9	.8	.7	.7	40.3	35.9	36.1
Manchester	85.8	85.0	85.8	(²)	(²)	(²)	6.7	6.4	6.6
Nashua	95.0	93.4	93.3	.1	.1	.1	5.0	4.5	4.4
Portsmouth-Dover-Rochester	115.2	112.7	113.3	.2	.1	.1	6.8	6.0	5.9
New Jersey	3,685.6	3,721.7	3,704.9	2.4	2.5	2.5	185.2	185.1	186.3
Atlantic City	186.2	193.1	192.6	(¹)	(¹)	(¹)	10.5	12.1	12.2
Bergen-Passaic	671.9	685.8	682.8	.1	.2	.2	34.4	35.5	35.7
Camden	433.5	444.1	443.8	.1	.1	.1	26.2	26.1	26.7
Jersey City	248.8	248.8	250.3	(¹)	(¹)	(¹)	7.3	7.9	8.0
Middlesex-Somerset-Hunterdon	531.1	544.8	544.9	.7	.7	.7	25.5	26.0	26.1
Monmouth-Ocean	340.6	351.9	349.9	(¹)	(¹)	(¹)	22.2	24.2	24.2
Newark	953.7	969.8	960.4	.7	.7	.7	41.3	42.3	42.7
Trenton	197.3	197.8	196.3	(¹)	(¹)	(¹)	5.9	6.4	6.5
Vineland-Millville-Bridgeton	58.0	59.0	59.0	.4	.4	.4	2.6	2.4	2.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Maryland	211.5	206.6	207.3	96.7	96.1	87.1	539.2	546.5	545.7
Baltimore MSA	133.4	130.0	130.4	54.4	55.8	51.1	275.6	278.7	278.9
Baltimore City	45.0	45.5	45.3	27.4	27.8	25.4	96.7	96.2	96.0
Suburban Maryland-D.C.	36.1	36.8	35.8	28.7	28.1	24.2	200.2	204.9	205.0
Massachusetts	583.0	562.1	565.0	132.6	133.7	122.0	740.5	737.6	738.5
Boston	270.8	263.8	261.7	76.3	76.6	69.7	386.9	381.9	381.1
Brockton	10.9	10.4	10.4	5.0	4.9	4.4	22.5	23.2	23.3
Fall River	15.5	13.4	14.6	1.9	1.8	1.6	14.6	14.5	14.7
Fitchburg-Leominster	11.7	11.7	12.0	1.5	1.4	1.3	10.0	10.0	10.1
Lawrence-Haverhill	50.1	46.4	46.9	6.7	7.1	6.4	37.4	38.4	38.7
Lowell	36.4	35.1	35.1	4.8	5.5	5.4	23.3	23.5	23.8
New Bedford	18.8	17.0	17.6	2.9	2.8	2.6	16.5	16.8	16.8
Pittsfield	10.9	10.8	10.9	1.2	1.2	1.1	10.0	10.5	10.6
Springfield	50.3	49.2	49.3	9.5	10.0	9.3	57.6	58.4	58.5
Worcester	44.8	45.5	45.8	9.3	9.4	8.7	49.8	51.9	52.5
Michigan	925.7	928.4	934.4	156.9	155.9	156.8	898.8	923.6	925.0
Ann Arbor	38.1	33.7	33.7	4.3	4.0	4.0	31.4	34.0	33.6
Battle Creek	15.7	15.2	16.0	1.9	1.8	1.8	12.0	12.4	12.5
Benton Harbor	22.3	22.3	22.1	2.5	2.4	2.4	14.5	15.2	15.4
Detroit	445.1	457.3	459.8	88.9	87.7	87.8	448.2	467.7	467.0
Flint	44.5	48.4	48.8	4.1	4.2	4.2	43.9	46.1	46.3
Grand Rapids	99.3	99.8	100.3	11.7	12.2	12.3	86.6	90.1	91.0
Jackson	13.4	13.4	13.8	4.3	4.2	4.2	12.0	12.4	12.6
Kalamazoo	30.1	29.7	29.9	3.2	3.4	3.4	24.3	26.1	26.4
Lansing-East Lansing	31.5	32.1	31.7	5.4	5.5	5.6	44.6	46.9	47.3
Muskegon	17.3	16.4	16.1	2.4	2.3	2.4	13.8	14.1	14.1
Saginaw-Bay City-Midland	43.4	43.0	43.6	6.9	7.0	7.0	37.3	37.3	37.7
Minnesota	405.6	404.5	407.5	101.1	104.8	105.1	517.5	528.0	530.9
Duluth	7.9	8.1	8.1	5.9	6.0	6.0	23.1	23.2	23.5
Minneapolis-St. Paul	268.5	269.1	269.9	70.0	73.0	73.0	333.9	340.4	342.0
Rochester	11.5	12.0	12.0	1.7	1.8	1.8	12.6	13.0	13.0
St. Cloud	13.4	14.1	14.0	3.6	3.9	4.0	21.1	22.9	22.8
Mississippi	239.9	241.5	243.1	44.3	44.9	44.9	192.7	197.9	197.9
Jackson	21.0	21.0	21.1	13.4	13.4	13.4	42.9	44.2	44.2
Missouri	430.4	430.1	435.8	147.1	147.9	148.4	559.8	564.2	563.9
Kansas City	111.2	110.8	111.4	61.4	62.5	62.5	198.9	199.4	199.8
St. Louis	224.2	224.0	227.9	73.6	74.8	74.3	279.0	285.0	283.4
Springfield	22.0	21.2	21.0	7.1	7.3	7.3	31.6	32.3	32.3
Montana	20.5	21.8	22.0	19.5	19.6	19.7	75.1	75.2	75.8
Nebraska	96.3	98.9	99.7	45.4	47.7	47.9	178.7	184.2	184.7
Lincoln	14.7	15.0	15.0	6.3	6.8	6.8	26.7	27.3	27.4
Omaha	35.6	36.0	36.2	24.2	26.0	26.0	78.2	79.8	79.7
Nevada	25.2	26.3	26.4	29.3	31.0	30.4	110.4	118.1	118.6
Las Vegas	9.7	10.3	10.5	16.4	17.5	17.6	63.8	69.3	69.3
Reno	8.6	9.0	9.0	9.5	9.8	9.2	32.1	33.6	34.0
New Hampshire	118.9	112.9	116.8	17.8	17.8	17.7	139.3	141.0	141.3
Manchester	12.1	10.9	11.5	5.3	5.6	5.6	23.4	22.9	23.0
Nashua	36.4	35.3	35.7	2.7	2.8	2.8	22.6	21.5	21.5
Portsmouth-Dover-Rochester	20.8	19.3	20.3	3.2	3.3	3.2	31.1	31.9	32.0
New Jersey	667.6	657.3	659.7	244.7	242.8	233.0	883.9	890.4	887.8
Atlantic City	8.7	8.2	8.5	6.9	6.8	6.1	47.9	51.0	50.6
Bergen-Passaic	158.0	154.0	155.2	27.6	27.8	26.3	191.0	193.3	192.3
Camden	73.0	73.4	73.0	19.4	20.0	19.4	116.6	118.2	118.3
Jersey City	46.2	44.7	46.2	33.5	33.7	33.3	61.7	62.5	62.8
Middlesex-Somerset-Hunterdon	115.6	114.2	116.4	43.0	45.2	43.9	125.9	128.6	128.8
Monmouth-Ocean	29.3	29.6	29.3	17.8	18.7	17.6	94.3	94.8	94.3
Newark	174.7	171.3	168.9	79.7	78.2	75.3	194.4	197.1	196.3
Trenton	31.7	30.7	30.1	6.4	6.5	6.0	31.4	32.6	32.7
Vineland-Millville-Bridgeton	15.4	15.4	15.7	2.2	2.3	2.2	11.9	12.7	12.7

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	Finance, insurance, and real estate			Services			Government		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Maryland	132.4	134.6	134.5	572.3	587.2	587.2	381.8	396.3	392.3
Baltimore MSA	78.4	78.9	79.0	296.9	305.5	305.2	200.1	207.0	203.4
Baltimore City	46.2	46.2	46.0	142.7	147.1	147.0	91.8	94.5	94.0
Suburban Maryland-D.C.	44.3	46.3	46.4	222.1	226.5	225.9	145.5	150.6	149.5
Massachusetts	230.3	239.5	239.7	891.7	919.4	920.3	385.7	392.7	387.5
Boston	157.7	161.9	161.9	571.8	588.1	587.7	195.8	198.2	193.9
Brockton	3.4	3.5	3.5	16.0	16.4	16.5	11.7	12.0	12.1
Fall River	3.3	3.7	3.7	10.8	11.3	11.0	6.1	6.4	6.3
Fitchburg-Leominster	1.7	1.7	1.7	8.4	8.9	8.8	4.2	4.4	4.3
Lawrence-Haverhill	6.8	7.3	7.2	36.0	38.6	38.5	19.4	19.4	19.3
Lowell	4.0	4.2	4.1	21.0	21.8	21.7	12.0	12.4	12.2
New Bedford	2.6	2.6	2.6	14.2	14.9	14.9	9.4	10.0	10.1
Pittsfield	2.1	2.1	2.1	11.7	11.9	11.9	4.5	4.6	4.5
Springfield	16.0	15.9	16.0	58.3	59.4	59.8	35.9	36.0	35.0
Worcester	15.2	16.2	16.4	51.8	55.0	55.0	22.8	23.1	22.6
Michigan	187.0	190.3	190.3	859.2	890.2	890.8	565.7	581.6	576.9
Ann Arbor	4.7	5.0	5.0	36.2	39.1	39.1	45.5	47.1	45.4
Battle Creek	3.5	3.6	3.6	11.8	12.1	12.1	11.6	11.3	11.3
Benton Harbor	2.6	2.5	2.5	13.8	14.4	14.4	8.2	8.3	8.3
Detroit	110.4	110.2	110.4	483.4	501.3	500.5	228.4	234.2	233.0
Flint	5.9	6.1	6.1	32.0	33.4	33.7	21.9	24.2	23.9
Grand Rapids	15.3	16.0	16.0	68.5	70.4	70.8	30.2	30.9	30.5
Jackson	2.1	2.0	2.0	9.8	10.3	10.3	9.0	9.9	9.9
Kalamazoo	4.8	5.0	5.1	24.3	25.3	25.2	14.9	14.5	14.4
Lansing-East Lansing	12.5	13.1	13.1	39.9	42.1	42.4	60.6	61.4	61.7
Muskegon	1.4	1.4	1.4	12.4	12.4	12.6	8.7	9.1	9.2
Saginaw-Bay City-Midland	6.4	6.5	6.5	33.8	36.7	37.1	19.3	20.0	19.9
Minnesota	120.8	123.4	123.3	499.2	518.3	522.3	293.3	306.3	302.1
Duluth	3.1	3.2	3.2	23.1	23.0	23.0	18.7	20.1	19.1
Minneapolis-St. Paul	94.2	96.8	96.7	337.3	350.9	353.6	161.4	170.1	167.8
Rochester	1.5	1.5	1.6	25.9	26.7	26.8	5.2	5.5	5.3
St. Cloud	2.3	2.3	2.3	15.3	15.3	15.4	10.3	9.6	9.8
Mississippi	39.3	39.5	39.5	144.4	155.9	149.1	183.7	186.0	187.4
Jackson	14.7	14.8	15.0	40.1	42.7	43.0	37.8	37.8	38.1
Missouri	137.2	138.2	138.1	529.6	543.2	543.9	318.6	335.0	331.4
Kansas City	58.6	58.5	58.8	179.2	189.2	188.9	110.0	111.9	112.0
St. Louis	76.4	76.5	76.4	294.5	302.1	301.8	129.4	133.3	129.6
Springfield	5.1	5.3	5.3	28.3	28.8	29.4	12.7	13.0	13.1
Montana	13.6	13.6	13.7	69.4	70.1	70.3	65.8	64.3	64.3
Nebraska	48.3	49.4	49.3	159.6	166.2	166.7	130.9	132.5	132.0
Lincoln	8.4	8.4	8.4	26.3	28.3	28.6	29.7	30.0	30.3
Omaha	28.9	30.0	30.1	85.4	90.3	90.8	44.0	44.9	44.4
Nevada	25.0	26.7	26.9	241.1	251.3	251.5	62.8	65.8	66.6
Las Vegas	15.3	16.9	16.9	147.2	155.1	154.9	31.2	32.7	33.0
Reno	7.1	7.2	7.2	57.1	58.7	58.8	15.6	15.9	16.4
New Hampshire	33.2	33.8	33.8	122.2	126.3	125.6	61.4	63.0	62.9
Manchester	8.3	8.6	8.5	21.8	22.3	22.2	8.2	8.3	8.4
Nashua	3.9	3.7	3.6	18.8	19.5	19.4	5.5	6.0	5.8
Portsmouth-Dover-Rochester	7.1	7.4	7.2	22.9	23.1	22.9	23.1	21.6	21.7
New Jersey	240.9	246.9	246.3	920.8	946.0	945.1	540.1	550.7	544.2
Atlantic City	7.8	7.8	7.9	79.3	81.6	81.7	25.0	25.5	25.5
Bergen-Passaic	40.1	42.4	42.3	155.4	162.6	162.9	65.3	70.0	67.9
Camden	25.0	26.5	26.5	105.4	109.5	109.2	67.8	70.3	70.6
Jersey City	13.6	14.0	14.1	43.6	43.5	43.5	42.9	42.5	42.4
Middlesex-Somerset-Hunterdon	38.9	39.3	39.3	113.3	117.9	117.5	68.2	72.9	72.2
Monmouth-Ocean	19.1	19.4	19.6	97.5	102.1	102.1	60.3	63.0	62.7
Newark	79.6	81.5	81.5	251.4	259.5	258.6	131.9	139.2	136.4
Trenton	9.8	10.4	10.3	56.0	56.8	56.8	56.1	54.4	53.9
Vineland-Millville-Bridgeton	3.5	3.5	3.5	10.6	10.8	10.8	11.4	11.5	11.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a
New Mexico	539.9	551.5	553.6	15.4	15.6	15.8	31.7	31.1	31.3
Albuquerque	235.1	239.6	240.2	.1	.1	.1	15.4	14.9	15.1
Las Cruces	39.1	39.5	40.8	.1	.1	.1	2.3	2.4	2.4
Santa Fe	56.4	57.8	57.8	.1	.1	.1	2.8	2.7	2.7
New York	8,204.6	8,271.5	8,239.0	6.4	6.1	6.1	366.6	369.0	375.4
Albany-Schenectady-Troy	416.9	425.5	427.1	.6	.5	.5	22.8	23.1	23.4
Binghamton	122.7	120.9	121.5	(¹)	(¹)	(¹)	6.2	6.2	6.3
Buffalo	446.8	450.8	450.4	.4	.2	.2	19.9	19.1	19.7
Elmira	39.9	41.9	41.6	(¹)	(¹)	(¹)	1.9	2.0	2.1
Nassau-Suffolk	1,137.5	1,155.1	1,142.6	.2	.2	.2	63.8	63.2	63.6
New York PMSA	4,137.3	4,138.2	4,114.5	1.1	.9	.9	157.8	159.3	160.9
New York City	3,598.4	3,599.8	3,581.1	.6	.4	.4	123.3	125.1	126.3
Niagara Falls	83.3	84.4	84.1	(¹)	(¹)	(¹)	3.8	3.8	3.9
Orange County	105.2	107.2	107.2	(¹)	(¹)	(¹)	6.0	6.4	6.6
Poughkeepsie	121.4	121.2	120.4	(²)	(²)	(²)	7.8	8.3	8.4
Rochester	478.2	486.0	488.1	.9	.8	.8	21.0	21.7	22.2
Rockland County	100.4	101.6	101.1	(²)	(²)	(²)	5.1	5.0	5.0
Syracuse	303.9	306.3	305.2	.3	.2	.2	16.3	16.7	16.9
Utica-Rome	125.9	127.3	126.9	.2	.2	.2	4.9	4.8	4.9
Westchester County	419.5	417.8	413.3	.2	.2	.2	27.6	27.4	27.8
North Carolina	2,950.4	2,989.0	3,001.0	4.9	5.0	5.0	170.3	164.9	164.7
Asheville	81.2	82.9	82.9	.1	.1	.1	4.5	4.6	4.7
Charlotte-Gastonia-Rock Hill	590.9	604.9	607.6	.4	.4	.4	37.4	37.7	37.8
Greensboro-Winston-Salem-High Point	474.7	471.7	472.8	.3	.3	.3	25.1	24.2	24.1
Raleigh-Durham	393.4	398.1	400.4	.4	.3	.3	22.8	21.9	21.9
North Dakota	256.1	260.3	259.0	4.4	4.1	4.1	12.4	12.1	12.3
Bismarck	38.1	38.9	39.4	.2	.2	.2	1.8	1.8	1.8
Fargo-Moorhead	70.9	73.9	73.2	(¹)	(¹)	(¹)	4.1	4.2	4.2
Grand Forks	28.9	29.7	29.8	(¹)	(¹)	(¹)	1.7	1.6	1.6
Ohio	4,679.1	4,791.5	4,807.0	19.8	17.0	20.1	202.5	215.0	218.5
Akron	269.0	278.6	279.2	.7	.7	.7	10.8	11.5	11.9
Canton	159.7	165.2	165.3	.9	1.0	1.0	6.9	7.6	7.5
Cincinnati	705.1	733.8	736.8	.5	.5	.5	33.8	36.9	37.4
Cleveland	907.4	933.6	931.1	1.0	1.1	1.1	30.2	31.0	31.3
Columbus	676.7	699.2	701.8	1.0	1.0	1.0	31.2	33.9	34.6
Dayton-Springfield	432.6	447.2	447.9	.4	.5	.5	19.7	21.7	22.2
Toledo	282.9	290.7	291.2	.3	.3	.3	11.6	13.4	13.5
Youngstown-Warren	193.8	194.2	199.0	.8	.7	.7	8.7	9.5	9.8
Oklahoma	1,130.9	1,135.9	1,132.3	45.1	44.4	44.3	37.9	35.7	35.5
Enid	21.3	21.1	21.4	1.2	1.0	1.1	.7	.7	.8
Lawton	32.9	34.1	33.9	.3	.3	.3	1.1	1.2	1.1
Oklahoma City	406.3	403.0	402.5	11.8	10.1	10.2	12.9	11.7	11.5
Tulsa	296.9	302.8	302.9	14.2	14.6	14.7	10.5	9.0	9.0
Oregon	1,162.6	1,192.5	1,202.8	1.4	1.7	1.7	43.1	45.9	46.9
Eugene-Springfield	107.9	111.9	111.8	.2	.2	.2	3.9	4.3	4.5
Portland	580.7	601.7	603.8	.5	.5	.5	22.5	24.5	25.1
Salem	105.8	104.1	108.6	.1	.1	.1	4.0	4.3	4.3
Pennsylvania	5,049.7	5,100.0	5,084.5	29.0	21.9	27.9	253.1	260.2	261.7
Allentown-Bethlehem	279.0	281.8	280.9	.7	.7	.7	14.8	14.8	14.8
Altoona	52.7	52.8	52.7	(²)	(²)	(²)	2.5	2.5	2.4
Beaver County	49.3	48.7	48.6	(²)	(²)	(²)	2.0	1.5	1.5
Erie	114.5	117.4	117.4	.2	.2	.2	4.1	4.1	4.5
Harrisburg-Lebanon-Carlisle	302.1	308.4	307.6	.3	.3	.3	14.0	14.3	14.6
Johnstown	80.1	79.9	81.1	3.2	2.1	3.1	3.1	3.1	3.1
Lancaster	185.5	188.9	188.3	.4	.4	.4	12.1	12.5	12.6
Philadelphia PMSA	2,164.8	2,182.8	2,171.3	1.1	1.0	.9	112.3	112.0	111.3
Philadelphia City	780.6	779.3	768.5	(²)	(²)	(²)	18.2	18.2	18.1
Pittsburgh	874.0	888.7	881.5	4.7	3.4	4.2	42.8	41.9	43.1

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
New Mexico	40.8	41.2	42.5	28.3	27.8	28.0	132.8	135.5	137.0
Albuquerque	20.5	20.6	20.9	12.4	12.7	12.7	61.0	62.1	62.6
Las Cruces	4.1	3.6	3.9	1.3	1.2	1.2	8.7	9.0	9.2
Santa Fe	1.6	1.7	1.7	1.1	1.0	1.0	11.1	11.5	11.7
New York	1,212.4	1,183.3	1,192.8	406.7	410.1	371.8	1,724.2	1,740.7	1,737.3
Albany-Schenectady-Troy	47.3	47.9	47.3	16.2	16.7	15.1	89.0	92.9	93.7
Binghamton	39.1	36.0	36.6	4.4	4.4	4.3	26.2	26.7	26.8
Buffalo	77.3	76.4	76.3	21.4	21.2	19.7	110.1	113.6	114.1
Elmira	8.6	9.4	9.2	1.4	1.4	1.2	10.7	10.7	10.8
Nassau-Suffolk	166.9	161.8	161.3	46.8	47.3	41.4	309.4	312.6	311.9
New York PMSA	450.0	431.3	438.1	242.5	240.5	215.1	752.6	757.2	755.5
New York City	367.1	351.7	358.1	216.9	215.1	193.2	627.8	631.8	630.7
Niagara Falls	23.8	23.3	23.2	3.9	4.0	3.8	19.6	19.7	19.8
Orange County	15.5	15.0	15.0	5.9	5.9	5.8	28.5	29.2	29.2
Poughkeepsie	31.1	30.7	30.8	3.5	3.7	3.3	22.4	22.5	22.5
Rochester	137.9	139.0	140.1	14.2	14.5	14.5	102.3	104.2	104.5
Rockland County	15.5	15.3	15.4	4.7	4.2	3.9	23.7	24.4	24.3
Syracuse	54.0	53.3	53.4	18.5	18.9	17.9	73.4	73.7	73.7
Utica-Rome	25.1	24.8	24.7	4.3	4.3	3.9	27.4	27.5	27.6
Westchester County	65.6	62.7	62.9	20.2	20.6	17.4	96.7	96.4	95.9
North Carolina	867.2	865.9	868.8	148.6	150.5	150.8	684.0	695.1	698.6
Asheville	19.2	19.0	19.2	3.8	4.0	4.0	19.8	20.0	19.9
Charlotte-Gastonia-Rock Hill	155.9	155.1	156.4	48.8	48.2	48.4	145.5	150.5	150.7
Greensboro-Winston-Salem-High Point	153.6	149.8	149.1	26.7	26.5	26.7	110.4	110.7	111.4
Raleigh-Durham	59.4	62.7	63.0	17.7	17.4	17.2	83.8	84.4	84.5
North Dakota	16.2	16.3	16.4	16.8	17.4	17.3	69.2	69.9	70.0
Bismarck	2.2	2.3	2.3	2.7	2.7	2.7	10.1	10.4	10.5
Fargo-Moorhead	5.0	5.2	5.3	4.7	5.0	4.9	21.4	21.9	21.9
Grand Forks	1.3	1.3	1.4	1.6	1.6	1.6	8.5	8.9	8.9
Ohio	1,102.1	1,099.6	1,109.8	213.9	216.0	217.1	1,142.5	1,177.6	1,183.0
Akron	64.8	66.3	66.3	13.1	13.3	13.5	68.2	71.2	71.6
Canton	44.7	45.4	45.5	5.9	6.2	6.2	40.1	41.5	41.9
Cincinnati	145.3	147.5	148.5	38.2	40.8	41.2	181.2	190.1	191.1
Cleveland	200.9	202.7	203.8	41.8	41.7	41.9	221.9	228.0	228.2
Columbus	102.8	103.2	103.2	30.0	30.9	31.3	174.2	180.9	182.1
Dayton-Springfield	104.3	103.8	104.2	17.0	17.6	17.7	100.4	103.0	103.3
Toledo	63.3	61.1	61.7	13.5	13.3	13.6	70.9	74.1	74.4
Youngstown-Warren	50.3	44.7	48.9	7.6	7.8	7.9	50.6	52.4	52.7
Oklahoma	164.2	164.3	164.6	62.2	63.2	63.0	277.1	278.3	276.8
Enid	1.6	1.6	1.6	2.2	2.1	2.1	6.3	6.0	6.1
Lawton	3.5	3.7	3.7	1.3	1.4	1.4	8.6	8.5	8.5
Oklahoma City	49.0	49.8	49.6	19.5	20.1	19.9	101.5	101.2	101.3
Tulsa	49.7	49.7	49.7	23.4	24.6	24.6	70.8	71.8	71.1
Oregon	225.0	225.1	230.0	61.6	63.4	63.7	297.9	309.5	312.7
Eugene-Springfield	21.5	21.0	21.2	4.4	4.5	4.5	27.5	28.3	28.5
Portland	101.4	103.4	103.4	35.9	36.9	37.1	154.1	161.0	162.6
Salem	20.3	17.3	20.5	2.9	2.9	2.9	22.8	23.6	23.6
Pennsylvania	1,060.7	1,055.4	1,058.4	248.2	247.7	233.7	1,156.6	1,158.3	1,154.2
Allentown-Bethlehem	78.2	76.3	76.7	14.3	13.9	13.2	60.8	61.8	61.6
Altoona	11.1	10.9	11.0	4.6	4.5	4.3	13.6	13.9	14.0
Beaver County	9.6	9.4	9.5	4.9	4.8	4.7	11.8	11.5	11.5
Erie	35.3	35.9	35.7	3.7	3.5	3.6	26.0	27.2	27.4
Harrisburg-Lebanon-Carlisle	52.5	51.9	51.5	17.9	18.8	18.0	67.8	68.4	68.5
Johnstown	13.4	13.8	14.0	4.8	4.8	4.6	17.7	18.2	18.3
Lancaster	60.6	59.6	59.5	7.2	7.4	7.2	45.3	46.8	46.8
Philadelphia PMSA	368.4	364.3	364.9	100.9	101.6	93.5	498.1	504.0	503.2
Philadelphia City	93.6	90.5	90.5	44.4	42.4	34.8	150.9	154.5	153.7
Pittsburgh	124.9	127.9	127.4	46.5	47.5	44.1	226.3	228.3	229.0

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
New Mexico	27.4	27.7	27.7	130.5	135.8	136.0	133.0	136.8	135.3
Albuquerque	15.1	15.5	15.5	66.2	67.6	67.8	44.4	46.1	45.5
Las Cruces	1.7	1.8	1.8	6.3	6.6	6.7	14.6	14.8	15.5
Santa Fe	2.0	2.0	2.0	15.7	16.0	15.9	22.0	22.8	22.7
New York	804.8	809.4	809.2	2,287.0	2,342.4	2,344.0	1,396.4	1,410.6	1,402.5
Albany-Schenectady-Troy	24.6	25.7	25.7	107.4	108.1	110.4	109.0	110.5	110.9
Binghamton	4.3	4.5	4.5	23.9	24.0	24.2	18.6	19.0	18.9
Buffalo	28.2	29.4	29.5	115.7	117.7	118.5	73.9	73.3	72.4
Elmira	1.4	1.4	1.4	9.9	10.3	10.3	6.1	6.8	6.7
Nassau-Suffolk	79.6	80.9	81.1	303.1	311.8	310.1	167.6	177.3	173.0
New York PMSA	580.8	575.1	574.1	1,272.0	1,296.3	1,293.0	680.5	677.6	676.8
New York City	545.4	538.9	537.9	1,118.2	1,141.3	1,139.1	599.0	595.7	595.5
Niagara Falls	2.0	2.1	2.1	17.2	18.0	18.1	12.8	13.2	13.1
Orange County	4.7	4.7	4.7	23.0	23.5	23.5	21.4	22.3	22.3
Poughkeepsie	5.0	5.2	5.2	28.9	28.0	28.1	22.7	22.7	22.1
Rochester	23.4	23.6	23.4	117.4	119.8	120.0	61.0	62.6	62.5
Rockland County	5.3	5.5	5.5	26.5	26.8	26.8	19.7	20.4	20.2
Syracuse	20.5	20.5	20.5	71.3	73.0	72.8	49.7	49.9	49.7
Utica-Rome	7.2	7.7	7.7	27.4	28.4	28.3	29.4	29.7	29.7
Westchester County	29.3	30.0	30.0	121.7	123.0	121.8	58.1	57.7	57.2
North Carolina	132.7	134.4	134.6	531.0	555.1	556.3	411.7	418.1	422.2
Asheville	2.7	2.6	2.6	20.5	21.7	21.7	10.6	10.9	10.7
Charlotte-Gastonia-Rock Hill	37.5	38.1	38.2	107.1	112.8	113.4	58.3	62.1	62.3
Greensboro-Winston-Salem-High Point	24.4	24.9	25.1	91.0	91.1	91.3	43.2	44.2	44.8
Raleigh-Durham	23.5	23.3	23.3	99.0	101.8	102.2	86.8	86.3	88.0
North Dakota	12.3	12.2	12.2	64.2	65.9	65.6	60.6	62.4	61.1
Bismarck	1.6	1.5	1.6	11.2	11.5	11.8	8.3	8.5	8.5
Fargo-Moorhead	4.5	4.5	4.5	19.6	20.4	20.3	11.6	12.7	12.1
Grand Forks	1.1	1.1	1.1	6.7	6.9	6.9	8.0	8.3	8.3
Ohio	253.3	258.5	259.1	1,104.7	1,151.2	1,152.4	640.3	656.5	646.9
Akron	10.8	10.9	11.0	63.2	66.7	66.7	37.4	38.0	37.6
Canton	6.5	6.4	6.4	37.2	39.0	39.0	17.7	18.2	17.7
Cincinnati	42.8	43.9	43.9	181.0	190.1	190.7	82.4	84.0	83.6
Cleveland	58.0	59.6	59.7	240.9	252.0	252.0	112.6	117.5	113.1
Columbus	59.2	60.4	60.7	162.9	171.6	172.0	115.5	117.3	117.0
Dayton-Springfield	18.4	18.8	18.8	106.7	111.3	111.9	65.7	70.5	69.4
Toledo	12.5	12.8	12.8	74.6	78.2	78.7	36.2	37.6	36.3
Youngstown-Warren	8.5	8.4	8.5	46.3	49.1	49.0	21.0	21.4	21.5
Oklahoma	59.2	58.6	58.3	252.1	257.5	255.4	233.1	233.9	234.4
Enid	1.0	1.0	1.0	5.2	5.5	5.4	3.1	3.2	3.3
Lawton	1.6	1.5	1.5	6.0	6.3	6.3	10.5	11.2	11.1
Oklahoma City	24.1	23.9	23.8	95.1	94.4	92.3	92.4	91.8	93.9
Tulsa	17.5	17.6	17.6	75.8	79.4	79.9	35.0	36.1	36.3
Oregon	74.8	75.9	76.5	263.9	272.6	273.5	194.9	198.4	197.8
Eugene-Springfield	5.3	5.6	5.6	25.5	27.0	27.1	19.6	21.0	20.2
Portland	49.5	50.2	50.5	143.2	149.3	149.7	73.6	75.9	74.9
Salem	5.9	6.1	6.0	20.4	20.9	21.1	29.4	28.9	30.1
Pennsylvania	295.9	300.5	299.6	1,338.8	1,385.8	1,383.2	667.4	670.2	665.8
Allentown-Bethlehem	12.9	12.9	12.7	69.7	73.3	72.9	27.6	28.1	28.3
Altoona	1.9	2.2	2.1	11.3	11.5	11.5	7.7	7.3	7.4
Beaver County	1.7	1.6	1.6	11.7	12.3	12.4	7.6	7.6	7.4
Erie	5.3	5.6	5.6	27.4	28.1	28.0	12.5	12.8	12.4
Harrisburg-Lebanon-Carlisle	18.9	20.8	20.8	66.0	69.4	69.1	64.7	64.5	64.8
Johnstown	4.8	4.5	4.5	20.0	20.5	20.4	13.1	12.9	12.9
Lancaster	7.2	7.5	7.6	39.1	41.1	40.7	13.6	13.6	13.5
Philadelphia PMSA	164.0	164.5	163.8	624.0	640.2	640.6	296.0	295.2	293.1
Philadelphia City	71.5	71.0	70.7	253.9	258.5	258.1	148.1	144.2	142.6
Pittsburgh	52.8	54.0	53.8	274.3	281.5	280.0	101.7	104.2	99.9

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Pennsylvania-Continued									
Reading	149.7	152.8	153.1	(²)	(²)	(²)	7.9	8.1	8.3
Scranton-Wilkes-Barre	301.3	303.6	303.5	0.7	0.6	0.6	15.9	16.3	16.3
Williamsport	50.8	51.7	51.5	(²)	(²)	(²)	2.4	2.6	2.6
York	174.8	177.9	177.3	.5	.5	.5	9.9	10.5	10.2
Rhode Island	456.3	456.9	455.9	.2	.2	.2	22.3	23.4	23.4
Pawtucket-Woonsocket-Attleboro	131.9	132.2	131.9	.2	.2	.2	6.4	7.2	7.2
Providence	321.0	326.0	325.3	.1	.1	.1	16.8	17.5	17.4
South Carolina	1,442.6	1,498.2	1,505.5	1.8	1.9	1.9	95.1	96.3	98.0
Charleston	190.2	197.9	198.2	(¹)	(¹)	(¹)	13.4	13.8	14.0
Columbia	224.8	232.4	233.6	(¹)	(¹)	(¹)	14.6	14.3	14.7
Greenville-Spartanburg	312.7	320.8	323.8	(¹)	(¹)	(¹)	22.8	23.7	23.6
South Dakota	266.4	268.1	269.0	2.8	2.8	2.8	11.6	11.4	11.7
Rapid City	36.0	37.3	37.0	.3	.3	.3	2.1	2.1	2.1
Sioux Falls	68.3	69.1	69.3	(¹)	(¹)	(¹)	3.1	3.2	3.2
Tennessee	2,064.7	2,069.7	2,082.2	6.9	6.3	6.5	98.5	93.7	95.1
Chattanooga	195.4	199.1	200.2	.7	.7	.7	8.2	8.8	8.9
Johnson City-Kingsport-Bristol	162.6	164.5	165.0	.4	.5	.5	7.3	7.6	7.7
Knoxville	262.8	259.6	259.0	1.7	1.7	1.7	13.6	11.5	11.8
Memphis	436.1	439.9	442.9	.1	.1	.1	19.2	18.9	18.9
Nashville	478.0	477.6	476.8	.8	.7	.8	28.0	28.3	28.4
Texas	6,643.1	6,776.2	6,771.1	186.1	177.1	177.4	336.1	316.5	317.5
Abilene	48.7	48.4	48.7	2.1	1.9	1.9	2.2	1.9	1.9
Amarillo	76.8	76.3	76.1	1.4	1.3	1.3	3.9	4.0	4.0
Austin	343.7	346.0	345.1	.7	.7	.7	14.6	13.1	13.1
Beaumont-Port Arthur	131.8	134.4	134.9	1.7	1.9	2.0	8.8	9.2	9.5
Brazoria	58.6	61.0	61.0	2.0	2.0	2.0	6.8	7.4	7.6
Brownsville-Harlingen	68.3	69.5	69.8	.1	.1	.1	2.1	2.2	2.1
Bryan-College Station	47.5	48.8	48.6	.6	.6	.6	1.9	1.7	1.8
Corpus Christi	123.6	126.2	126.4	4.2	4.2	4.1	8.4	9.6	9.6
Dallas	1,342.7	1,348.0	1,346.9	18.9	17.3	17.3	55.2	52.1	51.5
El Paso	192.1	196.4	198.5	.1	.1	.1	9.4	8.6	8.6
Ft. Worth-Arlington	525.9	537.8	538.0	3.7	3.9	3.8	22.8	22.9	23.3
Galveston-Texas City	72.8	72.9	72.6	.6	.5	.5	4.3	4.9	4.8
Houston	1,435.9	1,477.4	1,474.1	66.6	66.1	66.1	90.7	91.4	91.4
Killeen-Temple	71.2	72.5	72.3	.1	.1	.1	3.6	3.4	3.5
Laredo	38.0	39.8	40.0	1.9	1.8	1.8	1.2	1.2	1.3
Longview-Marshall	66.2	66.5	66.5	3.7	3.6	3.6	3.5	3.1	3.1
Lubbock	93.0	94.5	94.7	.4	.4	.4	3.5	3.3	3.2
McAllen-Edinburg-Mission	90.8	93.6	93.5	1.0	.9	.9	4.2	4.2	4.2
Midland	44.2	43.2	43.4	10.1	9.4	9.4	1.4	1.3	1.5
Odessa	42.7	41.6	41.6	5.8	5.6	5.6	2.1	1.7	1.8
San Angelo	35.8	35.9	35.4	.5	.5	.5	1.5	1.2	1.2
San Antonio	494.8	503.7	500.8	2.3	2.1	2.1	24.7	22.4	22.4
Sherman-Denison	37.7	36.7	36.7	.1	.1	.1	1.8	1.8	1.8
Texarkana	43.9	45.5	45.6	.1	.1	.1	1.6	1.6	1.6
Tyler	59.9	60.5	60.2	2.0	1.9	1.9	2.1	2.1	2.1
Victoria	27.1	27.7	27.7	1.7	1.2	1.2	1.6	1.5	1.6
Waco	77.3	78.6	78.1	.1	.1	.1	3.8	3.4	3.3
Wichita Falls	50.5	50.0	50.1	1.9	1.8	1.8	2.2	2.1	2.0
Utah	660.6	682.2	688.6	8.0	7.9	8.1	27.5	27.7	28.3
Provo-Orem	81.0	84.4	86.5	(¹)	(¹)	(¹)	3.1	3.0	3.1
Salt Lake City-Ogden	456.0	469.9	471.2	2.5	2.8	2.7	19.4	19.1	19.3
Vermont	251.2	254.4	253.7	.6	.7	.6	18.7	20.1	20.8
Barre-Montpelier	34.3	35.4	35.6	.2	.2	.2	2.1	1.9	1.9
Burlington	76.9	77.1	76.2	(¹)	(¹)	(¹)	4.4	4.8	4.8

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Pennsylvania—Continued									
Reading	47.8	48.3	48.8	6.5	6.6	6.3	33.6	34.3	34.5
Scranton-Wilkes-Barre	71.9	70.6	71.7	16.4	16.3	15.5	67.6	68.8	69.0
Williamsport	16.5	16.0	15.8	1.8	1.9	1.8	11.5	11.7	11.9
York	60.8	61.2	60.9	7.6	7.4	7.5	42.6	42.9	42.7
Rhode Island									
.....	113.2	109.6	111.1	15.5	15.7	14.3	105.4	105.4	105.6
Pawtucket-Woonsocket-Attleboro	50.9	48.4	49.1	3.3	3.5	3.3	33.1	33.1	32.8
Providence	71.2	68.9	70.0	12.2	12.4	11.4	70.8	71.9	71.9
South Carolina									
.....	380.0	381.6	382.3	63.0	66.4	66.4	334.0	353.2	354.7
Charleston	21.2	21.8	21.9	11.3	11.5	11.5	46.1	46.2	46.2
Columbia	29.4	30.1	30.2	10.4	10.5	10.5	49.8	50.8	51.3
Greenville-Spartanburg	102.2	101.3	102.1	12.3	12.8	12.8	74.4	76.6	77.0
South Dakota									
.....	31.3	30.3	30.1	13.7	13.7	13.8	71.0	71.8	71.9
Rapid City	3.2	3.3	3.3	2.0	2.0	2.1	11.2	11.8	11.6
Sioux Falls	8.6	8.2	8.2	5.3	5.4	5.5	18.5	19.0	18.9
Tennessee									
.....	509.4	508.5	512.3	110.9	110.8	110.9	491.3	493.2	493.8
Chattanooga	47.3	47.7	48.0	9.3	9.2	9.1	45.4	45.2	45.4
Johnson City-Kingsport-Bristol	53.4	55.2	55.2	6.3	6.3	6.3	37.2	36.6	36.6
Knoxville	54.3	52.0	51.9	10.4	10.2	10.2	66.3	66.9	66.6
Memphis	56.1	55.2	55.7	41.1	41.8	41.8	117.7	120.5	120.7
Nashville	89.9	89.5	89.3	24.1	24.0	23.9	118.4	116.2	115.7
Texas									
.....	963.7	972.2	970.9	395.0	402.1	403.9	1,663.6	1,669.3	1,669.0
Abilene	4.9	5.0	5.1	2.4	2.4	2.5	13.6	13.6	13.7
Amarillo	9.5	8.7	8.6	5.5	5.7	5.8	22.9	22.3	22.4
Austin	41.6	41.7	41.6	10.4	10.5	10.5	76.5	76.1	76.4
Beaumont-Port Arthur	25.7	25.7	25.6	9.6	9.5	9.6	32.3	32.9	33.1
Brazoria	15.6	16.3	16.2	2.7	2.9	2.7	11.2	11.3	11.4
Brownsville-Harlingen	10.2	10.0	10.0	3.3	3.0	3.1	18.1	18.3	18.3
Bryan-College Station	3.3	3.6	3.6	1.5	1.5	1.5	10.8	10.4	10.6
Corpus Christi	11.6	11.4	11.4	6.7	6.4	6.6	31.4	32.2	32.3
Dallas	223.4	222.4	221.1	92.2	95.4	95.6	347.4	349.3	350.2
El Paso	41.4	41.5	42.6	10.9	11.2	11.1	45.9	48.6	48.9
Ft. Worth-Arlington	120.9	121.2	121.5	30.3	32.0	31.7	136.7	139.0	139.7
Galveston-Texas City	8.1	8.5	8.5	4.7	4.7	4.7	14.8	14.6	14.7
Houston	154.9	159.3	159.0	101.2	101.2	101.7	357.7	367.8	369.2
Killeen-Temple	8.4	8.7	8.6	2.8	2.7	2.7	16.5	16.8	16.8
Laredo	1.9	1.8	1.8	4.9	5.4	5.4	11.2	12.6	12.7
Longview-Marshall	16.1	15.7	15.8	3.1	3.1	3.1	17.2	17.4	17.4
Lubbock	7.3	7.6	7.8	4.8	4.6	4.6	28.0	28.1	28.2
McAllen-Edinburg-Mission	12.1	14.0	13.6	2.9	3.3	3.1	28.8	27.9	28.0
Midland	2.6	2.5	2.5	2.3	2.2	2.2	10.0	9.9	10.0
Odessa	4.1	4.0	4.0	2.1	2.1	2.1	12.8	12.7	12.6
San Angelo	5.4	5.5	5.4	3.1	2.8	2.7	8.9	9.1	8.9
San Antonio	47.2	48.2	47.4	19.2	19.2	18.9	128.8	127.5	127.8
Sherman-Denison	11.5	11.2	11.2	2.0	1.7	1.7	8.0	7.9	7.9
Texarkana	7.3	7.7	7.7	1.9	2.0	2.0	10.4	10.7	10.9
Tyler	10.5	10.5	10.4	2.5	2.6	2.6	16.1	16.1	16.1
Victoria	3.1	3.1	3.0	1.4	1.4	1.4	7.4	7.7	7.8
Waco	14.6	15.4	15.4	3.3	3.4	3.4	18.8	18.9	18.8
Wichita Falls	8.2	8.1	8.1	2.6	2.5	2.5	11.8	12.1	12.1
Utah									
.....	100.6	103.0	103.6	40.4	40.7	40.9	159.0	165.6	167.4
Provo-Orem	14.0	14.4	14.7	2.7	2.9	2.9	17.2	18.7	19.1
Salt Lake City-Ogden	64.8	66.8	67.4	31.0	31.4	31.3	114.2	118.6	119.3
Vermont									
.....	50.3	48.8	49.2	10.3	10.6	9.6	60.3	60.5	60.5
Barre-Montpelier	4.7	4.9	5.1	.9	.9	.9	7.4	7.7	7.8
Burlington	17.2	16.3	16.2	3.2	3.5	2.9	19.0	19.1	19.0

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Pennsylvania-Continued									
Reading	8.4	8.7	8.7	30.8	31.7	31.6	14.7	15.1	14.9
Scranton-Wilkes-Barre	13.6	14.0	14.0	75.4	76.9	76.5	39.8	40.1	39.9
Williamsport	2.5	2.5	2.5	10.2	10.7	10.7	5.9	6.3	6.2
York	4.9	5.1	5.1	31.7	33.3	33.3	16.8	17.0	17.1
Rhode Island									
Pawtucket-Woonsocket-Attleboro	26.7	26.8	26.8	116.1	117.7	117.3	56.9	58.1	57.2
Providence	3.9	4.1	4.0	24.2	25.7	25.4	9.9	10.0	9.9
Providence	22.5	23.8	23.8	85.6	87.8	88.0	41.8	43.6	42.7
South Carolina									
Charleston	66.2	69.1	69.3	260.5	277.5	277.7	242.0	252.2	255.2
Columbia	8.8	8.9	9.0	40.2	43.4	43.2	49.1	52.2	52.3
Greenville-Spartanburg	17.9	18.5	18.4	45.1	45.8	46.1	57.3	62.0	62.0
Greenville-Spartanburg	12.0	12.1	12.1	55.2	57.4	57.9	33.5	36.6	38.0
South Dakota									
Rapid City	14.9	15.3	15.5	66.6	66.5	67.0	54.5	56.2	56.2
Sioux Falls	1.6	1.6	1.6	9.4	9.5	9.4	6.3	6.7	6.7
Sioux Falls	6.7	6.8	7.0	19.6	19.7	19.9	6.4	6.7	6.6
Tennessee									
Chattanooga	105.0	107.0	106.6	437.2	445.0	446.0	305.6	305.0	311.0
Johnson City-Kingsport-Bristol	12.6	13.0	13.0	38.1	40.2	40.8	33.8	34.3	34.3
Knoxville	5.4	5.6	5.5	29.9	30.3	30.5	22.7	22.4	22.7
Memphis	9.7	10.0	9.8	58.2	59.8	59.6	48.5	47.7	47.4
Nashville	25.1	26.1	26.0	107.4	110.5	110.9	69.4	67.1	68.8
Nashville	34.4	34.0	33.9	120.4	120.1	119.9	62.0	64.8	64.9
Texas									
Abilene	442.6	441.8	442.0	1,534.1	1,609.5	1,607.5	1,121.9	1,187.7	1,182.9
Amarillo	2.4	2.5	2.5	12.7	12.6	12.7	8.4	8.5	8.4
Austin	4.3	4.1	4.0	17.0	17.5	17.5	12.3	12.7	12.5
Beaumont-Port Arthur	24.4	23.9	23.8	84.2	86.6	86.4	91.3	93.4	92.6
Brazoria	5.3	5.1	5.1	29.6	30.8	30.8	18.8	19.3	19.2
Brownsville-Harlingen	2.0	1.9	1.9	8.1	8.7	8.7	10.2	10.5	10.5
Bryan-College Station	3.7	3.6	3.6	15.9	16.4	16.4	15.0	16.0	16.2
Corpus Christi	1.6	1.6	1.6	8.7	9.4	9.3	19.1	20.0	19.6
Dallas	6.8	7.0	7.0	28.3	28.6	28.7	26.2	26.8	26.7
El Paso	130.0	127.1	126.7	331.1	340.2	340.7	144.5	144.2	143.8
Ft. Worth-Arlington	8.8	8.5	8.5	38.9	38.9	39.5	36.7	39.0	39.3
Galveston-Texas City	26.8	27.1	27.2	120.4	125.7	125.1	64.3	66.0	65.7
Houston	4.3	4.2	4.1	14.6	15.0	14.8	21.4	20.5	20.5
Killeen-Temple	102.6	99.6	99.9	383.8	404.7	401.3	178.4	187.3	185.5
Laredo	2.9	3.2	3.2	16.0	16.5	16.4	20.9	21.1	21.0
Longview-Marshall	1.7	1.5	1.6	6.3	6.3	6.3	8.9	9.2	9.1
Lubbock	2.6	2.7	2.7	12.1	12.7	12.6	7.9	8.2	8.2
McAllen-Edinburg-Mission	5.4	5.6	5.6	23.0	23.5	23.5	20.6	21.4	21.4
Midland	3.7	3.8	4.0	15.3	15.9	16.1	22.8	23.6	23.6
Odessa	2.3	2.3	2.2	9.6	9.6	9.6	5.9	6.0	6.0
San Angelo	1.7	1.6	1.6	7.2	7.1	7.1	6.9	6.8	6.8
San Antonio	1.8	1.8	1.8	8.2	8.2	8.2	6.4	6.8	6.7
Sherman-Denison	40.0	40.4	40.4	125.1	130.8	130.0	107.5	113.1	111.8
Texas	1.8	1.7	1.7	8.3	8.2	8.2	4.2	4.1	4.1
Tyler	1.9	1.9	1.9	9.5	9.7	9.6	11.2	11.8	11.8
Victoria	3.4	3.4	3.3	14.6	14.7	14.7	8.7	9.2	9.1
Waco	1.6	1.6	1.5	5.7	6.0	6.1	4.6	5.2	5.1
Wichita Falls	4.9	4.8	4.8	20.5	20.9	20.7	11.3	11.9	11.6
Wichita Falls	2.4	2.3	2.4	11.9	11.8	11.9	9.5	9.3	9.3
Utah									
Provo-Orem	33.5	33.4	33.3	157.8	167.2	169.5	133.8	136.7	137.5
Salt Lake City-Ogden	2.3	2.2	2.4	28.5	30.4	30.9	13.2	12.8	13.4
Salt Lake City-Ogden	27.4	27.0	27.0	108.0	113.5	114.5	88.7	90.9	89.7
Vermont									
Barre-Montpelier	12.8	13.6	13.6	62.2	63.0	62.6	36.0	37.1	36.8
Burlington	3.0	3.1	3.1	7.9	8.6	8.7	8.1	8.1	7.9
Burlington	3.7	3.7	3.7	19.6	19.3	19.3	9.8	10.3	10.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Virginia	2,793.0	2,902.2	2,895.3	16.1	14.7	14.8	207.8	218.1	218.4
Bristol	31.3	31.9	31.6	.1	.1	.1	1.0	1.0	1.0
Charlottesville	64.5	65.4	65.0	.1	.1	.1	4.1	4.1	4.1
Danville	41.2	42.4	42.5	.1	.1	.1	2.3	2.8	2.8
Lynchburg	71.4	72.8	73.3	.1	.1	.1	3.9	3.6	3.7
Norfolk-Virginia Beach-Newport News	572.0	577.9	574.9	.1	.2	.2	39.7	40.5	40.7
Northern Virginia	750.1	801.1	796.3	.5	.6	.6	64.1	70.6	71.3
Richmond-Petersburg	452.5	466.5	463.4	1.0	1.2	1.2	31.2	33.3	33.1
Roanoke	122.5	123.4	123.4	.1	.1	.1	8.3	8.6	8.4
Washington	1,945.0	2,029.7	2,046.0	3.4	3.5	3.6	104.9	112.6	115.6
Seattle	993.6	1,044.5	1,054.8	.7	.6	.6	55.1	57.9	58.2
West Virginia	618.0	606.5	613.6	34.8	17.1	34.0	27.7	28.4	28.8
Charleston	108.7	109.4	107.9	2.0	1.0	2.0	4.6	4.2	4.1
Huntington-Ashland	104.6	106.9	106.2	1.4	1.5	1.5	3.9	4.1	4.1
Parkersburg-Marietta	60.5	61.5	61.4	.7	.7	.6	3.1	3.0	3.1
Wheeling	60.2	60.2	60.0	2.7	2.6	2.9	2.2	2.0	2.0
Wisconsin	2,164.2	2,203.8	2,214.2	2.5	2.9	2.9	77.0	81.8	82.6
Appleton-Oshkosh-Neenah	152.6	153.6	154.6	(¹)	(¹)	(¹)	7.4	8.0	8.0
Eau Claire	55.7	57.4	57.4	(¹)	(¹)	(¹)	1.7	1.5	1.5
Green Bay	96.2	99.4	100.8	(¹)	(¹)	(¹)	3.2	3.8	4.1
Janesville-Beloit	56.3	56.5	56.2	(¹)	(¹)	(¹)	1.7	1.4	1.3
Kenosha	39.7	39.0	39.0	(¹)	(¹)	(¹)	1.5	1.6	1.6
La Crosse	53.6	56.9	57.2	(¹)	(¹)	(¹)	2.1	2.5	2.6
Madison	202.5	208.0	208.8	(¹)	(¹)	(¹)	6.8	6.4	6.2
Milwaukee	719.2	729.9	733.3	(¹)	(¹)	(¹)	23.6	24.6	24.4
Racine	73.4	75.3	76.4	(¹)	(¹)	(¹)	2.1	2.4	2.5
Wausau	48.5	50.5	50.7	(¹)	(¹)	(¹)	2.0	2.3	2.4
Wyoming	187.1	190.2	189.2	19.2	18.8	18.9	11.9	11.4	11.8
Puerto Rico	806.2	848.0	810.8	.8	.8	.8	43.0	41.8	41.5
Caguas	51.1	53.3	51.1	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	57.0	61.4	59.0	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	52.3	58.5	54.9	.1	.1	.1	4.1	3.7	3.6
San Juan	499.4	515.2	502.1	.4	.4	.4	31.6	30.4	30.5
Virgin Islands	41.1	42.2	42.0	(¹)	(¹)	(¹)	2.4	2.0	2.0

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Virginia	428.2	424.7	425.7	147.4	149.6	142.8	639.4	666.6	667.6
Bristol	10.5	10.6	10.2	1.2	1.1	1.1	8.2	8.6	8.7
Charlottesville	8.6	8.7	8.7	2.3	2.3	2.3	12.9	13.7	13.7
Danville	16.7	16.5	16.6	1.0	.9	.9	9.3	10.1	10.0
Lynchburg	22.7	22.6	22.9	2.6	2.5	2.3	16.2	16.9	17.1
Norfolk-Virginia Beach-Newport News	68.4	67.2	67.5	26.8	26.7	24.1	142.6	143.9	142.6
Northern Virginia	35.4	34.1	33.9	53.8	59.5	58.2	165.4	171.9	171.0
Richmond-Petersburg	62.6	61.2	60.9	23.9	23.5	21.0	109.4	113.9	113.8
Roanoke	19.5	19.1	19.6	8.5	8.5	8.0	33.8	33.9	33.9
Washington	343.2	363.0	367.4	103.8	108.1	108.5	484.2	499.0	510.8
Seattle	200.2	217.4	219.2	61.8	65.9	66.2	242.4	247.5	255.5
West Virginia	88.3	86.9	86.7	37.8	37.2	34.8	145.0	148.4	149.4
Charleston	10.9	11.2	11.1	8.6	8.9	7.7	26.6	29.2	29.2
Huntington-Ashland	19.8	20.1	20.1	8.1	8.0	7.6	26.9	27.2	27.4
Parkersburg-Marietta	14.4	14.3	14.5	2.2	2.3	2.1	14.6	14.6	14.6
Wheeling	7.3	7.5	7.6	3.4	3.4	3.2	16.7	16.4	16.4
Wisconsin	565.7	561.6	566.2	96.0	98.5	98.7	518.1	526.6	531.0
Appleton-Oshkosh-Neenah	55.0	53.9	53.6	5.2	5.6	5.6	32.3	32.6	33.7
Eau Claire	11.5	12.0	12.3	3.0	3.1	3.1	15.3	15.0	15.4
Green Bay	26.1	27.3	27.3	7.1	7.4	7.4	24.6	24.6	25.1
Janesville-Beloit	18.3	16.9	17.1	1.8	2.1	1.9	14.3	14.6	14.5
Kenosha	11.8	9.9	9.6	1.5	1.5	1.5	10.0	10.3	10.4
La Crosse	11.4	11.1	11.0	2.3	2.3	2.3	15.3	16.6	16.8
Madison	25.0	25.5	25.7	7.1	7.1	7.1	45.5	46.6	47.0
Milwaukee	174.8	174.7	175.1	33.9	34.6	34.8	167.1	169.9	171.5
Racine	25.7	25.3	26.2	2.3	2.3	2.3	16.7	17.1	17.2
Wausau	14.2	14.6	14.5	2.6	2.8	2.8	11.9	12.5	12.6
Wyoming	9.1	9.5	9.4	13.5	13.9	14.2	43.3	43.7	43.2
Puerto Rico	152.9	158.2	158.7	18.1	16.6	16.7	144.2	146.0	147.1
Caguas	16.2	16.3	16.5	(¹)	(¹)	(¹)	10.8	10.8	11.0
Mayaguez	20.1	21.1	20.9	(¹)	(¹)	(¹)	7.7	7.7	7.8
Ponce	9.2	9.7	9.7	(¹)	(¹)	(¹)	8.5	8.9	9.1
San Juan	64.4	66.9	66.9	14.3	13.5	13.5	99.4	99.8	100.4
Virgin Islands	2.4	2.5	2.4	2.5	2.6	2.6	9.1	9.3	9.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Virginia	153.4	159.1	159.2	682.3	727.1	726.3	518.4	542.3	540.5
Bristol	1.2	1.3	1.3	4.4	4.5	4.5	4.7	4.7	4.7
Charlottesville	3.4	3.3	3.3	13.0	13.4	13.2	20.1	19.8	19.6
Danville	1.3	1.3	1.3	6.0	6.1	6.2	4.5	4.6	4.6
Lynchburg	4.0	4.4	4.4	13.0	13.5	13.7	8.9	9.2	9.1
Norfolk-Virginia Beach-Newport News	27.7	27.5	27.5	141.2	145.1	145.5	125.5	126.8	126.8
Northern Virginia	50.0	52.8	53.3	243.6	265.8	264.8	137.3	145.8	143.2
Richmond-Petersburg	39.3	41.3	41.4	95.5	98.7	98.8	89.6	93.4	93.2
Roanoke	8.3	8.6	8.6	29.4	30.1	30.2	14.6	14.5	14.6
Washington	111.4	116.0	116.4	448.7	473.6	473.9	345.4	353.9	349.8
Seattle	70.9	73.7	74.1	233.9	250.5	252.2	128.6	131.0	128.8
West Virginia	24.4	24.2	24.3	133.5	139.4	139.8	126.5	124.9	115.8
Charleston	6.2	6.2	6.2	26.1	26.9	26.7	21.7	21.8	20.9
Huntington-Ashland	3.8	3.8	3.8	22.8	24.0	24.1	17.9	18.2	17.6
Parkersburg-Marietta	2.3	2.4	2.4	13.6	14.2	14.2	9.6	10.0	9.9
Wheeling	2.8	2.8	2.8	15.7	16.0	16.0	9.4	9.5	9.1
Wisconsin	116.6	121.2	121.3	487.5	499.3	501.3	300.8	311.9	310.2
Appleton-Oshkosh-Neenah	7.2	7.5	7.5	29.9	30.1	30.4	15.4	15.4	15.5
Eau Claire	1.8	1.9	1.9	12.9	13.7	13.5	9.5	10.2	9.7
Green Bay	3.2	3.6	3.6	21.9	22.2	22.5	10.0	10.4	10.7
Janesville-Beloit	1.6	1.7	1.7	12.1	12.7	12.8	6.4	7.0	6.8
Kenosha	1.2	1.3	1.3	8.6	8.6	8.8	5.1	5.8	5.8
La Crosse	1.6	1.7	1.7	14.7	15.9	16.0	6.2	6.8	6.8
Madison	18.8	19.1	19.2	45.1	46.4	46.7	54.0	56.7	56.7
Milwaukee	50.6	52.4	52.3	191.1	195.9	197.1	77.8	77.5	77.8
Racine	2.3	2.4	2.4	16.4	17.4	17.5	7.9	8.4	8.3
Wausau	3.6	3.7	3.6	8.7	8.9	9.1	5.5	5.7	5.7
Wyoming	7.2	7.3	7.3	37.1	38.1	38.2	45.8	47.5	46.2
Puerto Rico	36.1	36.0	35.8	119.0	120.3	120.9	292.1	328.2	289.3
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.6	18.1	15.6
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	19.0	21.4	19.0
Ponce	(¹)	(¹)	(¹)	9.7	10.1	10.4	17.0	22.4	18.7
San Juan	28.7	28.9	28.7	86.4	87.6	87.9	174.3	187.6	173.7
Virgin Islands	1.9	2.0	2.0	8.8	9.5	9.2	14.0	14.3	14.6

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 1988 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—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	9.60	365.76
1988	41.1	10.18	9.72	418.40	39.3	12.32	484.18	38.1	9.94	378.71
Monthly data, not seasonally adjusted										
1988:										
September	41.3	\$10.25	\$9.75	\$423.33	39.5	\$12.40	\$489.80	38.1	\$10.04	\$382.52
October	41.3	10.25	9.76	423.33	39.5	12.42	490.59	38.2	10.10	385.82
November	41.5	10.31	9.82	427.87	39.3	12.46	489.68	38.0	10.07	382.66
December	41.7	10.37	9.88	432.43	39.5	12.42	490.59	38.2	10.14	387.35
1989:										
January	41.0	10.37	9.91	425.17	39.3	12.47	490.07	37.9	10.23	387.72
February	40.8	10.38	9.92	423.50	39.1	12.50	488.75	37.8	10.23	386.69
March	41.0	10.41	9.94	426.81	39.2	12.46	488.43	37.9	10.21	386.96
April	41.0	10.41	9.95	426.81	39.8	12.51	497.90	38.2	10.36	395.75
May	40.9	10.42	9.98	426.18	39.3	12.49	490.86	37.9	10.28	389.61
June	41.1	10.44	9.98	429.08	39.6	12.48	494.21	38.1	10.31	392.81
July	40.5	10.47	10.02	424.04	39.8	12.58	500.68	38.3	10.40	398.32
August ^p	40.8	10.44	9.97	425.95	39.3	12.50	491.25	38.1	10.35	394.34
September ^p	41.1	10.54	10.04	433.19	39.4	12.67	499.20	38.1	10.44	397.76

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

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	12.54	531.70	37.8	12.71	480.44
1988	34.7	9.29	322.36	42.3	12.75	539.33	37.9	13.01	493.08
Monthly data, not seasonally adjusted									
1988:									
September	34.8	\$9.40	\$327.12	42.2	\$12.82	\$541.00	38.4	\$13.16	\$505.34
October	34.9	9.45	329.81	42.6	12.79	544.85	39.1	13.17	514.95
November	34.7	9.46	328.26	41.9	12.89	540.09	37.8	13.08	494.42
December	34.9	9.46	330.15	42.8	13.03	557.68	37.3	13.19	491.99
1989:									
January	34.5	9.54	329.13	42.2	13.20	557.04	36.5	13.26	483.99
February	34.3	9.55	327.57	41.7	13.22	551.27	36.2	13.21	478.20
March	34.4	9.56	328.86	42.0	13.15	552.30	37.4	13.26	495.92
April	34.8	9.62	334.78	42.8	13.19	564.53	37.9	13.30	504.07
May	34.5	9.59	330.86	42.0	13.13	551.46	37.7	13.28	500.66
June	34.8	9.58	333.38	42.6	13.03	555.08	38.0	13.24	503.12
July	35.1	9.63	338.01	42.5	12.95	550.38	38.9	13.33	518.54
August ^p	34.9	9.60	335.04	42.8	13.04	558.11	38.9	13.33	518.54
September ^p	34.7	9.76	338.67	43.0	13.19	567.17	38.6	13.48	520.33

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	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
1988	29.1	6.31	183.62	35.9	9.09	326.33	32.6	8.91	290.47
Monthly data, not seasonally adjusted									
1988:									
September	29.1	\$6.38	\$185.66	35.8	\$9.14	\$327.21	32.5	\$9.00	\$292.50
October	29.1	6.39	185.95	36.0	9.29	334.44	32.7	9.09	297.24
November	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.11	296.08
December	29.6	6.43	190.33	35.8	9.32	333.66	32.6	9.16	298.62
1989:									
January	28.4	6.48	184.03	36.1	9.46	341.51	32.6	9.25	301.55
February	28.3	6.47	183.10	35.8	9.47	339.03	32.4	9.28	300.67
March	28.5	6.48	184.68	35.8	9.43	337.59	32.4	9.29	301.00
April	28.9	6.52	188.43	36.3	9.59	348.12	32.8	9.34	306.35
May	28.8	6.49	186.91	35.6	9.48	337.49	32.4	9.30	301.32
June	29.2	6.49	189.51	35.8	9.48	339.38	32.7	9.26	302.80
July	29.9	6.49	194.05	36.3	9.59	348.12	33.1	9.33	308.82
August ^p	29.6	6.49	192.10	35.8	9.49	339.74	32.9	9.29	305.64
September ^p	28.8	6.61	190.37	35.7	9.60	342.72	32.6	9.48	309.05

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

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Total private		35.0	34.8	35.1	34.9	34.7		-			-
Mining		42.0	42.2	42.5	42.8	43.0					
Metal mining	10	40.9	42.1	43.8	43.0						
Iron ores	101	41.4	42.1	43.0	42.6						
Copper ores	102	41.4	43.5	49.1	46.8						
Coal mining	11,12	42.5	43.1		41.1						
Bituminous coal and lignite mining	12	42.5	43.2		41.2						
Oil and gas extraction	13	40.4	40.5	41.8	41.9						
Crude petroleum, natural gas, and natural gas liquids	131,2	40.0	41.6	42.9	41.6						
Oil and gas field services	138	40.7	39.9	41.2	42.0						
Nonmetallic minerals, except fuels	14	46.7	46.1	47.1	47.3						
Crushed and broken stone	142	48.4	47.7	48.6	48.9						
Construction		38.6	38.4	38.9	38.9	38.6					
General building contractors	15	37.9	37.8	37.9	38.1						
Residential building construction	152	37.0	36.8	37.1	37.2						
Operative builders	153	38.7	38.5	38.5	39.5						
Nonresidential building construction	154	38.9	38.9	38.9	39.0						
Heavy construction contractors	16	43.0	42.5	43.5	43.6						
Highway and street construction	161	45.1	44.3	45.7	46.1						
Heavy construction, except highway	162	41.9	41.5	42.4	42.3						
Special trade contractors	17	37.7	37.5	38.0	38.0						
Plumbing, heating, and air conditioning	171	39.1	38.7	39.2	38.9						
Painting, paper hanging, and decorating	172	36.5	36.8	36.1	36.6						
Electrical work	173	38.6	38.7	39.2	39.2						
Masonry, stonework, and plastering	174	35.7	35.2	35.6	35.6						
Carpentering and flooring	175	35.4	35.0	35.2	35.5						
Roofing and sheet metal work	176	35.4	34.9	36.2	35.7						
Manufacturing		40.9	41.3	40.5	40.8	41.1	3.9	4.2	3.7	3.8	4.1
Durable goods		41.3	42.0	40.9	41.2	41.6	4.0	4.3	3.7	3.8	4.1
Lumber and wood products	24	40.3	40.3	39.5	40.4	40.2	3.9	3.8	3.5	3.8	
Logging camps and logging contractors	241	39.2	37.4	40.7	42.2	-	4.3	4.1	5.3	5.8	
Sawmills and planing mills	242	41.2	41.5	39.8	41.2		4.4	4.2	4.1	4.4	
Sawmills and planing mills, general	2421	41.4	41.8	40.1	41.4		4.6	4.5	4.4	4.7	
Hardwood dimension and flooring	2426	40.4	40.3	38.4	40.3		3.5	3.3	2.8	3.5	
Millwork, plywood, and structural members	243	40.6	40.4	39.3	39.8		3.8	3.6	3.0	3.3	
Millwork	2431	41.0	40.3	38.7	39.0		3.4	3.1	1.9	2.2	
Wood kitchen cabinets	2434	40.1	39.3	39.5	39.5		3.5	3.4	2.9	3.3	
Hardwood veneer and plywood	2435	40.5	40.6	38.9	40.3		3.6	3.4	3.0	3.6	
Softwood veneer and plywood	2436	40.4	42.8	40.7	42.1		4.8	4.8	5.5	5.1	
Wood containers	244	38.7	38.9	38.7	38.4		3.4	3.4	3.2	3.1	
Wood buildings and mobile homes	245	40.2	40.2	38.4	39.1		3.5	3.5	2.1	2.2	
Mobile homes	2451	40.2	39.8	38.0	39.2		3.6	3.3	1.8	2.0	
Miscellaneous wood products	249	39.7	40.5	39.6	40.1		3.0	3.2	2.9	2.8	
Furniture and fixtures	25	39.3	40.1	38.8	39.8	40.1	2.7	3.3	2.4	2.9	
Household furniture	251	38.9	39.5	38.0	39.3		2.4	2.9	1.8	2.5	
Wood household furniture	2511	39.2	39.7	38.8	39.8		2.6	2.9	2.2	2.7	
Upholstered household furniture	2512	37.7	38.5	36.4	38.3		1.6	2.2	1.1	1.8	
Metal household furniture	2514	39.2	40.5	38.8	39.6		2.4	3.1	2.0	2.7	
Mattresses and bedsprings	2515	40.7	41.1	39.6	40.8		3.8	4.6	3.0	3.9	
Office furniture	252	39.8	40.8	38.8	39.3		2.4	3.4	2.4	2.4	
Public building and related furniture	253	41.1	41.4	39.5	41.0		4.1	4.6	3.5	4.0	
Partitions and fixtures	254	40.0	41.4	41.3	41.7		3.6	4.5	4.4	4.4	
Miscellaneous furniture and fixtures	259	40.0	40.0	39.6	40.0		3.2	3.2	2.6	2.8	
Stone, clay, and glass products	32	42.5	42.8	42.5	42.8	42.7	5.3	5.5	5.3	5.6	
Flat glass	321	45.7	46.5	44.7	43.7	-	7.5	8.8	4.4	4.8	
Glass and glassware, pressed or blown	322	41.2	41.7	41.4	41.9		4.5	4.6	4.7	5.0	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Total private		\$9.24	\$9.40	\$9.63	\$9.60	\$9.76	\$323.40	\$327.12	\$338.01	\$335.04	\$338.67
Mining		12.69	12.82	12.95	13.04	13.19	532.98	541.00	550.38	558.11	567.17
Metal mining	10	13.37	13.32	13.70	13.67		546.83	560.77	600.06	587.81	
Iron ores	101	14.53	13.64	14.35	14.42		601.54	574.24	617.05	614.29	
Copper ores	102	11.53	11.75	11.72	11.75		477.34	511.13	575.45	549.90	
Coal mining	11,12	15.97	16.06		16.01		678.73	692.19	618.58	658.01	
Bituminous coal and lignite mining	12	16.02	16.11		16.06		680.85	695.95	622.52	661.67	
Oil and gas extraction	13	11.70	11.84	12.49	12.32		472.68	479.52	522.08	516.21	
Crude petroleum, natural gas, and natural gas liquids	131,2	14.32	14.53	15.42	15.36		572.80	604.45	661.52	638.98	
Oil and gas field services	138	10.20	10.22	10.73	10.64		415.14	407.78	442.08	446.88	
Nonmetallic minerals, except fuels	14	10.99	11.07	11.33	11.33		513.23	510.33	533.64	535.91	
Crushed and broken stone	142	10.47	10.51	10.86	10.82		506.75	501.33	527.80	529.10	-
Construction		12.99	13.16	13.33	13.33	13.48	501.41	505.34	518.54	518.54	520.33
General building contractors	15	12.16	12.33	12.52	12.53		460.86	466.07	474.51	477.39	
Residential building construction	152	11.45	11.69	11.98	11.98		423.65	430.19	444.46	445.66	
Operative builders	153	11.22	11.36	12.04	11.77		434.21	437.36	463.54	464.92	
Nonresidential building construction	154	12.98	13.09	13.14	13.17		504.92	509.20	511.15	513.63	
Heavy construction contractors	16	12.56	12.74	13.18	13.18		540.08	541.45	573.33	574.65	
Highway and street construction	161	12.50	12.71	13.03	13.09		563.75	563.05	595.47	603.45	
Heavy construction, except highway	162	12.60	12.76	13.26	13.23		527.94	529.54	562.22	559.63	
Special trade contractors	17	13.48	13.65	13.71	13.71		508.20	511.88	520.98	520.98	
Plumbing, heating, and air conditioning	171	13.77	13.91	14.14	14.13		538.41	538.32	554.29	549.66	
Painting, paper hanging, and decorating	172	12.80	12.93	13.02	12.91		467.20	475.82	470.02	472.51	
Electrical work	173	14.73	14.81	14.80	14.68		568.58	573.15	580.16	575.46	
Masonry, stonework, and plastering	174	13.67	13.87	13.94	14.09		488.02	488.22	496.26	501.60	
Carpentering and flooring	175	12.80	13.11	13.07	13.15		453.12	458.85	460.06	466.83	
Roofing and sheet metal work	176	12.01	12.10	12.15	12.20		425.15	422.29	439.83	435.54	
Manufacturing		10.13	10.25	10.47	10.44	10.54	414.32	423.33	424.04	425.95	433.19
Durable goods		10.65	10.78	10.99	10.98	11.09	439.85	452.76	449.49	452.38	461.34
Lumber and wood products	24	8.58	8.69	8.92	8.93	8.97	345.77	350.21	352.34	360.77	360.59
Logging camps and logging contractors	241	10.77	10.93	11.20	11.27	-	422.18	408.78	455.84	475.59	-
Sawmills and planing mills	242	8.69	8.85	9.15	9.05		358.03	367.28	364.17	372.86	
Sawmills and planing mills, general	2421	9.01	9.17	9.49	9.40		373.01	383.31	380.55	389.16	
Hardwood dimension and flooring	2426	7.04	7.16	7.35	7.32		284.42	288.55	282.24	295.00	
Millwork, plywood, and structural members	243	8.57	8.69	8.78	8.84		347.94	351.08	345.05	351.83	
Millwork	2431	8.80	8.93	8.98	9.08		360.80	359.88	347.53	354.12	
Wood kitchen cabinets	2434	7.96	8.06	8.02	8.20		319.20	316.76	316.79	323.90	
Hardwood veneer and plywood	2435	7.02	7.00	7.30	7.43		284.31	284.20	283.97	299.43	
Softwood veneer and plywood	2436	10.12	10.21	10.42	10.25		408.85	436.99	424.09	431.53	
Wood containers	244	6.37	6.47	6.42	6.42		246.52	251.68	248.45	246.53	
Wood buildings and mobile homes	245	8.09	8.19	8.26	8.31		325.22	329.24	317.18	324.92	
Mobile homes	2451	8.17	8.29	8.30	8.38		328.43	329.94	315.40	328.50	
Miscellaneous wood products	249	7.44	7.48	7.73	7.69		295.37	302.94	306.11	308.37	
Furniture and fixtures	25	8.02	8.09	8.26	8.29	8.41	315.19	324.41	320.49	329.94	337.24
Household furniture	251	7.37	7.44	7.57	7.68	-	286.69	293.88	287.66	301.82	-
Wood household furniture	2511	6.90	6.95	7.16	7.19		270.48	275.92	277.81	286.16	
Upholstered household furniture	2512	7.95	8.08	8.15	8.33		299.72	311.08	296.66	319.04	-
Metal household furniture	2514	7.62	7.48	7.97	8.06		298.70	302.94	309.24	319.18	-
Mattresses and bedsprings	2515	7.79	7.92	7.91	8.08		317.05	325.51	313.24	329.66	
Office furniture	252	9.11	9.11	9.39	9.35	-	362.58	371.69	364.33	367.46	
Public building and related furniture	253	8.37	8.47	8.64	8.77		344.01	350.66	341.28	359.57	-
Partitions and fixtures	254	9.50	9.61	9.73	9.62		380.00	397.85	401.85	401.15	
Miscellaneous furniture and fixtures	259	8.28	8.40	8.55	8.43		331.20	336.00	338.58	337.20	
Stone, clay, and glass products	32	10.45	10.55	10.75	10.76	10.81	444.13	451.54	456.88	460.53	461.59
Flat glass	321	14.60	15.20	14.87	14.71	-	667.22	706.80	664.69	642.83	-
Glass and glassware, pressed or blown	322	11.73	11.66	12.14	12.14		483.28	486.22	502.60	508.67	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	41.2	41.4	41.7	42.0	-	5.3	5.1	5.8	6.0	-
Pressed and blown glass, nec	3229	41.3	42.1	41.0	41.7	-	3.6	4.0	3.4	3.8	-
Products of purchased glass	323	41.2	43.0	41.5	41.1	-	3.1	4.2	3.6	3.3	-
Cement, hydraulic	324	42.5	42.3	41.0	42.0	-	3.8	3.8	2.9	4.0	-
Structural clay products	325	42.2	41.9	41.2	41.4	-	4.5	4.5	3.8	3.8	-
Pottery and related products	326	40.3	40.6	39.8	40.9	-	3.0	3.7	3.0	3.4	-
Concrete, gypsum, and plaster products	327	44.1	43.9	44.6	44.8	-	7.1	6.9	7.6	7.9	-
Concrete block and brick	3271	45.9	46.3	44.2	44.8	-	7.4	7.6	7.2	7.6	-
Concrete products, nec	3272	43.2	42.9	44.1	44.5	-	6.4	6.1	6.7	6.9	-
Ready-mixed concrete	3273	43.8	43.5	44.6	44.7	-	7.4	7.0	8.2	8.5	-
Misc. nonmetallic mineral products	329	41.9	42.6	41.7	41.8	-	4.5	5.0	4.4	4.5	-
Abrasive products	3291	42.7	43.5	42.6	42.0	-	3.4	4.3	3.4	3.2	-
Asbestos products	3292	41.2	42.7	40.7	41.9	-	4.1	3.6	3.5	5.1	-
Primary metal industries											
Blast furnaces and basic steel products	331	43.6	44.7	43.2	43.0	42.5	6.0	6.3	5.3	5.5	-
Blast furnaces and steel mills	3312	44.0	45.3	43.5	43.3	-	6.3	6.6	5.6	5.6	-
Steel pipe and tubes	3317	41.9	42.4	40.7	41.5	-	5.3	5.0	3.6	5.4	-
Iron and steel foundries	332	43.2	43.9	42.0	41.5	-	5.7	6.0	4.5	4.4	-
Gray iron foundries	3321	43.5	44.1	42.3	41.6	-	6.2	6.4	4.7	4.5	-
Malleable iron foundries	3322	41.3	42.1	41.0	40.3	-	4.3	4.2	3.1	2.9	-
Steel foundries, nec	3325	42.3	43.6	41.2	41.3	-	4.8	5.8	4.3	4.5	-
Primary nonferrous metals	333	43.6	43.7	42.8	43.0	-	5.0	5.0	5.0	4.9	-
Primary aluminum	3334	44.3	43.8	42.5	42.8	-	5.1	4.9	5.0	4.9	-
Nonferrous rolling and drawing	335	43.3	44.2	43.3	43.3	-	6.2	6.6	6.0	6.2	-
Copper rolling and drawing	3351	43.2	44.0	43.3	44.1	-	7.0	6.6	5.7	6.2	-
Aluminum sheet, plate, and foil	3353	45.3	45.8	45.6	43.3	-	7.9	8.5	8.1	7.6	-
Nonferrous wire drawing and insulating	3357	42.7	43.7	41.9	42.4	-	5.4	6.0	5.1	5.6	-
Nonferrous foundries	336	41.0	42.0	40.5	40.9	-	3.7	4.2	3.2	3.3	-
Aluminum foundries	3361	41.4	42.3	40.6	40.7	-	3.9	4.4	3.1	3.1	-
Fabricated metal products											
Metal cans and shipping containers	341	45.6	45.2	44.6	44.2	-	6.5	6.5	6.3	6.1	-
Metal cans	3411	46.1	45.7	44.8	44.2	-	6.7	6.7	6.3	6.0	-
Cutlery, hand tools, and hardware	342	40.7	41.3	39.6	40.6	-	3.1	3.6	2.6	2.9	-
Hand and edge tools, and hand saws and blades	3423.5	40.3	41.2	39.6	40.4	-	2.7	3.2	2.4	2.5	-
Hardware, nec	3429	40.7	41.0	39.2	40.2	-	3.2	3.7	2.7	2.8	-
Plumbing and heating, except electric	343	41.2	41.3	39.9	40.5	-	4.2	3.9	3.0	3.1	-
Plumbing fittings and brass goods	3432	40.5	40.8	40.2	40.0	-	3.4	2.6	2.9	2.4	-
Heating equipment, except electric	3433	41.6	41.4	39.6	40.8	-	4.8	4.8	2.7	3.6	-
Fabricated structural metal products	344	41.2	41.3	41.0	41.3	-	4.0	4.2	3.8	3.8	-
Fabricated structural metal	3441	42.5	42.2	42.0	42.4	-	5.4	5.2	4.5	4.6	-
Metal doors, sash, and trim	3442	40.5	39.8	39.7	39.9	-	3.2	3.0	2.8	2.6	-
Fabricated plate work (boiler shops)	3443	42.3	43.0	41.3	41.9	-	4.6	4.8	4.1	4.1	-
Sheet metal work	3444	39.9	40.1	40.5	40.3	-	3.2	3.4	3.4	3.5	-
Architectural metal work	3446	40.7	41.3	41.0	41.4	-	3.8	4.9	4.6	4.7	-
Screw machine products, bolts, etc	345	42.6	43.3	41.2	41.5	-	5.2	5.8	4.3	4.4	-
Screw machine products	3451	41.2	42.0	40.7	40.5	-	4.2	4.9	3.5	3.6	-
Bolts, nuts, rivets, and washers	3452	44.2	44.8	41.8	42.7	-	6.2	6.8	5.2	5.2	-
Metal forgings and stampings	346	41.9	43.5	40.4	41.1	-	4.3	5.5	3.4	3.8	-
Iron and steel forgings	3462	42.4	43.1	41.4	41.9	-	4.8	4.9	4.1	4.2	-
Automotive stampings	3465	42.7	45.2	40.1	41.6	-	4.5	6.6	3.2	3.8	-
Metal stampings, nec	3469	40.7	41.2	39.8	39.9	-	3.8	4.1	3.0	3.4	-
Metal services, nec	347	40.3	40.9	39.9	40.4	-	3.3	3.8	3.2	3.4	-
Plating and polishing	3471	40.2	40.6	39.4	39.8	-	3.3	3.6	2.9	2.9	-
Metal coating and allied services	3479	40.4	41.5	40.9	41.4	-	3.3	4.2	3.7	4.2	-
Ordnance and accessories, nec	348	41.4	41.9	40.9	40.6	-	3.4	3.5	2.9	3.1	-
Ammunition, except for small arms, nec	3483	40.7	41.2	40.4	39.4	-	2.8	3.1	2.9	3.0	-
Misc. fabricated metal products	349	41.1	41.9	40.4	40.9	-	3.7	4.1	3.2	3.3	-
Valves and pipe fittings	3494	41.9	42.4	41.2	41.3	-	4.0	4.2	3.3	3.3	-
Misc. fabricated wire products	3496	40.2	40.6	39.0	40.1	-	3.5	4.0	2.7	3.1	-
Machinery, except electrical											
Engines and turbines	351	42.7	44.2	43.2	41.9	-	4.7	5.0	3.6	4.0	-
Turbines and turbine generator sets	3511	42.8	43.2	41.1	43.1	-	5.3	6.2	5.2	5.8	-
Internal combustion engines, nec	3519	42.7	44.5	43.9	41.5	-	4.5	4.6	3.1	3.3	-
Farm and garden machinery	352	41.3	41.3	40.6	40.4	-	3.8	3.9	3.7	3.3	-
Farm machinery and equipment	3523	42.4	41.7	41.5	41.1	-	4.6	4.7	4.3	3.8	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$12.21	\$12.10	\$12.75	\$12.78		\$503.05	\$500.94	\$531.68	\$536.76	
Pressed and blown glass, nec	3229	11.17	11.17	11.43	11.39		461.32	470.26	468.63	474.96	
Products of purchased glass	323	8.95	9.19	9.44	9.37		368.74	395.17	391.76	385.11	
Cement, hydraulic	324	13.17	13.48	13.57	13.70	-	559.73	570.20	556.37	575.40	
Structural clay products	325	8.91	8.97	9.17	9.11	-	376.00	375.84	377.80	377.15	
Pottery and related products	326	9.23	9.34	9.50	9.52		371.97	379.20	378.10	389.37	
Concrete, gypsum, and plaster products	327	10.25	10.35	10.58	10.62		452.03	454.37	471.87	475.78	-
Concrete block and brick	3271	9.37	9.35	9.79	9.77		430.08	432.91	432.72	437.70	
Concrete products, nec	3272	9.21	9.32	9.60	9.52		397.87	399.83	423.36	423.64	
Ready-mixed concrete	3273	11.02	11.14	11.32	11.44		482.68	484.59	504.87	511.37	-
Misc. nonmetallic mineral products	329	10.54	10.62	10.70	10.70		441.63	452.41	446.19	447.26	-
Abrasive products	3291	9.90	10.17	10.11	10.14		422.73	442.40	430.69	425.88	-
Asbestos products	3292	10.84	10.74	11.02	11.16		446.61	458.60	448.51	467.60	
Primary metal industries	33	12.10	12.24	12.40	12.35	\$12.41	521.51	538.56	528.24	524.88	\$528.67
Blast furnaces and basic steel products	331	13.96	14.07	14.33	14.28	14.35	608.66	628.93	619.06	614.04	609.88
Blast furnaces and steel mills	3312	14.71	14.84	15.12	15.02	-	647.24	672.25	657.72	650.37	-
Steel pipe and tubes	3317	10.76	10.82	10.98	11.12		450.84	458.77	446.89	461.48	
Iron and steel foundries	332	10.82	11.01	11.07	11.02		467.42	483.34	464.94	457.33	
Gray iron foundries	3321	11.37	11.56	11.62	11.53		494.60	509.80	491.53	479.65	
Malleable iron foundries	3322	11.56	11.72	12.01	11.68		477.43	493.41	492.41	470.70	
Steel foundries, nec	3325	10.04	10.29	10.34	10.42		424.69	448.64	426.01	430.35	
Primary nonferrous metals	333	13.32	13.41	13.75	13.72		580.75	586.02	588.50	589.96	-
Primary aluminum	3334	13.51	13.72	14.00	13.87		598.49	600.94	595.00	593.64	
Nonferrous rolling and drawing	335	11.60	11.79	11.77	11.84		502.28	521.12	509.64	512.67	
Copper rolling and drawing	3351	10.90	11.03	11.26	11.09		470.88	485.32	487.56	489.07	
Aluminum sheet, plate, and foil	3353	14.07	14.17	14.22	14.35		637.37	648.99	648.43	621.36	
Nonferrous wire drawing and insulating	3357	11.66	11.90	11.88	11.98		497.88	520.03	497.77	507.95	
Nonferrous foundries	336	9.45	9.67	9.80	9.71		387.45	406.14	396.90	397.14	
Aluminum foundries	3361	9.60	9.89	10.05	9.90		397.44	418.35	408.03	402.93	
Fabricated metal products	34	10.21	10.34	10.53	10.50	10.63	423.72	435.31	428.57	431.55	441.15
Metal cans and shipping containers	341	13.38	13.61	14.00	13.86	-	610.13	615.17	624.40	612.61	-
Metal cans	3411	14.17	14.46	14.93	14.80		653.24	660.82	668.86	654.16	
Cutlery, hand tools, and hardware	342	10.01	10.18	10.43	10.42		407.41	420.43	413.03	423.05	
Hand and edge tools, and hand saws and blades	3423,5	9.18	9.35	9.60	9.60		369.95	385.22	380.16	387.84	
Hardware, nec	3429	10.39	10.55	10.81	10.78		422.87	432.55	423.75	433.36	
Plumbing and heating, except electric	343	9.31	9.40	9.51	9.40		383.57	388.22	379.45	380.70	
Plumbing fittings and brass goods	3432	9.01	9.02	9.11	9.05		364.91	368.02	366.22	362.00	
Heating equipment, except electric	3433	9.14	9.22	9.29	9.37		380.22	381.71	367.88	382.30	
Fabricated structural metal products	344	9.58	9.69	9.95	9.95		394.70	400.20	407.95	410.94	
Fabricated structural metal	3441	10.29	10.36	10.44	10.42		437.33	437.19	438.48	441.81	
Metal doors, sash, and trim	3442	8.04	8.12	8.34	8.28		325.62	323.18	331.10	330.37	-
Fabricated plate work (boiler shops)	3443	10.21	10.32	10.60	10.71		431.88	443.76	437.78	448.75	
Sheet metal work	3444	9.91	9.90	10.42	10.38		395.41	396.99	422.01	418.31	
Architectural metal work	3446	8.84	9.16	9.33	9.27		359.79	378.31	382.53	383.78	
Screw machine products, bolts, etc	345	10.00	10.11	10.28	10.27		426.00	437.76	423.54	426.21	
Screw machine products	3451	9.29	9.44	9.70	9.73		382.75	396.48	394.79	394.07	
Bolts, nuts, rivets, and washers	3452	10.75	10.82	10.91	10.82		475.15	484.74	456.04	462.01	
Metal forgings and stampings	346	12.17	12.36	12.48	12.38		509.92	537.66	504.19	508.82	
Iron and steel forgings	3462	12.94	12.91	13.33	13.16		548.66	556.42	551.86	551.40	
Automotive stampings	3465	13.91	14.08	14.22	13.98		593.96	636.42	570.22	581.57	
Metal stampings, nec	3469	9.46	9.51	9.73	9.87		385.02	391.81	387.25	393.81	
Metal services, nec	347	8.25	8.29	8.54	8.55		332.48	339.06	340.75	345.42	
Plating and polishing	3471	8.21	8.25	8.51	8.51		330.04	334.95	335.29	338.70	
Metal coating and allied services	3479	8.33	8.36	8.58	8.61		336.53	346.94	350.92	356.45	
Ordnance and accessories, nec	348	11.35	11.44	11.61	11.81		469.89	479.34	474.85	479.49	
Ammunition, except for small arms, nec	3483	11.01	11.00	11.41	11.61		448.11	453.20	460.96	457.43	
Misc. fabricated metal products	349	9.53	9.56	9.82	9.82	-	391.68	400.56	396.73	401.64	
Valves and pipe fittings	3494	10.44	10.40	10.61	10.70		437.44	440.96	437.13	441.91	
Misc. fabricated wire products	3496	8.49	8.63	8.58	8.42		341.30	350.38	334.62	337.64	
Machinery, except electrical	35	10.97	11.09	11.35	11.34	11.46	460.74	473.54	475.57	472.88	483.61
Engines and turbines	351	13.65	13.71	14.16	14.09	-	582.86	605.98	611.71	590.37	-
Turbines and turbine generator sets	3511	13.88	14.02	14.27	14.44	-	594.06	605.66	586.50	622.36	-
Internal combustion engines, nec	3519	13.58	13.62	14.13	13.96		579.87	606.09	620.31	579.34	
Farm and garden machinery	352	10.29	10.36	10.56	10.61		424.98	427.87	428.74	428.64	
Farm machinery and equipment	3523	10.79	11.03	11.26	11.23		457.50	459.95	467.29	461.55	

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	42.8	43.3	42.3	42.2	-	3.9	4.1	3.9	4.3	-
Construction machinery	3531	43.6	44.5	43.0	42.3	-	3.6	3.9	3.9	4.6	-
Mining machinery	3532	41.6	42.6	41.0	41.5	-	3.9	4.5	4.0	3.8	-
Oil field machinery	3533	42.6	41.5	41.4	41.5	-	5.2	4.2	3.5	4.0	-
Conveyors and conveying equipment	3535	43.2	43.4	43.9	43.0	-	4.7	5.0	5.4	5.1	-
Industrial trucks and tractors	3537	41.3	41.9	40.5	42.1	-	3.2	3.6	3.0	3.9	-
Metalworking machinery	354	42.9	43.9	42.8	42.7	-	5.0	5.7	5.1	4.9	-
Machine tools, metal cutting types	3541	42.6	43.5	42.8	43.0	-	4.4	5.1	4.9	5.0	-
Machine tools, metal forming types	3542	43.7	45.3	43.8	43.3	-	5.3	7.1	5.4	5.3	-
Special dies, tools, jigs, and fixtures	3544	43.7	44.7	43.6	43.5	-	5.8	6.4	5.7	5.6	-
Machine tool accessories	3545	41.2	42.0	41.6	40.7	-	3.8	4.5	4.3	3.8	-
Power driven hand tools	3546	42.1	43.2	42.5	42.6	-	3.9	4.4	3.5	3.8	-
Special industry machinery	355	41.5	42.5	41.5	41.7	-	4.3	5.4	4.4	4.5	-
Food products machinery	3551	41.9	42.5	42.0	42.7	-	3.9	4.5	4.5	4.8	-
Textile machinery	3552	41.7	42.7	42.1	42.1	-	3.4	4.0	3.8	3.7	-
Printing trades machinery	3555	38.4	39.4	38.2	38.5	-	4.4	5.6	3.8	4.3	-
General industrial machinery	356	42.3	43.3	41.7	41.8	-	4.4	5.2	4.3	4.2	-
Pumps and pumping equipment	3561	42.8	43.9	40.9	41.6	-	4.3	4.7	3.4	3.9	-
Ball and roller bearings	3562	43.1	44.3	42.8	43.1	-	5.7	6.3	5.7	5.6	-
Air and gas compressors	3563	42.8	42.8	42.0	42.3	-	4.4	4.8	4.4	4.3	-
Blowers and fans	3564	41.4	41.9	40.7	40.7	-	3.3	4.3	3.4	3.4	-
Speed changers, drives, and gears	3566	42.9	43.3	41.4	41.2	-	5.3	5.8	4.5	4.8	-
Power transmission equipment, nec	3568	40.1	42.1	41.6	41.3	-	4.6	5.6	4.9	4.4	-
Office and computing machines	357	41.4	41.9	40.9	41.5	-	3.2	3.7	2.3	2.9	-
Electronic computing equipment	3573	41.4	41.9	40.9	41.6	-	3.2	3.6	2.4	3.0	-
Refrigeration and service machinery	358	41.3	41.8	42.0	41.2	-	3.3	3.5	4.1	3.2	-
Refrigeration and heating equipment	3585	41.7	42.2	43.0	41.8	-	3.5	3.7	4.7	3.5	-
Misc. machinery, except electrical	359	41.5	42.2	41.5	41.2	-	4.4	4.7	4.2	4.0	-
Carburetors, pistons, rings, and valves	3592	42.7	42.2	40.4	41.6	-	4.9	4.9	3.9	3.5	-
Machinery, except electrical, nec	3599	41.4	42.2	41.7	41.1	-	4.3	4.7	4.2	4.0	-
Electrical and electronic equipment	36	40.6	41.0	40.0	40.7	41.1	3.2	3.5	2.8	3.1	-
Electric distributing equipment	361	42.0	42.4	41.2	41.3	-	3.7	4.1	2.9	2.9	-
Transformers	3612	42.1	42.5	40.8	41.5	-	3.5	3.9	2.8	2.8	-
Switchgear and switchboard apparatus	3613	41.9	42.3	41.5	41.2	-	3.8	4.2	3.0	3.0	-
Electrical industrial apparatus	362	41.6	42.0	41.4	41.0	-	3.5	3.9	3.6	2.9	-
Motors and generators	3621	41.5	41.9	41.6	40.9	-	3.7	4.2	4.3	3.1	-
Industrial controls	3622	40.5	40.9	40.8	40.3	-	2.3	2.8	2.5	2.2	-
Household appliances	363	39.3	40.5	39.4	39.5	-	3.0	3.6	2.8	2.8	-
Household refrigerators and freezers	3632	40.2	41.1	38.1	38.5	-	4.6	4.4	3.8	3.0	-
Household laundry equipment	3633	38.3	40.6	41.0	40.6	-	1.9	2.7	2.4	2.5	-
Electric housewares and fans	3634	40.9	41.7	39.7	40.8	-	3.7	4.2	2.9	3.5	-
Electric lighting and wiring equipment	364	39.6	40.1	38.9	40.1	-	2.9	3.2	2.6	2.9	-
Electric lamps	3641	39.7	40.6	38.7	40.0	-	2.5	2.9	2.4	2.6	-
Current-carrying wiring devices	3643	38.2	39.3	39.5	39.7	-	2.5	2.8	3.2	3.1	-
Noncurrent-carrying wiring devices	3644	40.9	41.1	38.8	41.7	-	3.0	3.6	2.4	3.3	-
Residential lighting fixtures	3645	38.1	39.2	36.3	38.1	-	2.1	2.7	1.3	2.2	-
Radio and TV receiving equipment	365	40.5	41.9	39.1	39.6	-	3.3	4.2	2.8	3.3	-
Radio and TV receiving sets	3651	40.2	41.7	38.6	38.8	-	2.7	3.8	2.1	2.7	-
Communication equipment	366	40.8	40.7	40.7	41.6	-	2.5	2.7	2.3	2.7	-
Telephone and telegraph apparatus	3661	42.2	41.4	43.0	44.4	-	2.9	2.8	2.4	3.0	-
Radio and TV communication equipment	3662	40.2	40.4	39.8	40.5	-	2.4	2.6	2.2	2.6	-
Electronic components and accessories	367	40.2	40.3	39.4	40.3	-	3.2	3.5	3.0	3.4	-
Electronic tubes	3671-3	42.0	42.1	41.2	41.5	-	3.6	4.5	3.0	3.3	-
Semiconductors and related devices	3674	40.1	39.9	39.1	39.8	-	3.6	3.7	3.6	3.9	-
Electronic components, nec	3679	40.4	40.7	39.7	40.8	-	3.2	3.5	2.9	3.5	-
Misc. electrical equipment and supplies	369	41.7	43.0	40.3	42.2	-	3.8	4.5	2.6	3.5	-
Storage batteries	3691	42.3	43.5	40.9	42.6	-	3.6	4.0	3.6	4.0	-
Engine electrical equipment	3694	41.6	43.6	40.2	42.8	-	4.3	5.6	2.6	4.0	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^a	Sept. 1989 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$10.98	\$11.07	\$11.37	\$11.38		\$469.94	\$479.33	\$480.95	\$480.24	
Construction machinery	3531	12.10	12.34	12.68	12.74	-	527.56	549.13	545.24	538.90	
Mining machinery	3532	11.47	11.44	11.22	11.40	-	477.15	487.34	460.02	473.10	
Oil field machinery	3533	10.70	10.46	11.16	11.02	-	455.82	434.09	462.02	457.33	
Conveyors and conveying equipment	3535	10.05	10.14	10.38	10.36	-	434.16	440.08	455.68	445.48	
Industrial trucks and tractors	3537	9.92	10.01	10.15	10.14	-	409.70	419.42	411.08	426.89	
Metalworking machinery	354	11.40	11.51	11.78	11.74	-	489.06	505.29	504.18	501.30	
Machine tools, metal cutting types	3541	11.28	11.38	11.67	11.64	-	480.53	495.03	499.48	500.52	-
Machine tools, metal forming types	3542	11.72	12.05	12.03	12.03	-	512.16	545.87	526.91	520.90	-
Special dies, tools, jigs, and fixtures	3544	12.22	12.35	12.63	12.56	-	534.01	552.05	550.67	546.36	-
Machine tool accessories	3545	10.19	10.28	10.58	10.53	-	419.83	431.76	440.13	428.57	
Power driven hand tools	3546	9.06	9.07	9.35	9.47	-	381.43	391.82	397.38	403.42	
Special industry machinery	355	11.09	11.31	11.59	11.56	-	460.24	480.68	480.99	482.05	
Food products machinery	3551	10.99	11.11	11.62	11.66	-	460.48	472.18	488.04	497.88	
Textile machinery	3552	9.14	9.31	9.71	9.71	-	381.14	397.54	408.79	408.79	
Printing trades machinery	3555	12.09	12.50	12.57	12.60	-	464.26	492.50	480.17	485.10	
General industrial machinery	356	10.52	10.64	10.95	10.95	-	445.00	460.71	456.62	457.71	
Pumps and pumping equipment	3561	11.19	11.27	11.43	11.55	-	478.93	494.75	467.49	480.48	
Ball and roller bearings	3562	10.79	11.01	11.56	11.38	-	465.05	487.74	494.77	490.48	
Air and gas compressors	3563	10.46	10.55	10.73	10.85	-	447.69	451.54	450.66	458.96	
Blowers and fans	3564	9.40	9.58	9.65	9.66	-	389.16	401.40	392.76	393.16	
Speed changers, drives, and gears	3566	10.59	10.79	11.18	11.02	-	454.31	467.21	462.85	454.02	
Power transmission equipment, nec	3568	10.54	10.64	10.58	10.51	-	422.65	447.94	440.13	434.06	
Office and computing machines	357	10.75	10.82	11.13	11.18	-	445.05	453.36	455.22	463.97	
Electronic computing equipment	3573	10.70	10.76	11.11	11.16	-	442.98	450.84	454.40	464.26	
Refrigeration and service machinery	358	10.53	10.65	10.75	10.72	-	434.89	445.17	451.50	441.66	
Refrigeration and heating equipment	3585	10.70	10.83	10.88	10.84	-	446.19	457.03	467.84	453.11	
Misc. machinery, except electrical	359	10.61	10.73	10.96	10.95	-	440.32	452.81	454.84	451.14	-
Carburetors, pistons, rings, and valves	3592	12.87	12.94	13.15	12.94	-	549.55	546.07	531.26	538.30	
Machinery, except electrical, nec	3599	10.30	10.43	10.69	10.70	-	426.42	440.15	445.77	439.77	
Electrical and electronic equipment	36	10.15	10.19	10.41	10.41	\$10.46	412.09	417.79	416.40	423.69	\$429.91
Electric distributing equipment	361	9.44	9.47	9.51	9.62	-	396.48	401.53	391.81	397.31	-
Transformers	3612	9.30	9.34	9.21	9.31	-	391.53	396.95	375.77	386.37	
Switchgear and switchboard apparatus	3613	9.58	9.61	9.80	9.93	-	401.40	406.50	406.70	409.12	-
Electrical industrial apparatus	362	10.01	10.08	10.09	1.11		416.42	423.36	417.73	414.51	
Motors and generators	3621	9.93	10.05	10.05	10.05		412.10	421.10	418.08	411.05	
Industrial controls	3622	9.91	10.00	9.95	9.98		401.36	409.00	405.96	402.19	
Household appliances	363	10.07	10.04	10.29	10.18	-	395.75	406.62	405.43	402.11	
Household refrigerators and freezers	3632	11.77	11.84	11.82	11.85	-	473.15	486.62	450.34	456.23	
Household laundry equipment	3633	11.83	11.98	12.18	11.99	-	453.09	486.39	499.38	486.79	-
Electric housewares and fans	3634	7.51	7.48	7.43	7.48	-	307.16	311.92	294.97	305.18	
Electric lighting and wiring equipment	364	9.58	9.61	9.87	9.78	-	379.37	385.36	383.94	392.18	
Electric lamps	3641	10.84	10.87	11.14	11.09	-	430.35	441.32	431.12	443.60	
Current-carrying wiring devices	3643	9.42	9.41	9.87	9.81	-	359.84	369.81	389.87	389.46	-
Noncurrent-carrying wiring devices	3644	9.19	9.32	9.45	9.44	-	375.87	383.05	366.66	393.65	-
Residential lighting fixtures	3645	7.02	7.02	7.34	7.24	-	267.46	275.18	266.44	275.84	
Radio and TV receiving equipment	365	9.44	9.58	9.49	9.56	-	382.32	401.40	371.06	378.58	
Radio and TV receiving sets	3651	9.80	10.02	9.86	9.95	-	393.96	417.83	380.60	386.06	
Communication equipment	366	12.18	12.21	12.45	12.49	-	496.94	496.95	506.72	519.58	
Telephone and telegraph apparatus	3661	11.74	11.76	11.64	11.56	-	495.43	486.86	500.52	513.26	
Radio and TV communication equipment	3662	12.36	12.39	12.79	12.89	-	496.87	500.56	509.04	522.05	-
Electronic components and accessories	367	9.22	9.26	9.68	9.67	-	370.64	373.18	381.39	389.70	
Electronic tubes	3671-3	11.40	11.39	12.21	12.20	-	478.80	479.52	503.05	506.30	
Semiconductors and related devices	3674	11.19	11.19	11.84	11.79	-	448.72	446.48	462.94	469.24	
Electronic components, nec	3679	8.20	8.26	8.54	8.58	-	331.28	336.18	339.04	350.06	
Misc. electrical equipment and supplies	369	10.66	10.81	10.89	11.02	-	444.52	464.83	438.87	465.04	
Storage batteries	3691	11.05	11.35	11.86	11.75	-	467.42	493.73	485.07	500.55	-
Engine electrical equipment	3694	11.32	11.47	11.36	11.60	-	470.91	500.09	456.67	496.48	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P
Durable goods—Continued											
Transportation equipment	37	41.8	43.0	41.6	41.6	42.7	4.4	5.0	4.1	4.2	-
Motor vehicles and equipment	371	42.2	44.1	41.4	41.4	43.7	4.8	5.6	3.8	4.1	-
Motor vehicles and car bodies	3711	41.3	44.7	41.0	40.4	-	4.6	5.8	4.1	3.8	-
Truck and bus bodies	3713	42.0	42.5	43.0	43.2	-	3.7	4.5	3.8	4.6	-
Motor vehicle parts and accessories	3714	43.0	44.0	41.7	42.4	-	5.2	5.7	3.8	4.5	-
Truck trailers	3715	39.9	40.7	37.9	39.4	-	2.7	3.2	2.1	2.2	-
Aircraft and parts	372	41.6	42.5	42.6	42.8	-	4.5	4.8	5.3	5.4	-
Aircraft	3721	41.2	42.3	42.9	42.9	-	4.1	4.7	5.4	5.4	-
Aircraft engines and engine parts	3724	41.7	42.4	42.0	42.2	-	4.7	4.5	5.2	5.4	-
Aircraft equipment, nec	3728	42.2	42.8	42.6	43.0	-	4.9	5.2	5.3	5.2	-
Ship and boat building and repairing	373	40.5	39.8	39.9	39.6	-	2.8	3.3	2.9	2.4	-
Ship building and repairing	3731	40.9	40.1	41.1	39.8	-	3.2	3.6	3.1	2.4	-
Boat building and repairing	3732	39.8	39.5	37.9	39.1	-	2.3	2.9	2.6	2.4	-
Railroad equipment	374	42.4	42.4	44.3	42.6	-	4.4	4.4	4.8	4.5	-
Guided missiles, space vehicles, and parts	376	43.0	43.5	42.3	42.7	-	4.6	4.7	4.0	4.2	-
Guided missiles and space vehicles	3761	42.8	43.6	42.4	42.5	-	4.7	4.7	4.3	4.2	-
Miscellaneous transportation equipment	379	39.5	40.4	39.3	39.0	-	2.7	2.8	2.3	2.2	-
Travel trailers and campers	3792	38.8	38.3	39.2	37.8	-	2.7	2.0	1.7	1.7	-
Instruments and related products	38	41.2	41.6	40.8	40.7	40.8	2.9	3.2	2.7	2.7	-
Engineering and scientific instruments	381	41.3	42.1	41.9	41.2	-	2.8	3.2	2.8	2.7	-
Measuring and controlling devices	382	41.0	41.7	40.6	40.5	-	2.6	3.0	2.4	2.5	-
Environmental controls	3822	39.4	40.1	38.9	39.2	-	2.4	2.4	2.4	2.1	-
Process control instruments	3823	43.4	43.4	41.7	41.9	-	3.8	4.0	3.2	3.2	-
Instruments to measure electricity	3825	40.3	41.0	41.4	40.2	-	2.0	2.6	1.9	2.2	-
Optical instruments and lenses	383	42.8	44.2	42.4	42.7	-	2.4	3.8	2.3	2.7	-
Medical instruments and supplies	384	40.5	40.8	39.8	40.1	-	2.8	3.0	2.6	2.9	-
Surgical and medical instruments	3841	39.8	40.6	39.8	40.0	-	2.6	2.9	2.7	3.4	-
Surgical appliances and supplies	3842	41.0	40.8	39.4	39.8	-	3.0	3.1	2.4	2.2	-
Ophthalmic goods	385	39.8	39.9	39.7	39.6	-	3.1	3.2	2.5	3.3	-
Photographic equipment and supplies	386	43.9	43.2	43.4	42.5	-	3.8	4.1	3.7	3.0	-
Watches, clocks, and watchcases	387	40.6	41.6	40.2	39.3	-	2.7	3.7	1.4	1.8	-
Miscellaneous manufacturing	39	39.0	39.3	38.6	39.3	39.6	2.4	2.7	2.2	2.6	-
Jewelry, silverware, and plated ware	391	37.4	38.5	36.5	37.7	-	1.6	2.5	1.4	1.9	-
Jewelry, precious metal	3911	36.0	37.3	35.9	37.2	-	1.0	2.0	1.3	1.9	-
Musical instruments	393	40.0	40.3	37.8	39.1	-	2.2	2.4	1.2	2.2	-
Toys and sporting goods	394	39.4	39.1	38.5	39.3	-	2.2	2.3	2.0	2.8	-
Dolls, games, toys, and children's vehicles	3942,4	38.2	38.9	37.6	38.5	-	1.7	2.2	1.1	1.7	-
Sporting and athletic goods, nec	3949	40.4	39.2	39.1	39.9	-	2.7	2.3	2.5	3.5	-
Pens, pencils, office, and art supplies	395	39.6	39.3	39.7	40.2	-	2.6	2.6	2.3	2.2	-
Costume jewelry and notions	396	36.9	38.2	37.9	39.6	-	1.8	2.6	2.7	3.1	-
Costume jewelry	3961	34.9	35.8	37.6	39.6	-	.9	2.1	3.2	3.6	-
Miscellaneous manufactures	399	39.7	40.1	39.5	39.6	-	2.9	3.2	2.5	2.7	-
Signs and advertising displays	3993	39.5	40.2	39.5	39.9	-	2.9	3.4	2.5	3.0	-
Nondurable goods		40.2	40.5	40.0	40.2	40.5	3.8	4.1	3.7	3.8	4.1
Food and kindred products	20	40.8	40.8	40.9	41.1	41.2	4.8	5.0	4.8	5.0	-
Meat products	201	40.6	41.4	41.0	40.9	-	4.3	5.0	4.6	4.6	-
Meat packing plants	2011	41.9	43.1	41.1	41.5	-	5.4	6.4	5.4	5.5	-
Sausages and other prepared meats	2013	41.4	41.8	41.6	41.6	-	4.9	5.4	4.8	5.1	-
Poultry dressing plants	2016	39.2	39.8	40.8	40.2	-	3.1	3.6	4.0	3.7	-
Dairy products	202	40.8	41.4	41.3	40.5	-	4.2	4.7	4.6	4.3	-
Cheese, natural and processed	2022	39.2	40.1	39.7	38.9	-	3.5	4.3	3.6	3.4	-
Fluid milk	2026	41.9	42.8	42.0	41.4	-	4.9	5.4	5.0	4.7	-
Preserved fruits and vegetables	203	41.1	39.7	40.5	41.4	-	6.4	5.3	5.5	6.3	-
Canned specialties	2032	43.5	43.4	41.5	44.7	-	7.5	7.7	4.7	7.4	-
Canned fruits and vegetables	2033	41.8	38.6	42.2	42.0	-	7.9	5.8	7.1	7.2	-
Frozen fruits and vegetables	2037	39.9	39.3	37.7	39.8	-	5.4	5.1	4.4	6.2	-
Grain mill products	204	44.7	45.7	44.3	44.1	-	6.4	7.6	6.0	6.1	-
Flour and other grain mill products	2041	47.1	49.0	45.9	47.2	-	7.4	8.7	6.5	8.1	-
Prepared feeds, nec	2048	43.1	43.8	43.8	43.0	-	6.1	6.8	6.6	6.3	-
Bakery products	205	40.2	40.5	39.5	39.7	-	4.1	4.6	4.3	4.4	-
Bread, cake, and related products	2051	39.1	39.4	39.1	39.0	-	4.0	4.5	4.5	4.5	-
Cookies and crackers	2052	42.9	43.4	40.4	41.5	-	4.3	4.7	3.6	4.1	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P
Durable goods—Continued											
Transportation equipment	37	\$13.21	\$13.44	\$13.61	\$13.70	\$13.83	\$552.18	\$577.92	\$566.18	\$569.92	\$590.54
Motor vehicles and equipment	371	13.83	14.10	14.07	14.21	14.42	583.63	621.81	582.50	588.29	630.15
Motor vehicles and car bodies	3711	16.07	16.14	16.53	16.55	-	663.69	721.46	677.73	668.62	-
Truck and bus bodies	3713	11.65	12.11	11.81	11.98	-	489.30	514.68	507.83	517.54	-
Motor vehicle parts and accessories	3714	13.02	13.20	13.05	13.13	-	559.86	580.80	544.19	556.71	-
Truck trailers	3715	9.20	9.19	9.37	9.41	-	367.08	374.03	355.12	370.75	-
Aircraft and parts	372	13.63	13.77	14.27	14.30	-	567.01	585.23	607.90	612.04	-
Aircraft	3721	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.87	\$13.99	\$14.60	\$14.57	-	\$578.38	\$593.18	\$613.20	\$614.85	-
Aircraft equipment, nec	3728	12.59	12.65	13.00	13.00	-	531.30	541.42	553.80	559.00	-
Ship and boat building and repairing	373	10.18	10.32	10.73	10.58	-	412.29	410.74	428.13	418.97	-
Ship building and repairing	3731	11.49	11.60	11.72	11.51	-	469.94	465.16	481.69	458.10	-
Boat building and repairing	3732	8.26	8.55	9.05	9.03	-	328.75	337.73	343.00	353.07	-
Railroad equipment	374	12.06	12.24	12.68	12.76	-	511.34	518.98	561.72	543.58	-
Guided missiles, space vehicles, and parts	376	13.20	13.17	13.72	13.77	-	567.60	572.90	580.36	587.98	-
Guided missiles and space vehicles	3761	(¹)	(¹)	(¹)	(¹)	-	-	-	-	-	-
Miscellaneous transportation equipment	379	\$10.05	\$10.13	\$10.29	\$10.48	-	\$396.98	\$409.25	\$404.40	\$408.72	-
Travel trailers and campers	3792	8.58	8.67	8.83	9.34	-	332.90	332.06	346.14	353.05	-
Instruments and related products	38	9.94	9.99	10.31	10.28	10.33	409.53	415.58	420.65	418.40	421.46
Engineering and scientific instruments	381	11.19	11.29	11.48	11.43	-	462.15	475.31	481.01	470.92	-
Measuring and controlling devices	382	9.67	9.71	10.05	10.06	-	396.47	404.91	408.03	407.43	-
Environmental controls	3822	9.30	9.24	9.32	9.24	-	366.42	370.52	362.55	362.21	-
Process control instruments	3823	9.33	9.44	9.70	9.71	-	404.92	409.70	404.49	406.85	-
Instruments to measure electricity	3825	9.77	9.81	10.34	10.39	-	393.73	402.21	428.08	417.68	-
Optical instruments and lenses	383	10.84	11.04	11.39	11.43	-	463.95	487.97	482.94	488.06	-
Medical instruments and supplies	384	8.97	9.00	9.30	9.34	-	363.29	367.20	370.14	374.53	-
Surgical and medical instruments	3841	9.23	9.24	9.43	9.58	-	367.35	375.14	375.31	383.20	-
Surgical appliances and supplies	3842	8.68	8.71	9.15	9.06	-	355.88	355.37	360.51	360.59	-
Ophthalmic goods	385	7.60	7.60	7.81	7.77	-	302.48	303.24	310.06	307.69	-
Photographic equipment and supplies	386	13.25	13.46	13.63	13.52	-	581.68	581.47	591.54	574.60	-
Watches, clocks, and watchcases	387	7.24	7.34	7.46	7.34	-	293.94	305.34	299.89	288.46	-
Miscellaneous manufacturing	39	7.95	8.01	8.29	8.19	8.35	310.05	314.79	319.99	321.87	330.66
Jewelry, silverware, and plated ware	391	8.53	8.56	9.01	8.96	-	319.02	329.56	328.87	337.79	-
Jewelry, precious metal	3911	8.62	8.62	9.06	9.00	-	310.32	321.53	325.25	334.80	-
Musical instruments	393	7.97	8.06	8.26	8.17	-	318.80	324.82	312.23	319.45	-
Toys and sporting goods	394	7.21	7.22	7.51	7.53	-	284.07	282.30	289.14	295.93	-
Dolls, games, toys, and children's vehicles	3942,4	6.96	6.96	7.39	7.23	-	265.87	270.74	277.86	278.36	-
Sporting and athletic goods, nec	3949	7.39	7.42	7.58	7.76	-	298.56	290.86	296.38	309.62	-
Pens, pencils, office, and art supplies	395	7.89	7.94	8.07	8.03	-	312.44	312.04	320.38	322.81	-
Costume jewelry and notions	396	6.77	6.85	7.03	6.87	-	249.81	261.67	266.44	272.05	-
Costume jewelry	3961	6.31	6.51	6.55	6.32	-	220.22	233.06	246.28	250.27	-
Miscellaneous manufactures	399	8.70	8.80	9.08	8.97	-	345.39	352.88	358.66	355.21	-
Signs and advertising displays	3993	9.03	9.20	9.36	9.45	-	356.69	369.84	369.72	377.06	-
Nondurable goods		9.41	9.50	9.77	9.71	9.80	378.28	384.75	390.80	390.34	396.90
Food and kindred products	20	9.02	9.11	9.35	9.27	9.32	368.02	371.69	382.42	381.00	383.98
Meat products	201	7.56	7.65	7.78	7.75	-	306.94	316.71	318.98	316.98	-
Meat packing plants	2011	8.47	8.57	8.73	8.65	-	354.89	369.37	358.80	358.98	-
Sausages and other prepared meats	2013	8.98	9.03	9.24	9.18	-	371.77	377.45	384.38	381.89	-
Poultry dressing plants	2016	6.31	6.38	6.57	6.59	-	247.35	253.92	268.06	264.92	-
Dairy products	202	9.81	9.99	10.20	10.12	-	400.25	413.59	421.26	409.86	-
Cheese, natural and processed	2022	9.17	9.32	9.48	9.49	-	359.46	373.73	376.36	369.16	-
Fluid milk	2026	10.25	10.42	10.66	10.54	-	429.48	445.98	447.72	436.36	-
Preserved fruits and vegetables	203	8.24	8.24	8.66	8.51	-	338.66	327.13	350.73	352.31	-
Canned specialties	2032	10.28	10.27	10.58	10.43	-	447.18	445.72	439.07	466.22	-
Canned fruits and vegetables	2033	8.41	8.32	8.88	8.66	-	351.54	321.15	374.74	363.72	-
Frozen fruits and vegetables	2037	7.31	7.35	7.67	7.42	-	291.67	288.86	289.16	295.32	-
Grain mill products	204	11.18	11.20	11.30	11.32	-	499.75	511.84	500.59	499.21	-
Flour and other grain mill products	2041	11.06	11.01	10.96	11.22	-	520.93	539.49	503.06	529.58	-
Prepared feeds, nec	2048	8.68	8.71	8.80	8.88	-	374.11	381.50	385.44	381.84	-
Bakery products	205	10.29	10.37	10.54	10.56	-	413.66	419.99	416.33	419.23	-
Bread, cake, and related products	2051	10.21	10.28	10.52	10.53	-	399.21	405.03	411.33	410.67	-
Cookies and crackers	2052	10.46	10.56	10.59	10.64	-	448.73	458.30	427.84	441.56	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.8	40.9	41.0	41.6	-	3.6	4.4	3.7	4.5	-
Cane and beet sugar	2061-3	41.5	41.0	44.2	43.9	-	5.3	6.0	5.9	6.2	-
Confectionery products	2065	40.0	40.3	39.6	40.5	-	3.0	3.9	3.0	4.1	-
Fats and oils	207	42.0	43.0	43.2	43.6	-	5.2	5.9	5.4	5.9	-
Beverages	208	41.0	40.3	42.3	41.4	-	4.2	4.0	4.8	4.2	-
Malt beverages	2082	43.0	42.6	44.8	43.0	-	5.7	5.6	7.2	6.1	-
Bottled and canned soft drinks	2086	41.3	38.8	42.1	41.1	-	4.3	2.8	4.5	3.5	-
Misc. food and kindred products	209	38.5	37.7	38.9	39.5	-	4.4	4.0	4.6	4.7	-
Tobacco manufactures	21	40.1	41.2	37.9	37.3	39.6	2.6	2.6	1.3	1.3	-
Cigarettes	211	41.3	41.3	38.2	37.8	-	2.9	2.7	1.3	1.2	-
Textile mill products	22	41.3	41.4	40.6	41.3	41.1	4.1	4.3	4.0	4.3	-
Weaving mills, cotton	221	41.1	41.4	41.5	42.3	-	4.2	4.6	5.0	5.1	-
Weaving mills, synthetics	222	42.4	42.4	40.7	41.3	-	4.8	4.7	3.9	4.2	-
Weaving and finishing mills, wool	223	42.4	42.7	41.4	41.0	-	4.0	3.5	3.3	2.9	-
Narrow fabric mills	224	41.1	42.5	40.5	41.3	-	3.9	4.2	2.9	3.5	-
Knitting mills	225	40.1	39.8	39.7	40.2	-	3.3	3.6	3.7	3.9	-
Women's hosiery, except socks	2251	38.6	38.1	36.5	38.4	-	2.7	2.8	2.3	2.4	-
Hosiery, nec	2252	39.6	38.8	39.8	40.1	-	2.8	2.6	3.6	3.8	-
Knit outerwear mills	2253	40.0	40.1	40.2	39.5	-	3.2	4.4	3.9	4.2	-
Knit underwear mills	2254	39.6	39.7	38.7	40.4	-	2.6	2.2	2.0	2.4	-
Circular knit fabric mills	2257	41.0	40.8	41.8	42.4	-	4.4	4.6	5.1	5.2	-
Textile finishing, except wool	226	42.2	42.6	41.5	41.9	-	5.0	5.2	4.4	4.7	-
Finishing plants, cotton	2261	43.1	43.5	42.6	42.7	-	5.0	5.2	4.8	4.8	-
Finishing plants, synthetics	2262	41.8	42.9	40.0	41.0	-	5.5	5.5	3.8	4.5	-
Floor covering mills	227	43.4	44.0	40.7	43.3	-	4.8	5.0	4.0	4.8	-
Yarn and thread mills	228	40.5	40.6	40.1	40.9	-	4.1	4.1	3.8	4.2	-
Yarn mills, except wool	2281	41.1	41.1	40.4	41.5	-	4.4	4.3	4.0	4.5	-
Throwing and winding mills	2282	37.8	38.1	37.7	37.2	-	2.4	2.9	2.4	2.3	-
Miscellaneous textile goods	229	42.2	42.5	41.5	42.0	-	4.3	4.8	3.8	4.1	-
Apparel and other textile products	23	37.0	37.1	36.7	37.1	37.1	1.8	1.9	1.6	1.9	-
Men's and boys' suits and coats	231	36.4	36.9	36.4	34.8	-	1.2	1.5	.9	1.1	-
Men's and boys' furnishings	232	36.5	36.6	37.2	37.4	-	1.4	1.5	1.5	1.8	-
Men's and boys' shirts and nightwear	2321	37.0	37.2	37.8	38.3	-	1.2	1.4	1.3	1.7	-
Men's and boys' separate trousers	2327	36.6	36.4	36.8	35.6	-	1.4	1.1	1.7	1.5	-
Men's and boys' work clothing	2328	35.2	34.9	37.0	36.6	-	1.3	1.4	1.5	1.9	-
Women's and misses' outerwear	233	35.8	35.5	35.2	35.5	-	1.6	1.5	1.3	1.6	-
Women's and misses' blouses and waists	2331	36.1	35.9	35.2	35.2	-	1.2	1.2	.8	1.1	-
Women's and misses' dresses	2335	35.3	35.1	34.5	34.8	-	1.5	1.6	1.4	1.7	-
Women's and misses' suits and coats	2337	36.9	36.2	36.7	36.8	-	2.4	2.2	2.1	2.3	-
Women's and misses' outerwear, nec	2339	35.6	35.4	35.1	35.5	-	1.5	1.5	1.3	1.6	-
Women's and children's undergarments	234	38.5	37.8	36.9	37.5	-	1.8	1.8	1.2	1.5	-
Women's and children's underwear	2341	39.4	38.5	37.6	38.1	-	1.9	1.8	1.3	1.6	-
Brassieres and allied garments	2342	33.9	34.4	33.3	34.3	-	1.1	1.6	.5	.7	-
Children's outerwear	236	36.7	37.1	37.3	37.0	-	1.7	1.8	1.9	1.9	-
Children's dresses and blouses	2361	35.7	36.8	36.7	36.0	-	1.4	1.7	1.7	1.5	-
Misc. apparel and accessories	238	38.2	38.8	38.2	38.1	-	2.3	2.5	1.7	2.1	-
Misc. fabricated textile products	239	39.1	39.7	38.1	39.5	-	2.8	3.4	2.2	2.9	-
Curtains and draperies	2391	37.0	37.5	35.0	37.1	-	1.2	1.5	2.1	1.7	-
House furnishings, nec	2392	39.2	40.2	39.4	40.1	-	2.7	3.7	2.7	3.3	-
Automotive and apparel trimmings	2396	41.5	43.1	37.8	40.5	-	5.6	6.1	1.9	3.9	-
Paper and allied products	26	42.9	43.7	42.9	43.1	43.7	4.9	5.6	5.2	5.0	-
Paper and pulp mills	261,2,6	44.6	45.8	44.6	44.6	-	5.8	6.7	6.3	6.0	-
Paper mills, except building paper	262	44.6	45.9	44.9	45.0	-	5.8	6.8	6.5	6.2	-
Paperboard mills	263	43.6	44.4	44.7	44.9	-	7.2	7.4	7.6	7.3	-
Misc. converted paper products	264	41.5	42.1	41.5	41.7	-	3.9	4.7	3.9	3.9	-
Paper coating and glazing	2641	43.0	43.7	43.5	43.5	-	3.8	4.8	4.0	3.7	-
Envelopes	2642	41.0	41.3	39.6	41.3	-	3.3	3.8	2.4	3.2	-
Bags, except textile bags	2643	41.8	42.3	41.8	41.4	-	4.5	5.1	4.4	4.4	-
Paperboard containers and boxes	265	42.6	43.4	42.4	42.9	-	4.6	5.3	4.8	4.7	-
Folding paperboard boxes	2651	42.6	42.9	41.6	42.6	-	4.2	5.1	4.5	4.5	-
Corrugated and solid fiber boxes	2653	43.2	44.2	43.2	43.6	-	5.1	5.8	5.2	5.2	-
Sanitary food containers	2654	42.1	43.0	43.0	42.5	-	4.3	4.6	5.4	4.7	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.49	\$9.52	\$10.01	\$10.00	-	\$387.19	\$389.37	\$410.41	\$416.00	-
Cane and beet sugar	2061-3	11.45	11.33	11.63	11.79	-	475.18	464.53	514.05	517.58	-
Confectionery products	2065	8.27	8.36	8.90	8.90	-	330.80	336.91	352.44	360.45	-
Fats and oils	207	9.55	9.49	10.01	10.06	-	401.10	408.07	432.43	438.62	-
Beverages	208	12.22	12.33	12.93	12.83	-	501.02	496.90	546.94	531.16	-
Malt beverages	2082	16.93	17.18	18.06	18.00	-	727.99	731.87	809.09	774.00	-
Bottled and canned soft drinks	2086	9.78	9.72	10.31	10.26	-	403.91	377.14	434.05	421.69	-
Misc. food and kindred products	209	8.41	8.64	8.76	8.72	-	323.79	325.73	340.76	344.44	-
Tobacco manufactures	21	14.97	14.09	16.34	15.61	\$14.21	600.30	580.51	619.29	582.25	\$562.72
Cigarettes	211	17.39	17.40	18.40	18.54	-	718.21	718.62	702.88	700.81	-
Textile mill products	22	7.37	7.43	7.66	7.70	7.76	304.38	307.60	311.00	318.01	318.94
Weaving mills, cotton	221	7.66	7.73	8.06	8.04	-	314.83	320.02	334.49	340.09	-
Weaving mills, synthetics	222	7.92	8.02	8.27	8.34	-	335.81	340.05	336.59	344.44	-
Weaving and finishing mills, wool	223	8.02	8.03	8.44	8.52	-	340.05	342.88	349.42	349.32	-
Narrow fabric mills	224	6.84	6.86	7.11	7.15	-	281.12	291.55	287.96	295.30	-
Knitting mills	225	6.68	6.69	6.91	7.01	-	267.87	266.26	274.33	281.80	-
Women's hosiery, except socks	2251	6.57	6.64	6.80	6.76	-	253.60	252.98	248.20	259.58	-
Hosiery, nec	2252	6.44	6.48	6.73	6.77	-	255.02	251.42	267.85	271.48	-
Knit outerwear mills	2253	6.42	6.37	6.55	6.75	-	256.80	255.44	263.31	266.63	-
Knit underwear mills	2254	6.49	6.51	6.87	6.93	-	257.00	258.45	265.87	279.97	-
Circular knit fabric mills	2257	7.45	7.47	7.73	7.75	-	305.45	304.78	323.11	328.60	-
Textile finishing, except wool	226	7.83	7.86	8.03	8.07	-	330.43	334.84	333.25	338.13	-
Finishing plants, cotton	2261	7.88	7.85	8.07	8.06	-	339.63	341.48	343.78	344.16	-
Finishing plants, synthetics	2262	8.12	8.14	8.35	8.46	-	339.42	349.21	334.00	346.86	-
Floor covering mills	227	7.76	7.77	8.05	7.93	-	336.78	341.88	327.64	343.37	-
Yarn and thread mills	228	7.05	7.14	7.36	7.42	-	285.53	289.88	295.14	303.48	-
Yarn mills, except wool	2281	7.01	7.12	7.36	7.42	-	288.11	292.63	297.34	307.93	-
Throwing and winding mills	2282	7.32	7.34	7.46	7.52	-	276.70	279.65	281.24	279.74	-
Miscellaneous textile goods	229	8.35	8.46	8.56	8.65	-	352.37	359.55	355.24	363.30	-
Apparel and other textile products	23	6.09	6.21	6.28	6.32	6.40	225.33	230.39	230.48	234.47	237.44
Men's and boys' suits and coats	231	6.74	6.84	7.13	7.08	-	245.34	252.40	259.53	246.38	-
Men's and boys' furnishings	232	5.58	5.66	5.77	5.81	-	203.67	207.16	214.64	217.29	-
Men's and boys' shirts and nightwear	2321	5.40	5.54	5.58	5.70	-	199.80	206.09	210.92	218.31	-
Men's and boys' separate trousers	2327	5.46	5.46	5.62	5.56	-	199.84	198.74	206.82	197.94	-
Men's and boys' work clothing	2328	5.61	5.68	5.78	5.73	-	197.47	198.23	213.86	209.72	-
Women's and misses' outerwear	233	5.89	5.96	6.07	6.10	-	210.86	211.58	213.66	216.55	-
Women's and misses' blouses and waists	2331	5.11	5.18	5.25	5.30	-	184.47	185.96	184.80	186.56	-
Women's and misses' dresses	2335	6.27	6.37	6.59	6.56	-	221.33	223.59	227.36	228.29	-
Women's and misses' suits and coats	2337	6.52	6.64	6.56	6.52	-	240.59	240.37	240.75	239.94	-
Women's and misses' outerwear, nec	2339	5.78	5.83	5.96	5.99	-	205.77	206.38	209.20	212.65	-
Women's and children's undergarments	234	5.65	5.71	5.92	5.89	-	217.53	215.84	218.45	220.88	-
Women's and children's underwear	2341	5.55	5.58	5.80	5.79	-	218.67	214.83	218.08	220.60	-
Brassieres and allied garments	2342	6.27	6.46	6.64	6.47	-	212.55	222.22	221.11	221.92	-
Children's outerwear	236	5.47	5.58	5.65	5.68	-	200.75	207.02	210.75	210.16	-
Children's dresses and blouses	2361	5.49	5.57	5.67	5.64	-	195.99	204.98	208.09	203.04	-
Misc. apparel and accessories	238	6.01	6.03	6.05	6.21	-	229.58	233.96	231.11	236.60	-
Misc. fabricated textile products	239	7.26	7.52	7.40	7.50	-	283.87	298.54	281.94	296.25	-
Curtains and draperies	2391	5.99	6.04	6.34	6.31	-	221.63	226.50	221.90	234.10	-
House furnishings, nec	2392	6.24	6.35	6.48	6.48	-	244.61	255.27	255.31	259.85	-
Automotive and apparel trimmings	2396	11.04	11.57	11.07	11.43	-	458.16	498.67	418.45	462.92	-
Paper and allied products	26	11.65	11.72	12.04	11.92	12.01	499.79	512.16	516.52	513.75	524.84
Paper and pulp mills	261,2,6	14.31	14.49	14.88	14.66	-	638.23	663.64	663.65	653.84	-
Paper mills, except building paper	262	14.34	14.50	14.91	14.68	-	639.56	665.55	669.46	660.60	-
Paperboard mills	263	14.48	14.53	14.82	14.77	-	631.33	645.13	662.45	663.17	-
Misc. converted paper products	264	10.08	10.10	10.47	10.42	-	418.32	425.21	434.51	434.51	-
Paper coating and glazing	2641	11.23	11.40	11.59	11.54	-	482.89	498.18	504.17	501.99	-
Envelopes	2642	9.57	9.66	9.85	9.79	-	392.37	398.96	390.06	404.33	-
Bags, except textile bags	2643	9.39	9.41	9.73	9.72	-	392.50	398.04	406.71	402.41	-
Paperboard containers and boxes	265	9.99	10.08	10.20	10.14	-	425.57	437.47	432.48	435.01	-
Folding paperboard boxes	2651	10.28	10.42	10.64	10.55	-	437.93	447.02	442.62	449.43	-
Corrugated and solid fiber boxes	2653	10.21	10.27	10.39	10.34	-	441.07	453.93	448.85	450.82	-
Sanitary food containers	2654	9.65	9.81	9.86	9.92	-	406.27	421.83	423.98	421.60	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ²	Sept. 1989 ²	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ²	Sept. 1989 ²
Nondurable goods—Continued											
Printing and publishing	27	38.1	38.5	37.4	37.8	38.3	3.2	3.6	2.7	3.0	-
Newspapers	271	33.5	33.6	33.1	33.1	-	1.4	1.6	1.2	1.3	-
Periodicals	272	38.3	39.3	37.1	37.7	-	3.3	4.3	2.3	2.8	-
Books	273	39.6	39.0	38.7	39.0	-	3.7	3.8	2.8	3.0	-
Book publishing	2731	38.1	37.8	38.0	38.0	-	2.4	2.4	2.2	2.1	-
Book printing	2732	41.9	40.7	39.7	40.4	-	5.7	5.9	3.7	4.4	-
Miscellaneous publishing	274	36.3	36.3	36.3	36.3	-	2.0	2.6	1.9	1.8	-
Commercial printing	275	39.6	40.2	38.6	39.3	-	3.7	4.3	3.1	3.6	-
Commercial printing, letterpress	2751	39.6	39.9	38.6	39.1	-	3.4	3.8	2.8	3.0	-
Commercial printing, lithographic	2752	39.4	40.2	38.6	39.3	-	3.8	4.4	3.2	3.8	-
Manifold business forms	276	41.7	40.8	41.3	40.9	-	4.4	3.8	4.0	3.8	-
Blankbooks and bookbinding	278	38.9	39.8	37.8	37.8	-	3.3	4.0	2.8	3.0	-
Printing trade services	279	39.0	38.9	38.6	39.4	-	4.7	5.1	3.9	4.4	-
Chemicals and allied products	28	41.9	42.3	42.2	42.0	42.7	4.0	4.3	4.3	4.2	-
Industrial inorganic chemicals	281	42.5	42.8	43.0	42.8	-	4.2	4.4	4.4	4.5	-
Industrial inorganic chemicals, nec	2819	42.7	43.0	42.5	42.2	-	4.3	4.5	4.3	4.3	-
Plastics materials and synthetics	282	43.0	43.7	43.4	42.6	-	4.7	5.1	5.2	4.8	-
Plastics materials and resins	2821	43.6	43.9	43.6	43.0	-	5.2	5.3	5.2	5.2	-
Organic fibers, noncellulosic	2824	42.9	43.6	43.6	42.5	-	4.3	5.0	5.2	4.4	-
Drugs	283	40.3	40.9	40.7	41.0	-	2.9	3.1	3.2	3.6	-
Pharmaceutical preparations	2834	40.2	40.5	40.3	40.7	-	2.9	3.2	3.1	3.5	-
Soap, cleaners, and toilet goods	284	40.3	40.4	39.4	40.1	-	3.4	3.7	2.8	3.0	-
Soap and other detergents	2841	43.3	44.2	42.2	42.9	-	4.9	5.5	5.1	4.9	-
Polishing, sanitation, and finishing preparations	2842,3	40.8	40.7	40.6	41.0	-	3.0	3.1	3.0	3.0	-
Toilet preparations	2844	38.5	38.4	37.2	38.1	-	2.8	3.0	1.5	2.0	-
Paints and allied products	285	41.5	41.8	41.4	41.6	-	3.7	3.9	3.9	4.1	-
Industrial organic chemicals	286	43.3	44.4	44.8	43.6	-	4.9	5.7	5.9	5.5	-
Cyclic crudes and intermediates	2865	41.4	42.4	43.5	43.0	-	4.7	5.3	5.9	5.7	-
Gum, wood, and industrial organic chemicals, nec	2861,9	43.8	45.0	45.1	43.8	-	5.0	5.8	5.9	5.4	-
Agricultural chemicals	287	42.5	43.0	43.3	42.5	-	4.6	5.0	4.7	4.4	-
Miscellaneous chemical products	289	42.0	42.1	42.4	42.4	-	3.8	4.0	4.0	4.0	-
Petroleum and coal products	29	44.6	44.8	44.3	43.7	44.1	5.7	5.9	5.7	5.7	-
Petroleum refining	291	44.3	44.6	44.2	42.9	-	5.1	5.3	5.0	4.8	-
Paving and roofing materials	295	47.1	46.5	46.2	47.6	-	8.7	8.6	8.9	9.9	-
Rubber and misc. plastics products	30	41.3	41.7	40.8	41.1	41.5	4.2	4.4	3.8	3.9	-
Tires and inner tubes	301	45.1	44.7	42.7	42.6	-	7.0	6.4	5.2	5.5	-
Rubber and plastics footwear	302	40.0	40.2	42.0	40.0	-	2.6	2.2	2.6	2.9	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	44.5	43.9	41.7	42.2	-	4.7	4.1	3.9	3.9	-
Fabricated rubber products, nec	306	41.0	41.5	40.1	40.8	-	3.4	3.8	3.0	3.4	-
Miscellaneous plastics products	307	40.8	41.3	40.6	40.9	-	4.0	4.4	3.8	3.8	-
Leather and leather products	31	37.7	37.5	37.8	38.5	38.3	2.1	2.2	1.9	1.9	-
Leather tanning and finishing	311	41.2	40.5	40.1	42.1	-	3.8	3.5	4.3	4.9	-
Footwear, except rubber	314	37.3	37.1	37.6	37.7	-	1.9	1.9	1.5	1.5	-
Men's footwear, except athletic	3143	37.3	38.0	37.6	37.8	-	1.1	1.5	1.0	.9	-
Women's footwear, except athletic	3144	37.1	35.6	37.8	37.7	-	2.8	2.2	2.2	2.1	-
Luggage	316	39.8	38.7	39.4	40.2	-	3.6	3.8	3.2	2.5	-
Handbags and personal leather goods	317	36.5	36.7	36.3	37.9	-	1.7	2.2	1.5	2.1	-
Transportation and public utilities		39.7	39.5	39.8	39.3	39.4	-	-	-	-	-
Railroad transportation:											
Class I railroads ³	4011	45.1	45.3	44.1	44.0	-	-	-	-	-	-
Local and interurban passenger transit	41	36.7	34.4	36.5	36.0	-	-	-	-	-	-
Local and suburban transportation	411	39.3	38.4	39.0	39.0	-	-	-	-	-	-
Intercity highway transportation	413	40.9	40.4	40.0	40.2	-	-	-	-	-	-
Trucking and warehousing	42	38.6	38.5	38.6	38.8	-	-	-	-	-	-
Trucking and trucking terminals	421,3	38.6	38.5	38.6	38.8	-	-	-	-	-	-
Public warehousing	422	39.3	38.7	39.1	39.3	-	-	-	-	-	-
Pipe lines, except natural gas	46	40.0	42.8	41.2	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. 1988	Sept. 1988	July 1989	Aug. 1989 ²	Sept. 1989 ²	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ²	Sept. 1989 ²
Nondurable goods—Continued											
Printing and publishing	27	\$10.54	\$10.70	\$10.83	\$10.90	\$11.04	\$401.57	\$411.95	\$405.04	\$412.02	\$422.83
Newspapers	271	10.46	10.63	10.85	10.80	-	350.41	357.17	359.14	357.48	-
Periodicals	272	11.13	11.24	11.43	11.62	-	426.28	441.73	424.05	438.07	-
Books	273	9.53	9.73	9.64	9.64	-	377.39	379.47	373.07	375.96	-
Book publishing	2731	9.12	9.44	9.24	9.12	-	347.47	356.83	351.12	346.56	-
Book printing	2732	10.10	10.12	10.23	10.40	-	423.19	411.88	406.13	420.16	-
Miscellaneous publishing	274	9.95	10.05	10.21	9.99	-	361.19	364.82	370.62	362.64	-
Commercial printing	275	10.79	10.97	11.07	11.21	-	427.28	440.99	427.30	440.55	-
Commercial printing, letterpress	2751	10.25	10.42	10.63	10.76	-	405.90	415.76	410.32	420.72	-
Commercial printing, lithographic	2752	10.98	11.17	11.23	11.37	-	432.61	449.03	433.48	446.84	-
Manifold business forms	276	11.09	11.02	11.43	11.38	-	462.45	449.62	472.06	465.44	-
Blankbooks and bookbinding	278	8.43	8.49	8.63	8.70	-	327.93	337.90	326.21	328.86	-
Printing trade services	279	12.96	13.14	13.40	13.42	-	505.44	511.15	517.24	528.75	-
Chemicals and allied products	28	12.62	12.75	13.12	13.09	13.15	528.78	539.33	553.66	549.78	561.51
Industrial inorganic chemicals	281	13.99	14.03	14.22	14.28	-	594.58	600.48	611.46	611.18	-
Industrial inorganic chemicals, nec	2819	14.06	14.12	14.28	14.40	-	600.36	607.16	606.90	607.68	-
Plastics materials and synthetics	282	13.01	13.16	13.43	13.38	-	559.43	575.09	582.86	569.99	-
Plastics materials and resins	2821	13.85	14.07	14.27	14.22	-	603.86	617.67	622.17	611.46	-
Organic fibers, noncellulosic	2824	12.30	12.45	12.80	12.72	-	527.67	542.82	558.08	540.60	-
Drugs	283	12.02	12.13	12.44	12.54	-	484.41	496.12	506.31	514.14	-
Pharmaceutical preparations	2834	11.76	11.92	12.38	12.51	-	472.75	482.76	498.91	509.16	-
Soap, cleaners, and toilet goods	284	10.90	10.99	11.33	11.24	-	439.27	444.00	446.40	450.72	-
Soap and other detergents	2841	14.47	14.73	15.18	15.23	-	626.55	651.07	640.60	653.37	-
Polishing, sanitation, and finishing preparations	2842,3	10.34	10.30	10.32	10.28	-	421.87	419.21	418.99	421.48	-
Toilet preparations	2844	9.07	9.13	9.42	9.26	-	349.20	350.59	350.42	352.81	-
Paints and allied products	285	11.13	11.34	11.61	11.70	-	461.90	474.01	480.65	486.72	-
Industrial organic chemicals	286	15.04	15.22	15.85	15.61	-	651.23	675.77	710.08	680.60	-
Cyclic crudes and intermediates	2865	14.68	14.80	15.72	15.62	-	607.75	627.52	683.82	671.66	-
Gum, wood, and industrial organic chemicals, nec	2861,9	15.14	15.33	15.88	15.61	-	663.13	689.85	716.19	683.72	-
Agricultural chemicals	287	12.39	12.59	12.73	12.98	-	526.58	541.37	551.21	551.65	-
Miscellaneous chemical products	289	11.54	11.59	11.95	11.96	-	484.68	487.94	506.68	507.10	-
Petroleum and coal products	29	14.84	15.01	15.34	15.25	15.45	661.86	672.45	679.56	666.43	681.35
Petroleum refining	291	16.11	16.27	16.56	16.46	-	713.67	725.64	731.95	706.13	-
Paving and roofing materials	295	11.58	11.84	12.27	12.46	-	545.42	550.56	566.87	593.10	-
Rubber and misc. plastics products	30	9.17	9.22	9.45	9.44	9.51	378.72	384.47	385.56	387.98	394.67
Tires and inner tubes	301	14.42	14.39	14.99	15.03	-	650.34	643.23	640.07	640.28	-
Rubber and plastics footwear	302	6.37	6.37	6.51	6.55	-	254.80	256.07	273.42	262.00	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	9.26	9.22	9.58	9.63	-	412.07	404.76	399.49	406.39	-
Fabricated rubber products, nec	306	8.74	8.78	8.94	8.94	-	358.34	364.37	358.49	364.75	-
Miscellaneous plastics products	307	8.55	8.64	8.79	8.77	-	348.84	356.83	356.87	358.69	-
Leather and leather products	31	6.22	6.30	6.54	6.54	6.60	234.49	236.25	247.21	251.79	252.78
Leather tanning and finishing	311	8.35	8.44	8.74	8.81	-	344.02	341.82	350.47	370.90	-
Footwear, except rubber	314	5.94	6.02	6.21	6.24	-	221.56	223.34	233.50	235.25	-
Men's footwear, except athletic	3143	6.26	6.37	6.68	6.66	-	233.50	242.06	251.17	251.75	-
Women's footwear, except athletic	3144	5.69	5.77	5.86	5.96	-	211.10	205.41	221.51	224.69	-
Luggage	316	6.27	6.32	6.56	6.49	-	249.55	244.58	258.46	260.90	-
Handbags and personal leather goods	317	5.84	5.91	6.12	5.98	-	213.16	216.90	222.16	226.64	-
Transportation and public utilities		12.35	12.40	12.58	12.50	12.67	490.30	489.80	500.68	491.25	499.20
Railroad transportation:											
Class I railroads ²	4011	14.87	15.03	15.45	15.35	-	670.64	680.86	681.35	675.40	-
Local and interurban passenger transit	41	8.62	8.57	9.04	9.07	-	316.35	294.81	329.96	326.52	-
Local and suburban transportation	411	9.15	9.12	9.72	9.66	-	359.60	350.21	379.08	376.74	-
Intercity highway transportation	413	11.23	11.36	11.57	11.73	-	459.31	458.94	462.80	471.55	-
Trucking and warehousing	42	10.93	11.03	11.30	11.38	-	421.90	424.66	436.18	441.54	-
Trucking and trucking terminals	421,3	11.09	11.20	11.45	11.55	-	428.07	431.20	441.97	448.14	-
Public warehousing	422	8.83	8.80	9.27	9.14	-	347.02	340.56	362.46	359.20	-
Pipe lines, except natural gas	46	15.42	15.66	15.94	15.76	-	616.80	670.25	656.73	628.82	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ²	Sept. 1989 ²	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ²	Sept. 1989 ²
Transportation and public utilities—Continued											
Communication	48	40.2	40.1	40.2	39.2		-				
Telephone communication	481	41.9	41.8	42.0	40.9			-			
Radio and television broadcasting	483	35.5	35.8	35.6	35.1						
Electric, gas, and sanitary services	49	41.4	41.6	41.9	41.7						
Electric services	491	41.7	41.6	42.4	41.9						
Gas production and distribution	492	40.6	41.4	41.2	41.5						
Combination utility services	493	41.4	41.7	41.8	41.6	-					
Sanitary services	495	42.3	42.4	42.2	42.4						
Wholesale trade		38.0	38.1	38.3	38.1	38.1	-				
Durable goods	50	38.5	38.6	38.7	38.5		-				
Motor vehicles and automotive equipment	501	37.9	38.0	37.6	37.4						
Furniture and home furnishings	502	37.3	37.5	37.3	37.2						
Lumber and construction materials	503	39.6	39.7	39.8	39.8						
Sporting goods, toys, and hobby goods	504	36.1	36.3	35.6	35.6						-
Metals and minerals, except petroleum	505	40.0	40.7	39.9	40.1						
Electrical goods	506	37.8	38.0	38.4	38.0						-
Hardware, plumbing, and heating equipment	507	38.6	38.8	39.2	38.8		-				
Machinery, equipment, and supplies	508	38.8	38.9	39.1	39.0		-				-
Miscellaneous durable goods	509	38.1	38.4	37.9	38.1						
Nondurable goods	51	37.3	37.4	37.7	37.4		-				
Paper and paper products	511	36.9	37.0	37.2	37.4		-				
Drugs, proprietaries, and sundries	512	37.2	37.2	37.5	37.7			-			-
Apparel, piece goods, and notions	513	36.4	36.9	36.1	36.6		-				
Groceries and related products	514	38.0	38.0	38.3	37.9		-				
Chemicals and allied products	516	40.0	40.1	40.0	39.8						
Petroleum and petroleum products	517	38.1	38.2	38.8	38.2	-	-	-			
Beer, wine, and distilled beverages	518	36.5	36.4	36.6	36.5		-	-	-	-	-
Miscellaneous nondurable goods	519	36.5	36.4	36.9	36.6		-	-	-	-	-
Retail trade		29.8	29.1	29.9	29.6	28.8	-	-			-
Building materials and garden supplies	52	37.0	36.8	37.1	37.0		-	-	-		
Lumber and other building materials	521	38.7	38.7	38.9	38.9		-	-	-		-
Hardware stores	525	33.6	32.8	33.4	33.1		-	-	-		
General merchandise stores	53	28.3	27.8	28.6	28.1		-				
Department stores	531	27.9	27.5	28.4	27.9		-				
Variety stores	533	29.8	28.8	28.6	28.8		-				
Misc. general merchandise stores	539	30.5	29.8	30.2	29.7				-		
Food stores	54	31.1	30.3	31.1	30.7						
Grocery stores	541	31.2	30.4	31.3	30.9						
Retail bakeries	546	29.6	29.3	29.9	29.8		-	-			
Automotive dealers and service stations	55	36.6	36.3	36.7	36.6		-				
New and used car dealers	551,2	37.2	37.0	37.2	37.1						-
Auto and home supply stores	553	38.8	38.7	38.7	38.9						
Gasoline service stations	554	34.6	34.2	34.8	34.5		-				-
Apparel and accessory stores	56	27.9	26.9	27.8	27.7		-	-	-		-
Men's and boys' clothing and furnishings	561	29.5	28.6	29.4	28.9		-	-	-		-
Women's ready-to-wear stores	562	26.2	25.2	25.7	25.5				-		-
Family clothing stores	565	27.8	26.9	27.8	27.5		-	-	-		-
Shoe stores	566	29.6	28.7	29.9	30.1			-	-		
Furniture and home furnishings stores	57	33.2	32.9	33.5	33.3			-	-		
Furniture and home furnishings stores	571	33.8	33.5	33.9	33.9						
Household appliance stores	572	33.8	33.0	33.7	33.3		-	-	-		-
Radio, television, and music stores	573	32.0	31.7	32.8	32.4		-	-	-		
Eating and drinking places ⁴	58	26.7	25.6	26.6	26.3		-	-			-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.91	\$12.93	\$13.05	\$12.95		\$518.98	\$518.49	\$524.61	\$507.64	-
Telephone communication	481	13.65	13.66	13.71	13.68		571.94	570.99	575.82	559.51	
Radio and television broadcasting	483	11.41	11.52	12.01	12.15		405.06	412.42	427.56	426.47	-
Electric, gas, and sanitary services	49	14.19	14.37	14.82	14.65		587.47	597.79	620.96	610.91	
Electric services	491	14.42	14.50	15.13	15.02		601.31	603.20	641.51	629.34	
Gas production and distribution	492	13.15	13.36	13.82	13.53		533.89	553.10	569.38	561.50	
Combination utility services	493	16.63	17.03	17.37	17.18		688.48	710.15	726.07	714.69	
Sanitary services	495	11.02	11.15	11.21	11.17		466.15	472.76	473.06	473.61	
Wholesale trade		9.91	10.04	10.40	10.35	\$10.44	376.58	382.52	398.32	394.34	\$397.76
Durable goods	50	10.12	10.26	10.65	10.60		389.62	396.04	412.16	408.10	
Motor vehicles and automotive equipment	501	9.19	9.32	9.69	9.71		348.30	354.16	364.34	363.15	
Furniture and home furnishings	502	9.34	9.46	9.80	9.79		348.38	354.75	365.54	364.19	
Lumber and construction materials	503	9.66	9.77	10.08	10.06		382.54	387.87	401.18	400.39	
Sporting goods, toys, and hobby goods	504	9.56	9.60	9.86	9.87		345.12	348.48	351.02	351.37	
Metals and minerals, except petroleum	505	10.52	10.58	10.96	10.88		420.80	430.61	437.30	436.29	
Electrical goods	506	10.57	10.71	11.04	10.90		399.55	406.98	423.94	414.20	
Hardware, plumbing, and heating equipment	507	9.42	9.54	10.10	9.98		363.61	370.15	395.92	387.22	
Machinery, equipment, and supplies	508	10.83	10.99	11.40	11.37		420.20	427.51	445.74	443.43	
Miscellaneous durable goods	509	7.99	8.04	8.40	8.34		304.42	308.74	318.36	317.75	-
Nondurable goods	51	9.60	9.72	10.04	9.98		358.08	363.53	378.51	373.25	-
Paper and paper products	511	10.34	10.64	10.94	10.87		381.55	393.68	406.97	406.54	
Drugs, proprietaries, and sundries	512	10.92	11.13	11.45	11.34		406.22	414.04	429.38	427.52	
Apparel, piece goods, and notions	513	9.36	9.46	9.87	9.81		340.70	349.07	356.31	359.05	
Groceries and related products	514	9.74	9.89	10.19	10.12		370.12	375.82	390.28	383.55	-
Chemicals and allied products	516	12.12	12.27	12.49	12.46		484.80	492.03	499.60	495.91	-
Petroleum and petroleum products	517	9.62	9.73	9.89	9.82		366.52	371.69	383.73	375.12	
Beer, wine, and distilled beverages	518	11.19	11.19	11.68	11.71		408.44	407.32	427.49	427.42	
Miscellaneous nondurable goods	519	7.90	7.98	8.23	8.25		288.35	290.47	303.69	301.95	-
Retail trade		6.26	6.38	6.49	6.49	6.61	186.55	185.66	194.05	192.10	190.37
Building materials and garden supplies	52	7.39	7.52	7.68	7.68		273.43	276.74	284.93	284.16	
Lumber and other building materials	521	7.74	7.86	8.04	8.03		299.54	304.18	312.76	312.37	
Hardware stores	525	6.18	6.29	6.40	6.41		207.65	206.31	213.76	212.17	
General merchandise stores	53	6.52	6.62	6.71	6.72		184.52	184.04	191.91	188.83	
Department stores	531	6.83	6.93	6.98	6.99		190.56	190.58	198.23	195.02	
Variety stores	533	4.95	5.03	5.29	5.28		147.51	144.86	151.29	152.06	
Misc. general merchandise stores	539	5.25	5.39	5.58	5.58		160.13	160.62	168.52	165.73	
Food stores	54	6.91	7.04	7.04	7.06		214.90	213.31	218.94	216.74	-
Grocery stores	541	7.01	7.14	7.13	7.16		218.71	217.06	223.17	221.24	-
Retail bakeries	546	5.99	6.06	6.03	6.05		177.30	177.56	180.30	180.29	
Automotive dealers and service stations	55	8.29	8.38	8.66	8.63		303.41	304.19	317.82	315.86	-
New and used car dealers	551,2	10.22	10.26	10.67	10.63		380.18	379.62	396.92	394.37	
Auto and home supply stores	553	7.01	7.12	7.58	7.57		271.99	275.54	293.35	294.47	
Gasoline service stations	554	5.75	5.82	5.94	5.92		198.95	199.04	206.71	204.24	
Apparel and accessory stores	56	5.70	5.83	5.95	5.95		159.03	156.83	165.41	164.82	
Men's and boys' clothing and furnishings	561	6.83	6.99	7.34	7.32		201.49	199.91	215.80	211.55	
Women's ready-to-wear stores	562	5.40	5.53	5.58	5.62		141.48	139.36	143.41	143.31	
Family clothing stores	565	5.53	5.69	5.91	5.89		153.73	153.06	164.30	161.98	
Shoe stores	566	5.87	5.99	5.99	5.95		173.75	171.91	179.10	179.10	
Furniture and home furnishings stores	57	7.85	7.92	8.23	8.19		260.62	260.57	275.71	272.73	
Furniture and home furnishings stores	571	7.99	8.07	8.18	8.16		270.06	270.35	277.30	276.62	
Household appliance stores	572	7.80	7.85	8.55	8.49		263.64	259.05	288.14	282.72	-
Radio, television, and music stores	573	7.61	7.64	8.22	8.17		243.52	242.19	269.62	264.71	
Eating and drinking places ⁴	58	4.56	4.62	4.72	4.73		121.75	118.27	125.55	124.40	

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Retail trade—Continued											
Miscellaneous retail	59	30.4	29.8	30.4	30.3	-	-	-	-	-	-
Drug stores and proprietary stores	591	28.1	27.3	28.1	28.1	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	29.7	28.7	29.6	29.4	-	-	-	-	-	-
Nonstore retailers	596	32.4	32.5	32.7	33.1	-	-	-	-	-	-
Fuel and ice dealers	598	38.3	38.3	38.0	37.8	-	-	-	-	-	-
Retail stores, nec	599	31.4	31.3	31.5	31.8	-	-	-	-	-	-
Finance, insurance, and real estate⁵		35.7	35.8	36.3	35.8	35.7	-	-	-	-	-
Banking	60	35.5	35.7	36.3	35.6	-	-	-	-	-	-
Commercial and stock savings banks	602	35.5	35.7	36.3	35.6	-	-	-	-	-	-
Credit agencies other than banks	61	36.2	36.2	36.9	36.5	-	-	-	-	-	-
Savings and loan associations	612	35.8	35.7	36.3	36.0	-	-	-	-	-	-
Personal credit institutions	614	36.1	36.2	36.7	36.4	-	-	-	-	-	-
Insurance carriers	63	36.9	37.1	37.4	37.1	-	-	-	-	-	-
Life insurance	631	36.5	36.8	37.4	37.1	-	-	-	-	-	-
Medical service and health insurance	632	37.6	38.0	37.8	37.7	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	36.6	36.8	37.1	36.9	-	-	-	-	-	-
Services		32.8	32.5	33.1	32.9	32.6	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	32.2	31.3	32.2	31.9	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.2	34.1	34.3	34.1	-	-	-	-	-	-
Beauty shops ⁴	723	29.9	30.1	29.6	29.6	-	-	-	-	-	-
Business services	73	33.9	33.4	33.7	34.0	-	-	-	-	-	-
Advertising	731	36.6	36.8	37.1	36.7	-	-	-	-	-	-
Services to buildings	734	29.5	29.4	29.8	29.8	-	-	-	-	-	-
Computer and data processing services	737	37.8	37.8	37.9	37.9	-	-	-	-	-	-
Auto repair, services, and garages	75	36.8	36.7	37.2	37.2	-	-	-	-	-	-
Automotive repair shops	753	38.0	38.2	38.3	38.4	-	-	-	-	-	-
Miscellaneous repair services	76	38.5	38.1	38.1	38.0	-	-	-	-	-	-
Motion pictures	78	29.0	28.0	30.7	29.4	-	-	-	-	-	-
Motion picture production and services	781	36.4	35.8	37.1	34.8	-	-	-	-	-	-
Amusement and recreation services	79	30.1	27.9	30.5	30.0	-	-	-	-	-	-
Health services	80	32.4	32.4	32.9	32.5	-	-	-	-	-	-
Offices of physicians	801	31.3	31.2	31.8	31.5	-	-	-	-	-	-
Offices of dentists	802	28.2	28.4	28.5	28.4	-	-	-	-	-	-
Nursing and personal care facilities	805	31.5	31.7	32.8	31.8	-	-	-	-	-	-
Hospitals	806	34.1	34.0	34.3	34.1	-	-	-	-	-	-
Legal services	81	34.4	34.5	35.4	35.0	-	-	-	-	-	-
Miscellaneous services	89	37.8	38.0	37.8	37.8	-	-	-	-	-	-
Engineering and architectural services	891	39.2	39.3	39.1	39.0	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	36.1	36.4	36.0	36.1	-	-	-	-	-	-

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. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^P	Sept. 1989 ^P
Retail trade—Continued											
Miscellaneous retail	59	\$6.54	\$6.64	\$6.78	\$6.76	-	\$198.82	\$197.87	\$206.11	\$204.83	-
Drug stores and proprietary stores	591	6.22	6.34	6.50	6.40	-	174.78	173.08	182.65	179.84	-
Miscellaneous shopping goods stores	594	6.08	6.22	6.32	6.33	-	180.58	178.51	187.07	186.10	-
Nonstore retailers	596	7.50	7.47	7.80	7.75	-	243.00	242.78	255.06	256.53	-
Fuel and ice dealers	598	9.10	9.13	9.24	9.19	-	348.53	349.68	351.12	347.38	-
Retail stores, nec	599	6.73	6.80	7.00	7.01	-	211.32	212.84	220.50	222.92	-
Finance, insurance, and real estate⁵		9.03	9.14	9.59	9.49	\$9.60	322.37	327.21	348.12	339.74	\$342.72
Banking	60	7.84	7.87	8.30	8.21	-	278.32	280.96	301.29	292.28	-
Commercial and stock savings banks	602	7.52	7.55	7.89	7.79	-	266.96	269.54	286.41	277.32	-
Credit agencies other than banks	61	8.27	8.36	8.70	8.62	-	299.37	302.63	321.03	314.63	-
Savings and loan associations	612	7.73	7.86	8.14	8.02	-	276.73	280.60	295.48	288.72	-
Personal credit institutions	614	7.80	7.81	8.20	8.14	-	281.58	282.72	300.94	296.30	-
Insurance carriers	63	10.23	10.29	10.69	10.65	-	377.49	381.76	399.81	395.12	-
Life insurance	631	9.71	9.76	9.94	9.93	-	354.42	359.17	371.76	368.40	-
Medical service and health insurance	632	9.81	9.90	10.40	10.27	-	368.86	376.20	393.12	387.18	-
Fire, marine, and casualty insurance	633	10.77	10.83	11.42	11.43	-	394.18	398.54	423.68	421.77	-
Services		8.81	9.00	9.33	9.29	9.48	288.97	292.50	308.82	305.64	309.05
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	6.23	6.45	6.53	6.49	-	200.61	201.89	210.27	207.03	-
Personal services:											
Laundry, cleaning, and garment services	721	6.35	6.34	6.62	6.63	-	217.17	216.19	227.07	226.08	-
Beauty shops ⁴	723	6.79	6.80	6.94	7.02	-	203.02	204.68	205.42	207.79	-
Business services	73	9.09	9.18	9.69	9.57	-	308.15	306.61	326.55	325.38	-
Advertising	731	12.39	12.52	13.30	12.98	-	453.47	460.74	493.43	476.37	-
Services to buildings	734	6.90	6.89	7.24	7.16	-	203.55	202.57	215.75	213.37	-
Computer and data processing services	737	13.10	13.22	14.22	14.17	-	495.18	499.72	538.94	537.04	-
Auto repair, services, and garages	75	8.19	8.25	8.40	8.46	-	301.39	302.78	312.48	314.71	-
Automotive repair shops	753	8.92	8.98	9.28	9.34	-	338.96	343.04	355.42	358.66	-
Miscellaneous repair services	76	9.55	9.63	9.90	9.88	-	367.68	366.90	377.19	375.44	-
Motion pictures	78	10.86	11.63	11.13	11.69	-	314.94	325.64	341.69	343.69	-
Motion picture production and services	781	15.13	15.40	15.08	15.68	-	550.73	551.32	559.47	545.66	-
Amusement and recreation services	79	6.62	7.42	7.07	7.01	-	199.26	207.02	215.64	210.30	-
Health services	80	9.25	9.37	9.85	9.86	-	299.70	303.59	324.07	320.45	-
Offices of physicians	801	8.79	8.91	9.33	9.29	-	275.13	277.99	296.69	292.64	-
Offices of dentists	802	8.95	8.95	9.45	9.42	-	252.39	254.18	269.33	267.53	-
Nursing and personal care facilities	805	6.39	6.47	6.80	6.81	-	201.29	205.10	223.04	216.56	-
Hospitals	806	10.54	10.69	11.25	11.26	-	359.41	363.46	385.88	383.97	-
Legal services	81	12.70	12.77	13.66	13.32	-	436.88	440.57	483.56	466.20	-
Miscellaneous services	89	12.57	12.74	13.42	13.19	-	475.15	484.12	507.28	498.58	-
Engineering and architectural services	891	13.21	13.47	14.05	13.83	-	517.83	529.37	549.36	539.37	-
Accounting, auditing, and bookkeeping	893	11.07	11.13	11.88	11.61	-	399.63	405.13	427.68	419.12	-

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

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

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

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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	July 1988	Aug. 1988	July 1989	Aug. 1989 ^p	July 1988	Aug. 1988	July 1989	Aug. 1989 ^p
Average hourly earnings, excluding lump-sum payments	\$14.09	\$14.20	\$14.86	\$14.92	\$13.56	\$13.63	\$14.17	\$14.23
Average hourly earnings, including lump-sum payments	14.54	14.69	15.31	15.37	13.84	14.06	14.64	14.65

^p = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Manufacturing	\$9.67	\$9.75	\$10.02	\$9.97	\$10.04
Durable goods	10.16	10.25	10.52	10.49	10.57
Lumber and wood products	8.19	8.30	8.54	8.53	(?)
Furniture and fixtures	7.75	7.77	8.01	8.00	(?)
Stone, clay, and glass products	9.84	9.91	10.12	10.11	(?)
Primary metal industries	11.36	11.47	11.71	11.65	(?)
Fabricated metal products	9.74	9.82	10.09	10.05	(?)
Machinery, except electrical	10.45	10.51	10.83	10.82	(?)
Electrical and electronic equipment	9.77	9.77	10.05	10.03	(?)
Transportation equipment	12.55	12.71	12.97	13.04	(?)
Instruments and related products	9.61	9.62	9.98	9.94	(?)
Miscellaneous manufacturing	7.72	7.75	8.06	7.93	(?)
Nondurable goods	8.98	9.05	9.34	9.27	\$9.33
Food and kindred products	8.52	8.58	8.82	8.73	(?)
Tobacco manufactures	14.50	13.67	16.06	15.34	(?)
Textile mill products	7.02	7.06	7.30	7.33	(?)
Apparel and other textile products	5.94	6.05	6.15	6.16	(?)
Paper and allied products	11.02	11.01	11.36	11.27	(?)
Printing and publishing	10.12	10.22	10.46	10.48	(?)
Chemicals and allied products	12.04	12.13	12.49	12.46	(?)
Petroleum and coal products	13.94	14.09	14.42	14.31	(?)
Rubber and misc. plastics products	8.73	8.75	9.03	9.01	(?)
Leather and leather products	6.05	6.12	6.38	6.38	(?)

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

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

INDUSTRY	Average hourly earnings					Average weekly earnings				
	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p	Aug. 1988	Sept. 1988	July 1989	Aug. 1989 ^p	Sept. 1989 ^p
Total private:										
Current dollars	\$9.24	\$9.40	\$9.63	\$9.60	\$9.76	\$323.40	\$327.12	\$338.01	\$335.04	\$338.67
Constant (1977) dollars	4.78	4.83	4.76	4.75	(¹)	167.30	168.10	167.08	165.62	(¹)
Mining:										
Current dollars	12.69	12.82	12.95	13.04	\$13.19	532.98	541.00	550.38	558.11	\$567.17
Constant (1977) dollars	6.56	6.59	6.40	6.45	(¹)	275.73	278.01	272.06	275.88	(¹)
Construction:										
Current dollars	12.99	13.16	13.33	13.33	\$13.48	501.41	505.34	518.54	518.54	\$520.33
Constant (1977) dollars	6.72	6.76	6.59	6.59	(¹)	259.39	259.68	256.32	256.32	(¹)
Manufacturing:										
Current dollars	10.13	10.25	10.47	10.44	\$10.54	414.32	423.33	424.04	425.95	\$433.19
Constant (1977) dollars	5.24	5.27	5.18	5.16	(¹)	214.34	217.54	209.61	210.55	(¹)
Transportation and public utilities:										
Current dollars	12.35	12.40	12.58	12.50	\$12.67	490.30	489.80	500.68	491.25	\$499.20
Constant (1977) dollars	6.39	6.37	6.22	6.18	(¹)	253.65	251.70	247.49	242.83	(¹)
Wholesale trade:										
Current dollars	9.91	10.04	10.40	10.35	\$10.44	376.58	382.52	398.32	394.34	\$397.76
Constant (1977) dollars	5.13	5.16	5.14	5.12	(¹)	194.82	196.57	196.90	194.93	(¹)
Retail trade:										
Current dollars	6.26	6.38	6.49	6.49	\$6.61	186.55	185.66	194.05	192.10	\$190.37
Constant (1977) dollars	3.24	3.28	3.21	3.21	(¹)	96.51	95.40	95.92	94.96	(¹)
Finance, insurance, and real estate:										
Current dollars	9.03	9.14	9.59	9.49	\$9.60	322.37	327.21	348.12	339.74	\$342.72
Constant (1977) dollars	4.67	4.70	4.74	4.69	(¹)	166.77	168.14	172.08	167.94	(¹)
Services:										
Current dollars	8.81	9.00	9.33	9.29	\$9.48	288.97	292.50	308.82	305.64	\$309.05
Constant (1977) dollars	4.56	4.62	4.61	4.59	(¹)	149.49	150.31	152.65	151.08	(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 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

C-5. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

Industry	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	34.7	34.8	34.7	34.7	34.8	34.6	34.7	34.9	34.6	34.6	34.8	34.6	34.6
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Manufacturing	41.1	41.2	41.2	41.0	41.1	41.1	41.0	41.3	41.0	41.0	41.0	40.9	41.0
<i>Overtime hours</i>	3.9	4.0	3.9	3.9	3.9	3.9	4.0	3.9	3.8	3.8	3.9	3.7	3.8
Durable goods	41.9	41.9	41.9	41.7	41.8	41.8	41.7	41.9	41.5	41.5	41.5	41.5	41.5
<i>Overtime hours</i>	4.1	4.2	4.2	4.1	4.1	4.1	4.1	4.1	3.9	3.9	4.0	3.9	3.9
Lumber and wood products	40.1	40.7	40.3	40.3	40.3	39.6	40.0	40.5	39.7	39.8	39.6	40.2	40.0
Furniture and fixtures	39.6	39.4	39.5	39.4	39.8	39.7	39.8	39.9	39.4	39.4	39.5	39.6	39.6
Stone, clay, and glass products	42.3	42.5	42.6	42.4	42.5	42.2	42.2	42.5	41.9	42.2	42.3	42.5	42.3
Primary metal industries	43.9	43.7	43.7	43.5	43.6	43.4	43.5	43.3	43.2	43.3	43.0	42.9	42.5
Blast furnaces and basic steel products ..	44.5	44.2	44.0	43.8	44.0	43.8	44.1	43.5	43.6	43.7	43.2	43.4	42.3
Fabricated metal products	42.0	41.9	42.1	41.8	41.9	41.9	41.8	41.9	41.7	41.5	41.5	41.4	41.4
Machinery, except electrical	42.7	42.7	42.5	42.5	42.5	42.6	42.5	42.7	42.5	42.5	42.4	42.2	42.2
Electrical and electronic equipment	40.9	41.0	41.0	40.8	40.9	40.9	40.6	41.0	40.7	40.7	40.6	40.9	41.1
Transportation equipment	43.0	43.1	43.1	42.8	42.8	43.1	43.1	42.8	42.5	42.5	42.6	42.5	42.7
Motor vehicles and equipment	44.1	43.9	44.1	43.7	43.6	43.9	43.9	43.3	42.8	42.7	42.6	42.8	43.7
Instruments and related products	41.6	41.8	41.6	41.1	41.5	41.5	41.1	41.5	41.1	41.3	41.4	41.0	40.8
Miscellaneous manufacturing	39.2	39.1	39.3	39.0	39.4	39.5	39.5	39.8	39.6	39.4	39.3	39.5	39.5
Nondurable goods	40.2	40.2	40.2	40.0	40.1	40.2	40.1	40.4	40.2	40.3	40.2	40.2	40.2
<i>Overtime hours</i>	3.7	3.7	3.6	3.6	3.6	3.7	3.8	3.8	3.7	3.6	3.8	3.6	3.7
Food and kindred products	40.3	40.4	40.6	40.2	40.1	40.3	40.4	40.7	40.5	40.7	41.0	40.7	40.7
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	41.0	41.0	41.0	40.5	40.9	40.8	41.1	41.7	41.4	41.4	41.2	41.0	40.7
Apparel and other textile products	37.1	36.9	37.0	36.8	37.0	37.1	36.9	37.6	37.1	37.1	37.0	37.0	37.1
Paper and allied products	43.2	43.2	43.1	43.2	43.1	43.2	43.3	43.4	43.3	43.3	43.2	43.4	43.2
Printing and publishing	38.1	38.0	37.9	37.8	38.0	38.0	37.9	37.9	37.7	37.8	37.6	37.7	37.9
Chemicals and allied products	42.3	42.5	42.3	42.3	42.3	42.3	42.3	42.6	42.1	42.5	42.5	42.3	42.7
Petroleum and coal products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Rubber and misc. plastics products	41.7	41.6	41.7	41.4	41.7	41.7	41.6	41.6	41.5	41.5	41.4	41.4	41.5
Leather and leather products	37.5	37.8	37.3	37.7	38.0	38.6	38.0	38.3	37.4	37.9	37.7	38.2	38.3
Transportation and public utilities	39.4	39.4	39.3	39.4	39.6	39.4	39.4	40.1	39.5	39.4	39.4	38.9	39.3
Wholesale trade	38.1	38.1	38.0	38.1	38.1	38.1	38.1	38.3	37.9	38.0	38.1	38.0	38.1
Retail trade	29.1	29.2	29.0	29.1	29.1	28.9	28.9	29.1	28.9	28.9	29.2	28.8	28.7
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.6	32.7	32.5	32.7	32.7	32.5	32.6	32.8	32.5	32.5	32.8	32.6	32.7

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.

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(1977 = 100)

Industry	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Total private	125.6	126.3	126.3	126.8	127.4	127.2	127.6	128.7	127.6	128.1	129.2	128.4	128.6
Goods-producing	101.8	102.4	102.8	102.3	103.0	102.9	102.9	103.5	102.4	102.5	103.0	103.1	102.5
Mining	81.1	81.2	80.0	80.2	79.9	80.1	81.1	83.4	81.8	81.2	80.3	83.7	83.3
Construction	138.1	139.4	141.1	139.4	141.2	140.5	140.3	141.0	138.2	139.3	142.7	143.0	142.9
Manufacturing	95.7	96.2	96.5	96.2	96.7	96.7	96.7	97.2	96.4	96.4	96.3	96.3	95.6
Durable goods	94.1	94.6	94.9	94.6	95.2	95.0	94.9	95.2	94.3	94.0	93.8	93.9	92.9
Lumber and wood products	103.7	106.3	105.9	106.2	107.0	104.5	105.3	105.9	103.7	103.4	102.6	103.6	102.8
Furniture and fixtures	112.6	112.3	112.9	112.6	113.8	113.7	114.3	114.6	112.9	112.6	113.2	111.9	111.6
Stone, clay, and glass products	89.6	90.6	91.0	91.0	91.4	90.9	90.5	91.0	89.3	89.8	90.0	90.2	88.6
Primary metal industries	68.9	68.9	69.0	68.8	69.1	68.7	68.9	68.6	68.2	68.5	67.9	67.8	66.0
Blast furnaces and basic steel products	54.2	54.1	54.0	53.1	53.8	53.4	53.6	52.4	52.3	52.6	52.0	52.8	51.2
Fabricated metal products	91.5	91.8	92.5	92.1	93.0	92.8	92.5	92.2	91.7	90.8	90.7	90.2	89.7
Machinery, except electrical	91.2	91.9	92.1	92.5	93.0	93.7	93.4	93.9	93.7	93.8	94.0	93.3	92.9
Electrical and electronic equipment	100.6	101.0	101.4	100.2	100.2	99.9	98.8	99.7	98.4	97.8	97.6	98.0	97.7
Transportation equipment	100.0	100.8	100.8	100.3	101.0	101.0	101.5	101.2	100.5	99.5	98.6	100.1	97.8
Motor vehicles and equipment	92.3	92.7	93.6	89.9	91.8	91.1	91.7	91.1	90.2	88.1	85.7	89.5	86.7
Instruments and related products	113.7	114.8	114.8	114.5	115.3	115.6	115.0	116.4	115.8	116.1	116.9	115.8	115.8
Miscellaneous manufacturing	84.8	84.0	84.8	84.7	85.9	86.4	86.1	87.1	86.6	86.2	85.7	87.0	86.1
Nondurable goods	98.2	98.6	98.8	98.4	98.9	99.3	99.5	100.1	99.5	99.9	100.1	99.8	99.6
Food and kindred products	100.4	101.7	102.6	101.5	101.5	102.2	102.9	103.8	103.3	104.3	106.4	105.1	105.3
Tobacco manufactures	74.3	75.1	76.5	76.7	73.4	74.1	69.6	73.0	69.6	69.0	70.5	66.9	68.0
Textile mill products	80.6	80.6	80.5	79.5	80.6	80.4	81.0	82.1	81.5	81.5	81.3	80.6	79.7
Apparel and other textile products	84.2	83.8	84.4	84.2	84.9	85.5	85.4	86.8	85.4	85.2	84.9	84.9	84.2
Paper and allied products	101.7	101.9	101.9	102.1	101.7	101.9	102.3	102.4	102.3	102.3	102.7	103.2	102.1
Printing and publishing	137.2	137.3	137.3	137.4	138.3	138.4	138.5	138.2	137.8	138.3	137.7	138.1	138.7
Chemicals and allied products	98.7	99.5	99.0	99.4	99.9	100.0	100.4	100.9	100.5	101.8	101.5	101.2	101.8
Petroleum and coal products	84.1	84.1	83.5	82.7	81.2	83.3	82.2	82.9	83.5	84.3	83.2	83.4	83.5
Rubber and misc. plastics products	117.8	118.5	119.3	118.6	119.5	120.0	119.9	119.9	119.6	118.9	118.8	119.2	118.9
Leather and leather products	55.4	55.3	54.6	55.2	56.1	57.0	56.1	56.0	54.7	55.5	54.7	55.0	54.6
Service-producing	138.8	139.6	139.2	140.3	140.9	140.6	141.2	142.6	141.5	142.2	143.7	142.4	143.0
Transportation and public utilities	114.1	114.6	114.7	115.5	116.4	116.2	116.2	118.6	117.3	117.3	117.7	113.4	116.7
Wholesale trade	123.8	124.2	124.2	124.9	125.3	125.9	126.4	127.2	126.1	126.7	127.2	127.2	127.5
Retail trade	125.9	126.5	126.0	126.7	127.2	126.7	126.9	127.7	127.2	127.4	128.9	127.5	126.9
Finance, insurance, and real estate	140.9	141.6	140.6	141.2	142.1	140.8	141.8	143.8	141.9	142.7	145.0	143.3	143.6
Services	163.2	164.3	164.0	165.8	166.4	166.1	167.3	168.9	167.5	169.0	170.8	170.3	171.3

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.

^p = preliminary.

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

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

C-7. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1988				1989								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Average hourly earnings													
Total private (in current dollars)	\$9.37	\$9.43	\$9.42	\$9.45	\$9.49	\$9.52	\$9.54	\$9.61	\$9.60	\$9.62	\$9.69	\$9.68	\$9.73
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	\$13.07	\$13.08	\$13.10	\$13.15	\$13.18	\$13.22	\$13.26	\$13.33	\$13.32	\$13.32	\$13.42	\$13.37	\$13.39
Manufacturing	10.25	10.29	10.30	10.31	10.33	10.37	10.40	10.40	10.42	10.45	10.48	10.52	10.54
Excluding overtime³	9.78	9.80	9.83	9.85	9.87	9.89	9.92	9.92	9.97	9.99	10.01	10.05	10.07
Transportation and public utilities	12.37	12.41	12.39	12.36	12.45	12.48	12.50	12.52	12.54	12.54	12.61	12.51	12.64
Wholesale trade	10.03	10.14	10.06	10.11	10.19	10.18	10.21	10.36	10.28	10.33	10.44	10.39	10.44
Retail trade	6.36	6.38	6.40	6.43	6.44	6.45	6.47	6.51	6.49	6.52	6.54	6.56	6.58
Finance, insurance, and real estate	9.18	9.35	9.26	9.35	9.40	9.35	9.36	9.54	9.45	9.53	9.68	9.56	9.64
Services	9.00	9.07	9.05	9.10	9.15	9.19	9.24	9.32	9.33	9.34	9.46	9.43	9.48
Total private (in constant dollars)⁴	4.83	4.84	4.82	4.82	4.81	4.81	4.80	4.80	4.77	4.77	4.79	4.79	(⁵)
Average weekly earnings													
Total private:													
In current dollars	325.14	328.16	326.87	327.92	330.25	329.39	331.04	335.39	332.16	332.85	337.21	334.93	336.66
In constant (1977) dollars ⁴	167.68	168.55	167.28	167.39	167.55	166.44	166.44	167.53	165.01	165.10	166.85	165.72	(⁵)

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

² 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.

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

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 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Alabama	41.6	40.6	41.2	\$8.94	\$9.02	\$9.06	\$371.90	\$366.21	\$373.27
Birmingham	42.0	40.0	40.9	9.02	9.25	9.30	378.84	370.00	380.37
Mobile	40.7	41.7	42.1	10.58	10.92	10.70	430.61	455.36	450.47
Alaska	46.9	47.4	55.1	11.14	11.00	11.49	522.47	521.40	633.10
Arizona	40.9	40.7	40.6	9.93	10.06	9.95	406.14	409.44	403.97
Arkansas	40.9	40.7	41.0	8.03	8.31	8.27	328.43	338.22	339.07
Fayetteville-Springdale	40.8	41.1	41.4	7.11	7.38	7.46	290.09	303.32	308.84
Fort Smith	40.8	40.4	40.6	8.73	8.88	8.85	356.18	358.75	359.31
Little Rock-North Little Rock	41.5	41.8	41.9	8.47	8.91	8.88	351.51	372.44	372.07
Pine Bluff	42.5	44.0	43.7	10.50	10.52	10.49	446.25	462.88	458.41
California	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Colorado	39.6	40.3	39.7	10.35	10.64	10.54	409.86	428.79	418.44
Denver	40.2	39.7	40.0	11.02	11.13	10.94	443.00	441.86	437.60
Connecticut	41.1	41.3	41.5	10.73	11.28	11.18	441.00	465.86	463.97
Bridgeport-Milford	39.8	41.1	40.0	11.16	11.61	11.52	444.17	477.17	460.80
Hartford	41.2	42.0	41.1	11.25	11.91	12.03	463.50	500.22	494.43
New Britain	41.4	41.5	42.2	11.20	11.80	11.97	463.68	489.70	505.13
New Haven-Meriden	40.3	40.4	40.7	10.17	10.85	10.69	409.85	438.34	435.08
Stamford	40.4	41.7	41.9	12.50	12.22	11.86	505.00	509.57	496.93
Waterbury	43.3	41.0	42.6	9.83	10.43	10.45	425.64	427.63	445.17
Delaware	39.7	40.4	40.3	10.58	10.15	11.02	420.03	410.06	444.11
Wilmington	40.6	42.3	41.5	13.55	12.73	13.31	550.13	538.48	552.37
District of Columbia:									
Washington MSA	39.9	39.5	40.0	11.24	12.04	12.26	448.48	475.58	490.40
Florida	40.7	39.9	39.9	8.45	8.74	8.73	343.92	348.73	348.33
Fort Lauderdale-Hollywood-Pompano Beach	42.3	40.2	41.5	8.26	8.71	8.60	349.40	350.14	356.90
Jacksonville	41.0	41.2	41.3	9.02	9.42	9.42	369.82	388.10	389.05
Miami-Hialeah	39.3	38.7	38.4	7.29	7.40	7.49	286.50	286.38	287.62
Orlando	39.5	41.0	40.0	9.02	9.86	10.00	356.29	404.26	400.00
Pensacola	42.7	41.6	41.1	10.68	10.75	10.80	456.04	447.20	443.88
Tampa-St. Petersburg-Clearwater	41.1	39.9	39.9	8.24	8.75	8.90	338.66	349.13	355.11
West Palm Beach-Boca Raton-Delray Beach	39.9	41.3	40.7	9.15	9.30	9.29	365.09	384.09	378.10
Georgia	41.2	40.9	41.1	8.63	8.79	8.82	355.56	359.51	362.50
Atlanta	40.3	41.9	41.2	10.14	10.29	10.30	408.64	431.15	424.36
Savannah	48.4	48.2	48.3	11.45	11.54	11.45	554.18	556.23	553.04
Hawaii	40.5	39.5	40.5	9.71	10.40	10.32	393.26	410.80	417.96
Honolulu	40.7	39.2	40.4	9.85	10.60	10.39	400.90	415.52	419.76
Idaho	37.0	39.2	39.6	10.03	10.22	10.13	371.11	400.62	401.15
Illinois	41.5	41.0	41.6	11.04	11.23	11.25	458.16	460.43	468.00
Aurora-Elgin	41.7	41.3	41.1	10.43	10.55	10.48	434.93	435.72	430.73
Bloomington-Normal	38.8	40.4	40.5	11.54	11.79	11.90	447.75	476.32	481.95
Champaign-Urbana-Rantoul	38.9	39.0	38.9	9.22	9.83	9.76	358.66	383.37	379.66
Chicago	42.0	41.0	41.7	10.73	10.90	10.90	450.66	446.90	454.53
Davenport-Rock Island-Moline	39.1	40.8	41.4	12.81	12.81	12.97	500.87	522.65	536.96
Decatur	42.0	43.0	43.4	14.40	14.70	14.79	604.80	632.10	641.89
Joliet	41.3	43.0	43.1	12.23	12.55	12.61	505.10	539.65	543.49
Kankakee	40.5	38.6	39.5	11.07	11.26	11.46	448.34	434.64	452.67
Lake County	40.3	38.7	39.5	11.55	11.72	11.83	465.47	453.56	467.29
Peoria	44.3	45.9	45.3	13.15	14.06	14.08	582.55	645.35	637.82
Rockford	42.2	41.8	41.3	11.43	11.56	11.88	482.35	483.21	490.64
Springfield	43.2	39.7	40.1	11.90	11.65	11.60	514.08	462.51	465.16
Indiana	41.6	40.4	40.5	11.32	11.60	11.54	470.91	468.64	467.37

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Iowa	41.2	39.9	39.9	\$10.57	\$10.99	\$10.84	\$435.48	\$438.50	\$432.52
Cedar Rapids	39.4	39.1	39.1	12.20	12.81	12.85	480.68	500.87	502.44
Des Moines	42.0	40.5	40.8	11.79	11.75	11.65	495.18	475.88	475.32
Dubuque	41.7	41.5	40.0	11.45	12.35	10.02	477.47	512.53	400.80
Sioux City	38.1	37.9	38.5	8.54	8.59	8.29	325.37	325.56	319.17
Kansas	40.7	39.7	40.3	10.21	10.51	10.53	415.55	417.25	424.36
Topeka	43.3	39.3	40.2	11.51	11.55	11.77	498.38	453.92	473.15
Wichita	41.1	41.1	41.0	10.84	11.35	11.53	445.52	466.49	472.73
Kentucky	40.3	39.2	39.9	10.14	10.34	10.35	408.64	405.33	412.97
Lexington-Fayette	39.6	38.9	38.7	10.24	10.71	10.83	405.50	416.62	419.12
Louisville	41.2	39.6	40.0	11.79	11.94	11.89	485.75	472.82	475.60
Louisiana	42.1	41.5	42.0	10.91	11.15	10.96	459.31	462.73	460.32
Baton Rouge	42.7	43.9	44.0	13.05	13.03	12.88	557.24	572.02	566.72
New Orleans	41.1	40.0	40.3	10.46	10.90	10.79	429.91	436.00	434.84
Shreveport	41.5	41.4	41.0	11.71	11.21	10.94	485.97	464.09	448.54
Maine	40.9	39.2	40.1	9.23	10.24	9.91	377.51	401.41	397.39
Lewiston-Auburn	37.3	38.5	39.5	8.28	8.54	8.20	308.84	328.79	323.90
Portland	40.6	37.2	38.1	9.50	10.45	10.92	385.70	388.74	416.05
Maryland	42.0	41.4	41.4	10.41	10.92	11.02	437.22	452.09	456.23
Baltimore MSA	41.8	41.1	41.5	11.11	11.49	11.51	464.40	472.24	477.67
Massachusetts	41.1	40.8	41.0	10.21	10.88	10.73	419.63	443.90	439.93
Boston	41.4	40.1	40.3	10.94	11.54	11.42	452.92	462.75	460.23
Springfield	42.7	40.9	40.8	9.80	10.02	9.96	418.46	409.82	406.37
Worcester	40.3	41.6	41.7	10.39	11.03	11.07	418.72	458.85	461.62
Michigan	42.4	41.4	42.2	13.19	13.45	13.52	559.26	556.83	570.54
Ann Arbor	46.1	42.7	44.6	14.66	13.40	13.97	675.83	572.18	623.06
Battle Creek	41.1	41.7	40.1	13.98	14.55	14.25	574.58	606.73	571.42
Detroit	43.4	41.4	43.1	14.34	14.37	14.59	622.36	594.92	628.83
Flint	42.9	43.6	43.6	16.84	17.52	17.46	722.44	763.87	761.26
Grand Rapids	40.4	40.3	41.3	11.23	11.66	11.63	453.69	469.90	480.32
Jackson	42.2	40.3	41.6	9.71	11.38	11.26	409.76	458.61	468.42
Kalamazoo	42.3	41.1	41.6	12.35	13.06	12.97	522.40	536.77	539.55
Lansing-East Lansing	38.1	39.3	38.1	13.71	14.70	14.69	522.35	577.71	559.69
Muskegon	40.9	40.4	41.4	11.94	12.33	12.44	488.35	498.13	515.02
Saginaw-Bay City-Midland	42.6	42.0	41.2	14.84	15.14	15.07	632.18	635.88	620.88
Minnesota	41.1	40.2	40.6	10.57	10.82	10.82	434.43	434.96	439.29
Duluth	36.8	36.4	37.1	10.96	11.26	11.45	403.33	409.86	424.80
Minneapolis-St. Paul	41.6	40.1	40.5	11.18	11.65	11.69	465.09	467.17	473.45
St. Cloud	38.5	39.1	36.5	9.93	10.15	10.00	382.31	396.87	365.00
Mississippi	40.4	39.1	40.1	7.86	7.96	7.96	317.54	311.24	319.20
Jackson	40.2	39.2	39.2	8.69	9.03	8.92	349.34	353.98	349.66
Missouri	40.3	40.4	40.7	10.12	10.34	10.48	407.84	417.74	426.54
Kansas City	40.5	40.1	40.6	11.27	11.35	11.38	456.44	455.14	462.03
St. Louis	40.4	40.4	40.9	11.80	12.11	12.42	476.72	489.24	507.98
Springfield	39.8	40.8	39.5	8.45	8.79	8.69	336.31	358.63	343.26
Montana	37.8	39.6	38.9	10.44	11.12	10.94	394.63	440.35	425.57
Nebraska	41.1	40.6	41.3	9.48	9.58	9.61	389.63	388.95	396.89
Lincoln	40.2	39.3	40.1	10.20	9.98	10.23	410.04	392.21	410.22
Omaha	41.8	41.3	41.7	10.17	10.28	10.32	425.11	424.56	430.34
Nevada	39.8	40.3	40.7	10.21	10.35	10.32	406.36	417.11	420.02
Las Vegas	40.2	42.5	42.5	12.70	13.23	12.64	510.54	562.28	537.20
New Hampshire	39.9	40.2	40.6	9.77	10.19	10.17	389.82	409.64	412.90
Manchester	36.0	39.1	41.0	9.79	10.52	10.40	352.44	411.33	426.40
Nashua	39.7	39.9	40.2	11.91	11.90	12.30	472.83	474.81	494.46
Portsmouth-Dover-Rochester	40.8	41.5	42.0	9.28	9.89	9.90	378.62	410.44	415.80

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
New Jersey	40.4	40.6	40.4	\$10.84	\$11.41	\$11.42	\$437.94	\$463.25	\$461.37
New Mexico	39.3	39.6	37.5	8.60	8.80	8.30	337.98	348.48	311.25
Albuquerque	40.3	39.8	40.2	9.35	9.43	9.42	376.81	375.31	378.68
New York	39.6	39.5	39.6	10.43	10.78	10.72	413.03	425.81	424.51
Albany-Schenectady-Troy	39.7	38.4	39.6	11.14	11.09	11.26	442.26	425.86	445.90
Binghamton	39.7	40.4	40.2	9.71	10.29	10.08	385.49	415.72	405.22
Buffalo	43.6	41.3	41.7	12.24	12.65	12.72	533.66	522.45	530.42
Elmira	40.8	39.3	40.1	9.50	9.73	9.79	387.60	382.39	392.58
Nassau-Suffolk	39.2	39.6	39.9	10.96	11.92	11.83	429.63	472.03	472.02
New York PMSA	37.0	37.6	37.6	9.82	9.98	9.94	363.34	375.25	373.74
New York City	36.9	37.2	37.1	9.55	9.89	9.82	352.40	367.91	364.32
Niagara Falls	41.1	40.7	40.2	13.31	13.98	13.64	547.04	568.99	548.33
Orange County	38.5	37.4	38.2	8.27	8.73	8.84	318.40	326.50	337.69
Poughkeepsie	41.1	40.4	39.9	9.97	10.84	10.83	409.77	437.94	432.12
Rochester	43.6	42.6	41.6	12.29	12.67	12.45	535.84	539.74	517.92
Rockland County	35.4	40.3	40.3	10.88	8.36	8.21	385.15	336.91	330.86
Syracuse	40.8	40.3	40.5	12.15	12.45	12.22	495.72	501.74	494.91
Utica-Rome	41.1	40.0	40.3	9.63	9.77	9.93	395.79	390.80	400.18
Westchester County	39.1	39.9	40.9	11.65	11.44	11.62	455.52	456.46	475.26
North Carolina	40.5	40.2	40.7	8.13	8.43	8.44	329.27	338.89	343.51
Asheville	40.9	41.9	41.1	8.16	8.41	8.40	333.74	352.38	345.24
Charlotte-Gastonia-Rock Hill	40.7	40.3	40.8	8.45	8.88	8.84	343.92	357.86	360.67
Greensboro-Winston-Salem-High Point	40.2	38.9	39.6	9.04	9.28	9.25	363.41	360.99	366.30
Raleigh-Durham	42.1	41.1	40.9	9.25	9.47	9.49	389.43	389.22	388.14
North Dakota	39.7	39.9	39.7	8.34	8.86	8.83	331.10	353.51	350.55
Fargo-Moorhead	39.8	40.0	39.4	8.42	8.90	8.85	335.12	356.00	348.69
Ohio	42.4	42.0	42.2	11.91	12.16	12.23	504.98	510.72	516.11
Akron	42.6	41.8	42.5	11.28	11.29	11.37	480.53	471.92	483.23
Canton	42.1	41.1	42.1	11.27	11.73	11.86	474.47	482.10	499.31
Cincinnati	42.4	42.2	43.3	11.23	11.40	11.60	476.15	481.08	502.28
Cleveland	42.7	41.8	42.5	11.79	11.77	11.88	503.43	491.99	504.90
Columbus	40.8	41.3	41.6	11.56	12.02	12.00	471.65	496.43	499.20
Dayton-Springfield	42.2	42.4	42.0	12.38	12.74	12.69	522.44	540.18	532.98
Toledo	42.5	42.8	43.4	12.94	13.23	13.26	549.95	566.24	575.48
Youngstown-Warren	41.6	42.3	42.0	13.40	13.72	13.96	557.44	580.36	586.32
Oklahoma	40.7	41.2	41.4	10.34	10.57	10.48	420.84	435.48	433.87
Oklahoma City	40.7	43.2	43.5	11.53	11.35	11.36	469.27	490.32	494.16
Tulsa	40.7	40.6	41.8	10.79	10.71	10.73	439.15	434.83	448.51
Oregon	38.6	38.6	39.7	10.39	10.96	10.61	401.05	423.06	421.22
Eugene-Springfield	37.1	38.0	39.6	10.66	10.86	10.70	395.49	412.68	423.72
Portland	39.5	39.6	39.6	10.79	11.15	11.00	426.21	441.54	435.60
Salem	37.0	38.0	41.6	8.06	8.93	8.26	298.22	339.34	343.62
Pennsylvania	40.8	40.4	40.5	10.25	10.57	10.54	418.20	427.03	426.87
Allentown-Bethlehem	40.0	39.8	39.3	10.54	10.68	10.67	421.60	425.06	419.33
Altoona	40.2	40.5	39.7	8.71	9.37	9.31	350.14	379.49	369.61
Beaver County	41.0	45.1	42.6	10.66	10.75	10.67	437.06	484.83	454.54
Erie	42.9	43.4	42.2	10.37	10.76	10.79	444.87	466.98	455.34
Harrisburg-Lebanon-Carlisle	39.5	39.0	39.7	9.62	9.87	9.98	379.99	384.93	396.21
Johnstown	38.8	38.3	40.5	8.46	8.40	8.37	328.25	321.72	338.99
Lancaster	40.7	40.1	40.6	10.16	10.57	10.54	413.51	423.86	427.92
Philadelphia PMSA	39.9	40.6	40.4	11.32	11.75	11.64	451.67	477.05	470.26
Pittsburgh	41.8	41.4	41.7	11.29	11.23	11.26	471.92	464.92	469.54

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. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Pennsylvania—Continued									
Reading	40.4	40.7	41.5	\$10.61	\$11.03	\$11.12	\$428.64	\$448.92	\$461.48
Scranton-Wikes-Barre	39.3	39.0	38.4	8.94	9.32	9.26	351.34	363.48	355.58
Williamsport	41.1	39.7	39.3	8.98	9.55	9.55	369.08	379.14	375.32
York	42.4	41.4	41.4	9.81	10.18	10.23	415.94	421.45	423.52
Rhode Island									
Pawtucket-Woonsocket-Attleboro	39.0	39.0	39.1	8.55	9.14	9.12	333.45	356.46	356.59
Providence	39.5	39.6	39.7	8.16	8.72	8.74	322.32	345.31	346.98
Providence	39.4	38.2	38.4	8.61	8.74	8.76	339.23	333.87	336.38
South Carolina									
Charleston	41.2	40.8	40.9	8.32	8.69	8.69	342.78	354.55	355.42
Columbia	41.1	40.6	40.9	9.27	9.43	9.50	381.00	382.86	388.55
Columbia	41.6	41.2	41.2	8.44	8.87	8.89	351.10	365.44	366.27
Greenville-Spartanburg	41.3	41.0	41.1	8.28	8.67	8.68	341.96	355.47	356.75
South Dakota									
Sioux Falls	41.5	40.4	39.7	8.03	8.18	8.12	333.25	330.47	322.36
Sioux Falls	44.2	44.9	43.5	8.10	8.56	8.36	358.02	384.34	363.66
Tennessee									
Chattanooga	41.2	40.7	41.0	8.95	9.19	9.17	368.74	374.03	375.97
Chattanooga	43.3	41.6	41.7	8.18	8.40	8.41	354.19	349.44	350.70
Johnson City-Kingsport-Bristol	42.7	42.9	42.0	9.48	9.77	9.53	404.80	419.13	400.26
Knoxville	40.2	39.1	39.1	9.08	9.09	9.09	365.02	355.42	355.42
Memphis	42.8	43.0	42.4	8.96	9.41	9.30	383.49	404.63	394.32
Nashville	41.4	40.6	41.0	10.43	10.21	10.16	431.80	414.53	416.56
Texas									
Dallas	41.7	41.3	41.1	9.94	10.26	10.21	414.50	423.74	419.63
Dallas	41.8	41.3	42.0	9.91	10.23	10.20	414.24	422.50	428.40
Ft. Worth-Arlington	41.4	40.6	40.5	10.65	10.98	10.90	440.91	445.79	441.45
Houston	43.6	43.9	43.5	11.44	11.86	11.92	498.78	520.65	518.52
San Antonio	40.1	40.0	40.2	7.45	7.53	7.54	298.75	301.20	303.11
Utah									
Salt Lake City-Ogden	40.7	39.5	41.1	9.90	10.16	10.15	402.93	401.32	417.17
Salt Lake City-Ogden	41.1	40.4	40.9	9.82	10.24	10.17	403.60	413.70	415.95
Vermont									
Burlington	41.3	39.9	40.7	9.41	10.05	9.93	388.63	401.00	404.15
Burlington	40.7	40.9	40.1	9.69	10.23	10.43	394.38	418.41	418.24
Virginia									
Bristol	40.7	40.8	40.8	9.35	9.59	9.64	380.55	391.27	393.31
Bristol	42.3	43.4	39.3	7.75	7.80	8.05	327.83	338.52	316.37
Charlottesville	41.7	41.9	42.2	7.74	8.21	8.15	322.76	344.00	343.93
Danville	40.5	41.1	40.1	8.60	8.84	8.81	348.30	363.32	353.28
Lynchburg	40.5	42.1	41.8	8.86	9.29	9.40	358.83	391.11	392.92
Northern Virginia	39.9	40.3	40.0	10.52	11.13	11.01	419.75	448.54	440.40
Richmond-Petersburg	41.9	41.4	41.8	12.05	12.56	12.50	504.90	519.98	522.50
Roanoke	41.0	41.3	40.4	8.87	9.87	9.82	363.67	407.63	396.73
Washington									
Seattle	39.4	40.2	40.6	11.68	12.36	12.08	460.19	496.87	490.45
West Virginia									
Charleston	40.7	40.3	40.7	10.63	11.30	11.14	432.64	455.39	453.40
Charleston	43.2	43.3	43.5	13.51	14.51	14.19	583.63	628.28	617.27
Huntington-Ashland	40.4	38.7	39.6	12.26	12.57	12.60	495.30	486.46	498.96
Parkersburg-Marietta	42.2	41.0	41.6	12.25	13.73	13.67	516.95	562.93	568.67
Wheeling	40.2	39.7	40.6	11.57	12.67	12.28	465.11	503.00	498.57
Wisconsin									
Appleton-Oshkosh	41.3	41.2	41.3	10.39	10.61	10.64	429.11	437.13	439.43
Appleton-Oshkosh	42.0	43.7	42.8	11.13	11.65	11.66	467.46	509.11	499.05
Eau Claire	40.9	43.2	43.0	10.69	10.57	10.56	437.22	456.62	454.08
Green Bay	42.3	41.4	40.1	11.02	11.34	11.19	466.15	469.48	448.72
Janesville-Beloit	39.4	37.3	38.0	12.52	12.67	12.72	493.29	472.59	483.36
Kenosha	39.8	41.6	42.1	12.16	11.40	11.72	483.97	474.24	493.41
La Crosse	39.0	40.4	40.2	9.09	9.89	9.73	354.51	399.56	391.15
Madison	41.7	39.2	41.0	9.73	10.31	10.18	405.74	404.15	417.38
Milwaukee	40.6	40.9	41.6	11.47	11.54	11.55	465.68	471.99	480.48
Racine	39.0	38.5	40.7	10.68	10.61	11.09	416.52	408.49	451.36
Wausau	42.0	42.3	42.9	9.95	10.31	10.22	417.90	436.11	438.44
Wyoming									
Wyoming	38.9	39.4	47.2	9.97	10.69	8.40	387.83	421.19	396.48
Puerto Rico									
Puerto Rico	39.2	39.1	39.5	5.57	5.71	5.74	218.34	223.26	226.73
Virgin Islands									
Virgin Islands	39.3	41.7	41.6	9.87	10.79	10.72	387.89	449.94	445.95

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 1988 benchmarks.

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) ¹			Percent change		
	July 1989 ^r	Aug. 1989 ^r	Sept. 1989 ^p	Sept. 1988 to Sept. 1989 ^p	July 1989 to Aug. 1989 ^r	Aug. 1989 to Sept. 1989 ^p
Total	202,538	201,588	202,482	2.5	-0.5	0.4
Private sector	167,175	166,257	166,360	2.4	-.5	.1
Mining	1,549	1,619	1,624	3.0	4.6	.3
Construction	10,533	10,527	10,449	3.4	-.1	-.7
Manufacturing	41,855	41,858	41,641	.3	.0	-.5
Durable goods	24,847	24,885	24,707	-.5	.2	-.7
Nondurable goods	17,008	16,973	16,935	1.4	-.2	-.2
Transportation and public utilities	11,800	11,408	11,684	2.3	-3.3	2.4
Wholesale trade	12,385	12,353	12,389	3.1	-.3	.3
Retail trade	29,734	29,391	29,352	1.2	-1.2	-.1
Finance, insurance, and real estate	12,884	12,754	12,708	1.8	-1.0	-.4
Services	46,435	46,348	46,512	5.0	-.2	.4
Government	35,362	35,331	36,122	2.9	-.1	2.2

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

^p = 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										
	1987	1988	1986	1987				1988				1989	
			IV	I	II	III	IV	I	II	III	IV	I	II
Business sector													
Output per hour of all persons	111.1	113.1	109.8	109.9	110.7	111.7	112.5	113.3	112.7	113.6	113.6	113.9	114.3
Output	133.4	140.0	128.9	130.4	132.2	134.4	136.7	138.2	139.3	140.7	141.9	143.6	144.2
Hours	120.1	123.8	117.4	118.6	119.5	120.3	121.5	122.0	123.6	123.9	124.9	126.0	126.2
Compensation per hour	191.0	200.4	187.4	188.2	189.5	191.8	195.2	196.5	199.3	202.2	204.8	207.2	210.6
Real compensation per hour	101.9	102.7	102.8	101.9	101.4	101.7	102.6	102.3	102.7	102.9	103.1	103.0	103.1
Unit labor costs	171.9	177.2	170.6	171.2	171.3	171.6	173.5	173.5	176.9	178.1	180.2	181.9	184.3
Unit nonlabor payments	166.3	170.8	160.7	162.6	166.5	168.9	167.2	168.9	168.8	171.7	173.6	174.7	175.9
Implicit price deflator	170.0	174.9	167.1	168.2	169.6	170.7	171.3	171.9	174.1	175.8	177.9	179.4	181.4
Nonfarm business sector													
Output per hour of all persons	108.9	111.2	107.6	107.7	108.6	109.5	110.3	111.1	110.7	111.6	112.1	111.8	112.0
Output	133.1	140.3	128.4	130.0	132.0	134.1	136.4	138.0	139.5	141.1	142.8	143.6	144.5
Hours	122.2	126.2	119.3	120.7	121.6	122.4	123.7	124.3	126.1	126.4	127.3	128.5	129.0
Compensation per hour	189.8	198.9	186.4	187.0	188.3	190.5	193.9	195.1	197.8	200.5	203.3	205.7	208.6
Real compensation per hour	101.2	101.9	102.2	101.3	100.7	101.0	101.9	101.6	101.9	102.1	102.4	102.3	102.1
Unit labor costs	174.2	178.8	173.2	173.6	173.4	173.9	175.8	175.7	178.7	179.6	181.3	184.1	186.3
Unit nonlabor payments	167.7	172.2	161.6	164.1	167.6	170.3	168.7	170.2	169.8	172.0	176.2	174.6	176.2
Implicit price deflator	172.0	176.5	169.2	170.3	171.4	172.6	173.4	173.8	175.6	177.0	179.6	180.8	182.8
Manufacturing													
Output per hour of all persons	132.9	137.7	130.1	131.3	133.1	134.3	135.1	136.3	137.5	139.2	140.0	140.7	141.7
Output	130.1	138.1	125.9	127.2	128.7	131.1	133.5	135.0	136.9	139.3	141.1	142.2	143.2
Hours	97.9	100.3	96.8	96.8	96.7	97.6	98.9	99.1	99.6	100.0	100.7	101.0	101.0
Compensation per hour	189.2	197.8	187.8	188.5	188.7	190.4	192.2	195.5	197.1	199.5	202.3	203.9	205.1
Real compensation per hour	100.9	101.3	103.0	102.0	101.0	100.9	101.0	101.8	101.5	101.5	101.9	101.3	100.4
Unit labor costs	142.3	143.6	144.3	143.5	141.8	141.8	142.3	143.5	143.3	143.2	144.5	144.8	144.7
Durable goods													
Output per hour of all persons	139.5	144.8	136.6	138.4	140.0	141.2	142.4	143.8	145.2	146.7	147.2	147.8	149.5
Output	136.0	145.0	131.8	133.3	134.2	136.5	139.9	141.3	144.0	146.4	148.3	149.1	150.0
Hours	97.5	100.2	96.5	96.4	95.9	96.7	98.2	98.3	99.2	99.8	100.7	100.9	100.4
Compensation per hour	187.4	195.3	186.9	187.9	187.4	189.0	190.6	194.5	195.0	197.0	200.2	201.8	202.4
Real compensation per hour	100.0	100.1	102.5	101.7	100.3	100.2	100.1	101.3	100.4	100.3	100.8	100.3	99.0
Unit labor costs	134.3	134.9	136.8	135.8	133.9	133.9	133.9	135.2	134.3	134.4	135.9	136.6	135.4
Nondurable goods													
Output per hour of all persons	123.2	127.3	120.5	121.0	123.1	124.3	124.4	125.3	126.1	128.3	129.3	130.3	130.4
Output	121.4	127.8	117.0	118.0	120.5	123.1	124.0	125.6	126.4	128.8	130.3	131.8	133.0
Hours	98.6	100.4	97.1	97.6	97.9	99.0	99.7	100.2	100.2	100.4	100.8	101.1	102.0
Compensation per hour	192.5	202.2	189.4	189.8	191.5	193.3	195.3	197.8	200.9	203.8	206.1	207.6	210.1
Real compensation per hour	102.7	103.6	103.9	102.8	102.4	102.5	102.6	103.0	103.5	103.8	103.8	103.2	102.8
Unit labor costs	156.2	158.9	157.1	156.9	155.6	155.5	157.0	157.8	159.3	158.9	159.4	159.3	161.1
Nonfinancial corporations													
Output per all-employee hour	112.1	114.9	110.6	110.4	111.6	113.0	113.6	114.8	115.0	115.4	115.3	114.7	114.7
Output	135.3	143.5	130.3	131.5	133.9	136.9	138.9	141.2	142.8	144.3	145.4	145.8	146.4
Hours	120.8	124.8	117.8	119.2	120.0	121.1	122.3	123.0	124.2	125.1	126.2	127.1	127.7
Compensation per hour	186.1	194.5	183.0	183.6	184.7	186.9	189.7	191.2	193.6	196.0	198.3	200.7	203.3
Real compensation per hour	99.3	99.7	100.4	99.4	98.8	99.1	99.6	99.6	99.7	99.8	99.9	99.7	99.5
Total unit costs	171.2	174.6	170.1	171.0	170.8	170.8	172.1	171.9	173.6	175.2	177.5	180.4	183.5
Unit labor costs	166.1	169.3	165.4	166.3	165.5	165.3	167.0	166.6	168.4	169.9	172.1	174.9	177.3
Unit nonlabor costs	186.4	190.3	183.7	185.0	186.3	186.9	187.2	187.8	188.9	191.0	193.3	196.9	202.1
Unit profits	123.0	128.8	120.4	118.1	122.5	129.3	122.0	127.0	129.1	127.5	131.6	119.6	112.0
Implicit price deflator	165.4	169.1	164.1	164.7	165.0	165.8	166.1	166.5	168.2	169.5	172.0	173.1	175.0

SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

**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 1988	II 1988	III 1988	IV 1988	I 1989	II 1989	I 1988	II 1988	III 1988	IV 1988	I 1989	II 1989
Business sector												
Output per hour of all persons	2.7	-2.0	3.1	0.2	1.0	1.3	3.0	1.8	1.6	1.0	0.6	1.4
Output	4.4	3.3	4.0	3.4	4.8	1.9	5.9	5.4	4.7	3.8	3.9	3.5
Hours	1.7	5.4	.9	3.2	3.8	.6	2.8	3.5	3.0	2.8	3.3	2.1
Compensation per hour	2.8	5.9	5.8	5.2	4.8	6.8	4.4	5.2	5.4	4.9	5.4	5.7
Real compensation per hour	-8	1.3	1.0	.7	-6	.4	.4	1.3	1.2	.5	.6	.4
Unit labor costs .....	.1	8.1	2.6	5.0	3.7	5.5	1.3	3.3	3.7	3.9	4.8	4.2
Unit nonlabor payments	4.2	-3	7.1	4.6	2.4	2.8	3.9	1.4	1.7	3.9	3.4	4.2
Implicit price deflator	1.5	5.1	4.1	4.8	3.3	4.6	2.2	2.6	3.0	3.9	4.3	4.2
Nonfarm business sector												
Output per hour of all persons	3.0	-1.5	3.4	1.9	-1.3	.7	3.1	1.9	1.9	1.7	.6	1.2
Output	4.8	4.4	4.6	4.8	2.4	2.4	6.1	5.7	5.2	4.7	4.1	3.6
Hours	1.8	5.9	1.2	2.8	3.8	1.7	2.9	3.7	3.3	2.9	3.4	2.4
Compensation per hour	2.7	5.5	5.5	5.9	4.8	5.6	4.3	5.1	5.2	4.9	5.4	5.5
Real compensation per hour	-9	.9	.8	1.4	-6	-7	.4	1.1	1.0	.5	.6	.2
Unit labor costs	-3	7.1	2.0	3.9	6.2	4.9	1.2	3.1	3.3	3.1	4.8	4.2
Unit nonlabor payments	3.6	-1.0	5.4	10.1	-3.7	3.7	3.7	1.3	1.0	4.4	2.6	3.8
Implicit price deflator	1.0	4.3	3.2	5.9	2.8	4.5	2.0	2.5	2.5	3.6	4.0	4.1
Manufacturing												
Output per hour of all persons	3.7	3.6	5.2	2.3	2.1	2.9	3.8	3.3	3.7	3.7	3.3	3.1
Output	4.6	5.8	7.1	5.1	3.1	2.9	6.2	6.4	6.2	5.6	5.3	4.6
Hours .....	.9	2.2	1.8	2.8	1.1	.0	2.3	3.0	2.5	1.9	2.0	1.4
Compensation per hour	7.1	3.2	4.9	5.9	3.1	2.4	3.7	4.4	4.8	5.3	4.3	4.1
Real compensation per hour	3.4	-1.3	.2	1.4	-2.2	-3.7	-2	.5	.6	.9	-.5	-1.1
Unit labor costs	3.3	-3	-3	3.5	1.0	-4	-1	1.1	1.0	1.5	1.0	.9
Durable goods												
Output per hour of all persons	4.1	3.8	4.1	1.6	1.4	4.8	4.0	3.7	3.9	3.4	2.7	3.0
Output	4.3	7.7	6.8	5.3	2.2	2.5	6.0	7.3	7.2	6.0	5.5	4.2
Hours .....	.1	3.7	2.6	3.6	.8	-2.2	2.0	3.4	3.2	2.5	2.7	1.2
Compensation per hour	8.4	1.1	4.2	6.5	3.3	1.3	3.5	4.0	4.3	5.0	3.8	3.8
Real compensation per hour	4.6	-3.3	-.5	1.9	-2.1	-4.8	-4	.2	.1	.7	-1.0	-1.4
Unit labor costs	4.1	-2.6	.1	4.8	1.8	-3.4	-4	.3	.4	1.6	1.0	.8
Nondurable goods												
Output per hour of all persons	3.0	2.7	7.0	3.2	3.2	.2	3.6	2.5	3.2	4.0	4.0	3.4
Output	5.1	2.7	7.7	4.8	4.7	3.6	6.4	4.9	4.6	5.0	5.0	5.2
Hours	2.0	.0	.7	1.5	1.4	3.3	2.7	2.4	1.4	1.0	.9	1.7
Compensation per hour	5.2	6.4	6.0	4.6	2.9	4.9	4.2	4.9	5.4	5.5	5.0	4.6
Real compensation per hour	1.5	1.8	1.2	.2	-2.4	-1.4	.2	1.0	1.2	1.2	.2	-.6
Unit labor costs	2.1	3.7	-1.0	1.4	-4	4.7	.6	2.4	2.2	1.5	.9	1.2
Nonfinancial corporations												
Output per all-employee hour	4.3	.6	1.4	-.4	-1.8	-.2	4.0	3.0	2.1	1.5	.0	-.3
Output	6.8	4.6	4.3	3.2	1.0	1.7	7.4	6.6	5.4	4.7	3.2	2.5
Hours	2.3	4.0	2.8	3.6	2.8	1.9	3.2	3.5	3.3	3.2	3.3	2.8
Compensation per hour	3.3	5.2	5.1	4.8	4.8	5.3	4.1	4.8	4.9	4.6	5.0	5.0
Real compensation per hour	-.3	.6	.3	.4	-.6	-1.0	.2	.9	.7	.2	.2	-.2
Total unit costs	-.4	3.9	3.9	5.2	6.9	7.1	.5	1.6	2.6	3.1	5.0	5.7
Unit labor costs	-1.0	4.5	3.6	5.3	6.6	5.6	.1	1.7	2.8	3.1	5.0	5.3
Unit nonlabor costs	1.1	2.5	4.6	4.9	7.5	11.1	1.5	1.4	2.2	3.3	4.9	7.0
Unit profits	17.6	6.8	-4.7	13.3	-31.7	-23.1	7.5	5.4	-1.3	7.9	-5.8	-13.2
Implicit price deflator	1.1	4.2	3.1	5.9	2.8	4.3	1.1	2.0	2.2	3.5	4.0	4.0

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. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a
Alabama	1,899.6	1,953.1	1,955.0	144.1	151.9	148.5	7.6	7.8	7.6
Birmingham	445.0	452.4	452.9	28.6	27.8	29.4	6.4	6.1	6.5
Huntsville	134.1	139.4	140.0	7.4	7.5	7.8	5.5	5.4	5.6
Mobile	210.1	215.3	215.1	18.6	19.4	19.3	8.9	9.0	9.0
Montgomery	137.0	140.1	139.8	9.1	10.1	10.4	6.6	7.2	7.4
Tuscaloosa	69.8	72.1	72.4	4.0	4.1	3.9	5.8	5.8	5.4
Alaska	250.2	250.8	249.5	20.7	15.3	14.6	8.3	6.1	5.9
Arizona	1,659.3	1,722.3	1,716.8	118.4	105.6	110.5	7.1	6.1	6.4
Phoenix	1,033.4	1,074.4	1,066.0	57.2	51.7	54.2	5.5	4.8	5.1
Tucson	311.1	322.3	324.9	17.2	15.8	17.1	5.5	4.9	5.3
Arkansas	1,112.4	1,184.2	1,170.4	84.9	89.1	69.8	7.6	7.5	6.0
Fayetteville-Springdale	60.5	64.1	64.3	2.7	2.6	1.9	4.5	4.1	3.0
Fort Smith	92.0	95.7	93.6	5.9	7.0	6.7	6.4	7.3	7.2
Little Rock-North Little Rock	261.6	279.5	276.3	17.4	19.7	15.1	6.6	7.0	5.5
Pine Bluff	36.9	39.6	39.1	3.2	3.3	2.6	8.8	8.3	6.6
California¹	14,144.6	14,602.7	14,455.4	788.1	851.2	673.9	5.6	5.8	4.7
Anaheim-Santa Ana	1,355.4	1,407.0	1,395.4	45.1	50.4	39.9	3.3	3.6	2.9
Bakersfield	227.6	235.0	231.1	22.9	23.8	20.7	10.0	10.1	9.0
Fresno	323.3	318.8	322.9	31.3	30.5	24.9	9.7	9.6	7.7
Los Angeles-Long Beach	4,088.1	4,228.4	4,174.3	219.7	235.1	184.5	5.4	5.6	4.4
Modesto	163.1	173.0	171.8	16.6	18.7	13.2	10.2	10.8	7.7
Oakland	1,081.8	1,127.8	1,116.7	53.4	56.7	45.4	4.9	5.0	4.1
Oxnard-Ventura	361.6	378.1	370.5	23.0	25.2	20.2	6.3	6.7	5.5
Riverside-San Bernardino	946.4	982.9	958.5	65.5	73.9	59.1	6.9	7.5	6.2
Sacramento	717.0	745.4	741.3	38.1	40.3	31.9	5.3	5.4	4.3
San Diego	1,141.8	1,191.9	1,181.4	53.7	56.5	45.7	4.7	4.7	3.9
San Francisco	894.0	913.5	905.8	35.8	36.4	28.9	4.0	4.0	3.2
San Jose	846.7	861.5	856.5	34.2	38.0	30.5	4.0	4.4	3.6
Santa Barbara-Santa Maria-Lompoc	181.1	183.3	180.9	8.3	8.2	6.8	4.6	4.5	3.8
Santa Rosa-Petaluma	197.6	199.6	199.9	9.4	10.0	8.0	4.8	5.0	4.0
Stockton	201.0	200.3	201.0	17.6	18.9	14.4	8.8	9.5	7.1
Vallejo-Fairfield-Napa	197.5	208.4	205.8	11.1	12.6	9.9	5.6	6.0	4.8
Colorado	1,722.3	1,688.5	1,687.3	98.7	81.9	83.5	5.7	4.9	4.9
Boulder-Longmont	132.5	129.3	129.6	5.7	5.1	5.0	4.3	3.9	3.9
Denver	890.2	866.6	870.1	49.5	40.5	41.8	5.6	4.7	4.8
Connecticut	1,793.9	1,841.8	1,831.6	60.8	63.5	67.9	3.4	3.4	3.7
Bridgeport-Milford	235.4	241.6	239.0	10.2	11.4	11.5	4.3	4.7	4.8
Hartford	431.8	447.0	442.4	13.6	13.1	14.9	3.1	2.9	3.4
New Britain	75.6	75.2	74.6	2.8	2.9	3.3	3.7	3.8	4.4
New Haven-Meriden	284.5	295.3	292.7	9.4	9.8	10.6	3.3	3.3	3.6
Stamford	119.8	122.2	121.5	2.8	2.8	3.0	2.4	2.3	2.5
Waterbury	103.0	102.7	104.8	4.5	5.3	4.9	4.4	5.1	4.7
Delaware	355.0	362.6	366.3	9.3	15.0	11.6	2.6	4.1	3.2
Wilmington	302.3	303.3	305.4	10.8	16.2	10.7	3.6	5.3	3.5
District of Columbia	342.7	330.5	331.1	17.1	16.1	16.5	5.0	4.9	5.0
Washington	2,237.4	2,331.7	2,306.7	68.5	60.5	60.9	3.1	2.6	2.6
Florida¹	6,248.5	6,382.6	6,309.9	314.8	385.9	342.1	5.0	6.0	5.4
Daytona Beach	156.3	159.9	157.0	6.9	9.3	7.8	4.4	5.8	4.9
Fort Lauderdale-Hollywood-Pompano Beach	648.3	653.9	648.7	25.6	34.0	30.8	4.0	5.2	4.8
Fort Myers-Cape Coral	143.1	149.6	148.3	5.4	6.2	5.5	3.8	4.1	3.7
Jacksonville	474.2	476.7	470.0	25.0	28.2	23.4	5.3	5.9	5.0
Melbourne-Titusville-Palm Bay	193.8	195.4	194.2	8.3	10.2	9.8	4.3	5.2	5.0
Miami-Hialeah	965.5	982.9	972.8	50.8	64.8	58.7	5.3	6.6	6.0
Orlando	600.3	615.0	605.3	25.6	34.5	28.2	4.3	5.6	4.7
Pensacola	152.5	151.3	149.9	8.3	9.3	8.5	5.4	6.1	5.7
Sarasota	126.5	127.2	126.1	4.4	4.8	4.3	3.5	3.8	3.4
Tallahassee	131.7	134.8	133.6	4.9	6.6	6.3	3.7	4.9	4.7
Tampa-St. Petersburg-Clearwater	1,013.0	1,032.9	1,018.6	45.2	54.0	47.0	4.5	5.2	4.6
West Palm Beach-Boca Raton-DeLray Beach	414.3	434.0	432.5	23.9	30.5	27.2	5.8	7.0	6.3

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a	Aug. 1988	July 1989	Aug. 1989 ^a
Georgia	3,202.9	3,283.4	3,289.3	169.1	178.2	184.5	5.3	5.4	5.6
Athens	74.0	77.2	77.0	2.6	3.3	3.3	3.5	4.3	4.3
Atlanta	1,513.6	1,543.8	1,550.2	72.0	72.2	82.2	4.8	4.7	5.3
Augusta	183.8	184.8	184.5	9.7	9.3	9.5	5.3	5.0	5.1
Columbus	102.7	103.7	103.4	5.8	5.5	5.4	5.7	5.3	5.2
Macon-Warner Robins	132.5	135.6	135.3	8.0	6.3	6.8	4.6	4.6	4.9
Savannah	115.1	114.4	114.5	6.5	5.7	6.1	5.7	5.0	5.3
Hawaii	517.6	532.3	534.6	16.5	12.9	9.7	3.2	2.4	1.8
Honolulu	383.3	391.9	393.2	10.8	8.3	6.5	2.8	2.1	1.7
Idaho	484.0	488.8	482.4	25.2	22.3	23.5	5.2	4.6	4.9
Boise City	105.1	108.6	107.1	3.5	3.2	3.1	3.3	3.0	2.9
Illinois¹	5,917.7	5,964.0	5,984.7	399.4	314.5	347.5	6.7	5.3	5.8
Aurora-Elgin	182.7	188.8	189.5	9.4	8.5	9.3	5.1	4.5	4.9
Bloomington-Normal	68.3	72.4	71.8	3.5	3.2	2.7	5.1	4.4	3.7
Champaign-Urbana-Rantoul	85.7	90.2	88.5	3.5	3.1	3.4	4.1	3.4	3.8
Chicago	3,274.4	3,288.9	3,308.5	205.6	162.7	184.9	6.3	4.9	5.6
Davenport-Rock Island-Moline	184.1	182.8	181.3	14.4	10.8	10.9	7.8	5.9	6.0
Decatur	59.1	59.4	59.6	5.0	3.9	4.4	8.5	6.6	7.4
Joliet	196.4	197.8	198.5	14.3	11.6	12.4	7.3	5.9	6.2
Kankakee	45.3	45.7	45.4	4.4	3.1	3.2	9.6	6.9	7.0
Lake County	286.0	293.8	294.1	12.2	9.4	10.7	4.3	3.2	3.6
Peoria	159.2	161.7	163.0	10.7	8.5	9.4	6.7	5.2	5.8
Rockford	151.9	150.5	152.4	10.6	10.8	8.9	7.0	7.2	5.8
Springfield	116.8	112.2	119.0	5.8	4.4	5.0	5.0	3.9	4.2
Indiana	2,841.8	2,961.7	2,933.0	139.9	113.5	121.6	4.9	3.8	4.1
Anderson	59.2	62.1	61.3	3.3	3.8	3.4	5.6	6.1	5.5
Bloomington	60.1	66.0	66.1	1.9	1.4	2.0	3.2	2.1	3.0
Elkhart-Goshen	98.6	102.4	101.8	3.7	4.1	4.8	3.7	4.0	4.7
Evansville	145.4	150.6	149.1	7.7	5.6	6.3	5.3	3.7	4.3
Fort Wayne	200.5	210.2	208.8	9.0	6.8	8.5	4.5	3.2	4.1
Gary-Hammond	258.3	271.1	267.2	15.1	9.8	11.8	5.8	3.6	4.4
Indianapolis	688.7	718.1	710.4	32.2	23.2	24.2	4.7	3.2	3.4
Lafayette-West Lafayette	65.1	67.3	66.5	1.5	1.5	1.8	2.3	2.3	2.8
Muncie	58.8	60.6	60.0	3.2	2.3	2.6	5.4	3.8	4.3
South Bend-Mishawaka	128.5	138.3	137.0	6.1	6.8	5.5	4.7	4.9	4.0
Terre Haute	58.4	60.9	60.8	3.2	2.1	2.5	5.4	3.5	4.1
Iowa	1,499.3	1,532.7	1,516.8	64.0	58.7	60.2	4.3	3.8	4.0
Cedar Rapids	95.6	95.7	94.4	3.5	3.0	2.9	3.7	3.2	3.1
Des Moines	233.2	238.2	233.7	9.2	7.9	7.5	4.0	3.3	3.2
Dubuque	42.9	43.5	45.2	2.1	2.1	4.2	4.9	4.8	9.2
Sioux City	60.1	61.0	60.5	3.2	2.4	2.6	5.2	3.9	4.3
Waterloo-Cedar Falls	68.0	70.3	69.1	3.5	3.2	3.1	5.1	4.6	4.6
Kansas	1,279.1	1,303.6	1,280.5	59.9	50.9	52.4	4.7	3.9	4.1
Topeka	93.3	93.9	92.4	4.4	4.0	4.3	4.7	4.3	4.6
Wichita	256.3	265.3	259.6	13.5	11.1	11.3	5.3	4.2	4.4
Kentucky	1,745.8	1,777.5	1,763.7	124.2	108.6	99.3	7.1	6.1	5.6
Lexington-Fayette	196.8	208.9	206.3	8.7	7.7	7.0	4.4	3.7	3.4
Louisville	511.9	528.3	524.5	29.7	24.3	27.4	5.8	4.6	5.2
Owensboro	44.2	45.4	44.7	3.4	3.0	2.8	7.7	6.5	6.2
Louisiana	1,924.4	1,965.3	1,908.0	213.5	191.7	158.5	11.1	9.8	8.3
Alexandria	60.2	61.9	60.3	6.4	6.2	5.2	10.6	10.0	8.6
Baton Rouge	269.4	274.4	267.6	26.8	24.1	20.0	10.0	8.8	7.5
Houma-Thibodaux	69.3	72.6	70.5	7.2	6.1	5.5	10.4	8.4	7.8
Lafayette	100.9	102.0	99.6	10.0	8.5	6.9	10.0	8.3	6.9
Monroe	68.5	70.1	67.7	7.2	6.4	5.1	10.6	9.2	7.6
New Orleans	602.8	616.4	600.2	58.9	54.5	45.8	9.8	8.8	7.6
Shreveport	161.8	159.8	155.8	17.5	15.9	13.3	10.8	10.0	8.5
Maine	616.0	631.4	629.4	15.0	21.9	19.2	2.4	3.5	3.0
Lewiston-Auburn	40.7	42.4	41.3	1.3	2.6	1.8	3.1	6.2	4.3
Portland	129.9	135.6	134.6	1.7	2.2	2.9	1.3	1.6	2.2

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Maryland	2,482.8	2,615.6	2,568.7	110.1	101.9	98.9	4.4	3.9	3.9
Baltimore	1,186.2	1,247.6	1,228.0	57.0	53.3	52.7	4.8	4.3	4.3
Massachusetts¹	3,181.6	3,245.0	3,243.1	98.5	148.4	126.2	3.1	4.6	3.9
Boston	1,561.0	1,584.5	1,583.1	42.8	62.5	55.4	2.7	3.9	3.5
Brockton	100.0	103.1	103.6	3.7	5.7	4.9	3.7	5.6	4.8
Fall River	77.3	78.5	77.9	3.6	8.5	4.3	4.6	8.3	5.5
Fitchburg—Leominster	46.3	47.9	48.1	2.0	3.1	2.7	4.3	6.5	5.5
Lawrence—Haverhill	189.0	192.8	193.5	7.8	11.4	10.7	4.1	5.9	5.5
Lowell	153.4	158.1	158.4	5.5	8.3	7.1	3.6	5.2	4.5
New Bedford	87.0	88.7	88.2	3.8	6.3	4.5	4.3	7.1	5.1
Pittsfield	41.9	42.5	42.5	1.8	1.9	1.7	4.3	4.8	3.9
Springfield	252.1	256.0	254.8	8.0	12.4	10.4	3.2	4.9	4.1
Worcester	222.1	232.5	233.1	6.5	9.9	8.7	2.9	4.3	3.8
Michigan¹	4,684.6	4,728.0	4,766.5	326.9	345.2	317.0	7.0	7.3	6.7
Ann Arbor	164.7	163.6	164.6	6.2	7.1	7.2	3.8	4.4	4.4
Battle Creek	66.5	66.1	67.2	4.2	4.9	4.5	6.3	7.5	6.7
Benton Harbor	80.9	81.4	82.1	4.7	5.7	5.7	5.8	7.0	7.0
Detroit	2,246.4	2,257.1	2,277.8	170.0	170.2	159.8	7.6	7.5	7.0
Flint	195.9	196.8	193.2	30.0	24.6	18.0	15.3	12.5	9.3
Grand Rapids	369.5	373.6	378.0	17.1	21.0	18.7	4.6	5.6	5.0
Jackson	66.3	66.9	68.8	4.1	4.3	4.5	6.2	6.4	6.5
Kalamazoo	117.9	120.2	120.5	5.2	6.2	5.7	4.4	5.2	4.8
Lansing—East Lansing	241.9	245.3	247.4	12.5	14.5	12.6	5.2	5.9	5.1
Muskegon	70.8	69.4	71.0	5.1	5.7	5.9	7.2	8.2	8.3
Saginaw—Bay City—Midland	187.6	189.8	192.4	11.2	13.7	12.5	6.0	7.2	6.5
Minnesota	2,366.4	2,362.8	2,381.5	108.5	94.8	92.9	4.6	4.0	3.9
Duluth	108.2	108.0	107.7	7.1	5.5	5.5	6.6	5.1	5.1
Minneapolis—St. Paul	1,416.0	1,419.4	1,434.9	58.4	51.7	51.6	4.1	3.6	3.6
Rochester	62.4	62.7	63.1	1.8	1.8	1.7	2.9	2.9	2.6
St. Cloud	94.4	93.7	94.3	4.7	3.9	3.7	5.0	4.2	3.9
Mississippi	1,138.1	1,197.1	1,171.3	103.5	99.7	86.0	9.1	8.3	7.3
Jackson	197.3	208.2	204.8	12.6	11.9	10.6	6.4	5.7	5.2
Missouri	2,600.2	2,673.4	2,634.9	140.5	138.2	125.2	5.4	5.2	4.8
Kansas City	853.6	868.8	856.4	43.7	38.1	37.2	5.1	4.4	4.3
St. Louis LMA	1,271.8	1,292.0	1,275.2	74.5	66.8	63.2	5.9	5.2	5.0
Springfield	124.4	127.4	126.1	5.1	5.3	5.1	4.1	4.2	4.0
Montana	409.2	410.2	411.7	23.0	21.4	20.4	5.6	5.2	4.9
Nebraska	832.7	824.7	825.0	30.4	27.8	25.3	3.6	3.4	3.1
Lincoln	127.3	126.3	125.4	3.4	4.1	3.1	2.7	3.2	2.5
Omaha	329.0	327.1	326.9	14.0	12.3	12.0	4.2	3.7	3.7
Nevada	591.6	607.0	601.4	26.9	32.0	27.2	4.5	5.3	4.5
Las Vegas	342.8	355.3	351.7	17.4	19.8	16.9	5.1	5.6	4.8
Reno	141.8	141.5	141.0	5.4	6.6	5.6	3.8	4.7	4.0
New Hampshire	619.6	638.6	639.6	16.2	20.5	22.8	2.6	3.2	3.6
Manchester	85.8	86.5	86.7	2.2	2.7	2.8	2.6	3.1	3.3
Nashua	99.6	99.7	100.1	3.3	3.1	4.1	3.3	3.1	4.1
Portsmouth—Dover—Rochester	137.9	137.8	137.9	2.7	3.8	3.6	2.0	2.7	2.6
New Jersey¹	4,026.9	4,045.4	4,034.6	143.1	181.6	170.9	3.6	4.5	4.2
Atlantic City	193.6	199.1	198.2	7.2	9.2	8.3	3.7	4.6	4.2
Bergen—Passaic	719.0	724.4	721.0	22.5	30.3	27.5	3.1	4.2	3.8
Jersey City	273.8	271.2	272.4	15.8	19.2	17.9	5.8	7.1	6.6
Middlesex—Somerset—Hunterdon	569.1	573.4	575.5	15.6	19.1	19.2	2.7	3.3	3.3
Monmouth—Ocean	495.7	504.4	502.5	15.0	20.0	18.7	3.0	4.0	3.7
Newark	955.8	959.4	954.8	36.5	46.1	45.4	3.8	4.8	4.8
Trenton	173.0	171.2	170.2	4.7	6.5	6.1	2.7	3.8	3.6
Vineland—Millville—Bridgeton	58.6	59.2	58.7	3.5	4.4	3.8	5.9	7.4	6.4
New Mexico	705.0	694.1	694.6	55.0	45.1	46.0	7.8	6.5	6.6
Albuquerque	268.5	265.7	267.4	16.6	13.6	14.5	6.2	5.1	5.4
Las Cruces	57.4	55.4	57.3	4.3	4.0	3.9	7.5	7.2	6.9
Santa Fe	70.2	69.1	68.2	3.4	2.8	2.4	4.8	4.1	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. 1988	July 1989	Aug. 1989 ^p	Aug. 1988	July 1989	Aug. 1989 ^p	Aug. 1988	July 1989	Aug. 1989 ^p
New York¹	8,759.6	8,863.9	8,734.3	367.8	410.4	421.5	4.2	4.6	4.8
Albany-Schenectady-Troy	433.8	444.3	440.5	14.8	16.4	16.6	3.4	3.7	3.8
Binghamton	129.6	129.1	127.6	4.3	5.6	5.3	3.3	4.3	4.1
Buffalo	460.1	469.1	462.2	22.3	27.0	26.5	4.8	5.8	5.7
Elmira	43.2	45.3	44.4	1.5	1.7	1.7	3.5	3.7	3.8
Nassau-Suffolk	1,455.2	1,489.3	1,458.5	49.9	61.6	63.4	3.4	4.1	4.3
New York	4,037.6	4,036.8	3,983.0	187.2	200.4	210.2	4.6	5.0	5.3
New York City	3,334.3	3,328.4	3,286.9	167.0	175.5	184.7	5.0	5.3	5.6
Orange County	137.1	141.2	139.4	5.1	6.5	6.7	3.7	4.6	4.8
Poughkeepsie	133.2	133.8	131.2	3.1	4.0	3.8	2.4	3.0	2.9
Rochester	512.9	522.9	517.2	18.1	19.4	20.1	3.5	3.7	3.9
Syracuse	320.9	323.8	318.3	12.7	12.8	12.6	4.0	4.0	4.0
Utica-Rome	139.8	141.8	139.4	5.7	5.9	5.8	4.1	4.2	4.1
North Carolina¹	3,409.8	3,527.7	3,484.0	102.1	118.9	121.4	3.0	3.4	3.5
Asheville	90.4	93.9	92.6	2.1	2.2	2.6	2.4	2.3	2.8
Charlotte-Gastonia-Rock Hill	646.7	677.7	669.7	17.6	21.0	21.1	2.7	3.1	3.2
Greensboro-Winston-Salem-High Point	528.4	538.0	530.1	13.8	18.2	18.5	2.6	3.4	3.5
Raleigh-Durham	409.2	425.2	419.2	8.9	11.2	10.6	2.2	2.6	2.5
North Dakota	340.7	341.6	341.2	16.6	13.2	13.6	4.9	3.9	4.0
Bismarck	47.6	47.8	48.0	2.2	1.7	1.8	4.6	3.6	3.7
Fargo-Moorhead	85.3	87.0	86.4	2.8	2.2	2.3	3.2	2.5	2.6
Grand Forks	35.6	35.5	35.7	2.0	1.5	1.8	5.7	4.3	4.9
Ohio¹	5,376.4	5,525.6	5,517.2	300.7	277.1	260.6	5.6	5.0	4.7
Akron	324.7	335.4	336.0	17.9	15.3	15.0	5.5	4.6	4.5
Canton	192.3	199.3	198.9	11.6	11.6	11.0	6.0	5.8	5.5
Cincinnati	773.7	807.8	807.0	38.7	34.3	32.1	5.0	4.2	4.0
Cleveland	943.0	967.2	963.8	48.5	41.2	39.9	5.1	4.3	4.1
Columbus	715.4	742.4	742.7	32.3	32.0	29.5	4.5	4.3	4.0
Dayton-Springfield	469.6	486.7	486.1	23.8	22.6	21.2	5.1	4.6	4.4
Toledo	310.5	321.1	320.9	16.9	17.4	16.5	5.4	5.4	5.1
Youngstown-Warren	223.8	223.8	228.8	15.5	13.6	13.4	6.9	6.1	5.9
Oklahoma	1,538.5	1,568.7	1,555.7	114.4	87.7	75.8	7.4	5.6	4.9
Enid	28.8	29.3	29.0	1.7	1.2	1.1	5.9	4.2	3.9
Lawton	49.1	51.4	50.4	3.2	2.4	2.1	6.5	4.7	4.1
Oklahoma City	499.4	507.6	500.3	31.0	23.3	20.9	6.2	4.6	4.2
Tulsa	345.7	358.3	354.4	27.6	20.0	17.4	8.0	5.6	4.9
Oregon	1,432.9	1,481.0	1,452.8	78.9	77.3	69.0	5.5	5.2	4.7
Eugene-Springfield	139.6	145.9	142.9	7.5	7.8	6.7	5.4	5.3	4.7
Portland	646.0	670.5	659.3	30.3	28.6	26.8	4.7	4.3	4.1
Salem	138.1	139.4	140.0	6.7	7.0	6.2	4.8	5.0	4.4
Pennsylvania¹	5,962.6	5,960.5	5,919.1	250.1	276.8	233.0	4.2	4.6	3.9
Allentown-Bethlehem	334.8	337.2	334.2	11.8	15.7	12.4	3.5	4.7	3.7
Altoona	61.5	61.8	61.9	3.3	3.7	3.1	5.4	5.9	5.0
Beaver County	61.4	60.2	59.5	4.7	4.6	3.8	7.6	7.6	6.5
Erie	134.3	135.3	134.5	6.4	6.5	5.5	4.7	4.8	4.1
Harrisburg-Lebanon-Carlisle	332.8	336.0	334.2	11.1	13.0	10.6	3.3	3.9	3.2
Johnstown	98.5	99.8	98.6	6.5	7.9	6.4	6.6	7.9	6.5
Lancaster	227.2	229.1	227.4	6.1	7.9	6.0	2.7	3.4	2.6
Philadelphia	2,477.5	2,460.3	2,450.8	93.1	100.0	89.5	3.8	4.1	3.7
Pittsburgh	992.5	993.1	983.7	46.7	45.3	38.9	4.7	4.6	4.0
Reading	178.5	180.5	179.1	5.8	7.0	5.3	3.2	3.9	2.9
Scranton-Wilkes-Barre	370.0	371.8	368.1	17.5	22.0	16.9	4.7	5.9	4.6
Williamsport	61.0	61.9	61.0	2.4	3.4	2.9	3.9	5.5	4.7
York	223.6	224.5	224.6	8.2	9.2	9.3	3.7	4.1	4.2
Rhode Island	537.8	537.8	534.3	16.4	21.4	19.2	3.0	4.0	3.6
Pawtucket-Woonsocket-Attleboro	170.0	169.3	168.3	6.7	8.1	7.8	3.9	4.8	4.6
Providence	348.4	349.7	346.0	10.2	13.5	12.2	2.9	3.9	3.5
South Carolina	1,685.8	1,739.0	1,737.8	72.0	78.4	75.5	4.3	4.5	4.3
Charleston	231.2	240.9	240.6	8.5	9.2	9.0	3.7	3.8	3.8
Columbia	235.7	244.4	244.2	6.8	7.9	8.2	2.9	3.2	3.3
Greenville-Spartanburg	336.1	348.6	349.9	10.2	13.1	12.0	3.0	3.8	3.4
South Dakota	365.0	371.4	370.0	15.8	14.9	15.6	4.3	4.0	4.2
Rapid City	40.3	41.4	41.0	1.7	1.5	1.8	4.1	3.6	4.5
Sioux Falls	73.8	74.3	73.2	2.8	2.7	2.2	3.8	3.7	3.0

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P	Aug. 1988	July 1989	Aug. 1989 ^P
Tennessee	2,358.9	2,386.9	2,391.3	140.1	113.8	119.1	5.9	4.8	5.0
Chattanooga	213.3	216.7	217.7	11.9	9.8	10.4	5.6	4.5	4.8
Johnson City-Kingsport-Bristol	215.4	217.5	217.4	12.3	9.9	9.7	5.7	4.6	4.4
Knoxville	288.5	287.0	287.4	14.3	13.6	15.3	5.0	4.7	5.3
Memphis LMA	448.1	453.7	456.8	23.4	18.4	20.0	5.2	4.1	4.4
Nashville	521.5	519.9	519.6	24.8	17.5	19.5	4.8	3.4	3.8
Texas¹	8,424.5	8,427.7	8,452.3	564.9	614.5	609.7	6.7	7.3	7.2
Abilene	53.7	53.5	53.7	3.0	3.8	3.8	5.6	7.1	7.0
Amarillo	101.3	99.5	99.9	5.5	5.9	5.8	5.4	5.9	5.9
Austin	426.1	421.3	421.1	24.6	26.4	25.3	5.8	6.3	6.0
Beaumont-Port Arthur	164.7	165.7	165.8	15.5	16.3	15.3	9.4	9.8	9.2
Brazoria	83.8	85.3	86.0	6.2	6.6	6.4	7.4	7.7	7.5
Brownsville-Harlingen	100.9	102.2	103.9	12.5	13.2	13.7	12.4	13.0	13.2
Bryan-College Station	58.0	59.2	58.9	2.4	3.0	2.8	4.2	5.0	4.8
Corpus Christi	159.4	159.8	160.7	13.7	14.3	14.2	8.6	9.0	8.9
Dallas	1,484.6	1,466.7	1,473.2	80.2	87.4	89.3	5.4	6.0	6.1
El Paso	243.7	247.4	249.9	24.3	27.4	26.6	10.0	11.1	10.6
Fort Worth-Arlington	699.1	700.6	708.6	40.5	42.7	46.1	5.8	6.1	6.5
Galveston-Texas City	112.0	109.9	109.3	9.1	8.8	8.3	8.1	8.0	7.6
Houston	1,654.4	1,679.4	1,681.8	103.1	109.9	108.3	6.2	6.5	6.4
Killeen-Temple	97.5	98.6	98.3	7.1	7.8	7.5	7.3	7.9	7.6
Laredo	47.3	49.5	49.6	5.2	6.0	5.6	11.1	12.0	11.3
Longview-Marshall	81.2	81.4	81.4	6.2	7.5	7.2	7.7	9.3	8.8
Lubbock	116.0	116.6	116.3	6.0	7.3	6.5	5.1	6.2	5.6
McAllen-Edinburg-Mission	146.6	150.9	152.3	23.1	25.3	26.9	15.8	16.8	17.7
Midland	50.2	49.6	49.6	2.6	3.5	3.3	5.2	7.0	6.7
Odessa	53.7	52.3	52.8	3.8	4.9	4.9	7.0	9.4	9.3
San Angelo	45.8	45.1	44.8	2.6	2.7	2.7	5.8	6.0	6.1
San Antonio	614.0	615.0	613.6	46.4	49.7	48.8	7.6	8.1	7.9
Sherman-Denison	49.9	48.0	48.0	2.9	3.0	2.8	5.9	6.2	5.8
Texarkana	57.4	58.7	58.4	4.6	4.5	4.1	8.0	7.6	7.0
Tyler	75.8	76.0	75.8	5.4	5.9	5.7	7.2	7.8	7.5
Victoria	36.9	36.7	37.1	2.4	2.4	2.4	6.5	6.6	6.5
Waco	93.1	93.0	93.5	6.1	5.8	6.4	6.5	6.3	6.8
Wichita Falls	58.0	57.5	57.7	3.1	3.8	3.7	5.4	6.6	6.4
Utah	770.3	789.1	792.0	39.2	30.9	31.4	5.1	3.9	4.0
Provo-Orem	106.5	108.9	110.9	4.6	4.2	4.2	4.3	3.8	3.8
Salt Lake City-Ogden	503.4	516.3	518.6	25.1	18.9	19.5	5.0	3.7	3.8
Vermont	300.0	311.7	307.1	6.1	11.6	11.0	2.0	3.7	3.6
Burlington	75.4	77.8	76.4	1.4	2.3	2.3	1.8	2.9	3.0
Virginia	3,140.1	3,217.0	3,215.8	120.2	101.8	95.9	3.8	3.2	3.0
Charlottesville	66.2	67.0	67.1	2.1	1.4	1.6	3.2	2.0	2.4
Danville	52.5	53.7	53.8	3.3	2.9	2.4	6.3	5.4	4.6
Lynchburg	70.4	72.0	72.7	3.0	2.6	2.5	4.3	3.6	3.4
Norfolk-Virginia Beach-Newport News	625.5	634.3	633.8	28.4	22.9	22.4	4.5	3.6	3.5
Richmond-Petersburg	449.2	467.5	467.7	15.0	14.0	13.6	3.3	3.0	2.9
Roanoke	123.3	124.3	124.4	4.9	4.1	3.4	3.9	3.3	2.7
Washington	2,321.8	2,433.7	2,422.8	138.3	140.4	129.5	6.0	5.8	5.3
Seattle	1,028.8	1,091.6	1,094.2	48.8	49.8	45.1	4.7	4.6	4.1
West Virginia	750.0	776.8	774.0	71.1	56.5	57.1	9.5	7.3	7.4
Charleston	116.5	121.5	122.1	10.1	6.0	6.8	8.7	4.9	5.6
Huntington-Ashland	126.2	131.2	130.7	10.1	7.9	7.6	8.0	6.0	5.8
Parkersburg-Marietta	71.4	74.1	74.8	4.9	3.7	4.0	6.8	5.1	5.4
Wheeling	72.3	74.0	74.3	5.1	3.9	3.9	7.1	5.3	5.3
Wisconsin	2,604.3	2,666.6	2,636.0	97.1	108.0	101.0	3.7	4.0	3.8
Appleton-Oshkosh-Neenah	174.1	176.8	175.1	5.4	6.7	6.1	3.1	3.8	3.5
Eau Claire	72.3	74.5	73.4	2.6	2.7	2.5	3.5	3.6	3.4
Green Bay	107.8	112.3	112.1	3.8	4.2	4.0	3.5	3.7	3.5
Janesville-Beloit	73.5	75.5	74.4	3.0	4.7	4.8	4.1	6.3	6.5
Kenosha	55.6	55.3	53.9	3.9	4.8	4.1	7.0	8.7	7.6
La Crosse	56.6	60.2	59.5	1.9	2.2	1.8	3.4	3.6	3.1
Madison	222.2	228.5	226.9	5.1	5.5	5.7	2.3	2.4	2.5
Milwaukee	770.2	783.0	777.7	27.6	28.9	26.7	3.6	3.7	3.7
Racine	91.4	94.4	94.5	4.0	4.7	4.6	4.4	5.0	4.8
Wausau	62.3	65.1	64.1	2.3	2.5	2.3	3.6	3.9	3.5
Wyoming	234.0	228.6	225.3	13.6	14.0	13.5	5.8	6.1	6.0

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 1988 have been

benchmarked to 1988 Current Population Survey annual averages. Except in the 11 States designated by footnote 1, estimates for 1989 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

Explanatory Notes

Introduction

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

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

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

Employment

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

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

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

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

Hours of work

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

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

Earnings

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

COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

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

COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household Data (A tables)

COLLECTION AND COVERAGE

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

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

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

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

CONCEPTS AND DEFINITIONS

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

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

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

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

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

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

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

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

Jobseekers are all unemployed persons who made

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HISTORICAL COMPARABILITY

Change in lower age limit

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

Report on the Labor Force, February 1967.

Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

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

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

Changes in the occupational and industrial classification system

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

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

The 1980 census occupational classification system evolved

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

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

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

Changes in the sample design

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

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

bile 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	1,330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2,333	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 =

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

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

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

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

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

or about 259,000.

Table F. Standard errors for unemployment rates

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

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

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

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

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

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

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

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

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

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

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

(In thousands)

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

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

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

industry indicated by the principal product or activity.

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

Industry employment

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

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

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

Indexes of diffusion of employment change (table B-7). These indexes measure the dispersion among industries of the change in employment over the specified time span. The overall indexes are calculated from 349 seasonally adjusted employment series (three-digit industries) covering all nonagricultural payroll employment in the private sector. The manufacturing diffusion indexes are based on 141 three-digit industries.

To derive the indexes, each component industry is assigned a value of 0, 50, or 100 percent, depending on whether its employment showed a decrease, no change, or an increase, respectively, over the time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and

values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment ($65 - (100 - 65) = 30$). However, for dispersion analysis, the distance of the index number from the 50-percent reference point is the most significant observation.

Although diffusion indexes are commonly interpreted as showing the percent of components that increased over the time span, it should be remembered that the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.)

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

Production and related workers include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operations.

Construction workers include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

Nonsupervisory employees include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and other employees at similar occupational levels whose services are closely associated with those of the employees listed.

Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless

earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

Hours cover the hours paid for during the pay period which includes the 12th of the month for production, construction, or nonsupervisory workers. Included are hours paid for holidays, vacations, and for sick leave when pay is received directly from the firm.

Overtime hours cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which included the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded.

Average weekly hours. The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

Indexes of aggregate weekly hours. The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1977. For basic industries, the hours aggregates are the product of average weekly hours and production worker or nonsupervisory worker employment. At all higher levels of industry aggregation, hours aggregates are the sum of the component aggregates.

Average overtime hours. The overtime hours represent that portion of the average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the industry group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours.

Average hourly earnings. Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. They also reflect shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series do not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under production worker, construction worker, or nonsupervisory employee definitions.

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

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

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

Railroad hours and earnings. The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC

group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

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

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

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

ESTIMATING METHODS

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

The "link relative" technique

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

Size and regional stratification

A number of industries are stratified by size of establish-

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

Benchmark adjustments

Employment estimates are compared periodically with

benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1987 levels. Normally, benchmark adjustments are made annually.

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

Table L. Summary of methods for computing industry statistics on employment, hours, and earnings

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
Monthly data		
All employees .	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. 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.

Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1987 benchmark adjustment is shown in table M.

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

THE SAMPLE

Design

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

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

(In thousands)

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

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

In the context of the BLS establishment survey program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table N shows the latest benchmarks and the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown.

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

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

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 The Interstate Commerce Commission provides a complete count of employment for Class I railroads.

³ Total Federal employment counts for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 56 percent of employment in Federal establishments.

Reliability

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may accumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors, which may be expressed as

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.

Table O. Average benchmark revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry

(In percent)

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

¹ The average percent revision in employment for the 1984-88 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.

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	88,900	89,500	Nondurable goods—Continued		
Total private	61,300	58,900	Chemicals and allied products	2,600	2,800
Goods-producing industries	21,200	19,800	Petroleum and coal products	1,200	1,200
Mining	4,400	4,200	Rubber and misc. plastics products	1,600	1,600
Oil and gas extraction	3,800	3,300	Leather and leather products	1,700	1,600
Construction	14,400	15,100	Service-producing industries	85,400	85,700
General building contractors	4,900	5,100	Transportation and public utilities	14,600	13,000
Manufacturing	18,200	18,300	Transportation	16,600	16,000
Durable goods	13,700	12,300	Communication and public utilities	6,500	6,100
Lumber and wood products	2,200	2,000	Wholesale trade	8,700	7,700
Furniture and fixtures	1,700	1,600	Durable goods	5,800	5,300
Stone, clay, and glass products	1,600	1,500	Nondurable goods	5,000	4,400
Primary metal industries	4,300	4,300	Retail trade	38,600	34,400
Blast furnaces and basic steel products	3,300	3,100	General merchandise stores	22,800	20,400
Fabricated metal products	2,400	2,200	Food stores	6,800	6,000
Machinery, except electrical	5,700	6,800	Automotive dealers and service stations	4,200	5,100
Electrical and electronic equipment	4,900	4,900	Eating and drinking places	10,100	9,500
Transportation equipment	7,700	7,000	Finance, insurance, and real estate	8,700	7,600
Motor vehicles and equipment	6,500	6,600	Finance	4,100	3,900
Instruments and related products	2,100	2,200	Insurance	3,700	3,100
Miscellaneous manufacturing	1,800	1,800	Real estate	5,000	4,000
Nondurable goods	8,500	8,400	Services	36,600	34,900
Food and kindred products	5,600	5,600	Business services	11,700	10,700
Tobacco manufactures	1,500	1,400	Health services	10,200	10,000
Textile mill products	1,800	1,700	Government	59,700	53,500
Apparel and other textile products	4,500	4,000	Federal	15,900	11,300
Paper and allied products	1,600	1,400	State	22,000	20,000
Printing and publishing	2,100	2,000	Local	34,600	34,500

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

Productivity Data (Tables C-9 through C-11)

COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

CONCEPTS

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

Output is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of all persons measure changes in the volume of goods and services produced per paid hour of labor input.

Compensation per hour includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

Real compensation per hour is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index for All Urban Consumers (CPI-U).

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour.

Unit nonlabor payments include profits, depreciation, interest, and indirect taxes per unit of output. They are com-

puted by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits.

Unit profits include corporate profits and inventory valuation adjustments per unit of output.

The *implicit price deflator* is derived by dividing the current-dollar estimate of gross product by the constant-dollar estimate, making the deflator, in effect, a price index for gross product of the sector reported.

NOTES ON THE DATA

For the business sector and the nonfarm business sector, these indexes relate to the gross domestic product less households and institutions, owner-occupied housing, and the statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202 523-9261).

State and Area Labor Force Data (D table)

FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which are derived from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Job Training Partnership Act, the Economic Dislocation and Worker Adjustment Assistance Act, and the Urban Development Action Grant program.

Annual average data for the States and areas shown in table D are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected

demographic, social, and economic characteristics are published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

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

ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The

estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

Estimates for States

Current monthly estimates. The civilian labor force and unemployment estimates for the 11 largest States—California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas—are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.

Two models—one for employment and one for the unemployment rate—are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.

The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the self-employed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-to-population ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment and unemployment rate models, an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when

the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

Benchmark correction procedures. Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

Estimates for sub-State areas

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

Preliminary estimate—employment. The total civilian employment estimates are based on CES data. These "place-of-work" estimates must be adjusted to refer to place-of-residence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

Preliminary estimate—unemployment. In the current month, the estimate of unemployment is an aggregate of the estimates for each of three categories: (1) persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the civilian labor force for the first time or reentering after a period of separation.

Sub-State adjustment for additivity. Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

Benchmark correction. At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical relationships. The corrected estimates are then readjusted to add to the revised (benchmarking) State estimates of employment and unemployment.

Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published monthly in *Employment and Earnings*.

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January-June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the

total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April-March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are now calculated only for the first 6 months after benchmarking. A second set of projected seasonal adjustment factors, for use during the subsequent period, will be computed based upon data through September and introduced with the publication of data for October. Revisions of historical data for the most recent 5 years will continue to be made once a year, coincident with benchmark revisions, and published in a *Supplement to Employment and Earnings*.

The BLS is also working on an extension to X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period (as well as for the occasional effects of Labor Day in the September survey reference period). If this research proves successful, this extension will be introduced for the computation of the seasonal adjustment factors to be published in November 1989.

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban

Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These

failed or unsatisfactory seasonally adjusted series, however, are used in the aggregation to broader level seasonally adjusted series.

Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census takers for the 1980 decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

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

**U.S. DEPARTMENT OF LABOR
Bureau of Labor Statistics**

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