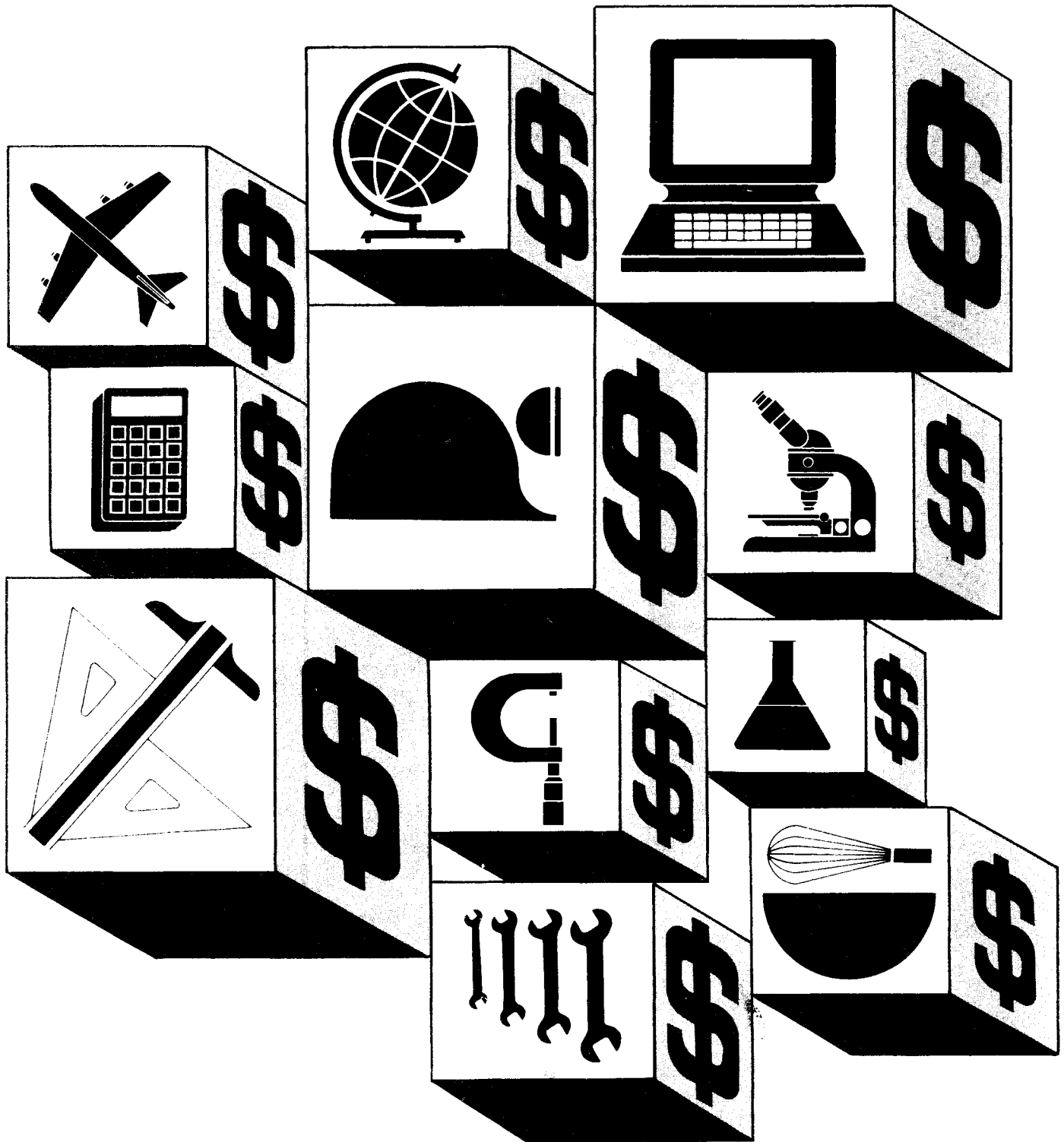


EMPLOYMENT AND EARNINGS

U.S. Department of Labor
Bureau of Labor Statistics
October 1990





U.S. DEPARTMENT OF LABOR

Elizabeth Dole, Secretary

BUREAU OF LABOR STATISTICS

Janet L. Norwood, *Commissioner*

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Calendar of Features

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

Household data

Annual averages	Jan.
Union affiliation	Jan.
Earnings by detailed occupation	Jan.
Revised seasonally adjusted series	Jan., Feb.

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

Jan., Apr., July, Oct.

Establishment data

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Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employees (final)	Mar.
National data revised to reflect new benchmarks and new seasonal adjustment factors	June ¹
Revised historical national data	(²)
State and area annual averages	May
Area definitions	May

State and area labor force data

Annual averages	May
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¹ The September 1990 issue introduced March 1989 benchmarks.

² A historical bulletin is forthcoming.

Employment and Earnings

Vol. 37 No. 10 October 1990

Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, September 1990

Employment continued to show weakness in September, and unemployment was essentially unchanged. The civilian worker unemployment rate was 5.7 percent, about half a percentage point higher than it had been earlier in the year.

Nonfarm payroll employment, as measured by the survey of business establishments, edged down by 100,000 in September, reflecting the further curtailment of decennial census work and weakness in most industries. Total civilian employment, as measured by the survey of households, rose slightly on a seasonally adjusted basis, after declining substantially in the prior 2 months.

Unemployment

The civilian worker unemployment rate was 5.7 percent in September, not substantially different from the previous month but nearly half a percentage point higher than the rates which had prevailed from the fall of 1988 to mid-1990. Unemployment rates for most major worker groups—adult men (5.1 percent), adult women (5.0 percent), whites (4.8 percent), and blacks (12.1 percent)—changed little over the month. The rate for Hispanics, however, rose to 8.7 percent, while that for teenagers fell slightly to 15.5 percent. (See tables A-33 and A-34.)

At 7.1 million, seasonally adjusted, the number of unemployed persons also was little changed over the month. There was an increase of about 150,000 in the number of unemployed on temporary layoff, but there was little change in the other unemployment categories—persons who had been permanently separated, job leavers, and labor force entrants. The number of persons working part time for economic reasons (often referred to as the partially unemployed) rose by 330,000 in September to 5.4 million. (See tables A-33, A-35, and A-41.)

Civilian employment and the labor force

Total civilian employment, at 117.9 million, seasonally adjusted, rose a bit in September, after declining by 700,000 in the prior 2 months. The proportion of the working-age population that is employed (the employment-population ratio) was 62.6 percent in September, little different from the July and August figures. While there was a seasonally adjusted rise in the number of work-

ing teens in September that offset somewhat the declines occurring during the summer months, these movements seem to reflect an unusual teenage employment pattern this summer. Substantially fewer teens than usual found jobs this summer; consequently, fewer than usual left the workforce when school resumed. (See table A-33.)

The total number of persons in the civilian labor force (125.0 million) and the labor force participation rate (66.3 percent) were little changed over the month, after seasonal adjustment. The labor force was up by 950,000 from a year earlier. (See table A-33.)

Discouraged workers

The number of discouraged workers—persons who report they want to work but have not looked for jobs because they believed that none was available—totaled 835,000 in the third quarter of 1990, after seasonal adjustment, essentially unchanged from the previous quarter. (See table A-53.)

Industry payroll employment

Payroll employment exhibited further weakness in September. Job losses continued among goods-producing industries, and the service-producing sector showed virtually no net job growth. At a level of 110.6 million, total nonfarm employment was down by 100,000 over the month. About 40,000 of this decline, however, was among temporary census workers. (See table B-4.)

The number of factory jobs fell by 65,000 in September, after seasonal adjustment. Manufacturing has lost 520,000 jobs since its peak in January 1989, with 115,000 of that occurring in just the last 2 months. Durable goods industries continued to account for most of the declines, as transportation equipment, electronic equipment, and industrial machinery each lost nearly 15,000 jobs in September. Smaller but still significant losses occurred in fabricated metals, furniture, and stone, clay, and glass products.

Elsewhere in the goods-producing sector, construction employment fell by 20,000 in September, after seasonal adjustment, as job losses in the last 4 months have totaled over 100,000. In mining and its oil and gas extraction component, employment was about unchanged over the month.

Within the service-producing sector, only a few industries provided evidence of employment growth in September. Health services added 45,000 jobs over the month and has accounted for nearly two-fifths of total job growth thus far this year. Local government employment grew by 25,000 in September and has increased by 325,000 over the past year; much of the September increase was in local education, reflecting growth in school enrollments. Transportation employment rose by 15,000 over the month, partially due to increased hiring by school bus companies.

Among the industries losing jobs, business services declined by 15,000 over the month. The finance, insurance, and real estate industry experienced a further small decline; its real estate component has slipped by 15,000 since May. Employment in retail trade edged down for the second consecutive month; general merchandise stores have led the dropoff in this industry, having lost 70,000 jobs since May 1989. Total government employment fell by 35,000 in September, as the gain in local government hiring was more than offset by declines at the state and federal levels (the latter due to continued cutbacks in the number of decennial census workers).

Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls rose by 0.2 hour in September to 34.7 hours, seasonally adjusted. The factory workweek was unchanged at 41.0 hours, while factory overtime edged down by 0.1 hour to 3.7 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls, at 124.7 (1982=100), edged up by 0.2 percent in September. By contrast, the index for manufacturing fell 0.5 percent, to 106.6. This index was down 2.2 percent over the past year, reflecting the cutbacks in manufacturing employment.

Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers rose 0.5 percent in September on a seasonally adjusted basis. Prior to seasonal adjustment, average hourly earnings increased by 17 cents to \$10.17, and average weekly earnings rose by \$5.92 to \$353.92. Over the year, average hourly earnings increased by 4.1 percent and average weekly earnings by 4.4 percent. (See tables C-1 and C-7.)

Note on temporary census workers

The number of temporary workers associated with the 1990 census has an impact on the employment levels for the Federal Government, as well as for higher aggregates. The estimate of these workers was 22,000 in January, 27,000 in February, 117,000 in March, 178,000 in April, 378,000 in May, 367,000 in June, 194,000 in July, and 66,000 in August. For September, the estimated number (preliminary) was 24,000.

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 2	January	February 1
November	December 7	February	March 8
December	January 4	March	April 5

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1956 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											
1956	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402
1957	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336
1958	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088
1959	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960
1960 ¹	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617
1961	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312
1962 ¹	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539
1963	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583
1964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394
1965	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058
1966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288
1967	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527
1968	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291
1969	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602
1970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834
1972 ¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091
1973 ¹	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667
1974	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171
1975	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377
1976	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991
1977	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025
1978 ¹	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
1980	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460
1982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067
1983	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665
1984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986 ¹	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
1987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
1988	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
1989	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523
Monthly data, seasonally adjusted²											
1989:											
September	188,428	125,725	66.7	119,121	1,702	117,419	3,219	114,200	6,604	5.3	62,703
October	188,580	125,857	66.7	119,294	1,709	117,585	3,197	114,388	6,563	5.2	62,723
November	188,721	126,192	66.9	119,540	1,704	117,836	3,160	114,676	6,652	5.3	62,529
December	188,865	126,246	66.8	119,588	1,700	117,888	3,197	114,691	6,658	5.3	62,619
1990:											
January	188,990	126,094	66.7	119,560	1,697	117,863	3,134	114,728	6,535	5.2	62,896
February	189,090	126,308	66.8	119,713	1,678	118,035	3,079	114,957	6,594	5.2	62,782
March	189,198	126,498	66.9	120,003	1,669	118,334	3,200	115,133	6,495	5.1	62,700
April	189,326	126,543	66.8	119,773	1,657	118,116	3,133	114,983	6,770	5.3	62,783
May	189,467	126,643	66.8	119,989	1,639	118,350	3,305	115,045	6,653	5.3	62,824
June	189,607	126,466	66.7	120,019	1,630	118,389	3,348	115,041	6,447	5.1	63,141
July	189,763	126,394	66.6	119,580	1,627	117,953	3,085	114,867	6,814	5.4	63,369
August	189,901	126,300	66.5	119,298	1,640	117,658	3,137	114,521	7,003	5.5	63,601
September	190,002	126,568	66.6	119,499	1,601	117,898	3,181	114,717	7,069	5.6	63,434

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, 1979 to date

(Numbers in thousands)

Sex, year, and month	Noninsti- tutional 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												
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	63,488	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,738	53,534	6,179	9.7	19,073	
1983	84,064	64,580	78.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984	85,158	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	8.8	20,376	
1987	88,476	67,784	76.8	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988	89,404	68,474	76.8	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989	90,283	69,360	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923	
Monthly data, seasonally adjusted²												
1989:												
September	90,456	69,360	76.7	65,681	1,531	64,150	2,520	61,630	3,679	5.3	21,096	
October	90,535	69,599	76.9	66,046	1,533	64,513	2,513	62,000	3,553	5.1	20,936	
November	90,806	69,835	76.9	66,011	1,529	64,482	2,477	62,005	3,624	5.2	20,971	
December	90,678	69,725	76.9	66,143	1,525	64,618	2,535	62,083	3,582	5.1	20,953	
1990:												
January	90,772	69,539	76.8	65,943	1,523	64,420	2,501	61,918	3,597	5.2	21,233	
February	90,822	69,639	76.7	66,108	1,506	64,602	2,461	62,141	3,530	5.1	21,183	
March	90,874	69,712	76.7	66,208	1,497	64,711	2,499	62,212	3,505	5.0	21,162	
April	90,942	69,779	76.7	66,043	1,499	64,544	2,415	62,129	3,735	5.4	21,163	
May	91,014	69,737	76.6	66,058	1,472	64,586	2,560	62,026	3,679	5.3	21,277	
June	91,087	69,599	76.4	66,000	1,465	64,535	2,601	61,933	3,599	5.2	21,488	
July	91,168	69,544	76.3	65,740	1,462	64,278	2,458	61,821	3,804	5.5	21,624	
August	91,240	69,459	76.1	65,596	1,475	64,121	2,458	61,663	3,863	5.6	21,781	
September	91,271	69,809	76.5	65,867	1,441	64,426	2,506	61,919	3,943	5.6	21,462	
Annual averages												
WOMEN												
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	687	42,333	3,696	7.9	42,922	
1982	90,867	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	98,918	54,904	56.6	51,858	162	51,696	876	51,020	3,046	5.5	42,014	
1989	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601	
Monthly data, seasonally adjusted²												
1989:												
September	97,972	56,365	57.5	53,440	171	53,269	699	52,570	2,925	5.2	41,607	
October	98,045	56,258	57.4	53,248	176	53,072	684	52,386	3,010	5.4	41,787	
November	98,115	56,557	57.8	53,529	175	53,354	683	52,671	3,028	5.4	41,558	
December	98,187	56,521	57.6	53,445	175	53,270	662	52,608	3,076	5.4	41,666	
1990:												
January	98,218	56,555	57.6	53,617	174	53,443	633	52,810	2,938	5.2	41,663	
February	98,268	56,669	57.7	53,605	172	53,433	618	52,815	3,064	5.4	41,599	
March	98,324	56,785	57.8	53,795	172	53,623	702	52,921	2,990	5.3	41,539	
April	98,383	56,764	57.7	53,729	158	53,571	718	52,853	3,034	5.3	41,619	
May	98,453	56,906	57.8	53,931	167	53,764	745	53,019	2,975	5.2	41,547	
June	98,520	56,867	57.7	54,019	165	53,854	747	53,108	2,848	5.0	41,653	
July	98,595	58,849	57.7	53,839	165	53,674	628	53,047	3,010	5.3	41,746	
August	98,661	56,842	57.6	53,702	165	53,537	679	52,858	3,140	5.5	41,819	
September	98,731	56,758	57.5	53,632	160	53,472	674	52,798	3,126	5.5	41,973	

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, 1956 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								
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 ²	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 ³	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 ⁴	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
1989	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
Monthly data, seasonally adjusted ²								
1989:								
September	186,726	124,023	66.4	117,419	6,604	5.3	5.4	5.2
October	186,871	124,148	66.4	117,585	6,563	5.3	5.2	5.4
November	187,017	124,488	66.6	117,836	6,652	5.3	5.3	5.4
December	187,165	124,546	66.5	117,888	6,658	5.3	5.3	5.5
1990:								
January	187,293	124,397	66.4	117,863	6,535	5.3	5.3	5.2
February	187,412	124,630	66.5	118,035	6,594	5.3	5.2	5.4
March	187,529	124,829	66.6	118,334	6,495	5.2	5.1	5.3
April	187,669	124,886	66.5	118,116	6,770	5.4	5.5	5.4
May	187,828	125,004	66.6	118,350	6,653	5.3	5.4	5.2
June	187,977	124,836	66.4	118,389	6,447	5.2	5.3	5.0
July	188,136	124,767	66.3	117,953	6,814	5.5	5.6	5.3
August	188,261	124,660	66.2	117,658	7,003	5.6	5.7	5.5
September	188,401	124,967	66.3	117,898	7,069	5.7	5.8	5.5

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

Explanatory Notes.

² The population figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	September 1990										
	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	188,401	124,779	66.2	117,961	8,818	5.5	63,622	26,188	8,803	3,846	24,787
16 to 19 years	13,696	6,882	50.2	5,779	1,103	16.0	6,815	457	5,728	32	597
16 to 17 years	8,611	2,563	38.8	2,121	442	17.2	4,048	105	3,727	11	205
18 to 19 years	7,085	4,319	81.0	3,658	661	15.3	2,766	352	2,001	21	392
20 to 24 years	17,801	13,745	77.2	12,470	1,274	9.3	4,056	1,400	1,960	103	593
25 to 54 years	105,860	88,553	83.7	84,596	3,957	4.5	17,307	11,520	1,074	1,618	3,094
25 to 34 years	42,664	35,705	83.7	33,769	1,936	5.4	6,959	4,752	726	389	1,091
25 to 29 years	20,725	17,324	83.6	16,304	1,020	5.9	3,401	2,246	456	159	539
30 to 34 years	21,939	18,381	83.8	17,465	916	5.0	3,558	2,506	269	230	552
35 to 44 years	37,666	32,138	85.3	30,805	1,333	4.1	5,528	3,767	256	567	938
35 to 39 years	20,011	17,047	85.2	16,301	746	4.4	2,964	2,115	156	231	462
40 to 44 years	17,655	15,091	85.5	14,504	587	3.9	2,564	1,651	100	336	477
45 to 54 years	25,530	20,710	81.1	20,022	688	3.3	4,820	3,001	92	682	1,065
45 to 49 years	13,974	11,735	84.0	11,336	399	3.4	2,239	1,437	59	294	448
50 to 54 years	11,556	8,975	77.7	8,686	289	3.2	2,581	1,564	33	368	617
55 to 64 years	21,233	11,982	56.4	11,593	389	3.2	9,251	4,251	23	834	4,144
55 to 59 years	10,559	7,162	87.8	6,937	225	3.1	3,397	1,840	13	409	1,135
60 to 64 years	10,675	4,820	45.2	4,656	164	3.4	5,854	2,410	11	425	3,008
65 years and over	29,811	3,618	12.1	3,523	95	2.6	26,194	8,557	18	1,259	16,359
65 to 69 years	10,122	2,165	21.4	2,100	66	3.0	7,956	2,683	4	309	4,961
70 to 74 years	7,966	945	11.9	921	24	2.6	7,021	2,332	3	241	4,444
75 years and over	11,723	507	4.3	502	5	1.0	11,216	3,542	11	709	6,954
Men											
16 years and over	89,830	68,128	75.8	64,612	3,516	5.2	21,703	614	4,434	2,116	14,540
16 to 19 years	6,890	3,552	51.5	2,961	591	16.6	3,338	19	2,981	17	321
16 to 17 years	3,382	1,332	39.4	1,094	238	17.8	2,050	10	1,935	7	98
18 to 19 years	3,508	2,220	63.3	1,866	354	15.9	1,288	9	1,046	10	223
20 to 24 years	8,659	7,192	83.1	6,555	637	8.9	1,467	48	1,034	59	326
25 to 54 years	51,807	48,461	93.5	46,473	1,988	4.1	3,346	278	408	1,016	1,644
25 to 34 years	21,002	19,800	94.3	18,803	997	5.0	1,202	105	318	251	528
25 to 29 years	10,164	9,552	94.0	9,034	518	5.4	613	51	223	104	234
30 to 34 years	10,838	10,248	94.6	9,769	479	4.7	589	54	95	147	293
35 to 44 years	18,438	17,405	94.4	16,750	654	3.8	1,034	104	73	358	499
35 to 39 years	9,823	9,321	94.9	8,967	354	3.8	502	63	45	144	250
40 to 44 years	8,615	8,084	93.8	7,783	300	3.7	532	41	28	214	249
45 to 54 years	12,366	11,256	91.0	10,919	337	3.0	1,110	69	17	407	617
45 to 49 years	6,783	6,313	93.1	6,116	197	3.1	470	27	15	184	245
50 to 54 years	5,583	4,943	88.5	4,803	139	2.8	640	42	3	223	372
55 to 64 years	10,042	8,887	88.6	8,639	248	3.6	3,155	82	4	502	2,566
55 to 59 years	5,025	4,069	81.0	3,932	137	3.4	957	35	2	241	679
60 to 64 years	5,017	2,818	56.2	2,707	111	4.0	2,198	47	2	281	1,887
65 years and over	12,433	2,036	16.4	1,985	52	2.5	10,396	186	7	521	9,682
65 to 69 years	4,591	1,178	25.7	1,145	33	2.8	3,413	54	3	146	3,210
70 to 74 years	3,496	566	16.2	549	17	3.0	2,930	41	1	114	2,773
75 years and over	4,346	292	6.7	290	2	.6	4,054	91	3	261	3,899
Women											
16 years and over	98,571	56,651	57.5	53,350	3,302	5.8	41,919	25,572	4,370	1,731	10,247
16 to 19 years	6,806	3,330	48.9	2,818	511	15.4	3,476	438	2,748	15	276
16 to 17 years	3,229	1,231	38.1	1,027	204	16.6	1,999	95	1,792	4	107
18 to 19 years	3,577	2,099	58.7	1,792	307	14.6	1,478	343	955	11	169
20 to 24 years	9,142	6,553	71.7	5,916	637	9.7	2,589	1,352	926	44	266
25 to 54 years	54,053	40,092	74.2	38,123	1,969	4.9	13,961	11,242	666	602	1,451
25 to 34 years	21,662	15,905	73.4	14,966	939	5.9	5,757	4,647	408	136	564
25 to 29 years	10,560	7,773	73.6	7,270	503	6.5	2,788	2,195	233	55	305
30 to 34 years	11,101	8,133	73.3	7,696	437	5.4	2,969	2,453	174	83	259
35 to 44 years	19,227	14,733	76.6	14,055	678	4.6	4,494	3,662	164	209	439
35 to 39 years	10,188	7,726	75.8	7,334	391	5.1	2,462	2,052	111	87	211
40 to 44 years	9,040	7,008	77.5	6,721	287	4.1	2,032	1,610	72	122	228
45 to 54 years	13,164	9,454	71.8	9,103	351	3.7	3,710	2,932	75	255	448
45 to 49 years	7,191	5,422	75.4	5,220	202	3.7	1,769	1,411	45	111	203
50 to 54 years	5,973	4,032	67.5	3,882	150	3.7	1,941	1,521	30	145	245
55 to 64 years	11,192	5,095	45.5	4,954	141	2.8	6,096	4,169	19	331	1,578
55 to 59 years	5,539	3,093	55.9	3,005	88	2.8	2,440	1,805	11	168	456
60 to 64 years	5,658	2,002	35.4	1,949	53	2.6	3,656	2,363	8	163	1,121
65 years and over	17,378	1,581	9.1	1,538	44	2.8	15,797	8,371	11	738	6,677
65 to 69 years	5,531	987	17.8	954	33	3.3	4,544	2,629	1	163	1,751
70 to 74 years	4,470	379	8.5	372	7	2.0	4,091	2,291	2	127	1,671
75 years and over	7,378	215	2.9	212	3	1.6	7,162	3,451	8	448	3,255

**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 1990										
	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	160,640	107,261	66.8	102,277	4,984	4.6	53,379	22,394	6,577	2,905	21,503
16 to 19 years	11,003	5,979	54.3	5,132	847	14.2	5,024	321	4,265	26	412
16 to 17 years	5,243	2,249	42.9	1,905	345	15.3	2,993	78	2,762	10	143
18 to 19 years	5,760	3,730	64.8	3,227	503	13.5	2,030	242	1,503	16	269
20 to 24 years	14,665	11,632	79.3	10,805	828	7.1	3,032	1,049	1,482	68	433
25 to 54 years	89,737	75,830	84.5	72,939	2,891	3.8	13,908	9,557	794	1,194	2,362
25 to 34 years	35,746	30,268	84.7	28,917	1,371	4.5	5,458	3,888	533	289	749
25 to 29 years	17,286	14,644	84.7	13,915	729	5.0	2,642	1,826	335	117	364
30 to 34 years	18,460	15,644	84.7	15,002	642	4.1	2,816	2,062	197	171	385
35 to 44 years	32,086	27,620	86.1	26,663	957	3.5	4,466	3,117	191	434	723
35 to 39 years	16,916	14,557	86.1	14,015	542	3.7	2,359	1,729	104	177	347
40 to 44 years	15,170	13,063	86.1	12,647	415	3.2	2,107	1,388	86	257	376
45 to 54 years	21,906	17,922	81.8	17,359	563	3.1	3,984	2,552	70	471	890
45 to 49 years	12,008	10,171	84.7	9,848	323	3.2	1,837	1,216	44	212	366
50 to 54 years	9,897	7,751	78.3	7,511	240	3.1	2,146	1,336	27	259	524
55 to 64 years	18,502	10,566	57.1	10,225	341	3.2	7,935	3,684	21	638	3,592
55 to 59 years	9,139	6,277	68.7	6,082	195	3.1	2,862	1,566	12	313	870
60 to 64 years	9,363	4,289	45.8	4,144	146	3.4	5,074	2,117	9	325	2,623
65 years and over	26,733	3,253	12.2	3,176	77	2.4	23,480	7,783	15	978	14,704
65 to 69 years	8,993	1,940	21.6	1,887	53	2.7	7,054	2,417	4	227	4,406
70 to 74 years	7,163	853	11.9	834	19	2.3	6,309	2,149	1	196	3,963
75 years and over	10,577	460	4.4	455	5	1.1	10,117	3,218	10	555	6,335
Men											
16 years and over	77,204	59,210	76.7	56,621	2,589	4.4	17,994	433	3,293	1,630	12,638
16 to 19 years	5,555	3,094	55.7	2,630	464	15.0	2,460	12	2,215	13	220
16 to 17 years	2,684	1,170	43.6	984	186	15.9	1,514	6	1,432	7	70
18 to 19 years	2,871	1,925	67.0	1,648	278	14.5	946	6	784	7	150
20 to 24 years	7,197	6,112	84.9	5,700	412	6.7	1,085	25	795	41	225
25 to 54 years	44,470	42,009	94.5	40,559	1,450	3.5	2,461	169	273	775	1,244
25 to 34 years	17,812	16,996	95.4	16,283	713	4.2	816	59	217	192	347
25 to 29 years	8,581	8,171	95.2	7,797	375	4.6	410	27	165	78	140
30 to 34 years	9,230	8,825	95.6	8,486	338	3.8	406	32	52	114	207
35 to 44 years	15,918	15,144	95.1	14,673	471	3.1	773	61	42	281	390
35 to 39 years	8,422	8,074	95.9	7,817	258	3.2	348	40	18	107	182
40 to 44 years	7,495	7,070	94.3	6,857	213	3.0	425	21	24	173	208
45 to 54 years	10,741	9,869	91.9	9,603	266	2.7	872	49	13	303	507
45 to 49 years	5,905	5,547	93.9	5,393	154	2.8	358	15	11	136	195
50 to 54 years	4,836	4,322	89.4	4,210	112	2.6	514	34	2	166	312
55 to 64 years	8,811	6,126	69.5	5,905	221	3.6	2,686	68	4	384	2,229
55 to 59 years	4,394	3,616	82.3	3,497	120	3.3	777	23	2	181	572
60 to 64 years	4,418	2,509	56.8	2,408	101	4.0	1,908	46	2	203	1,657
65 years and over	11,171	1,870	16.7	1,826	43	2.3	9,302	159	7	416	8,720
65 to 69 years	4,111	1,084	26.4	1,054	30	2.7	3,027	47	3	112	2,865
70 to 74 years	3,133	516	16.5	504	12	2.3	2,617	36	1	98	2,482
75 years and over	3,927	270	6.9	268	2	.6	3,657	76	3	206	3,373
Women											
16 years and over	83,436	48,051	57.6	45,656	2,394	5.0	35,385	21,961	3,283	1,274	8,866
16 to 19 years	5,448	2,885	52.9	2,501	383	13.3	2,563	309	2,050	13	192
16 to 17 years	2,559	1,080	42.2	921	159	14.7	1,479	73	1,330	4	73
18 to 19 years	2,890	1,805	62.5	1,581	224	12.4	1,084	236	720	9	119
20 to 24 years	7,468	5,521	73.9	5,105	416	7.5	1,947	1,024	687	27	209
25 to 54 years	45,268	33,821	74.7	32,380	1,441	4.3	11,447	9,388	521	419	1,118
25 to 34 years	17,935	13,292	74.1	12,634	658	5.0	4,643	3,829	316	96	401
25 to 29 years	8,705	6,473	74.4	6,118	355	5.5	2,232	1,799	171	39	223
30 to 34 years	9,230	6,819	73.9	6,516	303	4.4	2,410	2,030	145	57	178
35 to 44 years	16,168	12,476	77.2	11,990	486	3.9	3,692	3,057	148	154	333
35 to 39 years	8,493	8,483	76.3	6,199	284	4.4	2,011	1,689	86	70	165
40 to 44 years	7,675	5,993	78.1	5,791	202	3.4	1,682	1,367	62	84	169
45 to 54 years	11,165	8,053	72.1	7,758	297	3.7	3,112	2,502	57	169	384
45 to 49 years	6,104	4,624	75.8	4,455	169	3.6	1,480	1,201	32	75	171
50 to 54 years	5,062	3,429	67.8	3,301	128	3.7	1,632	1,302	25	93	212
55 to 64 years	9,690	4,441	45.8	4,320	120	2.7	5,250	3,615	17	254	1,364
55 to 59 years	4,745	2,661	56.1	2,585	76	2.9	2,084	1,544	10	133	398
60 to 64 years	4,945	1,780	36.0	1,735	45	2.5	3,165	2,072	7	121	966
65 years and over	15,562	1,384	8.9	1,350	34	2.4	14,178	7,625	8	582	5,983
65 to 69 years	4,883	856	17.5	833	23	2.7	4,026	2,370	1	115	1,541
70 to 74 years	4,029	337	8.4	330	7	2.2	3,692	2,113	1	98	1,481
75 years and over	6,650	190	2.9	187	3	1.8	6,460	3,142	7	349	2,962

**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 1990										
	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	21,361	13,425	62.8	11,855	1,569	11.7	7,937	2,874	1,590	844	2,629
16 to 19 years	2,136	731	34.2	515	215	29.5	1,405	122	1,131	4	147
16 to 17 years	1,055	241	22.8	160	81	33.5	814	23	740	1	50
18 to 19 years	1,081	490	45.4	355	135	27.5	591	100	391	3	97
20 to 24 years	2,440	1,854	67.8	1,267	387	23.4	785	297	317	35	138
25 to 54 years	12,130	9,657	79.6	8,748	909	9.4	2,473	1,397	137	359	581
25 to 34 years	5,350	4,251	79.4	3,753	498	11.7	1,099	633	100	86	281
25 to 29 years	2,668	2,098	78.6	1,823	276	13.1	570	313	70	40	147
30 to 34 years	2,682	2,153	80.2	1,930	222	10.3	530	320	30	46	134
35 to 44 years	4,118	3,370	81.8	3,058	312	9.3	748	440	29	110	169
35 to 39 years	2,291	1,862	81.2	1,691	171	9.2	430	273	23	43	92
40 to 44 years	1,827	1,509	82.6	1,368	141	9.4	318	167	6	67	77
45 to 54 years	2,662	2,036	76.5	1,937	99	4.9	626	324	8	163	131
45 to 49 years	1,415	1,115	78.8	1,057	58	5.2	300	158	9	69	64
50 to 54 years	1,247	921	73.8	880	40	4.4	326	166	-	94	67
55 to 64 years	2,140	1,074	50.2	1,033	41	3.8	1,065	440	2	184	439
55 to 59 years	1,107	673	60.8	649	25	3.8	434	213	-	93	128
60 to 64 years	1,032	401	38.8	384	16	4.1	631	228	2	90	312
65 years and over	2,517	309	12.3	292	17	5.5	2,208	616	3	263	1,326
65 to 69 years	914	189	20.7	176	13	6.8	724	204	-	74	447
70 to 74 years	649	75	11.5	71	4	5.4	574	151	1	42	380
75 years and over	955	45	4.7	45	-	(¹)	910	262	1	147	499
Men											
16 years and over	9,595	6,714	70.0	5,924	790	11.8	2,881	153	795	431	1,502
16 to 19 years	1,055	382	36.2	266	116	30.5	673	8	583	3	79
16 to 17 years	536	129	24.1	79	50	39.0	407	5	377	-	24
18 to 19 years	519	253	48.7	187	66	26.1	266	3	205	3	55
20 to 24 years	1,114	833	74.8	638	195	23.4	280	20	161	18	82
25 to 54 years	5,443	4,787	88.0	4,339	448	9.4	655	93	52	201	309
25 to 34 years	2,424	2,156	88.9	1,915	241	11.2	268	39	39	50	141
25 to 29 years	1,210	1,061	87.7	928	133	12.6	148	20	26	25	77
30 to 34 years	1,215	1,095	90.1	987	108	9.8	120	18	13	24	64
35 to 44 years	1,839	1,637	89.0	1,485	152	9.3	202	37	13	63	90
35 to 39 years	1,024	907	88.5	824	83	9.2	117	19	10	31	57
40 to 44 years	815	731	89.7	662	69	9.4	84	18	2	32	32
45 to 54 years	1,179	994	84.3	938	55	5.6	186	18	-	89	79
45 to 49 years	828	540	65.1	506	34	6.3	87	9	-	40	38
50 to 54 years	552	453	82.2	432	21	4.7	98	8	-	50	41
55 to 64 years	966	572	59.3	549	23	4.0	393	12	-	110	271
55 to 59 years	500	350	70.0	335	15	4.3	150	10	-	58	82
60 to 64 years	466	222	47.7	214	8	3.7	243	2	-	52	190
65 years and over	1,017	139	13.6	132	7	4.9	878	20	-	98	761
65 to 69 years	397	78	19.7	75	3	3.8	319	6	-	29	284
70 to 74 years	287	40	13.9	36	4	(¹)	247	5	-	16	226
75 years and over	333	21	6.2	21	-	(¹)	313	9	-	53	251
Women											
16 years and over	11,767	6,711	57.0	5,931	779	11.6	5,056	2,721	795	413	1,128
16 to 19 years	1,080	349	32.3	250	99	28.4	732	114	549	1	68
16 to 17 years	519	111	21.4	81	30	27.1	408	17	363	1	27
18 to 19 years	562	237	42.3	168	69	29.0	324	97	186	-	42
20 to 24 years	1,326	821	61.9	629	192	23.4	505	277	156	17	55
25 to 54 years	6,687	4,869	72.8	4,409	460	9.5	1,818	1,304	85	157	272
25 to 34 years	2,926	2,094	71.6	1,837	257	12.3	831	595	61	37	140
25 to 29 years	1,458	1,037	71.1	895	142	13.7	421	293	44	15	70
30 to 34 years	1,468	1,057	72.1	943	115	10.8	410	302	16	22	70
35 to 44 years	2,279	1,733	76.0	1,573	160	9.2	546	403	18	47	79
35 to 39 years	1,287	955	75.3	867	88	9.2	313	254	12	11	34
40 to 44 years	1,012	778	76.9	706	72	9.3	234	149	4	38	45
45 to 54 years	1,482	1,042	70.3	999	44	4.2	440	306	8	73	53
45 to 49 years	787	575	73.0	550	25	4.3	212	149	8	29	26
50 to 54 years	695	467	67.2	448	19	4.1	228	157	-	44	26
55 to 64 years	1,174	502	42.8	484	18	3.6	672	429	2	73	168
55 to 59 years	607	323	53.2	314	10	3.0	284	203	-	35	46
60 to 64 years	567	179	31.5	170	8	4.6	388	226	2	38	122
65 years and over	1,500	170	11.3	160	10	6.0	1,330	597	3	165	565
65 to 69 years	517	111	21.5	101	10	8.9	405	198	-	45	163
70 to 74 years	362	35	9.6	34	-	(¹)	327	146	1	26	154
75 years and over	621	24	3.9	24	-	(¹)	597	253	1	94	248

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 1990								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	27,761	17,516	63.1	15,684	228	15,456	1,834	10.5	10,243
16 to 19 years	2,693	902	33.5	647	10	637	255	28.3	1,791
16 to 17 years	1,369	314	22.9	216	5	212	97	31.0	1,055
18 to 19 years	1,325	589	44.5	431	5	425	158	26.9	736
20 to 24 years	3,136	2,112	67.4	1,665	24	1,642	447	21.2	1,024
25 to 54 years	16,122	12,723	78.9	11,657	158	11,500	1,066	8.4	3,399
25 to 34 years	6,918	5,417	78.3	4,852	63	4,789	565	10.4	1,501
25 to 29 years	3,438	2,680	77.9	2,389	35	2,354	291	10.9	758
30 to 34 years	3,479	2,737	78.7	2,463	28	2,435	274	10.0	742
35 to 44 years	5,580	4,518	81.0	4,142	57	4,085	376	8.3	1,062
35 to 39 years	3,095	2,489	80.4	2,286	26	2,260	204	8.2	606
40 to 44 years	2,485	2,029	81.6	1,857	32	1,825	172	8.5	457
45 to 54 years	3,625	2,788	76.9	2,663	37	2,626	125	4.5	836
45 to 49 years	1,966	1,564	79.6	1,488	24	1,464	76	4.9	401
50 to 54 years	1,659	1,224	73.8	1,175	12	1,163	49	4.0	435
55 to 64 years	2,732	1,416	51.8	1,368	22	1,346	48	3.4	1,316
55 to 59 years	1,420	885	62.3	855	17	839	29	3.3	535
60 to 64 years	1,312	531	40.5	513	6	507	19	3.5	781
65 years and over	3,078	365	11.8	346	14	332	18	5.0	2,713
65 to 69 years	1,128	226	20.0	212	12	201	13	5.8	903
70 to 74 years	804	92	11.5	87	2	85	5	5.5	712
75 years and over	1,146	47	4.1	47	-	47	-	(¹)	1,099
Men									
16 years and over	12,626	8,918	70.6	7,991	198	7,793	927	10.4	3,708
16 to 19 years	1,335	457	34.3	330	10	320	127	27.8	878
16 to 17 years	698	162	23.3	110	5	105	52	32.0	535
18 to 19 years	638	295	46.3	220	5	215	75	25.5	343
20 to 24 years	1,462	1,080	73.9	855	22	833	226	20.9	381
25 to 54 years	7,337	6,452	87.9	5,914	136	5,778	538	8.3	885
25 to 34 years	3,190	2,804	87.9	2,520	54	2,466	284	10.1	386
25 to 29 years	1,583	1,380	87.2	1,237	31	1,206	143	10.4	203
30 to 34 years	1,607	1,424	88.6	1,283	23	1,260	141	9.9	183
35 to 44 years	2,521	2,260	89.7	2,077	46	2,031	184	8.1	260
35 to 39 years	1,401	1,247	89.0	1,150	20	1,131	96	7.7	154
40 to 44 years	1,120	1,014	90.5	927	26	901	87	8.6	106
45 to 54 years	1,626	1,387	85.3	1,317	36	1,281	71	5.1	238
45 to 49 years	878	766	87.2	723	24	699	43	5.7	112
50 to 54 years	747	621	83.1	594	12	582	27	4.4	126
55 to 64 years	1,231	761	61.9	734	16	717	28	3.6	469
55 to 59 years	632	452	71.6	435	12	423	17	3.9	180
60 to 64 years	599	309	51.6	299	4	294	10	3.3	290
65 years and over	1,261	167	13.2	159	14	144	8	4.8	1,095
65 to 69 years	480	95	19.7	91	12	80	3	(¹)	386
70 to 74 years	362	50	13.9	45	2	43	5	(¹)	312
75 years and over	419	22	5.2	22	-	22	-	-	397
Women									
16 years and over	15,135	8,601	56.8	7,693	30	7,663	907	10.6	6,535
16 to 19 years	1,358	445	32.8	317	-	317	128	28.8	913
16 to 17 years	671	151	22.5	106	-	107	45	29.8	520
18 to 19 years	687	294	42.8	211	1	210	83	28.3	393
20 to 24 years	1,674	1,032	61.6	811	2	809	221	21.4	642
25 to 54 years	8,785	6,271	71.4	5,744	22	5,722	528	8.4	2,514
25 to 34 years	3,727	2,613	70.1	2,332	9	2,323	281	10.8	1,114
25 to 29 years	1,855	1,300	70.1	1,152	4	1,147	148	11.4	556
30 to 34 years	1,872	1,313	70.2	1,180	5	1,175	133	10.1	559
35 to 44 years	3,059	2,257	73.8	2,065	12	2,053	192	8.5	802
35 to 39 years	1,694	1,243	73.3	1,136	6	1,129	107	8.6	452
40 to 44 years	1,365	1,015	74.3	930	6	924	85	8.4	350
45 to 54 years	1,999	1,401	70.1	1,346	1	1,346	54	3.9	598
45 to 49 years	1,087	798	73.4	765	-	765	33	4.1	289
50 to 54 years	911	603	66.1	581	1	581	21	3.5	309
55 to 64 years	1,501	655	43.6	634	6	628	20	3.1	847
55 to 59 years	788	432	54.9	421	5	416	12	2.8	356
60 to 64 years	713	222	31.2	214	1	213	8	3.8	491
65 years and over	1,817	198	10.9	188	-	188	10	5.1	1,619
65 to 69 years	648	131	20.2	121	-	121	10	7.6	517
70 to 74 years	441	42	9.5	42	-	42	-	(¹)	399
75 years and over	727	25	3.5	25	-	25	-	(¹)	702

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
TOTAL								
Civilian noninstitutional population	186,726	188,401	81,790	82,940	90,771	91,765	14,166	13,696
Civilian labor force	123,828	124,779	63,771	64,576	52,558	53,322	7,498	6,882
Percent of population	66.3	66.2	78.0	77.9	57.9	58.1	52.9	50.2
Employed	117,498	117,961	61,113	61,651	50,040	50,531	6,345	5,779
Agriculture	3,329	3,289	2,419	2,387	701	661	209	242
Nonagricultural industries	114,169	114,672	58,694	59,264	49,339	49,870	6,136	5,537
Unemployed	6,330	6,818	2,658	2,925	2,518	2,790	1,153	1,103
Unemployment rate	5.1	5.5	4.2	4.5	4.8	5.2	15.4	16.0
Not in labor force	62,899	63,622	18,018	18,364	38,213	38,443	6,668	6,815
White								
Civilian noninstitutional population	159,549	160,640	70,792	71,649	77,295	77,987	11,462	11,003
Civilian labor force	106,195	107,261	55,433	56,116	44,358	45,166	6,405	5,979
Percent of population	66.6	66.8	78.3	78.3	57.4	57.9	55.9	54.3
Employed	101,600	102,277	53,416	53,990	42,570	43,155	5,614	5,132
Agriculture	3,128	3,061	2,273	2,199	659	631	197	232
Nonagricultural industries	98,472	99,216	51,143	51,792	41,912	42,524	5,417	4,900
Unemployed	4,595	4,984	2,017	2,125	1,788	2,011	790	847
Unemployment rate	4.3	4.6	3.6	3.8	4.0	4.5	12.3	14.2
Not in labor force	53,354	53,379	15,360	15,534	32,937	32,821	5,057	5,024
Black								
Civilian noninstitutional population	21,085	21,361	8,368	8,539	10,519	10,686	2,198	2,136
Civilian labor force	13,481	13,425	6,246	6,332	6,369	6,362	865	731
Percent of population	63.9	62.8	74.6	74.1	60.6	59.5	39.4	34.2
Employed	11,956	11,855	5,682	5,658	5,731	5,682	544	515
Agriculture	154	156	116	135	32	16	5	4
Nonagricultural industries	11,803	11,699	5,566	5,523	5,699	5,665	538	511
Unemployed	1,524	1,569	564	674	639	680	322	215
Unemployment rate	11.3	11.7	9.0	10.6	10.0	10.7	37.2	29.5
Not in labor force	7,604	7,937	2,122	2,208	4,149	4,324	1,333	1,405

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 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	14,482	6,664	46.0	5,863	1,196	4,667	801	106	694	12.0
16 to 19 years	9,836	4,006	40.7	3,426	360	3,066	579	49	530	14.5
20 to 24 years	4,646	2,658	57.2	2,437	836	1,601	221	57	164	8.3
High school	6,904	2,628	38.1	2,206	160	2,046	421	35	386	16.0
College	7,577	4,036	53.3	3,657	1,036	2,621	379	71	308	9.4
Full-time students	6,513	3,108	47.7	2,787	461	2,327	320	46	275	10.3
Part-time students	1,065	928	87.2	869	575	294	59	26	33	6.3
Men, 16 to 24 years	7,297	3,231	44.3	2,829	640	2,189	402	45	357	12.4
16 to 19 years	4,990	1,969	39.5	1,670	205	1,465	299	25	274	15.2
20 to 24 years	2,307	1,262	54.7	1,159	435	724	103	19	83	8.1
High school	3,606	1,352	37.5	1,126	106	1,020	226	17	209	16.7
College	3,692	1,879	50.9	1,703	534	1,169	176	28	148	9.4
Full-time students	3,215	1,452	45.2	1,301	257	1,045	151	18	133	10.4
Part-time students	476	427	89.6	402	277	124	25	10	15	5.9
Women, 16 to 24 years	7,185	3,432	47.8	3,034	556	2,478	398	62	337	11.6
16 to 19 years	4,845	2,037	42.0	1,757	155	1,602	280	24	256	13.7
20 to 24 years	2,339	1,396	59.7	1,277	401	876	119	38	81	8.5
High school	3,299	1,276	38.7	1,080	54	1,026	196	18	177	15.3
College	3,886	2,156	55.5	1,954	502	1,452	203	43	159	9.4
Full-time students	3,298	1,655	50.2	1,486	204	1,282	169	28	142	10.2
Part-time students	588	501	85.2	468	298	170	34	16	18	6.7
White										
Total, 16 to 24 years	11,616	5,771	49.7	5,175	1,023	4,151	596	67	529	10.3
16 to 19 years	7,861	3,530	44.9	3,082	324	2,758	448	38	410	12.7
20 to 24 years	3,755	2,241	59.7	2,093	699	1,394	148	29	118	6.6
Men	5,825	2,790	47.9	2,483	546	1,937	307	19	288	11.0
Women	5,790	2,981	51.5	2,692	477	2,215	289	48	240	9.7
High school	5,332	2,266	42.5	1,954	135	1,819	312	23	288	13.8
College	6,284	3,505	55.8	3,221	889	2,332	284	44	241	8.1
Full-time students	5,407	2,736	50.6	2,493	404	2,089	243	29	213	8.9
Part-time students	877	769	87.7	727	484	243	42	15	27	5.4
Black										
Total, 16 to 24 years	2,084	621	29.8	474	110	364	147	28	119	23.7
16 to 19 years	1,513	360	23.8	259	17	242	101	9	92	28.1
20 to 24 years	570	260	45.7	215	93	122	46	19	27	17.6
Men	1,065	302	28.3	228	54	174	74	19	55	24.5
Women	1,018	319	31.4	246	56	190	73	9	64	22.9
High school	1,230	277	22.5	192	15	177	85	8	77	30.8
College	854	344	40.3	282	95	187	62	20	42	18.0
Full-time students	726	236	32.4	188	33	154	48	11	37	20.3
Part-time students	128	109	85.1	94	62	33	14	9	5	13.0
Hispanic origin										
Total, 16 to 24 years	1,149	475	41.4	406	93	313	70	15	55	14.7
16 to 19 years	853	295	34.6	240	20	220	55	8	47	18.7
20 to 24 years	296	180	61.0	166	74	92	15	7	8	8.1
Men	542	242	44.7	202	53	149	40	7	33	16.5
Women	608	233	38.4	204	40	164	30	8	22	12.8
High school	742	238	32.1	194	28	166	44	7	37	18.6
College	408	237	58.2	212	65	147	25	8	18	10.7
Full-time students	299	146	46.9	126	22	104	20	3	17	13.9
Part-time students	108	91	83.8	86	43	43	5	5	-	5.5

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 1990									
	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	17,015	13,963	82.1	12,386	10,582	1,804	1,576	1,423	153	11.3
16 to 19 years	3,861	2,876	74.5	2,353	1,703	650	523	464	60	18.2
20 to 24 years	13,154	11,087	84.3	10,034	8,880	1,154	1,053	960	93	9.5
Less than 4 years of high school	4,140	2,739	66.2	2,183	1,745	438	557	500	56	20.3
4 years of high school	8,535	7,222	84.8	8,472	5,540	932	750	674	76	10.4
1 to 3 years of college	2,821	2,535	89.8	2,361	2,035	328	174	154	20	6.9
4 years of college or more	1,519	1,486	96.5	1,371	1,262	109	96	95	1	6.5
Men, 16 to 24 years	8,252	7,513	91.0	6,888	5,986	699	826	777	49	11.0
16 to 19 years	1,900	1,583	83.3	1,291	994	297	292	264	27	18.4
20 to 24 years	6,352	5,930	93.4	5,395	4,993	402	535	513	22	9.0
Less than 4 years of high school	2,171	1,829	84.3	1,506	1,274	231	323	303	20	17.7
4 years of high school	4,192	3,887	92.7	3,503	3,172	331	384	384	20	9.9
1 to 3 years of college	1,252	1,176	93.9	1,104	994	109	72	63	9	6.2
4 years of college or more	636	621	97.6	574	547	27	47	46	1	7.6
Women, 16 to 24 years	8,763	6,450	73.6	5,700	4,594	1,106	750	646	104	11.6
16 to 19 years	1,961	1,293	66.0	1,062	708	353	232	199	32	17.9
20 to 24 years	6,803	5,157	75.8	4,638	3,886	752	518	447	72	10.1
Less than 4 years of high school	1,969	910	46.2	677	471	206	233	197	36	25.6
4 years of high school	4,342	3,336	76.8	2,989	2,368	601	368	310	57	11.0
1 to 3 years of college	1,589	1,359	86.6	1,257	1,040	217	102	91	11	7.5
4 years of college or more	883	845	95.7	797	715	81	49	49	-	5.7
White										
Total, 16 to 24 years	14,052	11,841	84.3	10,762	9,235	1,527	1,079	956	123	9.1
16 to 19 years	3,142	2,449	77.9	2,050	1,505	545	399	344	55	16.3
20 to 24 years	10,910	9,392	86.1	8,712	7,729	983	680	612	68	7.2
Men	6,926	6,416	92.6	5,848	5,284	584	568	519	49	8.9
Women	7,125	5,425	76.1	4,914	3,971	944	510	437	74	9.4
Less than 4 years of high school	3,328	2,315	69.5	1,922	1,553	370	392	341	51	16.9
4 years of high school	6,946	6,024	86.7	5,542	4,760	782	482	429	53	8.0
1 to 3 years of college	2,400	2,173	90.6	2,043	1,765	278	130	113	17	6.0
4 years of college or more	1,378	1,329	96.4	1,255	1,158	97	74	73	1	5.6
Black										
Total, 16 to 24 years	2,492	1,784	70.8	1,309	1,090	218	456	424	32	25.8
16 to 19 years	622	370	59.5	256	165	91	114	109	5	30.8
20 to 24 years	1,870	1,394	74.6	1,052	925	127	342	314	27	24.5
Men	1,103	914	82.8	676	592	84	238	237	1	26.0
Women	1,388	850	61.2	832	498	134	218	187	31	25.6
Less than 4 years of high school	689	354	51.4	202	148	55	152	146	5	42.8
4 years of high school	1,388	1,045	75.3	785	660	125	260	235	25	24.9
1 to 3 years of college	316	270	85.3	239	206	33	31	29	2	11.4
4 years of college or more	99	95	96.3	82	76	6	13	13	-	14.0
Hispanic origin										
Total, 16 to 24 years	2,302	1,745	75.8	1,533	1,314	218	212	186	26	12.2
16 to 19 years	580	402	69.4	325	255	70	78	63	15	19.3
20 to 24 years	1,722	1,342	77.9	1,208	1,060	148	135	123	11	10.0
Men	1,238	1,119	90.4	997	903	94	122	105	18	10.9
Women	1,064	626	58.8	536	411	124	90	81	9	14.3
Less than 4 years of high school	1,195	830	69.5	717	618	99	113	98	15	13.6
4 years of high school	857	888	103.6	613	522	91	75	67	8	10.9
1 to 3 years of college	202	180	89.2	162	137	25	18	15	4	10.1
4 years of college or more	48	46	96.2	40	37	3	6	8	-	(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. 1989	Sept. 1990	Total		Employed		Unemployed			
			Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Number		Percent of labor force	
							Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,488	7,668	6,843	7,010	6,617	6,742	226	268	3.3	3.8
35 to 49 years	6,486	6,507	6,141	6,166	5,942	5,916	199	250	3.2	4.0
35 to 39 years	1,673	1,360	1,561	1,295	1,486	1,216	75	79	4.8	6.1
40 to 44 years	3,296	3,265	3,146	3,096	3,058	2,975	88	121	2.8	3.9
45 to 49 years	1,517	1,882	1,434	1,775	1,397	1,725	37	50	2.5	2.8
50 years and over	1,002	1,161	702	844	675	825	27	19	3.8	2.2
NONVETERANS										
Total, 35 to 49 years	16,376	17,623	15,375	16,520	14,873	15,968	502	553	3.3	3.3
35 to 39 years	7,506	8,094	7,121	7,676	6,867	7,420	255	256	3.6	3.3
40 to 44 years	4,758	5,334	4,485	4,971	4,341	4,797	143	174	3.2	3.5
45 to 49 years	4,112	4,195	3,770	3,873	3,665	3,751	105	122	2.8	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 35 to 49 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 1990							
	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	98,120	96,378	1,742	19,841	16,842	3,199	5,366	1,452
16 to 19 years	2,063	1,998	65	3,717	3,309	408	513	589
16 to 17 years	229	226	3	1,892	1,811	81	105	337
18 to 19 years	1,833	1,772	61	1,825	1,498	327	408	253
20 years and over	96,057	94,380	1,678	16,125	13,333	2,792	4,853	863
20 to 24 years	9,716	9,452	264	2,755	2,208	547	1,017	258
25 years and over	86,342	84,928	1,414	13,370	11,125	2,245	3,836	605
25 to 54 years	75,080	73,893	1,186	9,517	7,665	1,852	3,472	485
55 years and over	11,262	11,034	228	3,854	3,460	393	364	120
Men, 16 years and over	58,391	57,408	983	6,221	4,971	1,250	2,964	552
16 to 19 years	1,199	1,162	37	1,761	1,578	184	290	302
20 years and over	57,192	56,246	946	4,459	3,393	1,066	2,675	250
20 to 24 years	5,428	5,300	128	1,126	895	231	533	105
25 years and over	51,763	50,945	818	3,333	2,498	835	2,142	145
25 to 54 years	44,694	44,004	690	1,779	1,115	664	1,898	89
55 years and over	7,069	6,942	128	1,554	1,383	171	244	56
Women, 16 years and over	39,729	38,970	759	13,621	11,671	1,949	2,401	901
16 to 19 years	863	836	27	1,955	1,731	224	224	288
20 years and over	38,866	38,134	732	11,666	9,940	1,725	2,178	613
20 to 24 years	4,287	4,152	135	1,629	1,313	315	484	153
25 years and over	34,579	33,982	596	10,037	8,627	1,410	1,694	460
25 to 54 years	30,386	29,890	496	7,737	6,549	1,188	1,573	396
55 years and over	4,193	4,092	100	2,300	2,078	222	120	64
White								
Men, 16 years and over	51,254	50,430	824	5,367	4,398	969	2,128	461
16 to 19 years	1,079	1,052	27	1,552	1,400	152	211	253
20 years and over	50,175	49,377	798	3,815	2,998	817	1,917	208
20 to 24 years	4,731	4,626	105	969	778	190	327	84
25 years and over	45,444	44,752	692	2,847	2,219	627	1,590	124
25 to 54 years	39,132	38,551	582	1,427	946	481	1,376	73
55 years and over	6,311	6,201	111	1,420	1,273	146	213	51
Women, 16 years and over	33,504	32,873	632	12,152	10,567	1,585	1,685	710
16 to 19 years	751	731	20	1,750	1,551	199	171	212
20 years and over	32,753	32,142	612	10,401	9,016	1,385	1,514	498
20 to 24 years	3,697	3,575	122	1,408	1,161	247	314	102
25 years and over	29,056	28,567	490	8,994	7,855	1,139	1,200	395
25 to 54 years	25,418	25,015	404	6,961	6,008	953	1,101	340
55 years and over	3,638	3,552	86	2,032	1,847	185	99	55
Black								
Men, 16 years and over	5,322	5,199	124	601	384	218	714	76
16 to 19 years	89	78	10	177	150	28	74	42
20 years and over	5,234	5,121	113	424	234	190	640	33
20 to 24 years	557	542	15	81	53	27	182	14
25 years and over	4,677	4,579	98	343	181	163	459	20
25 to 54 years	4,097	4,015	82	242	96	145	434	15
55 years and over	579	564	15	102	84	17	25	5
Women, 16 years and over	4,814	4,710	104	1,118	828	290	630	149
16 to 19 years	93	89	4	156	138	18	44	55
20 years and over	4,721	4,621	100	961	690	272	586	94
20 to 24 years	461	449	11	168	105	63	152	40
25 years and over	4,260	4,171	88	793	584	209	434	54
25 to 54 years	3,837	3,757	80	572	388	184	414	46
55 years and over	423	414	9	221	196	25	20	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 1990									
	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	99,604	66.7	94,186	5,418	5.4	49,697	21,285	8,023	2,675	17,714
Husbands	40,192	78.3	39,043	1,149	2.9	11,158	237	178	1,028	9,714
With employed wife	26,611	91.7	25,867	745	2.8	2,412	92	105	388	1,827
With unemployed wife	1,119	94.1	1,037	82	7.3	70	5	9	13	44
With wife not in labor force	12,461	59.0	12,139	322	2.6	8,676	140	64	628	7,844
Wives	30,213	58.8	29,024	1,189	3.9	21,137	16,391	377	458	3,911
With employed husband	26,904	68.9	25,867	1,037	3.9	12,139	10,583	324	191	1,040
With unemployed husband	826	71.9	745	82	9.9	322	269	14	10	30
With husband not in labor force	2,482	22.2	2,412	70	2.8	8,676	5,539	38	258	2,841
Relatives in married-couple families	12,215	61.7	11,002	1,213	9.9	7,584	619	5,246	369	1,350
16 to 19 years	4,154	48.7	3,650	504	12.1	4,378	85	3,985	12	296
20 to 24 years	4,486	74.8	4,041	445	9.9	1,514	113	1,141	44	215
25 years and over	3,575	67.9	3,311	264	7.4	1,692	421	120	313	839
Women who maintain families	7,000	62.0	6,350	650	9.3	4,298	2,856	230	269	943
Relatives in families maintained by women	5,753	59.7	4,838	915	15.9	3,887	814	1,649	364	1,060
16 to 19 years	1,312	44.1	973	339	25.8	1,662	130	1,308	18	206
20 to 24 years	1,536	73.9	1,273	263	17.1	542	122	270	19	131
25 years and over	2,905	63.3	2,592	313	10.8	1,683	562	71	327	723
Men who maintain families	2,419	79.9	2,319	100	4.1	610	31	37	91	451
Relatives in families maintained by men	1,813	63.9	1,610	203	11.2	1,023	337	306	96	284
16 to 19 years	346	56.2	267	79	22.9	270	23	214	1	32
20 to 24 years	491	78.4	442	49	10.0	135	26	74	17	18
25 years and over	976	61.2	901	75	7.7	618	288	18	78	234

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
Total, 16 years and over	3,248	3,516	4.8	5.2	3,081	3,302	5.5	5.8
Married, spouse present	1,209	1,269	2.9	3.0	1,211	1,284	3.9	4.1
Widowed, divorced, or separated	392	459	5.4	6.0	625	749	5.5	6.5
Single (never married)	1,648	1,788	9.0	9.8	1,246	1,269	8.9	9.1
White, 16 years and over	2,443	2,589	4.2	4.4	2,152	2,394	4.5	5.0
Married, spouse present	1,000	1,030	2.7	2.7	1,013	1,090	3.7	3.9
Widowed, divorced, or separated	282	336	4.6	5.3	411	523	4.5	5.7
Single (never married)	1,161	1,224	7.7	8.1	728	781	6.5	7.1
Black, 16 years and over	704	790	10.6	11.8	820	779	12.0	11.6
Married, spouse present	179	183	5.6	5.8	153	143	6.3	6.1
Widowed, divorced, or separated	93	105	9.1	10.0	194	204	9.8	10.5
Single (never married)	432	502	17.6	20.0	473	433	19.5	17.9
Total, 25 years and over	2,001	2,288	3.5	4.0	2,003	2,153	4.4	4.6
Married, spouse present	1,088	1,170	2.7	2.9	1,045	1,089	3.6	3.7
Widowed, divorced, or separated	368	430	5.2	5.8	593	695	5.4	6.2
Single (never married)	545	687	6.1	7.5	366	369	5.7	5.6
White, 25 years and over	1,534	1,714	3.1	3.4	1,441	1,595	3.7	4.0
Married, spouse present	903	954	2.5	2.6	876	931	3.5	3.6
Widowed, divorced, or separated	260	311	4.4	5.1	388	482	4.5	5.4
Single (never married)	372	449	5.1	6.0	176	182	3.6	3.7
Black, 25 years and over	413	478	7.7	8.7	487	488	8.8	8.8
Married, spouse present	165	169	5.4	5.5	131	116	5.8	5.2
Widowed, divorced, or separated	91	103	9.0	9.9	185	192	9.5	10.1
Single (never married)	156	207	11.8	14.7	171	181	13.1	12.6

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
Total, 16 years and over	6,330	6,818	5.1	5.5	4.8	5.2	5.5	5.8
Managerial and professional specialty	715	792	2.3	2.5	1.8	2.2	2.8	3.0
Executive, administrative, and managerial	405	414	2.6	2.7	2.1	2.3	3.5	3.4
Professional specialty	310	378	1.9	2.3	1.5	2.0	2.3	2.6
Technical, sales, and administrative support	1,499	1,707	4.0	4.5	3.0	3.7	4.6	4.9
Technicians and related support	91	134	2.5	3.5	2.4	3.8	2.7	3.1
Sales occupations	617	730	4.2	4.9	2.6	3.2	5.8	6.7
Administrative support, including clerical	791	843	4.1	4.3	3.9	4.7	4.2	4.3
Service occupations	1,089	1,170	6.5	6.9	6.9	6.3	6.3	7.3
Private household	37	48	4.5	5.9	(¹)	(¹)	4.4	5.8
Protective service	101	94	4.9	4.7	4.4	4.5	6.9	5.7
Service, except private household and protective	951	1,028	6.9	7.3	7.8	6.9	6.4	7.5
Precision production, craft, and repair	665	832	4.6	5.8	4.4	5.6	6.2	7.9
Mechanics and repairers	166	175	3.6	3.8	3.6	3.8	1.3	4.5
Construction trades	328	453	5.9	8.3	5.7	8.0	12.3	24.4
Other precision production, craft, and repair	170	205	4.0	4.7	3.3	4.0	6.2	6.8
Operators, fabricators, and laborers	1,482	1,414	7.5	7.3	7.1	6.8	8.9	8.6
Machine operators, assemblers, and inspectors	629	657	7.0	7.4	5.8	6.0	8.8	9.5
Transportation and material moving occupations	267	273	4.9	5.1	4.7	4.9	7.4	7.4
Handlers, equipment cleaners, helpers, and laborers	586	484	11.1	9.2	11.3	9.9	10.3	5.6
Construction laborers	148	126	16.1	13.7	16.1	13.7	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	438	358	10.1	8.3	10.1	9.0	10.1	5.3
Farming, forestry, and fishing	177	208	4.6	5.4	4.5	5.5	5.2	4.7
No previous work experience	667	662	-	-	-	-	-	-
16 to 19 years	412	418	-	-	-	-	-	-
20 to 24 years	137	137	-	-	-	-	-	-
25 years and over	118	107	-	-	-	-	-	-

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
Total, 16 years and over	6,330	6,818	5.1	5.5	4.8	5.2	5.5	5.8
Nonagricultural private wage and salary workers	4,829	5,236	5.2	5.6	5.0	5.3	5.5	6.0
Mining	47	21	6.6	3.0	6.8	2.2	5.8	8.5
Construction	503	579	8.0	9.3	8.1	9.4	6.7	8.2
Manufacturing	1,113	1,192	5.0	5.4	4.3	4.5	6.4	7.3
Durable goods	607	727	4.7	5.6	4.1	4.8	6.1	7.8
Lumber and wood products	43	53	5.9	6.8	6.1	6.3	4.9	9.8
Furniture and fixtures	38	40	5.8	5.8	4.4	5.5	8.7	6.5
Stone, clay, and glass products	31	34	4.7	5.1	5.2	4.3	3.2	7.6
Primary metal industries	37	31	4.2	3.4	3.9	3.3	6.8	3.9
Fabricated metal products	69	88	5.1	6.3	5.1	5.0	5.1	10.3
Machinery, except electrical	84	141	3.2	5.7	2.6	4.1	5.1	10.4
Electrical machinery, equipment, and supplies	117	118	5.5	5.6	4.9	4.9	6.3	6.8
Transportation equipment	117	154	4.4	5.7	3.3	5.3	8.5	7.5
Automobiles	59	78	4.8	6.5	3.6	5.0	9.0	11.5
Other transportation equipment	58	75	4.1	5.2	3.0	5.4	7.9	4.1
Professional and photographic equipment	29	22	4.1	2.9	3.8	2.9	4.6	2.8
Other durable goods industries	42	46	6.9	8.0	7.1	7.0	6.4	10.0
Nondurable goods	506	465	5.5	5.2	4.7	4.0	6.6	6.9
Food and kindred products	141	109	7.4	5.6	6.7	5.0	8.7	6.7
Textile mill products	38	48	5.4	6.4	4.6	6.6	6.3	6.2
Apparel and other textile products	95	97	7.3	8.0	7.4	8.7	7.3	7.7
Paper and allied products	25	28	3.3	3.4	2.1	1.9	7.0	8.4
Printing and publishing	93	71	4.8	3.9	4.9	3.6	4.6	4.4
Chemicals and allied products	42	37	3.3	2.9	3.0	1.4	3.9	6.4
Rubber and miscellaneous plastics products	47	58	5.7	7.4	3.6	4.4	9.3	13.1
Other nondurable goods industries	24	18	5.5	5.2	5.3	4.3	6.0	6.8
Transportation and public utilities	274	245	4.3	3.7	4.1	3.6	4.8	3.9
Transportation	198	175	5.2	4.5	4.8	4.7	6.5	3.8
Communications and other public utilities	76	70	2.9	2.6	2.9	1.8	3.1	4.1
Wholesale and retail trade	1,323	1,507	5.6	6.3	4.7	5.3	6.5	7.4
Wholesale trade	160	220	3.7	4.7	2.9	4.7	5.6	4.7
Retail trade	1,163	1,288	6.1	6.7	5.4	5.4	6.7	7.8
Finance, insurance, and real estate	258	234	3.5	3.2	2.4	2.8	4.2	3.5
Service industries	1,311	1,456	5.0	5.4	5.3	5.8	4.9	5.2
Professional services	499	560	3.4	3.6	2.7	3.0	3.6	3.9
Other service industries	812	896	7.2	7.8	7.3	8.0	7.1	7.6
Agricultural wage and salary workers	126	158	6.9	8.0	6.5	8.0	8.4	8.0
Government, self-employed, and unpaid family workers	708	763	2.5	2.7	2.2	2.5	2.8	2.9
No previous work experience	667	662	-	-	-	-	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-14. Unemployed persons by reason for unemployment, sex, and race

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
NUMBER OF UNEMPLOYED												
Total unemployed	6,330	6,818	2,658	2,925	2,518	2,790	1,153	1,103	4,595	4,984	1,524	1,589
Job losers	2,586	3,097	1,609	1,883	807	1,017	170	197	1,918	2,304	592	684
On layoff	631	826	373	523	218	262	40	42	538	664	78	141
Other job losers	1,955	2,271	1,236	1,381	589	755	129	155	1,380	1,640	514	544
Job leavers	1,162	1,055	437	406	461	457	264	192	941	849	187	175
Reentrants	1,997	2,074	520	559	1,116	1,170	361	345	1,400	1,444	524	542
New entrants	585	591	93	77	134	147	358	367	337	387	222	168
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	40.9	45.4	60.5	64.4	32.1	36.4	14.7	17.9	41.7	46.2	38.8	43.6
On layoff	10.0	12.1	14.0	17.9	8.7	9.4	3.5	3.8	11.7	13.3	5.1	9.0
Other job losers	30.9	33.3	46.5	46.5	23.4	27.1	11.2	14.1	30.0	32.9	33.7	34.6
Job leavers	18.4	15.5	16.4	13.9	18.3	16.4	22.9	17.5	20.5	17.0	12.2	11.1
Reentrants	31.5	30.4	19.6	19.1	44.3	41.9	31.3	31.3	30.5	29.0	34.4	34.6
New entrants	9.2	8.7	3.5	2.6	5.3	5.3	31.0	33.3	7.3	7.8	14.6	10.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.1	2.5	2.5	2.9	1.5	1.9	2.3	2.9	1.8	2.1	4.4	5.1
Job leavers .....	.9	.8	.7	.6	.9	.9	3.5	2.8	.9	.8	1.4	1.3
Reentrants	1.6	1.7	.8	.9	2.1	2.2	4.8	5.0	1.3	1.3	3.9	4.0
New entrants .....	.5	.5	.1	.1	.3	.3	4.8	5.3	.3	.4	1.6	1.3

**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 1990						
	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	6,818	100.0	47.4	31.0	21.6	11.1	10.6
Job losers	3,097	100.0	37.7	33.6	28.7	13.8	14.8
On layoff	826	100.0	53.3	27.5	19.1	10.1	9.0
Other job losers	2,271	100.0	32.1	35.8	32.1	15.1	17.0
Job leavers	1,055	100.0	59.8	24.2	16.0	9.9	6.0
Reentrants	2,074	100.0	55.2	28.1	16.8	8.4	8.3
New entrants	591	100.0	48.4	39.4	12.3	8.2	4.1
Men, 20 years and over	2,925	100.0	39.2	30.9	29.9	12.3	17.6
Job losers	1,883	100.0	36.4	31.9	31.7	12.9	18.8
On layoff	523	100.0	55.0	25.9	19.1	9.5	9.6
Other job losers	1,361	100.0	29.3	34.2	36.5	14.2	22.3
Job leavers	406	100.0	54.7	22.8	22.5	12.4	10.2
Reentrants	559	100.0	39.3	32.0	28.7	9.2	19.5
New entrants	77	100.0	25.5	42.0	32.5	18.5	14.0
Women, 20 years and over	2,790	100.0	48.4	33.0	18.6	11.9	6.7
Job losers	1,017	100.0	33.5	39.2	27.3	17.2	10.0
On layoff	262	100.0	44.0	34.8	21.2	12.1	9.1
Other job losers	755	100.0	29.9	40.8	29.4	19.0	10.4
Job leavers	457	100.0	58.9	26.3	14.8	10.7	4.1
Reentrants	1,170	100.0	56.9	29.3	13.8	8.6	5.1
New entrants	147	100.0	50.9	40.2	8.9	5.1	3.7
Both sexes, 16 to 19 years	1,103	100.0	66.4	26.0	7.6	5.8	1.8
Job losers	197	100.0	72.5	20.6	6.9	4.7	2.2
On layoff	42	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	155	100.0	67.5	25.5	7.0	4.3	2.7
Job leavers	192	100.0	72.7	22.4	4.9	3.1	1.8
Reentrants	345	100.0	74.7	17.7	7.6	6.5	1.1
New entrants	367	100.0	52.2	38.5	9.4	7.2	2.2

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
	Total, 16 years and over	6,330	6,818	100.0	100.0	4,824	5,366	100.0	100.0
Less than 5 weeks	3,355	3,230	53.0	47.4	2,282	2,222	47.3	41.4
5 to 14 weeks	1,737	2,112	27.4	31.0	1,422	1,800	29.5	33.5
5 to 10 weeks	1,264	1,503	20.0	22.0	1,042	1,283	21.6	23.9
11 to 14 weeks	473	609	7.5	8.9	380	517	7.9	9.6
15 weeks and over	1,237	1,476	19.5	21.6	1,121	1,344	23.2	25.0
15 to 26 weeks	664	755	10.5	11.1	597	677	12.4	12.6
27 weeks and over	573	721	9.1	10.6	523	667	10.8	12.4
27 to 51 weeks	237	317	3.7	4.6	217	308	4.5	5.7
52 weeks and over	336	404	5.3	5.9	306	360	6.3	6.7
Average (mean) duration, in weeks	11.3	12.2	-	-	12.9	13.6	-	-
Median duration, in weeks	4.2	5.1	-	-	5.2	6.4	-	-

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990
	September 1990										
Total, 16 years and over	6,818	3,230	2,112	755	721	12.2	5.1	53.0	47.4	19.5	21.6
16 to 19 years	1,103	733	286	64	20	6.0	3.4	70.7	66.4	7.4	7.6
20 to 24 years	1,274	726	362	124	63	8.5	3.9	59.0	57.0	15.4	14.6
25 to 34 years	1,936	870	653	215	198	12.0	5.6	49.6	44.9	20.8	21.3
35 to 44 years	1,333	490	469	189	185	14.7	7.3	48.5	36.8	23.7	28.1
45 to 54 years	688	252	205	102	129	18.0	8.0	39.9	36.6	31.5	33.6
55 to 64 years	389	123	105	54	107	22.6	9.7	33.3	31.6	31.9	41.4
65 years and over	95	37	32	7	19	19.8	7.5	33.6	38.7	25.8	27.4
Men, 16 years and over	3,516	1,553	1,040	402	521	14.9	6.1	47.5	44.2	24.6	26.2
16 to 19 years	591	407	135	43	7	5.7	3.3	68.3	68.8	6.6	8.3
20 to 24 years	637	350	166	67	54	10.6	4.1	53.9	55.0	18.5	19.1
25 to 34 years	997	410	332	122	133	14.1	6.9	42.3	41.1	28.0	25.6
35 to 44 years	654	197	239	87	132	18.7	9.0	41.2	30.0	32.0	33.5
45 to 54 years	337	103	93	46	95	23.4	11.0	33.3	30.6	38.9	41.8
55 to 64 years	248	71	61	30	86	27.2	12.8	28.6	28.5	39.9	46.8
65 years and over	52	16	14	7	14	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,302	1,677	1,072	353	200	9.4	4.4	58.8	50.8	14.2	16.8
16 to 19 years	511	326	151	21	13	6.3	3.5	73.1	63.7	8.3	6.7
20 to 24 years	637	376	196	57	9	6.3	3.8	65.6	59.0	11.4	10.2
25 to 34 years	939	460	321	93	65	9.8	4.7	56.1	49.0	14.4	16.8
35 to 44 years	678	293	230	103	53	10.9	5.8	55.5	43.2	15.9	22.9
45 to 54 years	351	149	112	56	34	12.8	5.8	46.9	42.5	23.7	25.7
55 to 64 years	141	52	44	23	21	14.6	7.6	41.6	37.0	17.9	31.8
65 years and over	44	20	18	-	5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,984	2,456	1,497	525	506	11.7	4.6	55.1	49.3	18.4	20.7
Men	2,589	1,167	758	291	374	14.6	5.7	49.8	45.1	23.8	25.6
Women	2,394	1,289	739	234	133	8.6	4.2	61.1	53.8	12.3	15.3
Black, 16 years and over	1,569	648	539	198	185	13.8	7.1	46.0	41.3	22.8	24.4
Men	790	326	246	94	124	15.5	7.4	37.7	41.3	27.4	27.6
Women	779	321	293	104	61	12.0	6.8	53.2	41.2	18.9	21.2
Men, 16 years and over:											
Married, spouse present	1,269	475	380	175	239	17.8	7.6	40.4	37.4	31.1	32.6
Widowed, divorced, or separated	459	148	167	44	100	19.3	8.9	39.8	32.2	26.8	31.4
Single (never married)	1,788	931	493	183	182	11.7	4.3	54.6	52.1	19.3	20.4
Women, 16 years and over:											
Married, spouse present	1,284	637	409	157	81	9.5	4.6	59.0	49.6	14.0	18.5
Widowed, divorced, or separated	749	319	275	96	59	11.3	5.9	49.4	42.6	17.1	20.7
Single (never married)	1,269	721	367	100	60	8.2	4.0	63.2	56.8	13.0	12.6

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990
	September 1990							Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
OCCUPATION											
Managerial and professional specialty	792	335	232	110	115	15.0	6.3	47.0	42.3	24.3	28.4
Technical, sales, and administrative support	1,707	825	522	204	157	11.9	4.9	58.8	48.3	16.8	21.1
Service occupations	1,170	642	293	131	105	10.6	4.1	55.6	54.9	17.4	20.2
Precision production, craft, and repair	832	365	274	82	112	13.0	5.8	44.5	43.9	24.7	23.3
Operators, fabricators, and laborers	1,414	613	454	161	185	13.6	5.8	49.0	43.4	22.9	24.5
Farming, forestry, and fishing	208	108	65	17	17	11.7	4.3	49.2	51.9	15.3	16.8
INDUSTRY¹											
Agriculture	158	76	61	13	8	9.7	5.0	56.3	48.1	9.5	13.3
Construction	606	264	244	37	61	11.6	5.6	47.4	43.6	23.5	16.2
Manufacturing	1,197	505	368	161	162	14.0	6.0	47.0	42.2	25.8	27.0
Durable goods	731	294	233	97	107	14.7	6.2	43.9	40.2	27.4	27.9
Nondurable goods	466	211	135	64	56	12.9	5.6	50.8	45.3	24.0	25.5
Transportation and public utilities	276	113	77	45	41	15.3	7.1	46.3	40.9	21.5	31.2
Wholesale and retail trade	1,524	792	397	185	149	11.3	4.3	52.1	52.0	19.6	21.9
Finance and service industries	1,993	972	570	237	215	12.4	4.8	57.8	48.8	17.1	22.6
Public administration	157	74	52	12	20	14.0	5.1	45.3	47.1	20.3	20.4
No previous work experience	662	331	256	50	25	8.8	4.5	61.6	50.0	12.6	11.3

¹ Includes wage and salary workers only.

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

Sex, age, and race	September 1990								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	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	6,818	5,877	22.1	8.8	72.2	40.7	19.7	5.3	1.69
16 to 19 years	1,103	1,036	14.3	3.3	74.7	28.4	17.4	6.7	1.45
20 to 24 years	1,274	1,161	22.0	8.6	74.0	42.7	20.0	4.8	1.72
25 to 34 years	1,936	1,626	23.8	10.2	71.4	43.0	19.2	4.7	1.72
35 to 44 years	1,333	1,126	25.2	10.1	69.1	44.6	20.6	5.0	1.75
45 to 54 years	688	559	25.1	10.3	73.8	42.9	18.8	4.4	1.75
55 to 64 years	389	295	25.1	12.1	72.5	41.7	28.0	7.2	1.87
65 years and over	95	75	11.8	11.2	63.2	48.0	16.6	7.0	1.58
Men, 16 years and over	3,516	2,909	23.5	8.4	73.8	39.1	21.4	6.3	1.73
16 to 19 years	591	547	15.0	2.6	77.8	26.5	19.3	5.8	1.47
20 to 24 years	637	569	19.4	6.7	78.5	39.3	20.8	6.4	1.71
25 to 34 years	997	791	26.2	10.7	71.1	39.7	20.4	6.4	1.75
35 to 44 years	654	527	29.8	9.9	69.6	44.5	23.4	6.5	1.84
45 to 54 years	337	254	27.6	9.6	72.1	49.3	21.6	6.0	1.86
55 to 64 years	248	181	29.6	14.1	72.2	39.6	27.3	8.6	1.91
65 years and over	52	40	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,302	2,968	20.6	9.1	70.7	42.2	18.1	4.2	1.65
16 to 19 years	511	488	13.6	4.1	71.1	30.5	15.3	7.7	1.42
20 to 24 years	637	592	24.5	10.4	69.7	45.9	19.2	3.3	1.73
25 to 34 years	939	835	21.5	9.7	71.7	46.2	18.1	3.1	1.70
35 to 44 years	678	599	21.1	10.3	68.7	44.7	18.1	3.8	1.67
45 to 54 years	351	305	23.1	10.9	75.3	37.6	16.5	3.1	1.66
55 to 64 years	141	114	18.0	9.1	73.0	45.0	29.1	5.0	1.79
65 years and over	44	35	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,984	4,220	21.3	8.8	71.9	43.0	20.0	5.8	1.71
Men	2,589	2,099	23.2	9.0	72.2	42.1	22.4	6.8	1.76
Women	2,394	2,120	19.5	8.6	71.7	43.9	17.7	4.8	1.66
Black, 16 years and over	1,569	1,419	24.0	8.3	73.8	33.2	19.1	3.2	1.62
Men	790	692	24.8	5.9	78.3	29.2	19.4	3.8	1.61
Women	779	728	23.3	10.5	69.6	36.9	18.8	2.6	1.62

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 1990								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	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	6,818	5,877	22.1	8.8	72.2	40.7	19.7	5.3	1.69
Job losers ¹	3,097	2,242	27.0	11.4	74.2	42.9	23.4	4.5	1.83
Job leavers	1,055	1,028	21.7	8.3	72.6	44.0	16.8	4.5	1.68
Reentrants	2,074	2,025	18.4	6.9	70.3	39.5	15.9	6.2	1.57
New entrants	591	582	16.2	6.1	70.9	30.5	23.9	6.1	1.54
Men, 16 years and over	3,516	2,909	23.5	8.4	73.8	39.1	21.4	6.3	1.73
Job losers ¹	2,008	1,434	27.8	10.6	72.9	41.8	24.0	5.7	1.83
Job leavers	500	482	19.0	8.2	75.4	45.4	17.4	4.3	1.70
Reentrants	738	724	20.7	6.1	73.3	34.9	17.9	9.3	1.62
New entrants	270	270	16.5	3.3	76.9	24.4	23.5	5.5	1.50
Women, 16 years and over	3,302	2,968	20.6	9.1	70.7	42.2	18.1	4.2	1.65
Job losers ¹	1,090	808	25.7	12.8	76.4	44.8	22.3	2.4	1.84
Job leavers	555	547	24.0	8.4	70.1	42.8	16.2	4.8	1.66
Reentrants	1,336	1,302	17.2	7.3	68.7	42.0	14.7	4.5	1.54
New entrants	321	312	15.9	8.5	65.6	35.8	24.3	6.7	1.57

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. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
All industries	117,498	117,961	64,344	64,612	53,154	53,350
16 to 19 years	6,345	5,779	3,231	2,961	3,114	2,818
16 to 17 years	2,412	2,121	1,192	1,094	1,220	1,027
18 to 19 years	3,933	3,658	2,039	1,866	1,894	1,792
20 to 24 years	12,746	12,470	6,644	6,555	6,102	5,916
25 to 54 years	83,511	84,596	46,008	46,473	37,503	38,123
25 to 34 years	34,399	33,769	19,155	18,803	15,244	14,966
35 to 44 years	29,644	30,805	16,189	16,750	13,455	14,055
45 to 54 years	19,469	20,022	10,665	10,919	8,804	9,103
55 to 64 years	11,568	11,593	6,578	6,639	4,990	4,954
55 to 59 years	6,882	6,937	3,907	3,932	2,975	3,005
60 to 64 years	4,686	4,656	2,671	2,707	2,015	1,949
65 years and over	3,328	3,523	1,883	1,985	1,445	1,538
Agriculture	3,329	3,289	2,598	2,587	731	702
16 to 19 years	209	242	179	200	30	42
16 to 17 years	97	112	85	93	12	19
18 to 19 years	111	130	94	108	17	22
20 to 24 years	378	405	304	344	74	61
25 to 54 years	2,015	1,899	1,523	1,439	491	461
25 to 34 years	852	794	664	617	188	177
35 to 44 years	698	665	525	482	173	183
45 to 54 years	464	441	334	340	130	101
55 to 64 years	448	444	357	341	91	103
55 to 59 years	242	247	187	181	54	66
60 to 64 years	207	197	170	159	37	37
65 years and over	279	299	235	263	44	36
Nonagricultural industries	114,169	114,672	61,746	62,025	52,423	52,647
16 to 19 years	6,136	5,537	3,052	2,760	3,084	2,777
16 to 17 years	2,315	2,009	1,107	1,002	1,208	1,007
18 to 19 years	3,821	3,528	1,945	1,759	1,877	1,770
20 to 24 years	12,366	12,065	6,340	6,211	6,028	5,854
25 to 54 years	81,497	82,697	44,485	45,034	37,012	37,663
25 to 34 years	33,547	32,975	18,491	18,186	15,056	14,789
35 to 44 years	28,945	30,140	15,664	16,268	13,262	13,872
45 to 54 years	19,005	19,581	10,330	10,579	8,675	9,002
55 to 64 years	11,120	11,149	6,221	6,298	4,898	4,852
55 to 59 years	6,641	6,690	3,720	3,750	2,921	2,940
60 to 64 years	4,479	4,459	2,501	2,548	1,978	1,912
65 years and over	3,048	3,223	1,648	1,722	1,401	1,502

**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. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
Total	117,498	117,961	64,344	64,612	61,113	61,651	53,154	53,350	50,040	50,531
Managerial and professional specialty	30,493	30,558	16,616	16,533	16,531	16,454	13,877	14,024	13,751	13,905
Executive, administrative, and managerial	14,882	14,799	8,975	8,904	8,936	8,854	5,907	5,894	5,856	5,850
Officials and administrators, public administration	586	503	319	305	319	305	267	198	265	198
Other executive, administrative, and managerial	10,503	10,553	6,715	6,687	6,677	6,644	3,788	3,866	3,753	3,832
Management-related occupations	3,793	3,743	1,940	1,912	1,940	1,904	1,852	1,831	1,838	1,820
Professional specialty	15,611	15,759	7,641	7,629	7,595	7,601	7,970	8,130	7,895	8,055
Engineers	1,775	1,841	1,638	1,716	1,637	1,716	137	125	133	125
Mathematical and computer scientists	881	918	579	563	576	561	302	355	298	353
Natural scientists	393	364	291	283	291	283	102	81	102	79
Health diagnosing occupations	846	905	702	739	700	740	144	166	144	166
Health assessment and treating occupations	2,247	2,321	333	324	334	322	1,913	1,997	1,911	1,996
Teachers, college and university	709	804	441	482	439	481	268	321	261	312
Teachers, except college and university	4,020	3,993	989	990	984	986	3,031	3,003	3,007	2,972
Lawyers and judges	797	767	639	609	639	609	158	158	158	158
Other professional specialty occupations	3,943	3,845	2,028	1,923	1,995	1,903	1,915	1,922	1,880	1,894
Technical, sales, and administrative support	35,728	36,358	12,480	12,774	11,846	12,184	23,248	23,583	21,557	22,091
Technicians and related support	3,486	3,741	1,776	1,897	1,762	1,874	1,711	1,844	1,687	1,822
Health technologists and technicians	1,258	1,280	233	214	233	211	1,025	1,066	1,017	1,059
Engineering and science technicians	1,068	1,226	837	944	824	927	232	282	224	276
Technicians, except health, engineering, and science	1,160	1,235	706	740	704	735	454	495	446	487
Sales occupations	13,939	14,034	7,058	7,107	6,674	6,735	6,882	6,927	5,838	6,022
Supervisors and proprietors	3,869	3,840	2,504	2,499	2,481	2,482	1,365	1,341	1,347	1,307
Sales representatives, finance and business services	2,289	2,430	1,301	1,369	1,280	1,359	988	1,061	958	1,041
Sales representatives, commodities, except retail	1,583	1,670	1,287	1,288	1,268	1,271	296	382	296	379
Sales workers, retail and personal services	6,135	6,019	1,948	1,921	1,627	1,594	4,187	4,098	3,195	3,254
Sales-related occupations	63	75	18	30	18	29	46	45	41	41
Administrative support, including clerical	18,302	18,582	3,646	3,770	3,410	3,575	14,656	14,812	14,032	14,247
Supervisors	765	820	296	363	293	360	470	456	468	457
Computer equipment operators	858	776	326	267	315	262	531	509	499	483
Secretaries, stenographers, and typists	4,620	4,657	73	77	71	76	4,547	4,580	4,386	4,447
Financial records processing	2,429	2,428	220	186	216	178	2,209	2,242	2,173	2,202
Mail and message distributing	898	960	565	601	548	581	333	360	309	347
Other administrative support, including clerical	8,732	8,942	2,166	2,275	1,967	2,118	6,567	6,666	6,197	6,311
Service occupations	15,626	15,719	6,115	6,222	5,178	5,328	9,511	9,497	8,499	8,536
Private household	778	766	31	36	23	22	747	730	656	629
Protective service	1,983	1,923	1,641	1,635	1,595	1,593	342	288	326	279
Service, except private household and protective	12,864	13,031	4,442	4,552	3,560	3,713	8,422	8,479	7,516	7,628
Food service	5,441	5,463	2,157	2,251	1,470	1,598	3,284	3,212	2,664	2,630
Health service	2,046	2,072	182	159	171	150	1,864	1,913	1,769	1,817
Cleaning and building service	3,066	3,146	1,693	1,739	1,563	1,617	1,373	1,407	1,317	1,342
Personal service	2,311	2,350	411	403	355	348	1,901	1,947	1,767	1,839
Precision production, craft, and repair	13,838	13,626	12,624	12,460	12,294	12,228	1,213	1,166	1,178	1,134
Mechanics and repairers	4,507	4,447	4,359	4,279	4,247	4,212	147	168	148	164
Construction trades	5,247	5,015	5,137	4,941	4,976	4,822	110	74	105	70
Other precision production, craft, and repair	4,084	4,163	3,127	3,239	3,072	3,194	956	924	925	901
Operators, fabricators, and laborers	18,158	18,047	13,474	13,560	12,489	12,652	4,684	4,487	4,474	4,310
Machine operators, assemblers, and inspectors	8,349	8,191	4,967	4,978	4,784	4,784	3,382	3,213	3,276	3,134
Manufacturing industries	6,914	6,696	4,046	4,029	3,916	3,887	2,869	2,667	2,796	2,619
Durable goods	3,737	3,624	2,550	2,571	2,475	2,501	1,187	1,053	1,161	1,034
Nondurable goods	3,177	3,072	1,496	1,458	1,441	1,386	1,681	1,614	1,635	1,585
Nonmanufacturing industries	1,435	1,495	921	949	868	897	514	546	480	516
Transportation and material moving occupations	5,129	5,087	4,685	4,652	4,543	4,553	444	435	437	428
Motor vehicle operators	3,826	3,765	3,417	3,379	3,315	3,295	408	387	402	380
Other transportation and material moving occupations	1,303	1,321	1,268	1,273	1,227	1,258	35	48	35	48
Handlers, equipment cleaners, helpers, and laborers	4,681	4,770	3,822	3,930	3,162	3,315	859	840	761	748
Construction laborers	768	795	757	769	706	706	11	26	10	26
Other handlers, equipment cleaners, helpers, and laborers	3,912	3,974	3,065	3,160	2,456	2,609	847	814	751	721
Farming, forestry, and fishing	3,656	3,654	3,035	3,062	2,775	2,804	621	591	581	555
Farm operators and managers	1,355	1,162	1,129	966	1,108	954	226	196	222	194
Other farming, forestry, and fishing occupations	2,301	2,492	1,907	2,096	1,667	1,851	395	396	359	362

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
TOTAL						
Total, 16 years and over (thousands)	117,498	117,961	64,344	64,612	53,154	53,350
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.0	25.9	25.8	25.6	26.1	26.3
Executive, administrative, and managerial	12.7	12.5	13.9	13.8	11.1	11.0
Professional specialty	13.3	13.4	11.9	11.8	15.0	15.2
Technical, sales, and administrative support	30.4	30.8	19.4	19.8	43.7	44.2
Technicians and related support	3.0	3.2	2.8	2.9	3.2	3.5
Sales occupations	11.9	11.9	11.0	11.0	12.9	13.0
Administrative support, including clerical	15.6	15.8	5.7	5.8	27.6	27.8
Service occupations	13.3	13.3	9.5	9.6	17.9	17.8
Private household .....	.7	.6	-	.1	1.4	1.4
Protective service	1.7	1.6	2.6	2.5	.6	.5
Service, except private household and protective	10.9	11.0	6.9	7.0	15.8	15.9
Precision production, craft, and repair	11.8	11.6	19.6	19.3	2.3	2.2
Operators, fabricators, and laborers	15.5	15.3	20.9	21.0	8.8	8.4
Machine operators, assemblers, and inspectors	7.1	6.9	7.7	7.7	6.4	6.0
Transportation and material moving occupations	4.4	4.3	7.3	7.2	.8	.8
Handlers, equipment cleaners, helpers, and laborers	4.0	4.0	5.9	6.1	1.6	1.6
Farming, forestry, and fishing	3.1	3.1	4.7	4.7	1.2	1.1
White						
Total, 16 years and over (thousands)	101,600	102,277	56,289	56,621	45,311	45,656
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	27.1	27.0	27.1	26.8	27.1	27.1
Executive, administrative, and managerial	13.3	13.2	14.7	14.6	11.5	11.5
Professional specialty	13.8	13.8	12.4	12.2	15.6	15.7
Technical, sales, and administrative support	30.8	31.3	19.6	20.0	44.8	45.4
Technicians and related support	2.9	3.2	2.7	3.0	3.2	3.4
Sales occupations	12.4	12.4	11.5	11.6	13.4	13.4
Administrative support, including clerical	15.5	15.7	5.3	5.4	28.2	28.5
Service occupations	12.0	12.1	8.4	8.6	16.5	16.4
Private household .....	.5	.5	-	.1	1.1	1.1
Protective service	1.6	1.5	2.3	2.4	.6	.4
Service, except private household and protective	9.9	10.0	6.0	6.1	14.8	14.8
Precision production, craft, and repair	12.1	12.0	20.1	19.8	2.2	2.2
Operators, fabricators, and laborers	14.6	14.4	19.8	19.9	8.2	7.7
Machine operators, assemblers, and inspectors	6.7	6.5	7.4	7.4	5.8	5.4
Transportation and material moving occupations	4.2	4.1	6.9	6.8	.8	.8
Handlers, equipment cleaners, helpers, and laborers	3.7	3.8	5.5	5.7	1.5	1.5
Farming, forestry, and fishing	3.3	3.3	5.0	4.9	1.3	1.2
Black						
Total, 16 years and over (thousands)	11,956	11,855	5,949	5,924	6,007	5,931
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.6	15.9	12.9	12.4	18.2	19.3
Executive, administrative, and managerial	7.6	7.2	7.0	6.8	8.2	7.7
Professional specialty	8.0	8.6	5.8	5.6	10.1	11.7
Technical, sales, and administrative support	27.5	27.3	16.8	17.5	38.0	37.1
Technicians and related support	2.9	2.8	2.2	2.2	3.6	3.4
Sales occupations	7.7	7.9	5.8	5.5	9.7	10.3
Administrative support, including clerical	16.8	16.6	8.9	9.8	24.7	23.5
Service occupations	23.5	23.2	18.8	18.0	28.1	28.3
Private household	1.7	1.6	.1	.1	3.3	3.1
Protective service	2.9	2.8	4.8	4.1	1.1	1.6
Service, except private household and protective	18.8	18.8	14.0	13.8	23.6	23.7
Precision production, craft, and repair	9.1	8.7	15.9	15.5	2.5	1.9
Operators, fabricators, and laborers	22.5	23.0	32.6	33.0	12.6	12.9
Machine operators, assemblers, and inspectors	10.1	10.3	10.9	10.9	9.4	9.8
Transportation and material moving occupations	6.4	6.6	11.8	12.2	.9	1.0
Handlers, equipment cleaners, helpers, and laborers	6.0	6.1	9.9	10.0	2.2	2.1
Farming, forestry, and fishing	1.8	2.0	3.0	3.6	.7	.3

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	September 1990								
	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	105,612	1,026	17,467	87,120	8,810	250	1,822	1,364	103
16 to 19 years	5,473	154	276	5,043	52	12	196	31	15
16 to 17 years	1,975	80	60	1,836	28	6	89	14	9
18 to 19 years	3,498	74	217	3,207	24	6	107	17	6
20 to 24 years	11,777	99	1,067	10,611	266	22	348	54	2
25 to 34 years	31,038	172	4,209	26,657	1,884	52	515	269	10
35 to 44 years	27,358	149	5,595	21,614	2,723	60	340	297	28
45 to 54 years	17,542	175	3,848	13,518	1,994	46	203	225	13
55 to 64 years	9,812	139	2,021	7,651	1,303	35	167	257	20
55 to 59 years	5,933	62	1,297	4,573	737	19	111	123	12
60 to 64 years	3,879	77	724	3,078	566	15	56	133	8
65 years and over	2,612	136	451	2,025	589	22	53	230	16
Men, 16 years and over	56,309	189	7,999	48,121	5,675	41	1,410	1,147	30
16 to 19 years	2,727	52	133	2,541	22	12	163	25	13
16 to 17 years	983	35	32	916	13	6	73	14	6
18 to 19 years	1,744	17	101	1,626	9	6	90	11	7
20 to 24 years	6,042	20	457	5,565	156	13	292	50	2
25 to 34 years	16,991	34	2,007	14,950	1,189	6	375	239	3
35 to 44 years	14,578	19	2,475	12,084	1,689	-	244	235	2
45 to 54 years	9,275	34	1,737	7,504	1,300	5	163	177	-
55 to 64 years	5,375	15	984	4,376	921	2	122	218	1
55 to 59 years	3,221	3	626	2,592	527	1	73	108	1
60 to 64 years	2,154	12	358	1,783	393	-	49	111	-
65 years and over	1,320	15	205	1,101	398	3	49	204	10
Women, 16 years and over	49,304	837	9,468	38,999	3,135	209	412	217	74
16 to 19 years	2,747	102	143	2,501	30	1	33	6	2
16 to 17 years	993	45	27	920	15	-	16	-	4
18 to 19 years	1,754	57	116	1,581	15	1	17	6	-
20 to 24 years	5,735	79	609	5,046	110	9	56	5	-
25 to 34 years	14,047	138	2,202	11,707	695	46	140	30	7
35 to 44 years	12,779	130	3,119	9,530	1,033	59	95	62	25
45 to 54 years	8,267	142	2,111	6,014	694	41	40	48	13
55 to 64 years	4,437	124	1,037	3,276	382	33	45	38	20
55 to 59 years	2,712	59	672	1,981	210	18	38	16	12
60 to 64 years	1,725	64	366	1,295	172	15	7	23	8
65 years and over	1,292	121	246	924	190	20	4	26	6

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	September 1990												
	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	3,289	104	78	36	26	93	-	23	40	23	50	8	2,806
Mining	701	98	62	34	7	51	-	13	234	32	143	27	-
Construction	7,695	1,070	116	70	76	426	-	28	4,327	115	549	883	36
Manufacturing	21,281	2,618	1,780	715	724	2,373	-	384	3,930	6,696	806	1,128	126
Durable goods	12,638	1,619	1,197	504	329	1,408	-	214	2,676	3,624	420	542	103
Non-durable goods	8,643	999	583	211	395	965	-	170	1,254	3,072	386	586	23
Transportation and public utilities	8,171	940	439	275	331	2,124	-	299	1,226	123	1,922	480	12
Wholesale and retail trade	24,336	2,131	449	183	10,017	2,461	-	4,508	1,541	339	966	1,707	34
Wholesale trade	4,803	521	97	67	1,988	794	-	50	327	123	488	341	8
Retail trade	19,533	1,610	351	117	8,029	1,667	-	4,458	1,214	216	478	1,366	26
Finance, insurance, and real estate	7,802	1,975	207	145	1,910	2,981	-	288	166	20	15	22	74
Services	39,226	4,742	11,871	2,047	923	6,536	766	8,046	1,938	805	580	470	503
Private households	1,036	4	9	4	1	11	766	89	12	-	10	23	106
Other service industries	38,190	4,737	11,862	2,043	921	6,524	-	7,957	1,926	805	570	447	397
Professional services	25,590	2,659	10,591	1,655	162	4,772	-	4,597	408	200	304	135	107
Public administration	5,461	1,120	755	237	20	1,538	-	1,366	223	38	57	45	63

¹ Includes protective service, not shown separately.

A-26. Employed civilians with a job but not at work by reason, sex, and pay status

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Sept. 1989	Sept. 1990	Total		Wage and salary workers ¹			
			Sept. 1989	Sept. 1990	Paid absences		Unpaid absences	
					Sept. 1989	Sept. 1990	Sept. 1989	Sept. 1990
Total, 16 years and over	5,275	4,832	5,179	4,693	2,688	2,406	1,968	1,774
Vacation	2,738	2,465	2,701	2,395	1,901	1,668	568	499
Illness	1,382	1,200	1,361	1,180	556	464	687	638
Bad weather	51	50	37	30	(²)	(²)	(²)	(²)
Industrial dispute	95	36	95	35	(²)	(²)	(²)	(²)
All other reasons	1,009	1,080	985	1,053	231	273	713	637
Men, 16 years and over	2,688	2,447	2,607	2,333	1,440	1,304	857	725
Vacation	1,523	1,400	1,488	1,340	1,112	978	235	227
Illness	671	558	655	540	258	236	325	264
All other reasons ³	494	489	464	454	71	89	297	234
Women, 16 years and over	2,587	2,385	2,572	2,360	1,248	1,103	1,110	1,049
Vacation	1,215	1,065	1,214	1,055	790	691	334	272
Illness	711	643	706	641	298	228	361	375
All other reasons ³	662	677	653	664	159	184	415	403

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 1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	113,130	3,151	109,979	100.0	100.0	100.0
1 to 34 hours	24,932	847	24,084	22.0	26.9	21.9
1 to 4 hours	705	36	669	.6	1.1	.6
5 to 14 hours	4,380	194	4,186	3.9	6.2	3.8
15 to 29 hours	12,781	412	12,369	11.3	13.1	11.2
30 to 34 hours	7,066	205	6,861	6.2	6.5	6.2
35 hours and over	88,198	2,304	85,894	78.0	73.1	78.1
35 to 39 hours	7,561	135	7,426	6.7	4.3	6.8
40 hours	45,384	689	44,695	40.1	21.9	40.6
41 hours and over	35,253	1,480	33,773	31.2	47.0	30.7
41 to 48 hours	12,088	259	11,830	10.7	8.2	10.8
49 to 59 hours	13,145	450	12,695	11.6	14.3	11.5
60 hours and over	10,020	772	9,248	8.9	24.5	8.4
Average hours, total at work	39.9	44.1	39.8	-	-	-
Average hours, workers on full-time schedules	44.2	51.7	44.0	-	-	-

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 1990					
	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	24,932	6,250	18,681	24,084	6,036	18,048
Economic reasons	4,941	1,742	3,199	4,660	1,648	3,012
Slack work	2,386	1,431	955	2,203	1,348	855
Material shortages or repairs to plant and equipment	50	50	-	48	48	-
New job started during week	197	197	-	195	195	-
Job terminated during week	64	64	-	56	56	-
Could find only part-time work	2,245	-	2,245	2,157	-	2,157
Other reasons	19,990	4,508	15,482	19,424	4,388	15,036
Does not want, or unavailable for, full-time work	12,862	-	12,862	12,490	-	12,490
Vacation	1,320	1,320	-	1,307	1,307	-
Illness	1,485	1,314	171	1,466	1,301	165
Bad weather	271	271	-	232	232	-
Industrial dispute	6	6	-	6	6	-
Legal or religious holiday	82	82	-	82	82	-
Full time for this job	1,774	-	1,774	1,742	-	1,742
All other reasons	2,190	1,515	675	2,100	1,461	639
Average hours:						
Economic reasons	22.5	24.9	21.2	22.6	24.9	21.3
Other reasons	20.9	25.8	19.5	21.0	25.8	19.6
Worked 30 to 34 hours:						
Economic reasons	1,680	827	853	1,598	788	810
Other reasons	5,386	2,356	3,030	5,263	2,303	2,960

**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 1990								
	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	109,979	4,660	15,036	90,282	56,510	11,830	21,943	39.8	44.0
Wage and salary workers	101,415	4,046	13,437	83,931	53,662	11,270	18,999	39.7	43.7
Mining	631	6	5	620	306	96	219	48.0	48.3
Construction	5,930	336	223	5,371	3,589	586	1,196	41.3	43.3
Manufacturing	19,983	466	619	18,898	11,737	3,070	4,091	42.6	43.8
Durable goods	11,870	194	287	11,389	7,007	1,898	2,483	43.0	43.8
Nondurable goods	8,113	272	332	7,510	4,730	1,172	1,608	42.2	43.7
Transportation and public utilities	7,517	175	394	6,948	4,172	954	1,822	43.1	44.9
Wholesale and retail trade	21,638	1,315	4,883	15,440	9,191	2,251	3,998	37.5	44.2
Finance, insurance, and real estate	6,886	117	581	6,188	4,248	727	1,214	40.3	42.5
Service industries	33,629	1,580	6,476	25,574	16,925	3,032	5,618	37.8	43.5
Private households	1,009	185	425	400	253	47	99	26.8	45.4
All other industries	32,620	1,395	6,050	25,175	16,671	2,985	5,519	38.1	43.4
Public administration	5,200	51	257	4,892	3,495	555	842	41.4	42.8
Self-employed workers	8,314	606	1,478	6,231	2,761	548	2,921	41.1	48.5
Unpaid family workers	250	7	121	121	86	12	23	32.0	42.8

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status

(Numbers in thousands)

Sex, age, race, and marital status	September 1990							
	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	109,979	4,660	15,036	90,282	56,510	33,773	39.8	44.0
16 to 19 years	5,412	448	3,107	1,858	1,468	389	25.2	40.1
16 to 17 years	1,974	80	1,703	191	161	30	17.5	36.5
18 to 19 years	3,439	368	1,404	1,667	1,307	359	29.6	40.5
20 years and over	104,566	4,212	11,929	88,425	55,041	33,383	40.5	44.1
20 to 24 years	11,652	763	2,072	8,817	6,166	2,651	37.0	42.4
25 years and over	92,915	3,450	9,857	79,608	48,876	30,732	41.0	44.3
25 to 44 years	60,674	2,248	5,351	53,075	32,004	21,071	41.6	44.4
45 to 64 years	29,264	1,063	3,068	25,133	15,929	9,204	40.9	44.1
65 years and over	2,977	139	1,438	1,400	945	456	29.6	43.1
Men, 16 years and over	59,691	2,025	4,302	53,364	29,426	23,938	42.9	45.6
16 to 19 years	2,700	202	1,439	1,059	805	255	26.7	40.9
16 to 17 years	985	44	813	127	108	18	18.5	37.5
18 to 19 years	1,716	158	625	932	696	236	31.5	41.3
20 years and over	56,991	1,822	2,864	52,305	28,622	23,683	43.7	45.7
20 to 24 years	6,031	329	830	4,871	3,140	1,732	39.0	43.4
25 years and over	50,960	1,494	2,033	47,433	25,482	21,951	44.2	45.9
25 to 44 years	33,302	987	750	31,565	16,527	15,038	44.9	46.1
45 to 64 years	16,092	443	616	15,033	8,432	6,601	44.0	45.6
65 years and over	1,566	63	668	835	523	312	32.2	44.2
Women, 16 years and over	50,287	2,635	10,734	36,918	27,083	9,835	36.0	41.8
16 to 19 years	2,712	245	1,668	798	664	134	23.6	39.0
16 to 17 years	989	36	889	64	53	11	16.5	(¹)
18 to 19 years	1,723	210	779	734	611	123	27.7	39.4
20 years and over	47,576	2,390	9,066	36,120	26,419	9,700	36.8	41.8
20 to 24 years	5,621	434	1,242	3,945	3,026	919	34.9	41.1
25 years and over	41,955	1,956	7,824	32,175	23,393	8,781	37.0	41.9
25 to 44 years	27,372	1,261	4,602	21,509	15,475	6,034	37.5	42.0
45 to 64 years	13,172	621	2,452	10,099	7,496	2,603	37.0	41.8
65 years and over	1,411	75	770	566	422	144	26.8	41.5
RACE								
White, 16 years and over	95,138	3,780	13,472	77,886	47,386	30,500	39.9	44.2
Men	52,167	1,633	3,787	46,747	24,907	21,841	43.2	45.9
Women	42,971	2,146	9,686	31,138	22,479	8,660	35.9	41.8
Black, 16 years and over	11,199	690	1,123	9,386	7,045	2,341	38.7	42.1
Men	5,566	299	342	4,924	3,424	1,500	40.6	43.2
Women	5,633	391	781	4,462	3,621	841	36.9	40.9
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,933	873	1,415	35,645	18,537	17,108	44.7	46.2
Widowed, divorced, or separated	6,565	306	250	6,009	3,282	2,727	43.8	45.9
Single (never married)	15,193	846	2,638	11,710	7,607	4,102	38.1	43.7
Women, 16 years and over:								
Married, spouse present	27,890	1,225	6,402	20,264	15,118	5,146	35.9	41.5
Widowed, divorced, or separated	10,219	639	1,359	8,220	5,726	2,494	38.2	42.4
Single (never married)	12,179	771	2,973	8,434	6,239	2,195	34.6	41.6

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 1990								
	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	109,641	4,614	14,974	90,053	56,242	11,822	21,989	39.8	44.0
Managerial and professional specialty	29,426	483	2,706	26,237	13,889	3,478	8,870	43.0	45.8
Executive, administrative, and managerial	14,251	164	773	13,314	6,464	1,792	5,058	44.9	46.6
Professional specialty	15,175	320	1,933	12,923	7,425	1,686	3,811	41.2	45.0
Technical, sales, and administrative support	34,864	1,259	6,345	27,260	18,290	3,378	5,592	38.1	43.0
Technicians and related support	3,594	67	440	3,087	2,071	404	612	40.0	43.0
Sales occupations	13,462	669	2,774	10,019	5,179	1,367	3,474	39.3	45.8
Administrative support, including clerical	17,808	523	3,131	14,153	11,040	1,608	1,505	36.8	41.1
Service occupations	15,050	1,388	4,065	9,597	6,933	1,043	1,621	34.2	42.4
Private household	750	127	328	295	199	29	67	26.4	44.1
Protective service	1,788	31	124	1,633	973	247	414	43.2	45.4
Service, except private household and protective	12,512	1,230	3,613	7,669	5,761	767	1,141	33.4	41.7
Precision production, craft, and repair	13,055	597	421	12,037	7,572	1,726	2,739	42.3	44.0
Operators, fabricators, and laborers	17,246	887	1,437	14,922	9,558	2,197	3,167	40.9	43.9
Machine operators, assemblers, and inspectors	7,808	355	338	7,115	4,870	1,129	1,117	41.1	42.8
Transportation and material moving occupations	4,862	183	390	4,288	2,161	622	1,505	44.0	47.0
Handlers, equipment cleaners, helpers, and laborers	4,576	349	709	3,518	2,527	446	545	37.3	42.4
Men, 16 years and over ¹	59,240	1,978	4,197	53,065	29,120	7,532	16,413	43.0	45.6
Managerial and professional specialty	16,001	220	720	15,061	6,717	1,980	6,364	46.0	47.7
Executive, administrative, and managerial	8,607	97	257	8,253	3,412	1,061	3,780	47.0	48.2
Professional specialty	7,394	123	463	6,808	3,305	919	2,583	44.9	47.1
Technical, sales, and administrative support	12,313	242	1,209	10,862	5,547	1,624	3,691	43.0	46.1
Technicians and related support	1,833	24	112	1,697	1,000	247	449	42.7	44.6
Sales occupations	6,881	138	691	6,053	2,521	862	2,670	44.6	48.0
Administrative support, including clerical	3,599	80	407	3,113	2,026	514	572	40.2	43.4
Service occupations	5,952	395	1,045	4,512	3,025	563	925	37.8	43.6
Private household	33	12	7	14	10	2	2	(²)	(²)
Protective service	1,524	28	82	1,414	812	209	393	44.2	46.1
Service, except private household and protective	4,396	355	956	3,084	2,203	352	530	35.6	42.5
Precision production, craft, and repair	11,963	521	287	11,155	6,916	1,614	2,625	42.7	44.2
Operators, fabricators, and laborers	13,011	600	935	11,475	6,915	1,752	2,808	42.0	44.7
Machine operators, assemblers, and inspectors	4,785	158	148	4,479	2,838	771	871	42.5	43.8
Transportation and material moving occupations	4,453	139	242	4,072	2,013	596	1,463	45.1	47.2
Handlers, equipment cleaners, helpers, and laborers	3,773	304	545	2,924	2,064	386	474	37.6	42.6
Women, 16 years and over ¹	50,401	2,636	10,777	36,988	27,122	4,290	5,576	36.0	41.8
Managerial and professional specialty	13,425	263	1,986	11,176	7,172	1,498	2,506	39.3	43.3
Executive, administrative, and managerial	5,644	67	516	5,061	3,052	731	1,278	41.7	44.1
Professional specialty	7,781	197	1,470	6,115	4,120	767	1,228	37.6	42.6
Technical, sales, and administrative support	22,551	1,017	5,136	16,398	12,743	1,754	1,901	35.4	41.0
Technicians and related support	1,762	43	328	1,391	1,071	157	163	37.2	41.2
Sales occupations	6,581	531	2,084	3,967	2,658	504	804	33.7	42.6
Administrative support, including clerical	14,208	444	2,724	11,041	9,014	1,093	934	35.9	40.4
Service occupations	9,098	993	3,020	5,085	3,908	481	696	31.9	41.3
Private household	717	115	320	282	190	27	65	26.6	44.2
Protective service	264	3	43	219	160	38	21	37.0	41.2
Service, except private household and protective	8,117	875	2,657	4,585	3,558	415	611	32.2	41.2
Precision production, craft, and repair	1,092	76	134	882	656	112	114	37.7	41.3
Operators, fabricators, and laborers	4,235	287	502	3,446	2,643	445	359	37.7	41.2
Machine operators, assemblers, and inspectors	3,023	197	190	2,636	2,032	358	246	38.9	41.2
Transportation and material moving occupations	409	45	148	216	148	27	42	32.7	42.2
Handlers, equipment cleaners, helpers, and laborers	803	45	164	594	463	60	71	35.6	41.0

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	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Noninstitutional population ¹	188,428	188,580	188,721	188,865	188,990	189,090	189,198	189,326	189,467	189,607	189,763	189,901	190,002
Labor force ¹	125,725	125,857	126,192	126,246	126,094	126,308	126,498	126,543	126,643	126,466	126,394	126,300	126,568
Percent of population ²	66.7	66.7	66.9	66.8	66.7	66.8	66.9	66.8	66.8	66.7	66.6	66.5	66.6
Total employed ¹	119,121	119,294	119,540	119,588	119,560	119,713	120,003	119,773	119,989	120,019	119,580	119,298	119,499
Employment-population ratio ³	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.3	63.3	63.3	63.0	62.8	62.9
Resident Armed Forces	1,702	1,709	1,704	1,700	1,697	1,678	1,669	1,657	1,639	1,630	1,627	1,640	1,601
Civilian employed	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898
Agriculture	3,219	3,197	3,160	3,197	3,134	3,079	3,200	3,133	3,305	3,348	3,085	3,137	3,181
Nonagricultural industries	114,200	114,388	114,676	114,691	114,728	114,957	115,133	114,983	115,045	115,041	114,867	114,521	114,717
Unemployed	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447	6,814	7,003	7,069
Unemployment rate ⁴	5.3	5.2	5.3	5.3	5.2	5.2	5.1	5.3	5.3	5.1	5.4	5.5	5.6
Not in labor force	62,703	62,723	62,529	62,619	62,896	62,782	62,700	62,783	62,824	63,141	63,369	63,601	63,434
Men													
Noninstitutional population ¹	90,456	90,535	90,606	90,678	90,772	90,822	90,874	90,942	91,014	91,087	91,168	91,240	91,271
Labor force ¹	69,360	69,599	69,635	69,725	69,539	69,639	69,712	69,779	69,737	69,599	69,544	69,459	69,809
Percent of population ²	76.7	76.9	76.9	76.9	76.6	76.7	76.7	76.7	76.6	76.4	76.3	76.1	76.5
Total employed ¹	65,681	66,046	66,011	66,143	65,943	66,108	66,208	66,043	66,058	66,000	65,740	65,596	65,867
Employment-population ratio ³	72.6	73.0	72.9	72.9	72.6	72.8	72.9	72.6	72.6	72.5	72.1	71.9	72.2
Resident Armed Forces	1,531	1,533	1,529	1,525	1,523	1,506	1,497	1,499	1,472	1,465	1,462	1,475	1,441
Civilian employed	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586	64,535	64,278	64,121	64,426
Unemployed	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679	3,599	3,804	3,863	3,943
Unemployment rate ⁴	5.3	5.1	5.2	5.1	5.2	5.1	5.0	5.4	5.3	5.2	5.5	5.6	5.6
Not in labor force	21,096	20,936	20,971	20,953	21,233	21,183	21,162	21,163	21,277	21,488	21,624	21,781	21,462
Women													
Noninstitutional population ¹	97,972	98,045	98,115	98,187	98,218	98,268	98,324	98,383	98,453	98,520	98,595	98,661	98,731
Labor force ¹	56,365	56,258	56,557	56,521	56,555	56,669	56,785	56,764	56,906	56,867	56,849	56,842	56,758
Percent of population ²	57.5	57.4	57.6	57.6	57.6	57.7	57.8	57.7	57.8	57.7	57.7	57.6	57.5
Total employed ¹	53,440	53,248	53,529	53,445	53,617	53,605	53,795	53,729	53,931	54,019	53,839	53,702	53,632
Employment-population ratio ³	54.5	54.3	54.6	54.4	54.6	54.5	54.7	54.6	54.8	54.8	54.6	54.4	54.3
Resident Armed Forces	171	176	175	175	174	172	172	158	167	165	165	165	160
Civilian employed	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764	53,854	53,674	53,537	53,472
Unemployed	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975	2,848	3,010	3,140	3,126
Unemployment rate ⁴	5.2	5.4	5.4	5.4	5.2	5.4	5.3	5.3	5.2	5.0	5.3	5.5	5.5
Not in labor force	41,607	41,787	41,558	41,666	41,663	41,599	41,539	41,619	41,547	41,653	41,746	41,819	41,973

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	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Civilian noninstitutional population ¹	186,726	186,871	187,017	187,165	187,293	187,412	187,529	187,669	187,828	187,977	188,136	188,261	188,401
Civilian labor force	124,023	124,148	124,488	124,546	124,397	124,630	124,829	124,886	125,004	124,836	124,767	124,660	124,967
Percent of population	66.4	66.4	66.6	66.5	66.4	66.5	66.6	66.5	66.6	66.4	66.3	66.2	66.3
Employed	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898
Employment-population ratio ²	62.9	62.9	63.0	63.0	62.9	63.0	63.1	62.9	63.0	63.0	62.7	62.5	62.6
Unemployed	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447	6,814	7,003	7,069
Unemployment rate	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2	5.5	5.6	5.7
Men, 20 years and over													
Civilian noninstitutional population ¹	81,790	81,905	81,968	82,055	82,168	82,248	82,378	82,487	82,581	82,676	82,790	82,862	82,940
Civilian labor force	63,771	63,918	63,967	64,071	63,958	64,101	64,183	64,251	64,312	64,364	64,344	64,362	64,573
Percent of population	78.0	78.0	78.0	78.1	77.8	77.9	77.9	77.9	77.9	77.9	77.7	77.7	77.9
Employed	60,729	61,026	61,033	61,154	60,976	61,172	61,270	61,138	61,265	61,345	61,196	61,143	61,264
Employment-population ratio ²	74.2	74.5	74.5	74.5	74.2	74.4	74.4	74.1	74.2	74.2	73.9	73.8	73.9
Agriculture	2,330	2,304	2,292	2,293	2,269	2,254	2,268	2,258	2,388	2,400	2,262	2,246	2,295
Nonagricultural industries	58,399	58,722	58,741	58,861	58,706	58,918	59,002	58,879	58,877	58,945	58,934	58,897	58,969
Unemployed	3,042	2,892	2,934	2,917	2,983	2,929	2,913	3,113	3,047	3,019	3,148	3,219	3,309
Unemployment rate	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7	4.7	4.9	5.0	5.1
Not in labor force	18,019	17,987	18,001	17,984	18,210	18,147	18,195	18,236	18,269	18,312	18,446	18,500	18,367
Women, 20 years and over													
Civilian noninstitutional population ¹	90,771	90,860	90,952	91,042	91,091	91,157	91,237	91,330	91,414	91,495	91,581	91,688	91,765
Civilian labor force	52,358	52,281	52,541	52,586	52,686	52,814	52,800	52,954	53,146	53,174	53,211	53,315	53,121
Percent of population	57.7	57.5	57.8	57.8	57.8	57.9	57.9	58.0	58.1	58.1	58.1	58.1	57.9
Employed	49,984	49,796	50,043	50,048	50,255	50,287	50,344	50,427	50,709	50,776	50,719	50,699	50,489
Employment-population ratio ²	55.1	54.8	55.0	55.0	55.2	55.2	55.2	55.2	55.5	55.5	55.4	55.3	55.0
Agriculture	660	641	624	618	594	582	648	669	680	700	585	639	619
Nonagricultural industries	49,324	49,155	49,419	49,430	49,661	49,704	49,696	49,758	50,029	50,077	50,135	50,060	49,870
Unemployed	2,374	2,485	2,498	2,538	2,431	2,527	2,456	2,526	2,438	2,398	2,492	2,616	2,632
Unemployment rate	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6	4.5	4.7	4.9	5.0
Not in labor force	38,413	38,579	38,411	38,456	38,405	38,343	38,437	38,376	38,268	38,321	38,370	38,373	38,644
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,166	14,107	14,097	14,067	14,034	14,008	13,914	13,852	13,832	13,806	13,764	13,711	13,696
Civilian labor force	7,894	7,949	7,980	7,889	7,752	7,715	7,846	7,681	7,545	7,298	7,212	6,983	7,272
Percent of population	55.7	56.3	56.6	56.1	55.2	55.1	56.4	55.4	54.6	52.9	52.4	50.9	53.1
Employed	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376	6,268	6,038	5,815	6,144
Employment-population ratio ²	47.3	47.9	48.0	47.5	47.3	47.0	48.3	47.3	46.1	45.4	43.9	42.4	44.9
Agriculture	229	252	244	286	270	243	285	206	237	249	239	251	266
Nonagricultural industries	6,477	6,511	6,516	6,400	6,361	6,334	6,435	6,345	6,139	6,019	5,799	5,564	5,878
Unemployed	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169	1,030	1,174	1,168	1,128
Unemployment rate	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1	16.3	16.7	15.5
Not in labor force	6,272	6,158	6,117	6,178	6,282	6,293	6,068	6,171	6,287	6,508	6,552	6,728	6,424

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	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
WHITE													
Civilian noninstitutional population ¹	159,549	159,644	159,736	159,832	159,938	160,007	160,076	160,170	160,271	160,365	160,468	160,550	160,640
Civilian labor force	106,393	106,618	106,834	106,896	106,884	107,080	107,061	107,133	107,353	107,273	107,230	107,135	107,451
Percent of population	66.7	66.8	66.9	66.9	66.8	66.9	66.9	66.9	67.0	66.9	66.8	66.7	66.9
Employed	101,579	101,862	101,991	102,032	102,074	102,117	102,206	102,027	102,362	102,461	102,260	101,968	102,260
Employment-population ratio ²	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.7	63.9	63.9	63.7	63.5	63.7
Unemployed	4,814	4,756	4,843	4,864	4,811	4,962	4,856	5,106	4,991	4,812	4,970	5,167	5,190
Unemployment rate	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6	4.5	4.6	4.8	4.8
Men, 20 years and over													
Civilian labor force	55,465	55,626	55,676	55,747	55,771	55,815	55,828	55,826	55,919	55,932	55,895	56,035	56,144
Percent of population	78.3	78.5	78.5	78.5	78.4	78.4	78.4	78.3	78.3	78.3	78.1	78.3	78.4
Employed	53,153	53,483	53,482	53,580	53,560	53,547	53,593	53,425	53,578	53,650	53,576	53,613	53,721
Employment-population ratio ²	75.1	75.5	75.4	75.5	75.3	75.2	75.2	74.9	75.1	74.9	74.9	74.9	75.0
Unemployed	2,312	2,143	2,194	2,167	2,211	2,268	2,235	2,400	2,341	2,282	2,318	2,423	2,423
Unemployment rate	4.2	3.9	3.9	3.9	4.0	4.1	4.0	4.3	4.2	4.1	4.1	4.3	4.3
Women, 20 years and over													
Civilian labor force	44,198	44,207	44,360	44,469	44,475	44,615	44,523	44,740	44,925	45,055	45,120	45,100	45,000
Percent of population	57.2	57.1	57.3	57.4	57.4	57.5	57.4	57.6	57.8	57.9	57.9	57.9	57.7
Employed	42,520	42,437	42,586	42,641	42,718	42,782	42,765	42,895	43,165	43,292	43,321	43,227	43,112
Employment-population ratio ²	55.0	54.9	55.0	55.0	55.1	55.2	55.1	55.2	55.5	55.6	55.6	55.5	55.3
Unemployed	1,678	1,770	1,774	1,828	1,757	1,833	1,758	1,844	1,760	1,763	1,799	1,873	1,888
Unemployment rate	3.8	4.0	4.0	4.1	4.0	4.1	3.9	4.1	3.9	3.9	4.0	4.2	4.2
Both sexes, 16 to 19 years													
Civilian labor force	6,730	6,785	6,798	6,680	6,639	6,650	6,710	6,568	6,509	6,286	6,216	5,999	6,306
Percent of population	58.7	59.4	59.7	58.9	58.7	59.0	59.8	58.8	58.4	56.6	56.1	54.3	57.3
Employed	5,906	5,942	5,923	5,811	5,796	5,788	5,847	5,707	5,619	5,519	5,363	5,128	5,427
Employment-population ratio ²	51.5	52.0	52.0	51.2	51.3	51.4	52.1	51.1	50.4	49.7	48.4	46.4	49.3
Unemployed	824	843	875	869	843	862	863	861	890	767	853	871	879
Unemployment rate	12.2	12.4	12.9	13.0	12.7	13.0	12.9	13.1	13.7	12.2	13.7	14.5	13.9
Men	13.3	13.8	14.3	14.0	12.9	12.7	13.0	13.8	14.2	12.9	15.1	15.7	15.3
Women	11.1	10.9	11.3	11.9	12.4	13.2	12.7	12.4	13.1	11.4	12.3	13.2	12.5
BLACK													
Civilian noninstitutional population ¹	21,085	21,108	21,136	21,164	21,163	21,188	21,211	21,228	21,261	21,289	21,318	21,337	21,361
Civilian labor force	13,518	13,507	13,576	13,522	13,510	13,437	13,581	13,570	13,587	13,472	13,379	13,366	13,470
Percent of population	64.1	64.0	64.2	63.9	63.8	63.4	64.0	63.9	63.9	63.3	62.8	62.6	63.1
Employed	11,938	11,923	11,954	11,920	11,978	12,030	12,148	12,161	12,179	12,064	11,870	11,791	11,839
Employment-population ratio ²	56.6	56.5	56.6	56.3	56.6	56.8	57.3	57.3	57.3	56.7	55.7	55.3	55.4
Unemployed	1,580	1,584	1,622	1,602	1,532	1,407	1,433	1,409	1,408	1,407	1,510	1,575	1,631
Unemployment rate	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4	10.4	11.3	11.8	12.1
Men, 20 years and over													
Civilian labor force	6,239	6,234	6,247	6,244	6,189	6,172	6,227	6,240	6,241	6,293	6,293	6,235	6,330
Percent of population	74.6	74.2	74.2	74.0	73.5	73.3	73.6	73.7	73.5	74.0	73.9	73.1	74.1
Employed	5,610	5,593	5,587	5,569	5,496	5,603	5,631	5,651	5,672	5,702	5,617	5,572	5,580
Employment-population ratio ²	67.0	66.6	66.4	66.0	65.2	66.6	66.5	66.8	66.8	67.1	65.9	65.4	65.3
Unemployed	629	641	660	675	693	569	596	589	569	591	676	663	750
Unemployment rate	10.1	10.3	10.6	10.8	11.2	9.2	9.6	9.4	9.1	9.4	10.7	10.6	11.8
Women, 20 years and over													
Civilian labor force	6,360	6,336	6,373	6,311	6,393	6,423	6,456	6,451	6,516	6,377	6,328	6,358	6,361
Percent of population	60.5	60.2	60.4	59.7	60.5	60.7	60.9	60.8	61.3	59.9	59.4	59.6	59.5
Employed	5,743	5,706	5,722	5,681	5,802	5,821	5,872	5,858	5,921	5,812	5,735	5,730	5,705
Employment-population ratio ²	54.6	54.2	54.2	53.8	54.9	55.0	55.4	55.2	55.7	54.6	53.8	53.7	53.4
Unemployed	617	630	651	630	591	602	584	594	595	565	592	628	656
Unemployment rate	9.7	9.9	10.2	10.0	9.2	9.4	9.0	9.2	9.1	8.9	9.4	9.9	10.3

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	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	919	937	956	967	928	842	898	879	830	802	758	773	779
Percent of population	41.8	43.0	44.0	44.6	42.8	38.5	41.7	40.8	38.6	37.4	35.4	36.1	36.5
Employed	585	624	645	670	680	606	645	652	586	550	517	489	554
Employment-population ratio ²	26.6	28.6	29.7	30.9	31.3	27.7	30.0	30.3	27.3	25.6	24.1	22.8	25.9
Unemployed	334	313	311	297	248	236	253	227	244	252	241	284	225
Unemployment rate	36.3	33.4	32.5	30.7	26.7	28.0	28.2	25.8	29.4	31.4	31.8	36.7	28.9
Men	33.8	32.0	32.3	30.1	29.2	28.5	30.0	27.2	31.1	37.4	32.3	38.4	30.6
Women	38.8	34.9	32.7	31.4	24.0	27.5	26.2	24.3	27.6	25.3	31.2	35.0	26.9
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	13,894	13,936	13,977	14,019	14,080	14,119	14,159	14,198	14,238	14,277	14,317	14,356	14,396
Civilian labor force	9,342	9,339	9,424	9,495	9,440	9,400	9,565	9,618	9,669	9,651	9,665	9,707	9,643
Percent of population	67.2	67.0	67.4	67.7	67.0	66.6	67.6	67.7	67.9	67.6	67.5	67.6	67.0
Employed	8,564	8,595	8,672	8,691	8,769	8,666	8,831	8,850	8,927	8,967	8,899	8,951	8,808
Employment-population ratio ²	61.6	61.7	62.0	62.0	62.3	61.4	62.4	62.3	62.7	62.8	62.2	62.3	61.2
Unemployed	778	744	752	804	671	734	734	768	742	684	767	757	835
Unemployment rate	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7	7.1	7.9	7.8	8.7

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	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898
Married men, spouse present	40,649	40,839	40,886	41,041	40,982	41,347	40,989	40,730	40,881	40,554	40,545	40,604	40,919
Married women, spouse present	29,506	29,544	29,767	29,695	29,897	29,704	29,618	29,742	30,046	29,856	29,909	29,949	29,780
Women who maintain families	6,429	6,544	6,351	6,349	6,215	6,378	6,291	6,325	6,400	6,467	6,380	6,365	6,382
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,680	1,678	1,687	1,677	1,634	1,578	1,620	1,621	1,728	1,685	1,628	1,666	1,808
Self-employed workers	1,424	1,406	1,373	1,369	1,354	1,375	1,457	1,429	1,502	1,507	1,377	1,357	1,275
Unpaid family workers	132	124	122	125	107	118	115	112	101	106	96	93	112
Nonagricultural industries:													
Wage and salary workers	105,476	105,504	105,960	105,643	105,747	106,117	106,029	105,938	106,176	105,985	105,885	105,691	105,800
Government	17,613	17,595	17,681	17,728	17,626	17,607	17,724	17,816	18,113	17,863	17,788	17,842	17,555
Private industries	87,863	87,909	88,279	87,915	88,121	88,510	88,306	88,122	88,063	88,121	88,097	87,849	88,246
Private households	1,065	987	1,051	1,077	1,035	1,021	1,003	957	941	1,056	989	1,033	1,074
Other industries	86,798	86,922	87,228	86,838	87,086	87,489	87,302	87,165	87,122	87,065	87,108	86,816	87,171
Self-employed workers	8,581	8,610	8,528	8,653	8,733	8,628	8,852	8,716	8,783	8,759	8,709	8,629	8,810
Unpaid family workers	279	280	264	251	256	313	261	258	254	226	269	229	235
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,864	4,767	4,803	4,802	4,983	4,887	5,004	4,871	4,831	5,013	4,870	5,036	5,365
Slack work	2,321	2,314	2,297	2,277	2,402	2,307	2,476	2,407	2,439	2,499	2,565	2,424	2,654
Could only find part-time work	2,161	2,082	2,162	2,106	2,255	2,211	2,127	2,138	2,052	2,224	2,070	2,123	2,462
Voluntary part time	15,506	15,368	15,254	15,388	14,931	15,381	15,464	15,193	15,592	15,125	15,311	15,377	15,283
Nonagricultural industries:													
Part time for economic reasons	4,605	4,526	4,552	4,554	4,729	4,703	4,747	4,630	4,666	4,734	4,710	4,780	5,093
Slack work	2,165	2,166	2,132	2,111	2,240	2,183	2,293	2,218	2,317	2,284	2,408	2,242	2,481
Could only find part-time work	2,095	2,021	2,097	2,051	2,172	2,173	2,050	2,096	2,004	2,141	2,048	2,069	2,386
Voluntary part time	15,076	14,936	14,805	14,983	14,515	14,924	14,975	14,804	15,064	14,627	14,922	14,899	14,858

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	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116	118,350	118,389	117,953	117,658	117,898
16 to 24 years	19,489	19,487	19,482	19,298	19,309	19,247	19,459	19,196	19,080	18,979	18,702	18,366	18,657
16 to 19 years	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551	6,376	6,268	6,038	5,815	6,144
16 to 17 years	2,571	2,645	2,598	2,518	2,501	2,513	2,557	2,460	2,386	2,300	2,166	2,085	2,277
18 to 19 years	4,149	4,130	4,152	4,161	4,132	4,072	4,164	4,086	3,992	3,946	3,878	3,703	3,866
20 to 24 years	12,783	12,724	12,722	12,612	12,678	12,670	12,739	12,646	12,704	12,711	12,664	12,551	12,513
25 years and over	97,946	98,122	98,345	98,594	98,547	98,722	98,803	98,836	99,285	99,458	99,312	99,415	99,234
25 to 54 years	83,170	83,316	83,594	83,680	83,690	83,856	83,938	83,969	84,344	84,452	84,423	84,447	84,290
55 years and over	14,825	14,818	14,784	14,849	14,805	14,867	14,870	14,856	14,971	14,934	14,902	15,008	15,040
Men, 16 years and over	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544	64,586	64,535	64,278	64,121	64,426
16 to 24 years	10,070	10,211	10,123	10,128	10,091	10,071	10,110	10,018	9,992	9,883	9,775	9,556	9,725
16 to 19 years	3,421	3,487	3,449	3,464	3,444	3,430	3,441	3,407	3,321	3,189	3,083	2,977	3,161
16 to 17 years	1,280	1,357	1,329	1,308	1,298	1,315	1,317	1,270	1,224	1,166	1,106	1,047	1,187
18 to 19 years	2,138	2,134	2,140	2,153	2,149	2,121	2,126	2,130	2,071	2,009	1,985	1,907	1,967
20 to 24 years	6,649	6,724	6,674	6,664	6,647	6,640	6,669	6,611	6,671	6,694	6,692	6,579	6,564
25 years and over	54,095	54,302	54,362	54,494	54,335	54,463	54,558	54,475	54,605	54,658	54,517	54,617	54,699
25 to 54 years	45,696	45,829	45,938	46,048	45,832	46,013	46,081	46,041	46,099	46,106	46,033	46,052	46,175
55 years and over	8,439	8,488	8,432	8,441	8,509	8,485	8,480	8,432	8,498	8,489	8,492	8,578	8,606
Women, 16 years and over	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571	53,764	53,854	53,674	53,537	53,472
16 to 24 years	9,419	9,276	9,359	9,170	9,218	9,176	9,349	9,178	9,088	9,095	8,927	8,810	8,932
16 to 19 years	3,285	3,276	3,311	3,222	3,187	3,146	3,279	3,144	3,056	3,078	2,955	2,838	2,983
16 to 17 years	1,291	1,288	1,269	1,210	1,203	1,198	1,240	1,190	1,162	1,134	1,060	1,038	1,090
18 to 19 years	2,011	1,996	2,012	2,008	1,983	1,951	2,038	1,956	1,921	1,937	1,893	1,796	1,899
20 to 24 years	6,134	6,000	6,048	5,948	6,030	6,029	6,070	6,034	6,032	6,017	5,972	5,972	5,949
25 years and over	43,851	43,820	43,983	44,100	44,212	44,259	44,245	44,361	44,679	44,800	44,796	44,798	44,535
25 to 54 years	37,474	37,487	37,656	37,632	37,859	37,844	37,857	37,928	38,245	38,346	38,389	38,395	38,115
55 years and over	6,386	6,330	6,352	6,408	6,296	6,382	6,390	6,424	6,472	6,444	6,410	6,430	6,435

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

(In thousands)

Sex and age	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770	6,653	6,447	6,814	7,003	7,069
16 to 24 years	2,426	2,428	2,472	2,428	2,299	2,294	2,274	2,425	2,349	2,171	2,316	2,387	2,454
16 to 19 years	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130	1,169	1,030	1,174	1,168	1,128
16 to 17 years	534	536	548	558	434	509	520	519	597	442	457	494	512
18 to 19 years	684	645	665	645	683	609	615	609	587	612	693	653	652
20 to 24 years	1,238	1,242	1,252	1,225	1,178	1,156	1,148	1,295	1,180	1,141	1,142	1,219	1,326
25 years and over	4,197	4,144	4,188	4,242	4,279	4,304	4,237	4,347	4,245	4,266	4,456	4,617	4,667
25 to 54 years	3,701	3,652	3,688	3,744	3,780	3,781	3,727	3,864	3,832	3,850	3,958	4,028	4,121
55 years and over	465	464	496	494	525	526	515	505	464	433	494	538	513
Men, 16 years and over	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735	3,679	3,599	3,804	3,863	3,943
16 to 24 years	1,361	1,349	1,380	1,361	1,267	1,226	1,236	1,343	1,261	1,233	1,279	1,253	1,326
16 to 19 years	637	661	690	665	614	601	592	622	632	580	656	644	634
16 to 17 years	311	308	312	319	214	259	267	281	318	228	249	287	274
18 to 19 years	340	353	382	346	397	336	336	341	320	350	387	351	379
20 to 24 years	724	688	690	696	653	625	644	721	629	653	623	609	692
25 years and over	2,313	2,214	2,258	2,238	2,373	2,313	2,291	2,387	2,358	2,343	2,499	2,616	2,642
25 to 54 years	1,978	1,919	1,967	1,917	2,079	2,018	1,997	2,099	2,089	2,066	2,173	2,234	2,274
55 years and over	310	280	303	314	313	308	300	310	296	275	321	336	342
Women, 16 years and over	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034	2,975	2,848	3,010	3,140	3,126
16 to 24 years	1,065	1,079	1,092	1,067	1,032	1,069	1,038	1,082	1,087	938	1,037	1,134	1,128
16 to 19 years	551	525	530	538	507	537	534	508	537	450	518	524	494
16 to 17 years	223	228	236	239	220	250	253	238	279	214	208	207	238
18 to 19 years	344	292	283	299	286	273	279	268	267	262	306	302	273
20 to 24 years	514	554	562	529	525	532	504	574	550	488	519	610	634
25 years and over	1,884	1,930	1,930	2,004	1,906	1,991	1,945	1,961	1,887	1,923	1,956	2,001	2,025
25 to 54 years	1,723	1,733	1,721	1,827	1,701	1,763	1,730	1,765	1,742	1,785	1,785	1,794	1,847
55 years and over	155	184	193	180	212	218	216	195	169	158	173	203	171

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2	5.5	5.6	5.7
16 to 24 years	11.1	11.1	11.3	11.2	10.6	10.7	10.5	11.2	11.0	10.3	11.0	11.5	11.6
16 to 19 years	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1	16.3	16.7	15.5
16 to 17 years	17.2	16.9	17.4	18.1	14.8	16.8	16.9	17.4	20.0	16.1	17.4	19.2	18.4
18 to 19 years	14.2	13.5	13.8	13.4	14.2	13.0	12.9	13.0	12.8	13.4	15.2	15.0	14.4
20 to 24 years	8.8	8.9	9.0	8.9	8.5	8.4	8.3	9.3	8.5	8.2	8.3	8.8	9.6
25 years and over	4.1	4.1	4.1	4.1	4.2	4.2	4.1	4.2	4.1	4.1	4.3	4.4	4.5
25 to 54 years	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.4	4.3	4.4	4.5	4.6	4.7
55 years and over	3.0	3.0	3.2	3.2	3.4	3.4	3.3	3.3	3.0	2.8	3.2	3.5	3.3
Men, 16 years and over	5.4	5.2	5.3	5.3	5.3	5.2	5.1	5.5	5.4	5.3	5.6	5.7	5.8
16 to 24 years	11.9	11.7	12.0	11.8	11.2	10.9	10.9	11.8	11.2	11.1	11.6	11.6	12.0
16 to 19 years	15.7	15.9	16.7	16.1	15.1	14.9	14.7	15.4	16.0	15.4	17.5	17.8	16.7
16 to 17 years	19.5	18.5	19.0	19.6	14.2	16.5	16.9	18.1	20.6	16.4	18.4	21.5	18.8
18 to 19 years	13.7	14.2	15.1	13.8	15.6	13.7	13.6	13.8	13.4	14.8	16.3	15.5	16.2
20 to 24 years	9.8	9.3	9.4	9.5	8.9	8.6	8.8	9.8	8.6	8.9	8.5	8.5	9.5
25 years and over	4.1	3.9	4.0	3.9	4.2	4.1	4.0	4.2	4.1	4.1	4.4	4.6	4.6
25 to 54 years	4.1	4.0	4.1	4.0	4.3	4.2	4.2	4.4	4.3	4.3	4.5	4.6	4.7
55 years and over	3.5	3.2	3.5	3.6	3.6	3.5	3.4	3.5	3.4	3.1	3.6	3.8	3.8
Women, 16 years and over	5.2	5.4	5.4	5.5	5.2	5.4	5.3	5.4	5.2	5.0	5.3	5.5	5.5
16 to 24 years	10.2	10.4	10.4	10.4	10.1	10.4	10.0	10.5	10.7	9.3	10.4	11.4	11.2
16 to 19 years	14.4	13.8	13.8	14.3	13.7	14.6	14.0	13.9	14.9	12.8	14.9	15.6	14.2
16 to 17 years	14.7	15.0	15.7	16.5	15.5	17.3	16.9	16.7	19.4	15.9	16.4	16.6	17.9
18 to 19 years	14.6	12.8	12.3	13.0	12.6	12.3	12.0	12.1	12.2	11.9	13.9	14.4	12.6
20 to 24 years	7.7	8.5	8.5	8.2	8.0	8.1	7.7	8.7	8.4	7.5	8.0	9.3	9.6
25 years and over	4.1	4.2	4.2	4.3	4.1	4.3	4.2	4.2	4.1	4.1	4.2	4.3	4.4
25 to 54 years	4.4	4.4	4.4	4.6	4.3	4.5	4.4	4.4	4.4	4.4	4.4	4.5	4.6
55 years and over	2.4	2.8	2.9	2.7	3.3	3.3	3.3	2.9	2.5	2.4	2.6	3.1	2.6

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTIC													
Total (all civilian workers)	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4	5.3	5.2	5.5	5.6	5.7
Men, 20 years and over	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8	4.7	4.7	4.9	5.0	5.1
Women, 20 years and over	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8	4.6	4.5	4.7	4.9	5.0
Both sexes, 16 to 19 years	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7	15.5	14.1	16.3	16.7	15.5
White	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8	4.6	4.5	4.6	4.8	4.8
Black and other	10.2	10.2	10.3	10.2	10.1	9.2	9.4	9.1	9.3	9.4	10.3	10.4	10.8
Black	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4	10.4	10.4	11.3	11.8	12.1
Hispanic origin	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0	7.7	7.1	7.9	7.8	8.7
Married men, spouse present	3.3	3.0	3.1	3.0	3.4	3.0	3.2	3.3	3.3	3.2	3.3	3.5	3.4
Married women, spouse present	3.8	3.9	3.8	3.9	3.7	3.8	3.6	3.5	3.5	3.7	3.5	3.9	4.0
Women who maintain families	7.7	7.8	8.2	8.1	7.5	7.5	8.4	7.5	7.4	8.0	8.5	8.5	8.9
Full-time workers	5.0	4.9	5.0	5.0	5.0	4.9	4.9	5.1	4.9	4.8	5.0	5.2	5.4
Part-time workers	7.3	7.1	7.4	7.5	7.0	7.4	7.2	7.1	7.4	7.6	8.1	7.9	7.1
Unemployed 15 weeks and over ¹	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3
Labor force time lost ²	6.0	5.9	5.9	6.0	6.0	5.9	5.9	6.2	6.0	5.9	6.0	6.3	6.4
INDUSTRY													
Nonagricultural private wage and salary workers	5.4	5.3	5.4	5.4	5.5	5.5	5.5	5.7	5.5	5.3	5.5	5.7	5.8
Goods-producing industries	6.3	6.2	6.3	6.5	6.7	6.6	6.6	6.9	6.7	5.9	6.6	6.9	7.0
Mining	8.4	4.8	6.2	4.4	6.8	4.8	5.9	4.6	3.3	3.6	4.4	4.9	3.8
Construction	10.1	9.3	9.8	9.8	9.3	8.9	10.0	10.6	11.5	9.7	10.2	11.1	11.8
Manufacturing	5.2	5.4	5.4	5.6	5.9	5.9	5.5	5.9	5.4	4.9	5.7	5.8	5.7
Durable goods	4.9	5.2	5.4	5.4	5.8	5.5	5.3	5.7	5.5	4.9	5.6	5.9	6.0
Nondurable goods	5.5	5.6	5.3	5.9	5.9	6.4	5.9	6.3	5.2	5.0	5.7	5.6	5.3
Service-producing industries	5.0	4.9	5.0	4.9	5.0	5.0	5.0	5.1	5.0	5.0	5.0	5.2	5.3
Transportation and public utilities	4.5	3.9	3.6	3.4	4.3	4.0	3.4	4.3	3.2	3.0	3.7	4.1	3.9
Wholesale and retail trade	5.9	5.9	6.4	6.3	6.2	6.0	6.2	6.2	6.3	6.2	6.0	6.2	6.6
Finance and service industries	4.5	4.3	4.3	4.2	4.3	4.4	4.5	4.5	4.4	4.5	4.5	4.7	4.7
Government workers	2.8	2.7	2.7	2.6	2.4	2.5	2.3	2.1	2.5	2.9	2.8	2.8	2.9
Agricultural wage and salary workers	7.8	9.8	12.1	9.7	9.2	9.3	10.1	11.0	7.9	10.0	10.6	9.7	9.3

¹ Unemployment as a percent of the civilian labor force.

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

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

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

(Numbers in thousands)

Weeks of unemployment	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
DURATION													
Less than 5 weeks	3,169	3,166	3,258	3,302	3,119	3,159	3,194	3,204	3,026	3,046	3,120	3,325	3,044
5 to 14 weeks	2,030	1,995	1,991	2,013	2,012	2,079	2,044	2,175	2,236	2,049	2,159	2,048	2,479
15 weeks and over	1,359	1,378	1,422	1,362	1,430	1,369	1,333	1,386	1,374	1,406	1,513	1,609	1,620
15 to 26 weeks	769	743	765	730	777	731	702	697	764	763	809	845	872
27 weeks and over	590	635	657	632	653	638	631	688	610	643	704	764	748
Average (mean) duration, in weeks	11.5	11.7	11.6	11.5	12.1	11.7	12.0	12.1	11.6	12.0	12.0	12.3	12.5
Median duration, in weeks	5.0	5.0	4.8	4.8	5.1	5.4	5.1	5.0	5.4	5.1	5.2	5.2	6.2
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	48.3	48.4	48.8	49.5	47.5	47.8	48.6	47.4	45.6	46.9	45.9	47.6	42.6
5 to 14 weeks	31.0	30.5	29.8	30.1	30.7	31.5	31.1	32.2	33.7	31.5	31.8	29.3	34.7
15 weeks and over	20.7	21.1	21.3	20.4	21.8	20.7	20.3	20.5	20.7	21.6	22.3	23.0	22.7
15 to 26 weeks	11.7	11.4	11.5	10.9	11.8	11.1	10.7	10.3	11.5	11.7	11.9	12.1	12.2
27 weeks and over	9.0	9.7	9.8	9.5	9.9	9.7	9.6	10.2	9.2	9.9	10.4	10.9	10.5

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

(Numbers in thousands)

Reasons for unemployment	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NUMBER OF UNEMPLOYED													
Job losers	2,932	2,979	3,092	3,097	3,183	3,103	3,038	3,147	3,171	3,151	3,088	3,367	3,511
On layoff	852	780	969	957	1,033	964	941	999	979	918	960	973	1,127
Other job losers	2,080	2,199	2,123	2,140	2,150	2,139	2,097	2,148	2,192	2,233	2,128	2,394	2,384
Job leavers	1,034	994	1,049	1,055	1,016	1,006	1,014	1,179	1,014	995	1,027	984	934
Reentrants	1,920	1,890	1,845	1,853	1,730	1,805	1,859	1,780	1,820	1,789	1,960	1,879	1,985
New entrants	648	685	695	686	640	680	644	617	683	534	687	677	656
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	44.9	45.5	46.3	46.3	48.5	47.1	46.3	46.8	47.4	48.7	45.7	48.7	49.5
On layoff	13.0	11.9	14.5	14.3	15.7	14.6	14.4	14.9	14.6	14.2	14.2	14.1	15.9
Other job losers	31.8	33.6	31.8	32.0	32.7	32.4	32.0	31.9	32.8	34.5	31.5	34.7	33.6
Job leavers	15.8	15.2	15.7	15.8	15.5	15.3	15.5	17.5	15.2	15.4	15.2	14.3	13.2
Reentrants	29.4	28.9	27.6	27.7	26.3	27.4	28.4	26.5	27.2	27.7	29.0	27.2	28.0
New entrants	9.9	10.5	10.4	10.3	9.7	10.3	9.8	9.2	10.2	8.3	10.2	9.8	9.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.4	2.4	2.5	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.5	2.7	2.8
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.9	.8	.8	.8	.8	.7
Reentrants	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.4	1.5	1.4	1.6	1.5	1.6
New entrants .....	.5	.6	.6	.6	.5	.5	.5	.5	.5	.4	.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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Noninstitutional population ¹	184,749	185,216	185,707	186,099	186,530	186,949	187,461	187,852	188,288	188,722	189,093	189,466	189,889
Labor force ¹	121,813	122,345	122,739	123,026	123,616	124,138	124,897	125,433	125,720	126,098	126,300	126,550	126,421
Percent of population ²	65.9	66.1	66.1	66.1	66.3	66.4	66.6	66.8	66.8	66.8	66.8	66.8	66.6
Total employed ¹	114,582	115,297	115,838	116,361	116,904	117,629	118,503	118,927	119,153	119,474	119,758	119,927	119,459
Employment-population ratio ³	62.0	62.3	62.4	62.5	62.7	62.9	63.2	63.3	63.3	63.3	63.3	63.3	62.9
Resident Armed Forces	1,733	1,749	1,740	1,710	1,690	1,696	1,688	1,674	1,685	1,704	1,681	1,642	1,623
Civilian employed	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285	117,836
Agriculture	3,175	3,191	3,194	3,170	3,110	3,223	3,216	3,140	3,237	3,185	3,138	3,262	3,134
Nonagricultural industries	109,673	110,357	110,904	111,481	112,104	112,710	113,598	114,113	114,231	114,585	114,939	115,023	114,702
Unemployed	7,231	7,048	6,900	6,664	6,712	6,508	6,394	6,506	6,567	6,624	6,541	6,623	6,962
Unemployment rate ⁴	5.9	5.8	5.6	5.4	5.4	5.2	5.1	5.2	5.2	5.3	5.2	5.2	5.5
Not in labor force	62,936	62,870	62,969	63,074	62,914	62,811	62,564	62,419	62,567	62,624	62,793	62,916	63,468
Men													
Noninstitutional population ¹	88,605	88,843	89,100	89,293	89,509	89,715	89,973	90,166	90,385	90,606	90,823	91,014	91,226
Labor force ¹	67,809	68,035	68,170	68,425	68,639	68,666	69,023	69,326	69,376	69,653	69,630	69,705	69,604
Percent of population ²	76.5	76.6	76.5	76.6	76.7	76.5	76.7	76.9	76.8	76.9	76.7	76.6	76.3
Total employed ¹	63,816	64,227	64,435	64,785	64,964	65,109	65,546	65,839	65,846	66,067	66,087	66,034	65,734
Employment-population ratio ³	72.0	72.3	72.3	72.6	72.6	72.6	72.9	73.0	72.9	72.9	72.8	72.6	72.1
Resident Armed Forces	1,572	1,587	1,579	1,548	1,527	1,534	1,525	1,511	1,516	1,529	1,509	1,479	1,459
Civilian employed	62,244	62,639	62,855	63,236	63,437	63,575	64,022	64,328	64,330	64,538	64,578	64,555	64,275
Unemployed	3,993	3,808	3,736	3,640	3,675	3,557	3,477	3,486	3,530	3,586	3,544	3,671	3,870
Unemployment rate ⁴	5.9	5.6	5.5	5.3	5.4	5.2	5.0	5.0	5.1	5.1	5.1	5.3	5.6
Not in labor force	20,797	20,808	20,930	20,868	20,870	21,049	20,950	20,840	21,009	20,953	21,193	21,310	21,622
Women													
Noninstitutional population ¹	96,144	96,372	96,608	96,806	97,022	97,234	97,488	97,686	97,903	98,116	98,270	98,452	98,663
Labor force ¹	54,004	54,310	54,568	54,601	54,977	55,472	55,874	56,108	56,344	56,445	56,670	56,845	56,816
Percent of population ²	56.2	56.4	56.5	56.4	56.7	57.0	57.3	57.4	57.6	57.5	57.7	57.7	57.6
Total employed ¹	50,766	51,070	51,404	51,577	51,940	52,521	52,956	53,088	53,307	53,407	53,673	53,893	53,724
Employment-population ratio ³	52.8	53.0	53.2	53.3	53.5	54.0	54.3	54.3	54.4	54.4	54.6	54.7	54.5
Resident Armed Forces	161	161	161	162	163	162	163	163	169	175	173	163	163
Civilian employed	50,605	50,909	51,243	51,415	51,777	52,359	52,793	52,924	53,138	53,232	53,500	53,730	53,561
Unemployed	3,238	3,240	3,165	3,024	3,037	2,951	2,918	3,020	3,037	3,038	2,997	2,952	3,092
Unemployment rate ⁴	6.0	6.0	5.8	5.5	5.5	5.3	5.2	5.4	5.4	5.4	5.3	5.2	5.4
Not in labor force	42,140	42,062	42,040	42,205	42,045	41,762	41,614	41,579	41,559	41,670	41,600	41,607	41,846

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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Civilian noninstitutional population ¹	183,016	183,467	183,967	184,389	184,840	185,253	185,773	186,178	186,602	187,018	187,411	187,824	188,266
Civilian labor force	120,080	120,597	120,998	121,315	121,926	122,442	123,209	123,759	124,035	124,394	124,619	124,908	124,798
Percent of population	65.6	65.7	65.8	65.8	66.0	66.1	66.3	66.5	66.5	66.5	66.5	66.5	66.3
Employed	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285	117,836
Employment-population ratio ²	61.7	61.9	62.0	62.2	62.3	62.6	62.9	63.0	63.0	63.0	63.0	63.0	62.6
Unemployed	7,231	7,048	6,900	6,664	6,712	6,508	6,394	6,506	6,567	6,624	6,541	6,623	6,962
Unemployment rate	6.0	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.2	5.3	5.6
Men, 20 years and over													
Civilian noninstitutional population ¹	79,678	79,898	80,194	80,418	80,676	80,925	81,251	81,510	81,741	81,976	82,264	82,581	82,864
Civilian labor force	62,112	62,310	62,463	62,714	62,880	63,019	63,382	63,682	63,741	63,985	64,081	64,309	64,426
Percent of population	78.0	78.0	77.9	78.0	77.9	77.9	78.0	78.1	78.0	78.1	77.9	77.9	77.7
Employed	58,830	59,209	59,409	59,726	59,909	60,094	60,582	60,854	60,835	61,071	61,139	61,249	61,201
Employment-population ratio ²	73.8	74.1	74.1	74.3	74.3	74.3	74.6	74.7	74.4	74.5	74.3	74.2	73.9
Agriculture	2,307	2,296	2,278	2,256	2,247	2,306	2,302	2,281	2,333	2,296	2,264	2,349	2,268
Nonagricultural industries	56,523	56,913	57,131	57,470	57,662	57,789	58,280	58,573	58,502	58,775	58,876	58,901	58,933
Unemployed	3,282	3,101	3,054	2,988	2,971	2,924	2,800	2,828	2,906	2,914	2,942	3,060	3,225
Unemployment rate	5.3	5.0	4.9	4.8	4.7	4.6	4.4	4.4	4.6	4.6	4.6	4.8	5.0
Not in labor force	17,566	17,588	17,731	17,704	17,796	17,906	17,869	17,828	18,000	17,991	18,183	18,272	18,438
Women, 20 years and over													
Civilian noninstitutional population ¹	88,701	88,925	89,183	89,397	89,664	89,883	90,155	90,425	90,685	90,952	91,162	91,413	91,678
Civilian labor force	49,951	50,229	50,506	50,593	50,908	51,471	51,884	52,116	52,365	52,469	52,767	53,091	53,216
Percent of population	56.3	56.5	56.6	56.6	56.8	57.3	57.6	57.6	57.7	57.7	57.9	58.1	58.0
Employed	47,297	47,621	47,941	48,124	48,427	49,044	49,480	49,632	49,892	49,962	50,295	50,637	50,636
Employment-population ratio ²	53.3	53.6	53.8	53.8	54.0	54.6	54.9	54.9	55.0	54.9	55.2	55.4	55.2
Agriculture	616	641	629	639	590	651	666	631	647	628	608	683	614
Nonagricultural industries	46,680	46,981	47,312	47,484	47,837	48,393	48,814	49,001	49,245	49,335	49,687	49,955	50,021
Unemployed	2,654	2,608	2,565	2,470	2,481	2,427	2,405	2,484	2,473	2,507	2,471	2,454	2,580
Unemployment rate	5.3	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.7	4.8	4.7	4.6	4.8
Not in labor force	38,750	38,696	38,677	38,804	38,756	38,412	38,271	38,309	38,320	38,483	38,395	38,322	38,462
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,638	14,644	14,590	14,574	14,500	14,445	14,367	14,243	14,177	14,090	13,985	13,830	13,724
Civilian labor force	8,016	8,057	8,030	8,008	8,138	7,952	7,943	7,961	7,929	7,939	7,771	7,508	7,156
Percent of population	54.8	55.0	55.0	54.9	56.1	55.0	55.3	55.9	55.9	56.3	55.6	54.3	52.1
Employed	6,722	6,718	6,748	6,801	6,878	6,795	6,753	6,767	6,741	6,736	6,643	6,398	5,999
Employment-population ratio ²	45.9	45.9	46.3	46.7	47.4	47.0	47.0	47.5	47.6	47.8	47.5	46.3	43.7
Agriculture	252	254	287	274	273	267	248	227	257	261	266	231	252
Nonagricultural industries	6,470	6,463	6,461	6,527	6,605	6,528	6,504	6,539	6,484	6,476	6,377	6,168	5,747
Unemployed	1,295	1,339	1,281	1,207	1,260	1,157	1,190	1,194	1,188	1,203	1,128	1,110	1,157
Unemployment rate	16.2	16.6	16.0	15.1	15.5	14.5	15.0	15.0	15.0	15.2	14.5	14.8	16.2
Not in labor force	6,622	6,587	6,560	6,566	6,362	6,493	6,424	6,282	6,248	6,151	6,214	6,322	6,568

¹ The population figures are not adjusted for seasonal variation.

population.

² Civilian employment as a percent of the civilian noninstitutional

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
WHITE													
Civilian noninstitutional population ¹	157,145	157,448	157,772	158,048	158,347	158,611	158,944	159,198	159,473	159,738	160,007	160,269	160,553
Civilian labor force	103,417	103,805	104,207	104,517	104,946	105,344	105,895	106,278	106,421	106,783	107,008	107,253	107,272
Percent of population	65.8	65.9	66.0	66.1	66.3	66.4	66.6	66.8	66.7	66.8	66.9	66.9	66.8
Employed	98,105	98,600	99,135	99,653	99,946	100,526	101,246	101,505	101,603	101,962	102,132	102,284	102,163
Employment-population ratio ²	62.4	62.6	62.8	63.1	63.1	63.4	63.7	63.8	63.7	63.8	63.8	63.8	63.6
Unemployed	5,312	5,205	5,072	4,864	5,000	4,818	4,649	4,773	4,818	4,821	4,876	4,969	5,109
Unemployment rate	5.1	5.0	4.9	4.7	4.8	4.6	4.4	4.5	4.5	4.5	4.6	4.6	4.8
Men, 20 years and over													
Civilian labor force	54,227	54,394	54,490	54,664	54,853	54,928	55,228	55,399	55,457	55,683	55,804	55,892	56,025
Percent of population	78.3	78.3	78.2	78.3	78.4	78.3	78.5	78.5	78.4	78.5	78.4	78.3	78.3
Employed	51,735	52,013	52,182	52,430	52,568	52,694	53,134	53,286	53,264	53,515	53,567	53,551	53,637
Employment-population ratio ²	74.7	74.9	74.9	75.1	75.1	75.1	75.5	75.5	75.3	75.4	75.3	75.0	74.9
Unemployed	2,492	2,381	2,307	2,235	2,285	2,234	2,095	2,113	2,193	2,168	2,238	2,341	2,388
Unemployment rate	4.6	4.4	4.2	4.1	4.2	4.1	3.8	3.8	4.0	3.9	4.0	4.2	4.3
Women, 20 years and over													
Civilian labor force	42,331	42,492	42,759	42,906	43,107	43,546	43,816	44,039	44,204	44,345	44,538	44,906	45,073
Percent of population	55.8	55.8	56.1	56.2	56.3	56.8	57.0	57.1	57.2	57.3	57.4	57.8	57.8
Employed	40,459	40,638	40,941	41,182	41,325	41,817	42,131	42,249	42,429	42,555	42,755	43,118	43,220
Employment-population ratio ²	53.3	53.4	53.7	53.9	54.0	54.5	54.8	54.8	54.9	55.0	55.1	55.5	55.5
Unemployed	1,872	1,854	1,817	1,724	1,782	1,729	1,686	1,790	1,775	1,791	1,783	1,789	1,853
Unemployment rate	4.4	4.4	4.3	4.0	4.1	4.0	3.8	4.1	4.0	4.0	4.0	4.0	4.1
Both sexes, 16 to 19 years													
Civilian labor force	6,859	6,919	6,959	6,947	6,985	6,869	6,850	6,840	6,760	6,754	6,666	6,454	6,174
Percent of population	57.4	58.0	58.5	58.5	59.0	58.5	58.8	59.1	58.8	59.3	59.2	57.9	55.9
Employed	5,911	5,948	6,011	6,042	6,052	6,015	5,981	5,970	5,910	5,892	5,810	5,615	5,306
Employment-population ratio ²	49.4	49.9	50.6	50.9	51.1	51.2	51.3	51.6	51.4	51.8	51.6	50.4	48.1
Unemployed	948	971	948	905	933	854	869	869	850	862	856	839	868
Unemployment rate	13.8	14.0	13.6	13.0	13.4	12.4	12.7	12.7	12.6	12.8	12.8	13.0	14.1
Men	14.6	14.8	14.2	13.7	14.5	13.3	14.2	13.6	13.1	14.1	12.9	13.6	15.4
Women	13.0	13.2	13.0	12.3	12.2	11.5	11.0	11.7	12.0	11.4	12.8	12.3	12.7
BLACK													
Civilian noninstitutional population ¹	20,398	20,481	20,568	20,651	20,737	20,813	20,904	20,985	21,061	21,136	21,187	21,259	21,339
Civilian labor force	13,082	13,169	13,124	13,096	13,247	13,345	13,440	13,453	13,514	13,535	13,509	13,543	13,405
Percent of population	64.1	64.3	63.8	63.4	63.9	64.1	64.3	64.1	64.2	64.0	63.8	63.7	62.8
Employed	11,420	11,552	11,515	11,529	11,741	11,839	11,901	11,934	11,987	11,932	12,052	12,135	11,833
Employment-population ratio ²	56.0	56.4	56.0	55.8	56.6	56.9	56.9	56.9	56.9	56.5	56.9	57.1	55.5
Unemployed	1,663	1,618	1,610	1,567	1,506	1,505	1,539	1,519	1,527	1,603	1,457	1,408	1,572
Unemployment rate	12.7	12.3	12.3	12.0	11.4	11.3	11.5	11.3	11.3	11.8	10.8	10.4	11.7
Men, 20 years and over													
Civilian labor force	6,055	6,051	6,108	6,121	6,112	6,162	6,205	6,201	6,215	6,242	6,196	6,258	6,286
Percent of population	74.9	74.5	74.9	74.7	74.2	74.5	74.6	74.3	74.2	74.2	73.4	73.8	73.7
Employed	5,393	5,432	5,462	5,490	5,526	5,559	5,582	5,602	5,605	5,583	5,577	5,675	5,590
Employment-population ratio ²	66.7	66.9	66.9	67.0	67.1	67.2	67.2	67.1	66.9	66.3	66.1	66.9	65.5
Unemployed	662	619	646	631	586	603	623	599	610	659	619	583	696
Unemployment rate	10.9	10.2	10.6	10.3	9.6	9.8	10.0	9.7	9.8	10.6	10.0	9.3	11.1
Women, 20 years and over													
Civilian labor force	6,108	6,182	6,155	6,109	6,214	6,279	6,335	6,332	6,369	6,340	6,424	6,448	6,349
Percent of population	60.2	60.7	60.1	59.5	60.2	60.6	60.8	60.5	60.6	60.1	60.7	60.7	59.5
Employed	5,398	5,507	5,496	5,447	5,589	5,656	5,711	5,717	5,750	5,703	5,832	5,864	5,723
Employment-population ratio ²	53.2	54.0	53.7	53.0	54.2	54.6	54.8	54.7	54.7	54.1	55.1	55.2	53.6
Unemployed	710	675	659	662	625	623	624	615	619	637	592	584	626
Unemployment rate	11.6	10.9	10.7	10.8	10.1	9.9	9.8	9.7	9.7	10.0	9.2	9.1	9.9

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	919	936	862	866	921	903	900	920	929	953	889	837	770
Percent of population	42.4	43.1	39.6	39.7	42.2	41.4	41.4	42.3	42.6	43.9	41.0	38.9	36.0
Employed	629	612	557	593	626	624	607	615	632	646	644	596	520
Employment-population ratio ²	29.0	28.2	25.6	27.2	28.7	28.6	27.9	28.3	29.0	29.8	29.7	27.7	24.3
Unemployed	290	324	305	273	295	279	293	305	297	307	246	241	250
Unemployment rate	31.6	34.6	35.4	31.6	32.0	30.9	32.5	33.1	32.0	32.2	27.6	28.8	32.5
Men	33.0	33.4	37.1	30.5	32.1	32.0	32.4	34.6	29.0	31.5	29.3	31.7	33.7
Women	30.0	35.9	33.7	32.8	32.0	29.7	32.6	31.5	35.2	33.0	25.8	25.7	31.1
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,926	13,043	13,153	13,268	13,382	13,495	13,606	13,731	13,853	13,977	14,119	14,238	14,356
Civilian labor force	8,532	8,732	8,884	8,906	9,010	9,132	9,201	9,312	9,369	9,419	9,468	9,646	9,672
Percent of population	66.0	67.0	67.5	67.1	67.3	67.7	67.6	67.8	67.6	67.4	67.1	67.7	67.4
Employed	7,840	7,987	8,162	8,122	8,299	8,417	8,527	8,564	8,561	8,653	8,756	8,915	8,886
Employment-population ratio ²	60.7	61.2	62.1	61.2	62.0	62.4	62.7	62.4	61.8	61.9	62.0	62.6	61.9
Unemployed	692	745	722	784	711	714	674	748	807	767	713	731	786
Unemployment rate	8.1	8.5	8.1	8.8	7.9	7.8	7.3	8.0	8.6	8.1	7.5	7.6	8.1

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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
EMPLOYED													
Full-time workers	93,338	93,917	94,484	95,092	95,352	95,905	96,674	97,132	97,530	97,987	98,180	98,373	97,920
Men, 16 years and over	55,891	56,202	56,437	56,838	56,917	57,081	57,518	57,799	58,022	58,142	58,105	58,072	57,834
Men, 20 years and over	54,493	54,790	55,002	55,376	55,449	55,593	56,088	56,312	56,468	56,647	56,693	56,670	56,621
Women, 16 years and over	37,461	37,723	38,005	38,275	38,469	38,843	39,108	39,333	39,576	39,868	39,997	40,304	39,977
Women, 20 years and over	36,342	36,599	36,905	37,188	37,336	37,761	38,060	38,257	38,509	38,776	38,975	39,261	39,062
Both sexes, 16 to 19 years	2,504	2,528	2,577	2,528	2,567	2,551	2,526	2,562	2,553	2,564	2,512	2,443	2,236
Part-time workers	19,493	19,660	19,627	19,512	19,833	20,056	20,147	20,080	19,883	19,824	19,923	19,888	20,000
Men, 16 years and over	6,370	6,435	6,409	6,378	6,548	6,492	6,499	6,504	6,351	6,392	6,455	6,467	6,450
Men, 20 years and over	4,358	4,397	4,408	4,346	4,490	4,476	4,493	4,533	4,384	4,405	4,471	4,571	4,599
Women, 16 years and over	13,149	13,203	13,213	13,140	13,307	13,530	13,654	13,588	13,570	13,382	13,479	13,430	13,591
Women, 20 years and over	10,930	11,056	11,027	10,932	11,058	11,322	11,410	11,370	11,348	11,231	11,319	11,371	11,543
Both sexes, 16 to 19 years	4,205	4,207	4,192	4,235	4,286	4,258	4,245	4,177	4,152	4,189	4,133	3,946	3,859
UNEMPLOYED													
Looking for full-time work	5,808	5,630	5,516	5,321	5,356	5,220	5,112	5,182	5,259	5,277	5,241	5,290	5,558
Men, 16 years and over	3,418	3,260	3,152	3,116	3,135	3,053	2,908	2,964	3,024	3,050	3,049	3,144	3,268
Men, 20 years and over	3,052	2,903	2,843	2,773	2,772	2,712	2,598	2,606	2,703	2,682	2,734	2,814	2,946
Women, 16 years and over	2,385	2,388	2,323	2,222	2,222	2,194	2,142	2,239	2,237	2,248	2,163	2,155	2,287
Women, 20 years and over	2,119	2,094	2,054	1,976	1,976	1,938	1,918	1,980	1,976	1,979	1,942	1,944	2,053
Both sexes, 16 to 19 years	637	634	618	572	608	570	596	596	579	616	565	531	559
Looking for part-time work	1,422	1,418	1,392	1,332	1,362	1,280	1,287	1,319	1,313	1,336	1,301	1,332	1,407
Men, 16 years and over	574	556	559	527	554	516	522	529	519	544	480	523	586
Men, 20 years and over	228	197	223	204	197	209	215	213	201	225	220	236	275
Women, 16 years and over	845	866	837	806	806	770	767	787	794	795	825	802	813
Women, 20 years and over	531	520	512	489	506	489	486	502	497	527	528	512	529
Both sexes, 16 to 19 years	663	701	658	638	659	582	587	604	616	583	553	584	602

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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285	117,836
Married men, spouse present	40,342	40,678	40,395	40,403	40,552	40,550	40,883	40,938	40,813	40,922	41,106	40,722	40,689
Married women, spouse present	28,222	28,266	28,567	28,637	28,815	29,030	29,474	29,557	29,428	29,669	29,740	29,881	29,879
Women who maintain families	6,108	6,169	6,152	6,082	6,234	6,368	6,348	6,339	6,415	6,351	6,295	6,397	6,375
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,625	1,614	1,622	1,630	1,578	1,666	1,654	1,611	1,696	1,681	1,611	1,678	1,700
Self-employed workers	1,405	1,431	1,419	1,379	1,390	1,407	1,403	1,401	1,419	1,383	1,395	1,479	1,336
Unpaid family workers	148	155	134	156	146	156	153	126	131	124	114	107	100
Nonagricultural industries:													
Wage and salary workers	101,192	101,833	102,378	102,509	103,326	103,872	104,714	105,214	105,382	105,702	105,964	106,033	105,792
Government	16,902	17,013	16,981	17,062	17,094	17,302	17,347	17,300	17,558	17,668	17,652	17,931	17,728
Private industries	84,290	84,821	85,397	85,447	86,232	86,570	87,368	87,915	87,824	88,034	88,312	88,102	88,064
Private households	1,180	1,224	1,154	1,133	1,128	1,201	1,156	1,123	1,102	1,038	1,020	985	1,032
Other industries	83,110	83,596	84,243	84,315	85,104	85,369	86,212	86,792	86,722	86,996	87,292	87,117	87,032
Self-employed workers	8,219	8,259	8,317	8,654	8,548	8,551	8,618	8,598	8,601	8,597	8,738	8,753	8,716
Unpaid family workers	270	249	238	285	243	272	302	274	266	265	277	246	244
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,354	5,421	5,352	5,120	5,211	5,125	5,016	4,966	4,813	4,791	4,958	4,905	5,090
Slack work	2,380	2,372	2,429	2,290	2,340	2,333	2,308	2,325	2,301	2,296	2,395	2,448	2,548
Could only find part-time work	2,643	2,678	2,588	2,456	2,485	2,405	2,357	2,317	2,158	2,117	2,197	2,138	2,218
Voluntary part time	14,424	14,574	14,607	14,780	15,053	15,355	15,349	15,407	15,544	15,337	15,258	15,303	15,324
Nonagricultural industries:													
Part time for economic reasons	5,082	5,134	5,110	4,869	5,000	4,857	4,758	4,745	4,585	4,544	4,726	4,677	4,861
Slack work	2,198	2,193	2,274	2,146	2,190	2,179	2,131	2,173	2,153	2,136	2,239	2,273	2,377
Could only find part-time work	2,578	2,585	2,497	2,358	2,441	2,318	2,283	2,251	2,092	2,056	2,132	2,080	2,168
Voluntary part time	13,971	14,113	14,147	14,306	14,627	14,893	14,909	14,989	15,095	14,908	14,804	14,832	14,893

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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	112,849	113,548	114,098	114,651	115,214	115,933	116,815	117,253	117,468	117,770	118,077	118,285	117,836
16 to 24 years	20,219	20,124	20,164	20,047	20,088	19,918	19,860	19,843	19,694	19,422	19,338	19,085	18,575
16 to 19 years	6,722	6,718	6,748	6,801	6,878	6,795	6,753	6,767	6,741	6,736	6,643	6,398	5,999
16 to 17 years	2,806	2,742	2,732	2,732	2,692	2,691	2,604	2,594	2,537	2,587	2,524	2,382	2,176
18 to 19 years	3,900	3,983	4,014	4,071	4,176	4,106	4,157	4,164	4,206	4,148	4,123	4,008	3,816
20 to 24 years	13,497	13,407	13,416	13,245	13,209	13,123	13,107	13,076	12,953	12,686	12,696	12,687	12,576
25 years and over	92,659	93,415	93,927	94,575	95,169	96,018	96,929	97,382	97,827	98,354	98,690	99,193	99,320
25 to 54 years	78,163	78,749	79,330	79,995	80,591	81,245	82,052	82,464	83,018	83,530	83,828	84,255	84,387
55 years and over	14,529	14,658	14,575	14,573	14,601	14,767	14,857	14,911	14,840	14,817	14,847	14,920	14,983
Men, 16 years and over	62,244	62,639	62,855	63,236	63,437	63,575	64,022	64,328	64,330	64,538	64,578	64,555	64,275
16 to 24 years	10,479	10,409	10,405	10,446	10,448	10,348	10,347	10,328	10,212	10,154	10,091	9,964	9,686
16 to 19 years	3,413	3,430	3,446	3,510	3,528	3,480	3,439	3,474	3,495	3,467	3,438	3,306	3,074
16 to 17 years	1,412	1,398	1,411	1,406	1,401	1,391	1,318	1,319	1,313	1,331	1,310	1,220	1,113
18 to 19 years	1,983	2,045	2,036	2,099	2,117	2,102	2,135	2,142	2,181	2,142	2,132	2,070	1,953
20 to 24 years	7,066	6,979	6,959	6,935	6,920	6,867	6,908	6,854	6,717	6,687	6,652	6,659	6,612
25 years and over	51,781	52,230	52,443	52,773	53,014	53,229	53,660	53,986	54,149	54,386	54,452	54,579	54,611
25 to 54 years	43,283	43,625	43,935	44,248	44,508	44,752	45,107	45,384	45,669	45,938	45,975	46,082	46,087
55 years and over	8,508	8,609	8,510	8,503	8,516	8,483	8,559	8,575	8,495	8,454	8,491	8,473	8,558
Women, 16 years and over	50,605	50,909	51,243	51,415	51,777	52,359	52,793	52,924	53,138	53,232	53,500	53,730	53,561
16 to 24 years	9,739	9,715	9,759	9,601	9,639	9,570	9,513	9,515	9,482	9,268	9,248	9,121	8,890
16 to 19 years	3,308	3,288	3,302	3,291	3,350	3,315	3,313	3,292	3,246	3,270	3,204	3,093	2,925
16 to 17 years	1,394	1,344	1,321	1,326	1,291	1,300	1,286	1,276	1,223	1,256	1,214	1,162	1,063
18 to 19 years	1,917	1,938	1,977	1,972	2,058	2,004	2,022	2,022	2,025	2,005	1,991	1,938	1,863
20 to 24 years	6,431	6,428	6,457	6,310	6,289	6,255	6,199	6,222	6,236	5,999	6,043	6,028	5,964
25 years and over	40,878	41,185	41,484	41,802	42,154	42,789	43,269	43,396	43,678	43,968	44,239	44,613	44,710
25 to 54 years	34,880	35,124	35,395	35,747	36,083	36,493	36,945	37,080	37,349	37,592	37,853	38,173	38,300
55 years and over	6,020	6,049	6,065	6,070	6,086	6,284	6,298	6,336	6,345	6,363	6,356	6,447	6,425

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

(In thousands)

Sex and age	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	7,231	7,048	6,900	6,664	6,712	6,508	6,394	6,506	6,567	6,624	6,541	6,623	6,962
16 to 24 years	2,715	2,624	2,604	2,468	2,479	2,393	2,390	2,388	2,427	2,443	2,289	2,315	2,386
16 to 19 years	1,295	1,339	1,281	1,207	1,260	1,157	1,190	1,194	1,188	1,203	1,128	1,110	1,157
16 to 17 years	603	649	591	562	606	531	536	517	536	547	488	519	488
18 to 19 years	687	686	689	655	649	621	650	688	648	652	636	603	666
20 to 24 years	1,420	1,284	1,322	1,261	1,219	1,236	1,200	1,194	1,240	1,240	1,161	1,205	1,229
25 years and over	4,514	4,423	4,318	4,172	4,225	4,123	4,027	4,091	4,124	4,191	4,273	4,286	4,580
25 to 54 years	4,013	3,925	3,841	3,718	3,750	3,678	3,585	3,638	3,633	3,695	3,763	3,849	4,036
55 years and over	486	487	486	470	456	433	447	471	473	485	522	467	515
Men, 16 years and over	3,993	3,808	3,736	3,640	3,675	3,557	3,477	3,486	3,530	3,586	3,544	3,671	3,870
16 to 24 years	1,462	1,393	1,399	1,321	1,352	1,296	1,309	1,284	1,318	1,363	1,243	1,279	1,286
16 to 19 years	711	707	682	652	704	633	677	658	624	672	602	611	645
16 to 17 years	330	350	315	298	328	303	297	301	295	313	247	276	270
18 to 19 years	375	356	370	357	370	330	382	359	325	360	356	337	372
20 to 24 years	751	686	717	669	648	663	632	626	694	691	640	668	641
25 years and over	2,526	2,418	2,358	2,297	2,312	2,271	2,192	2,173	2,196	2,237	2,326	2,363	2,586
25 to 54 years	2,206	2,120	2,064	2,009	2,015	1,993	1,933	1,905	1,886	1,934	2,032	2,085	2,227
55 years and over	305	292	307	292	279	274	267	274	294	299	307	294	333
Women, 16 years and over	3,238	3,240	3,165	3,024	3,037	2,951	2,918	3,020	3,037	3,038	2,997	2,952	3,092
16 to 24 years	1,253	1,231	1,205	1,147	1,127	1,098	1,082	1,104	1,109	1,079	1,046	1,036	1,100
16 to 19 years	584	632	600	554	556	524	513	536	564	531	526	498	512
16 to 17 years	273	299	276	264	278	229	240	217	241	234	241	244	218
18 to 19 years	312	330	319	297	280	291	268	329	324	291	279	266	294
20 to 24 years	669	599	605	592	570	574	569	568	546	548	520	537	588
25 years and over	1,989	2,005	1,960	1,875	1,913	1,852	1,835	1,918	1,928	1,955	1,947	1,924	1,994
25 to 54 years	1,807	1,805	1,777	1,710	1,735	1,685	1,652	1,733	1,747	1,760	1,731	1,764	1,809
55 years and over	181	195	179	178	176	159	180	197	179	186	215	174	182

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Civilian workers)

Sex and age	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	6.0	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.2	5.3	5.6
16 to 24 years	11.8	11.5	11.4	11.0	11.0	10.7	10.7	10.7	11.0	11.2	10.6	10.8	11.4
16 to 19 years	16.2	16.6	16.0	15.1	15.5	14.5	15.0	15.0	15.0	15.2	14.5	14.8	16.2
16 to 17 years	17.7	19.1	17.8	17.1	18.4	16.5	17.1	16.6	17.5	17.5	16.2	17.9	18.3
18 to 19 years	15.0	14.7	14.6	13.9	13.5	13.1	13.5	14.2	13.4	13.6	13.4	13.1	14.9
20 to 24 years	9.5	8.7	9.0	8.7	8.4	8.6	8.4	8.4	8.7	8.9	8.4	8.7	8.9
25 years and over	4.6	4.5	4.4	4.2	4.3	4.1	4.0	4.0	4.0	4.1	4.2	4.1	4.4
25 to 54 years	4.9	4.7	4.6	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.3	4.4	4.6
55 years and over	3.2	3.2	3.2	3.1	3.0	2.9	2.9	3.1	3.1	3.2	3.4	3.0	3.3
Men, 16 years and over	6.0	5.7	5.6	5.4	5.5	5.3	5.2	5.1	5.2	5.3	5.2	5.4	5.7
16 to 24 years	12.2	11.8	11.9	11.2	11.5	11.1	11.2	11.1	11.4	11.8	11.0	11.4	11.7
16 to 19 years	17.2	17.1	16.5	15.7	16.6	15.4	16.4	15.9	15.1	16.2	14.9	15.6	17.3
16 to 17 years	18.9	20.0	18.2	17.5	19.0	17.9	18.4	18.6	18.3	19.0	15.8	18.4	19.5
18 to 19 years	15.9	14.8	15.4	14.5	14.9	13.6	15.2	14.4	13.0	14.4	14.3	14.0	16.0
20 to 24 years	9.6	8.9	9.3	8.8	8.6	8.8	8.4	8.4	9.4	9.4	8.8	9.1	8.8
25 years and over	4.7	4.4	4.3	4.2	4.2	4.1	3.9	3.9	3.9	4.0	4.1	4.1	4.5
25 to 54 years	4.8	4.6	4.5	4.3	4.3	4.3	4.1	4.0	4.0	4.0	4.2	4.3	4.6
55 years and over	3.5	3.3	3.5	3.3	3.2	3.1	3.0	3.1	3.3	3.4	3.5	3.3	3.7
Women, 16 years and over	6.0	6.0	5.8	5.6	5.5	5.3	5.2	5.4	5.4	5.4	5.3	5.2	5.5
16 to 24 years	11.4	11.2	11.0	10.7	10.5	10.3	10.2	10.4	10.5	10.4	10.2	10.2	11.0
16 to 19 years	15.0	16.1	15.4	14.4	14.2	13.7	13.4	14.0	14.8	14.0	14.1	13.9	14.9
16 to 17 years	16.4	18.2	17.3	16.6	17.7	15.0	15.7	14.5	16.5	15.7	16.6	17.3	17.0
18 to 19 years	14.0	14.5	13.9	13.1	12.0	12.7	11.7	14.0	13.8	12.7	12.3	12.1	13.6
20 to 24 years	9.4	8.5	8.6	8.6	8.3	8.4	8.4	8.4	8.0	8.4	7.9	8.2	9.0
25 years and over	4.6	4.6	4.5	4.3	4.3	4.1	4.1	4.2	4.2	4.3	4.2	4.1	4.3
25 to 54 years	4.9	4.9	4.8	4.6	4.6	4.4	4.3	4.5	4.5	4.5	4.4	4.4	4.5
55 years and over	2.9	3.1	2.9	2.8	2.8	2.5	2.8	3.0	2.7	2.8	3.3	2.6	2.8

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTIC													
Total (all civilian workers)	6.0	5.8	5.7	5.5	5.5	5.3	5.2	5.3	5.3	5.3	5.2	5.3	5.6
Men, 20 years and over	5.3	5.0	4.9	4.8	4.7	4.6	4.4	4.4	4.6	4.6	4.6	4.8	5.0
Women, 20 years and over	5.3	5.2	5.1	4.9	4.9	4.7	4.6	4.8	4.7	4.8	4.7	4.6	4.8
Both sexes, 16 to 19 years	16.2	16.6	16.0	15.1	15.5	14.5	15.0	15.0	15.0	15.2	14.5	14.8	16.2
White	5.1	5.0	4.9	4.7	4.8	4.6	4.4	4.5	4.5	4.5	4.6	4.6	4.8
Black and other	11.4	11.0	11.0	10.6	10.0	9.9	10.2	9.8	9.8	10.3	9.6	9.3	10.5
Black	12.7	12.3	12.3	12.0	11.4	11.3	11.5	11.3	11.3	11.8	10.8	10.4	11.7
Hispanic origin	8.1	8.5	8.1	8.8	7.9	7.8	7.3	8.0	8.6	8.1	7.5	7.6	8.1
Married men, spouse present	3.8	3.5	3.4	3.2	3.2	3.1	3.0	3.0	3.1	3.0	3.2	3.3	3.4
Married women, spouse present	4.2	4.2	4.1	3.8	3.9	3.7	3.5	3.9	3.8	3.9	3.7	3.6	3.8
Women who maintain families	9.1	8.6	8.2	8.3	8.0	7.9	8.0	8.0	8.1	8.0	7.8	7.6	8.6
Full-time workers	5.6	5.5	5.3	5.1	5.1	5.0	4.9	4.9	5.0	5.0	4.9	5.0	5.2
Part-time workers	8.2	8.2	8.0	7.6	7.7	7.1	7.1	7.3	7.2	7.4	7.2	7.4	7.7
Unemployed 15 weeks and over ¹	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.3
Labor force time lost ²	6.9	6.7	6.6	6.3	6.4	6.2	6.0	6.0	6.0	5.9	5.9	6.0	6.2
INDUSTRY													
Nonagricultural private wage and salary workers	6.0	5.8	5.7	5.5	5.5	5.4	5.3	5.3	5.4	5.4	5.5	5.5	5.7
Goods-producing industries	7.0	6.6	6.8	6.4	6.5	6.4	6.1	6.0	6.3	6.3	6.6	6.5	6.8
Mining	8.2	7.5	7.8	8.4	7.1	8.1	6.9	4.8	6.8	5.2	5.9	3.8	4.4
Construction	11.4	10.9	11.2	10.6	10.1	10.4	10.0	9.8	10.2	9.6	9.4	10.6	11.0
Manufacturing	5.7	5.4	5.4	5.2	5.4	5.1	5.0	5.0	5.2	5.4	5.8	5.4	5.7
Durable goods	5.7	5.0	5.4	4.8	5.1	4.9	4.7	4.6	4.8	5.3	5.6	5.3	5.8
Nondurable goods	5.8	6.0	5.6	5.7	5.8	5.5	5.4	5.5	5.6	5.6	6.1	5.5	5.5
Service-producing industries	5.5	5.3	5.2	5.0	5.0	5.0	4.9	5.0	5.0	4.9	5.0	5.0	5.2
Transportation and public utilities	4.3	4.5	3.9	4.0	3.7	3.9	4.0	4.1	3.6	3.9	3.5	3.9	3.9
Wholesale and retail trade	6.7	6.4	6.5	6.1	6.2	6.0	5.9	5.8	6.0	6.2	6.1	6.2	6.3
Finance and service industries	4.9	4.7	4.6	4.5	4.4	4.4	4.4	4.5	4.4	4.3	4.4	4.5	4.6
Government workers	3.4	3.3	3.0	2.9	2.9	2.6	2.7	2.8	2.8	2.7	2.4	2.5	2.8
Agricultural wage and salary workers	10.2	11.3	11.1	10.6	11.2	9.5	9.2	10.0	8.6	10.6	9.6	9.6	9.8

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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
DURATION													
Less than 5 weeks	3,206	3,204	3,074	3,092	3,104	3,066	3,141	3,154	3,150	3,242	3,157	3,092	3,163
5 to 14 weeks	2,108	2,067	2,116	1,971	1,973	1,945	1,914	2,002	1,999	2,000	2,045	2,153	2,228
15 weeks and over	1,900	1,787	1,722	1,586	1,617	1,497	1,378	1,339	1,386	1,387	1,377	1,388	1,580
15 to 26 weeks	889	862	853	767	810	766	698	687	789	746	737	741	842
27 weeks and over	1,010	925	869	819	807	731	680	652	597	641	640	647	739
Average (mean) duration, in weeks	14.3	14.1	14.1	13.5	13.5	12.9	12.4	11.9	11.6	11.6	11.9	11.9	12.3
Median duration, in weeks	6.3	6.1	6.4	5.8	5.9	5.6	5.5	5.4	5.1	4.9	5.2	5.2	5.5
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	44.4	45.4	44.5	46.5	46.4	47.1	48.8	48.6	48.2	48.9	48.0	46.6	45.4
5 to 14 weeks	29.2	29.3	30.6	29.6	29.5	29.9	29.7	30.8	30.6	30.2	31.1	32.5	32.0
15 weeks and over	26.3	25.3	24.9	23.9	24.2	23.0	21.4	20.6	21.2	20.9	20.9	20.9	22.7
15 to 26 weeks	12.3	12.2	12.3	11.5	12.1	11.8	10.8	10.6	12.1	11.3	11.2	11.2	12.1
27 weeks and over	14.0	13.1	12.6	12.3	12.1	11.2	10.6	10.0	9.1	9.7	9.7	9.8	10.6

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

(Numbers in thousands)

Reasons for unemployment	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
NUMBER OF UNEMPLOYED													
Job losers	3,404	3,303	3,163	3,106	3,089	2,999	2,940	2,850	2,937	3,056	3,108	3,156	3,322
On layoff	875	898	876	838	860	826	801	817	849	902	979	965	1,020
Other job losers	2,529	2,405	2,287	2,268	2,229	2,173	2,139	2,033	2,089	2,154	2,129	2,191	2,302
Job leavers	990	951	1,024	960	963	985	952	1,036	1,027	1,033	1,012	1,063	982
Reentrants	1,915	1,925	1,890	1,768	1,817	1,760	1,789	1,909	1,864	1,863	1,798	1,796	1,941
New entrants	878	887	861	838	794	773	746	705	671	689	655	611	673
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	47.4	46.7	45.6	46.5	46.4	46.0	45.7	43.8	45.2	46.0	47.3	47.6	48.0
On layoff	12.2	12.7	12.6	12.6	12.9	12.7	12.5	12.6	13.1	13.6	14.9	14.6	14.7
Other job losers	35.2	34.0	33.0	34.0	33.5	33.3	33.3	31.3	32.1	32.4	32.4	33.1	33.3
Job leavers	13.8	13.5	14.8	14.4	14.4	15.1	14.8	15.9	15.8	15.6	15.4	16.0	14.2
Reentrants	26.6	27.2	27.2	26.5	27.3	27.0	27.8	29.4	28.7	28.1	27.4	27.1	28.1
New entrants	12.2	12.6	12.4	12.6	11.9	11.9	11.6	10.8	10.3	10.4	10.0	9.2	9.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.4	2.5	2.5	2.5	2.7
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9	.8
Reentrants	1.6	1.6	1.6	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.6
New entrants .....	.7	.7	.7	.7	.7	.6	.6	.6	.5	.6	.5	.5	.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	1987		1988				1989				1990		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Total not in labor force	62,936	62,870	62,969	63,074	62,914	62,811	62,564	62,419	62,567	62,624	62,793	62,916	63,468
Do not want a job now	57,248	57,375	57,425	57,616	58,048	57,506	57,232	57,007	57,626	57,577	57,272	57,476	(¹)
Current activity:													
Going to school	6,182	6,472	6,356	6,317	6,799	6,289	6,367	6,278	6,995	6,229	6,379	6,709	(¹)
Ill, disabled	4,428	4,373	4,323	4,477	4,451	4,688	4,567	4,774	4,671	4,767	4,653	5,033	5,068
Keeping house	25,604	25,564	25,254	25,370	25,368	24,573	24,507	24,096	24,031	23,886	23,961	23,305	23,607
Retired	16,320	16,465	16,885	16,792	16,803	17,256	17,194	17,387	17,673	18,270	18,227	18,378	18,510
Other activity	4,715	4,502	4,607	4,660	4,627	4,700	4,597	4,472	4,256	4,425	4,052	4,051	4,052
Want a job now	5,753	5,466	5,492	5,340	5,230	5,439	5,303	5,323	5,463	5,176	5,452	5,615	5,364
Reason not looking:													
School attendance	1,488	1,363	1,337	1,301	1,349	1,408	1,291	1,286	1,447	1,246	1,406	1,440	1,423
Ill health, disability	838	880	834	815	796	782	887	932	888	907	920	922	868
Home responsibilities	1,268	1,233	1,190	1,215	1,129	1,140	1,176	1,154	1,175	1,251	1,164	1,262	1,245
Think cannot get a job	1,025	911	998	911	944	954	851	865	817	827	747	893	835
Job-market factors	656	573	677	603	606	587	563	523	518	563	488	537	520
Personal factors	369	338	320	308	338	367	289	343	299	263	259	356	315
Other reasons ²	1,133	1,080	1,133	1,098	1,012	1,154	1,097	1,085	1,136	945	1,214	1,098	993
Men													
Total not in labor force	20,797	20,808	20,930	20,868	20,870	21,049	20,950	20,840	21,009	20,953	21,193	21,310	21,622
Do not want a job now	18,836	18,884	18,971	18,892	19,036	19,087	19,027	18,941	19,169	19,221	19,201	19,368	(¹)
Want a job now	2,028	1,911	1,977	1,893	1,900	2,005	1,946	1,913	2,015	1,765	2,006	2,038	1,973
Reason not looking:													
School attendance	731	707	674	677	657	701	656	634	735	583	747	694	732
Ill health, disability	401	438	408	354	372	373	412	448	476	431	450	485	438
Think cannot get a job	451	365	439	407	455	455	405	401	349	377	315	366	407
Other reasons ²	444	401	456	455	416	476	473	430	455	374	494	493	397
Women													
Total not in labor force	42,140	42,062	42,040	42,205	42,045	41,762	41,614	41,579	41,559	41,670	41,600	41,607	41,846
Do not want a job now	38,412	38,491	38,454	38,724	39,012	38,419	38,205	38,066	38,456	38,356	38,072	38,107	(¹)
Want a job now	3,725	3,555	3,515	3,447	3,329	3,434	3,357	3,410	3,448	3,411	3,446	3,577	3,391
Reason not looking:													
School attendance	757	656	663	624	692	707	636	652	712	663	659	745	692
Ill health, disability	437	442	426	461	424	409	475	484	412	476	470	437	430
Home responsibilities	1,268	1,233	1,190	1,215	1,129	1,140	1,176	1,154	1,175	1,251	1,164	1,262	1,245
Think cannot get a job	574	546	559	505	488	500	447	464	468	450	432	527	429
Other reasons	689	678	677	643	596	678	624	655	681	571	719	605	596
White													
Total not in labor force	53,728	53,643	53,565	53,531	53,401	53,267	53,049	52,920	53,052	52,955	52,999	53,016	53,281
Do not want a job now	49,490	49,567	49,538	49,697	49,719	49,349	49,263	49,109	49,310	49,286	48,997	49,033	49,384
Want a job now	4,284	4,046	4,029	3,846	3,695	3,872	3,850	3,769	3,785	3,659	4,030	3,966	3,932
Reason not looking:													
School attendance	1,046	974	968	910	893	926	901	893	983	831	988	951	1,015
Ill health, disability	655	698	614	608	569	550	672	643	599	634	683	649	673
Home responsibilities	957	898	859	832	815	824	805	815	801	899	849	922	918
Think cannot get a job	678	590	687	603	601	646	583	535	525	531	549	629	577
Other reasons ²	947	886	901	893	817	925	889	883	878	764	960	814	748
Black													
Total not in labor force	7,316	7,312	7,444	7,555	7,490	7,468	7,464	7,532	7,547	7,601	7,678	7,716	7,934
Do not want a job now	6,108	6,073	6,124	6,319	6,267	6,154	6,145	6,275	6,032	6,281	6,401	6,411	6,755
Want a job now	1,188	1,228	1,308	1,275	1,211	1,297	1,309	1,314	1,558	1,295	1,291	1,370	1,226
Reason not looking:													
School attendance	317	342	343	326	312	385	332	315	427	343	351	416	326
Ill health, disability	157	175	206	187	215	210	207	243	288	265	239	232	177
Home responsibilities	276	302	303	319	262	280	338	269	354	313	288	268	318
Think cannot get a job	292	248	267	271	285	221	255	317	263	232	195	203	208
Other reasons ²	147	161	189	171	137	200	177	169	226	142	218	251	196

¹ Publication of seasonally adjusted data has been temporarily suspended until altered seasonal patterns can be adequately measured by the seasonal adjustment process.

² 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 1989	III 1990	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
TOTAL										
Total not in labor force	61,447	62,370	5,293	5,614	3,360	3,584	20,988	21,028	31,806	32,144
Do not want a job now	56,153	57,297	4,354	4,733	2,672	2,920	17,925	18,063	31,201	31,580
Current activity:										
Going to school	3,855	4,336	2,285	2,553	958	1,135	589	635	23	13
Ill, disabled	4,694	5,075	63	72	93	143	2,405	2,759	2,134	2,102
Keeping house	24,028	23,655	410	491	1,101	1,125	11,586	11,355	10,932	10,684
Retired	18,026	18,751	--	--	--	--	414	455	17,613	18,296
Other activity	5,550	5,479	1,596	1,617	521	518	2,932	2,859	501	485
Want a job now	5,294	5,073	939	881	687	664	3,063	2,965	605	564
Reason for not looking:										
School attendance	912	850	493	425	194	168	215	252	10	5
Ill health, disability	915	857	20	27	59	29	676	605	161	196
Home responsibility	1,307	1,362	54	73	209	217	1,006	1,021	37	50
Think cannot get a job	835	841	160	168	72	136	439	421	164	117
Job-market factors	513	522	86	81	32	86	322	291	73	64
Personal factors	322	319	74	87	40	50	117	130	91	53
Other reasons ¹	1,325	1,163	212	188	153	114	727	666	233	195
Men										
Total not in labor force	20,135	20,784	2,474	2,657	1,044	1,166	4,184	4,378	12,434	12,583
Do not want a job now	18,322	19,062	2,013	2,222	802	934	3,350	3,550	12,157	12,355
Current activity:										
Going to school	1,908	2,152	1,143	1,254	484	595	277	295	4	8
Ill, disabled	2,418	2,524	35	42	50	59	1,345	1,515	987	908
Keeping house	430	506	20	53	12	35	148	193	250	226
Retired	10,907	11,180	--	--	--	--	293	310	10,614	10,870
Other activity	2,660	2,700	815	873	256	247	1,287	1,237	302	343
Want a job now	1,813	1,722	460	435	242	232	835	828	277	228
Reason for not looking:										
School attendance	440	419	259	247	94	96	81	72	6	4
Ill health, disability	503	446	12	16	42	15	370	343	80	72
Think cannot get a job	351	394	75	92	41	84	163	164	72	53
Other reasons ¹	519	463	115	79	64	36	221	249	119	99
Women										
Total not in labor force	41,311	41,586	2,819	2,957	2,316	2,418	16,804	16,650	19,372	19,561
Do not want a job now	37,831	38,234	2,341	2,511	1,870	1,986	14,576	14,513	19,044	19,224
Current activity:										
Going to school	1,947	2,184	1,142	1,299	474	540	312	340	19	5
Ill, disabled	2,276	2,551	28	30	42	84	1,060	1,243	1,146	1,193
Keeping house	23,598	23,149	390	438	1,089	1,091	11,438	11,163	10,682	10,458
Retired	7,120	7,571	--	--	--	--	121	145	6,999	7,426
Other activity	2,890	2,779	781	744	265	271	1,646	1,622	199	142
Want a job now	3,481	3,351	479	446	446	432	2,228	2,137	328	336
Reason for not looking:										
School attendance	472	431	234	178	100	71	133	180	4	2
Ill health, disability	412	411	9	11	17	14	306	262	81	124
Home responsibility	1,307	1,362	54	73	209	217	1,006	1,021	37	50
Think cannot get a job	484	447	85	75	31	52	276	256	92	63
Other reasons	806	700	97	108	89	78	506	417	114	96

¹ Includes small number of men not looking for work because of "home responsibilities."

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

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

**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 1989	III 1990	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
WHITE												
Total not in labor force	52,175	52,410	6,465	6,705	17,344	17,085	28,396	28,620	16,860	17,243	35,316	35,167
Do not want a job now	48,513	48,693	5,430	5,638	15,188	14,957	27,895	28,098	15,602	16,013	32,910	32,680
Current activity:												
Going to school	2,874	3,096	2,433	2,643	421	443	20	10	1,417	1,489	1,457	1,607
Ill, disabled	3,670	3,935	118	168	1,833	2,107	1,719	1,660	1,892	2,004	1,777	1,931
Keeping house	21,302	20,458	1,226	1,194	10,183	9,636	9,893	9,628	337	361	20,965	20,096
Retired	16,176	16,775	—	—	367	416	15,809	16,359	9,838	10,026	6,338	6,749
Other activity	4,491	4,429	1,653	1,633	2,385	2,354	453	441	2,118	2,133	2,373	2,296
Want a job now	3,658	3,698	1,031	1,044	2,156	2,178	472	476	1,281	1,228	2,377	2,470
Reason for not looking:												
School attendance	607	590	444	406	153	179	10	5	319	292	288	298
Ill health, disability	597	641	49	43	444	447	104	150	346	333	251	308
Home responsibility	898	1,015	162	172	711	797	25	45	—	—	898	1,015
Think cannot get a job	509	554	106	189	281	260	122	106	206	259	303	295
Other reasons ¹	1,048	898	270	234	567	495	211	170	411	344	637	554
BLACK												
Total not in labor force	7,347	7,736	1,755	1,946	2,784	2,939	2,808	2,851	2,638	2,770	4,709	4,966
Do not want a job now	5,875	6,578	1,205	1,515	1,981	2,292	2,689	2,771	2,155	2,374	3,719	4,203
Current activity:												
Going to school	667	806	573	724	94	79	—	3	320	408	347	398
Ill, disabled	945	988	29	43	520	553	396	393	477	446	468	543
Keeping house	1,966	2,334	227	340	922	1,209	818	785	90	139	1,876	2,195
Retired	1,470	1,587	—	—	32	34	1,437	1,553	839	925	631	662
Other activity	826	863	377	409	412	417	37	37	430	457	396	406
Want a job now	1,472	1,158	550	431	804	647	119	80	482	395	990	763
Reason for not looking:												
School attendance	264	204	214	150	50	54	—	—	103	88	161	116
Ill health, disability	310	187	31	9	224	132	56	45	154	101	156	86
Home responsibility	362	320	93	113	256	202	12	6	—	—	362	320
Think cannot get a job	296	244	121	101	139	136	37	7	130	112	167	132
Other reasons ¹	239	203	91	57	134	124	14	22	95	95	145	108
HISPANIC ORIGIN												
Total not in labor force	4,390	4,590	1,101	1,149	2,126	2,201	1,163	1,240	1,154	1,232	3,236	3,358
Do not want a job now	3,810	3,923	821	923	1,851	1,782	1,138	1,218	976	1,043	2,834	2,880
Current activity:												
Going to school	376	408	315	322	61	82	—	3	164	158	212	249
Ill, disabled	373	411	13	42	257	246	105	124	151	214	222	197
Keeping house	1,955	2,013	276	363	1,292	1,271	386	379	37	43	1,918	1,971
Retired	644	700	—	—	15	16	629	684	377	415	268	286
Other activity	462	390	217	197	227	166	18	28	248	214	214	177
Want a job now	501	507	170	189	307	282	23	36	141	154	359	353
Reason for not looking:												
School attendance	92	96	82	68	10	28	—	—	38	51	54	46
Ill health, disability	49	69	9	8	38	48	2	14	27	35	22	34
Home responsibility	177	187	43	40	133	138	—	9	—	—	177	187
Think cannot get a job	74	97	9	61	60	25	6	11	16	47	59	51
Other reasons ¹	109	57	27	11	66	44	15	2	60	21	49	36

¹ Includes small number of men not looking for work because of "home responsibilities."

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(in thousands)

Reason and sex	3rd Quarter 1990							
	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	76	24	1	7	45	61	10	21
Lacks education or training	171	50	38	81	2	98	62	33
Other personal handicap	72	12	12	42	6	38	30	9
Job-market factors:								
Could not find work	312	67	60	155	30	198	103	31
Thinks no job available	210	14	26	136	34	159	39	3
Men								
Personal factors:								
Employers think too young or old	37	19	—	4	14	22	10	8
Lacks education or training	91	33	31	27	—	47	40	14
Other personal handicap	34	9	8	16	1	26	6	7
Job-market factors:								
Could not find work	139	22	28	67	21	94	41	14
Thinks no job available	94	9	17	51	17	70	15	3
Women								
Personal factors:								
Employers think too young or old	40	5	1	3	31	39	—	13
Lacks education or training	80	17	7	54	2	51	22	19
Other personal handicap	38	4	4	26	5	12	24	2
Job-market factors:								
Could not find work	174	45	32	88	9	105	62	17
Thinks no job available	116	4	9	85	17	89	24	—

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 1989	III 1990	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
TOTAL												
Do not intend to seek work	53,115	54,124	5,078	5,526	16,831	17,074	31,206	31,524	45,730	46,065	5,737	6,189
Intend to seek work in the next 12 months	8,332	8,246	3,575	3,672	4,157	3,954	600	619	6,441	6,326	1,609	1,547
Never worked	1,137	1,195	957	1,021	177	171	3	4	739	706	334	391
Last worked over 5 years ago	999	992	24	57	784	760	191	175	715	709	252	250
Last worked 1 to 5 years ago	1,919	2,033	478	569	1,234	1,270	207	194	1,476	1,595	378	377
Worked during the previous 12 months	4,277	4,025	2,116	2,025	1,962	1,753	199	247	3,511	3,316	646	529
Men												
Do not intend to seek work	17,392	17,902	1,952	2,166	3,269	3,451	12,171	12,286	14,758	15,075	2,115	2,210
Intend to seek work in the next 12 months	2,743	2,882	1,566	1,657	915	928	263	297	2,126	2,166	523	560
Never worked	474	526	433	487	41	37	—	3	332	299	125	180
Last worked over 5 years ago	212	205	3	5	131	125	77	75	144	152	57	44
Last worked 1 to 5 years ago	513	560	152	193	257	276	104	92	390	413	105	117
Worked during the previous 12 months	1,544	1,591	978	972	485	490	81	128	1,260	1,303	236	218
Women												
Do not intend to seek work	35,723	36,222	3,126	3,360	13,562	13,623	19,035	19,239	30,972	30,990	3,622	3,978
Intend to seek work in the next 12 months	5,589	5,364	2,009	2,015	3,242	3,026	337	322	4,316	4,159	1,087	988
Never worked	663	669	524	534	136	134	3	1	407	407	209	211
Last worked over 5 years ago	787	788	21	52	653	636	113	100	571	557	195	206
Last worked 1 to 5 years ago	1,406	1,473	326	377	977	994	103	102	1,087	1,183	273	260
Worked during the previous 12 months	2,733	2,434	1,138	1,052	1,477	1,263	118	119	2,251	2,013	410	311

**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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
TOTAL								
Civilian noninstitutional population	186,602	188,266	159,473	160,553	21,061	21,339	13,853	14,356
Civilian labor force	125,156	125,897	107,298	108,143	13,714	13,603	9,463	9,767
Percent of population	67.1	66.9	67.3	67.4	65.1	63.7	68.3	66.0
Employed	118,689	119,030	102,585	103,136	12,171	12,017	8,660	8,984
Agriculture	3,564	3,445	3,348	3,199	167	168	497	533
Nonagricultural industries	115,125	115,585	99,237	99,937	12,004	11,849	8,163	8,451
Unemployed	6,466	6,887	4,712	5,007	1,544	1,586	803	783
Unemployment rate	5.2	5.5	4.4	4.6	11.3	11.7	8.5	8.0
Not in labor force	61,447	62,370	52,175	52,410	7,347	7,736	4,390	4,590
Men, 16 years and over								
Civilian noninstitutional population	88,869	89,787	76,539	77,161	9,457	9,586	6,857	7,117
Civilian labor force	68,733	68,983	59,680	59,918	6,820	6,816	5,703	5,885
Percent of population	77.3	76.8	78.0	77.7	72.1	71.1	83.2	82.7
Employed	65,496	65,421	57,275	57,295	6,093	6,013	5,248	5,441
Agriculture	2,800	2,718	2,625	2,505	138	147	438	446
Nonagricultural industries	62,696	62,703	54,650	54,790	5,955	5,866	4,811	4,996
Unemployed	3,237	3,562	2,405	2,623	727	802	455	444
Unemployment rate	4.7	5.2	4.0	4.4	10.7	11.8	8.0	7.5
Not in labor force	20,135	20,784	16,860	17,243	2,638	2,770	1,154	1,232
Men, 20 years and over								
Civilian noninstitutional population	81,741	82,864	70,737	71,589	8,375	8,528	6,147	6,394
Civilian labor force	64,079	64,737	55,700	56,259	6,265	6,334	5,266	5,437
Percent of population	78.4	78.1	78.7	78.6	74.8	74.3	85.7	85.0
Employed	61,466	61,821	53,746	54,119	5,693	5,681	4,895	5,073
Agriculture	2,501	2,436	2,349	2,241	121	135	403	407
Nonagricultural industries	58,965	59,385	51,397	51,879	5,572	5,546	4,492	4,666
Unemployed	2,612	2,916	1,953	2,139	572	653	371	364
Unemployment rate	4.1	4.5	3.5	3.8	9.1	10.3	7.0	6.7
Not in labor force	17,662	18,127	15,037	15,331	2,110	2,195	881	956
Women, 16 years and over								
Civilian noninstitutional population	97,734	98,499	82,934	83,391	11,604	11,753	6,996	7,239
Civilian labor force	56,422	56,914	47,618	48,225	6,895	6,787	3,760	3,881
Percent of population	57.7	57.8	57.4	57.8	59.4	57.7	53.7	53.6
Employed	53,193	53,609	45,310	45,841	6,078	6,003	3,412	3,542
Agriculture	764	727	724	693	28	21	59	87
Nonagricultural industries	52,429	52,882	44,586	45,147	6,049	5,982	3,353	3,455
Unemployed	3,229	3,305	2,308	2,384	817	784	348	339
Unemployment rate	5.7	5.8	4.8	4.9	11.9	11.5	9.3	8.7
Not in labor force	41,311	41,586	35,316	35,167	4,709	4,966	3,236	3,358
Women, 20 years and over								
Civilian noninstitutional population	90,685	91,678	77,236	77,925	10,504	10,670	6,303	6,529
Civilian labor force	52,193	53,050	44,037	44,911	6,372	6,345	3,442	3,584
Percent of population	57.6	57.9	57.0	57.6	60.7	59.5	54.6	54.9
Employed	49,574	50,308	42,144	42,931	5,732	5,697	3,159	3,300
Agriculture	711	670	672	639	28	20	55	81
Nonagricultural industries	48,863	49,638	41,473	42,292	5,704	5,677	3,104	3,219
Unemployed	2,619	2,742	1,893	1,980	640	649	283	284
Unemployment rate	5.0	5.2	4.3	4.4	10.0	10.2	8.2	7.9
Not in labor force	38,492	38,628	33,198	33,014	4,132	4,325	2,861	2,946
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,177	13,724	11,500	11,038	2,182	2,140	1,402	1,433
Civilian labor force	8,884	8,110	7,561	6,973	1,077	924	755	746
Percent of population	62.7	59.1	65.7	63.2	49.3	43.2	53.8	52.0
Employed	7,649	6,901	6,695	6,086	745	639	606	611
Agriculture	351	339	328	319	17	13	38	45
Nonagricultural industries	7,298	6,562	6,367	5,767	728	626	568	566
Unemployed	1,235	1,209	866	888	332	285	149	135
Unemployment rate	13.9	14.9	11.5	12.7	30.8	30.8	19.7	18.1
Not in labor force	5,293	5,614	3,939	4,065	1,105	1,216	647	687

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, and age	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
TOTAL								
Civilian noninstitutional population	13,853	14,356	8,521	8,826	1,540	1,564	829	820
Civilian labor force	9,463	9,767	5,992	6,169	900	867	522	528
Percent of population	68.3	68.0	70.3	69.9	58.4	55.4	63.0	64.4
Employed	8,660	8,984	5,457	5,666	800	791	493	486
Agriculture	497	533	451	484	11	11	1	5
Nonagricultural industries	8,163	8,451	5,007	5,183	789	780	492	481
Unemployed	803	783	535	503	100	76	29	42
Unemployment rate	8.5	8.0	8.9	8.1	11.1	8.7	5.6	7.9
Not in labor force	4,390	4,590	2,529	2,657	640	697	306	292
Men, 16 years and over								
Civilian noninstitutional population	6,857	7,117	4,345	4,538	682	675	403	409
Civilian labor force	5,703	5,885	3,669	3,842	535	493	312	305
Percent of population	83.2	82.7	84.4	84.7	78.5	73.0	77.5	74.5
Employed	5,248	5,441	3,366	3,543	470	448	296	284
Agriculture	438	446	394	408	10	10	1	3
Nonagricultural industries	4,811	4,996	2,972	3,135	461	438	295	281
Unemployed	455	444	303	299	64	45	16	21
Unemployment rate	8.0	7.5	8.3	7.8	12.0	9.0	5.2	6.9
Not in labor force	1,154	1,232	676	696	147	182	91	104
Men, 20 years and over								
Civilian noninstitutional population	6,147	6,394	3,849	4,044	613	611	379	386
Civilian labor force	5,266	5,437	3,339	3,512	502	470	302	294
Percent of population	85.7	85.0	86.8	86.8	82.0	76.9	79.9	76.2
Employed	4,895	5,073	3,097	3,269	450	432	287	275
Agriculture	403	407	363	375	10	9	1	3
Nonagricultural industries	4,492	4,666	2,735	2,894	440	423	286	273
Unemployed	371	364	242	242	52	38	15	19
Unemployment rate	7.0	6.7	7.3	6.9	10.4	8.0	5.1	6.5
Not in labor force	881	956	510	533	111	141	76	92
Women, 16 years and over								
Civilian noninstitutional population	6,996	7,239	4,176	4,288	859	889	426	411
Civilian labor force	3,760	3,881	2,323	2,327	365	374	210	223
Percent of population	53.7	53.6	55.6	54.3	42.5	42.1	49.3	54.2
Employed	3,412	3,542	2,092	2,123	330	343	197	202
Agriculture	59	87	57	76	1	1	—	2
Nonagricultural industries	3,353	3,455	2,035	2,048	328	342	197	200
Unemployed	348	339	232	204	35	31	13	21
Unemployment rate	9.3	8.7	10.0	8.8	9.7	8.4	6.3	9.3
Not in labor force	3,236	3,358	1,853	1,961	494	515	216	188
Women, 20 years and over								
Civilian noninstitutional population	6,303	6,529	3,721	3,804	777	814	413	391
Civilian labor force	3,442	3,584	2,102	2,122	335	348	201	212
Percent of population	54.6	54.9	56.5	55.8	43.1	42.7	48.6	54.2
Employed	3,159	3,300	1,916	1,960	305	320	189	192
Agriculture	55	81	53	71	1	—	—	2
Nonagricultural industries	3,104	3,219	1,863	1,889	304	320	190	190
Unemployed	283	284	185	162	30	27	11	20
Unemployment rate	8.2	7.9	8.8	7.6	9.0	7.9	5.6	9.4
Not in labor force	2,861	2,946	1,620	1,682	442	466	212	179
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,402	1,433	951	978	151	139	37	43
Civilian labor force	755	746	551	536	63	50	19	22
Percent of population	53.8	52.0	58.0	54.8	41.6	35.7	(²)	(²)
Employed	606	611	444	437	46	39	16	19
Agriculture	38	45	35	37	—	2	—	—
Nonagricultural industries	568	566	409	400	45	37	16	19
Unemployed	149	135	107	99	17	11	3	3
Unemployment rate	19.7	18.1	19.5	18.4	27.3	(²)	(²)	(²)
Not in labor force	647	687	399	442	88	89	18	21

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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
CHARACTERISTIC								
Total (all civilian workers)	118,689	119,030	102,585	103,136	12,171	12,017	8,660	8,984
Men	65,496	65,421	57,275	57,295	6,093	6,013	5,248	5,441
Women	53,193	53,609	45,310	45,841	6,078	6,003	3,412	3,542
OCCUPATION								
Managerial and professional specialty	30,160	30,509	27,193	27,507	1,868	1,922	1,095	1,056
Executive, administrative, and managerial	15,026	15,003	13,658	13,703	888	870	590	538
Professional specialty	15,134	15,507	13,534	13,803	980	1,052	505	518
Technical, sales, and administrative support	36,324	36,453	31,747	32,017	3,405	3,300	2,026	2,070
Technicians and related support	3,671	3,799	3,129	3,309	366	328	138	168
Sales occupations	14,176	14,154	12,804	12,778	953	960	681	727
Administrative support, including clerical	18,476	18,500	15,814	15,930	2,086	2,013	1,206	1,175
Service occupations	15,945	16,114	12,472	12,707	2,851	2,778	1,720	1,830
Private household	880	807	637	583	217	187	133	166
Protective service	2,050	2,059	1,637	1,683	368	344	110	118
Service, except private household and protective	13,014	13,247	10,198	10,441	2,265	2,248	1,477	1,546
Precision production, craft, and repair	13,973	13,860	12,470	12,446	1,112	1,033	1,151	1,183
Mechanics and repairers	4,485	4,516	4,003	4,058	366	348	332	313
Construction trades	5,374	5,208	4,861	4,750	393	355	471	477
Other precision production, craft, and repair	4,114	4,137	3,605	3,638	353	330	348	394
Operators, fabricators, and laborers	18,315	18,193	15,037	14,899	2,696	2,730	2,126	2,258
Machine operators, assemblers, and inspectors	8,302	8,292	6,782	6,742	1,191	1,230	1,155	1,201
Transportation and material moving occupations	5,021	4,912	4,201	4,046	719	763	401	398
Handlers, equipment cleaners, helpers, and laborers	4,992	4,989	4,054	4,111	785	737	570	659
Construction laborers	828	862	683	743	123	104	108	130
Other handlers, equipment cleaners, helpers, and laborers	4,164	4,127	3,370	3,368	663	634	462	529
Farming, forestry, and fishing	3,973	3,901	3,666	3,560	239	253	543	587
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,880	1,887	1,714	1,700	135	132	440	473
Self-employed workers	1,525	1,438	1,478	1,380	31	35	49	56
Unpaid family workers	159	121	156	118	1	2	8	3
Nonagricultural industries:								
Wage and salary workers	106,163	106,543	91,015	91,669	11,601	11,393	7,675	8,012
Government	17,084	17,271	13,835	14,041	2,664	2,626	961	947
Private industries	89,079	89,272	77,180	77,628	8,937	8,766	6,714	7,065
Private households	1,145	1,075	850	796	265	237	165	189
Other industries	87,934	88,197	76,330	76,832	8,672	8,529	6,549	6,875
Self-employed workers	8,690	8,794	7,968	8,040	398	452	471	427
Unpaid family workers	272	248	253	228	5	4	17	12
FULL- AND PART-TIME STATUS¹								
Full-time schedules	98,052	98,167	84,695	84,838	10,071	10,058	7,301	7,526
Part time for economic reasons	5,034	5,307	4,037	4,340	826	789	599	668
Part time for noneconomic reasons	15,603	15,556	13,854	13,957	1,274	1,171	760	790

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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
CHARACTERISTIC								
Total (all civilian workers)	8,660	8,984	5,457	5,666	800	791	493	486
Men	5,248	5,441	3,366	3,543	470	448	296	284
Women	3,412	3,542	2,092	2,123	330	343	197	202
OCCUPATION								
Managerial and professional specialty	1,095	1,056	579	533	119	113	111	113
Executive, administrative, and managerial	590	538	317	276	79	52	65	65
Professional specialty	505	518	262	257	40	60	45	48
Technical, sales, and administrative support	2,026	2,070	1,145	1,166	217	233	173	167
Technicians and related support	138	168	71	93	15	19	11	13
Sales occupations	681	727	393	416	56	56	63	63
Administrative support, including clerical	1,206	1,175	682	657	146	159	99	91
Service occupations	1,720	1,830	1,082	1,105	146	133	71	68
Private household	133	166	75	84	4	6	2	1
Protective service	110	118	61	63	18	21	12	10
Service, except private household and protective	1,477	1,546	946	958	124	106	57	58
Precision production, craft, and repair	1,151	1,183	720	800	116	108	64	55
Mechanics and repairers	332	313	191	180	45	44	19	16
Construction trades	471	477	312	345	35	26	28	21
Other precision production, craft, and repair	348	394	218	274	37	37	17	19
Operators, fabricators, and laborers	2,126	2,258	1,450	1,540	187	188	71	77
Machine operators, assemblers, and inspectors	1,155	1,201	796	817	98	99	34	39
Transportation and material moving occupations	401	398	253	254	37	44	16	10
Handlers, equipment cleaners, helpers, and laborers	570	659	401	469	51	45	21	28
Construction laborers	108	130	83	104	3	2	5	2
Other handlers, equipment cleaners, helpers, and laborers	462	529	319	364	48	42	16	26
Farming, forestry, and fishing	543	587	481	523	16	16	3	6
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	440	473	406	434	8	10	-	3
Self-employed workers	49	56	38	47	3	2	-	2
Unpaid family workers	8	3	7	3	-	-	-	-
Nonagricultural industries:								
Wage and salary workers	7,675	8,012	4,755	4,952	758	758	452	441
Government	961	947	586	601	134	122	54	37
Private industries	6,714	7,065	4,169	4,351	624	636	398	405
Private households	165	189	97	100	7	7	2	1
Other industries	6,549	6,875	4,072	4,251	617	629	396	404
Self-employed workers	471	427	243	224	31	21	40	39
Unpaid family workers	17	12	8	7	-	1	-	1
FULL- AND PART-TIME STATUS²								
Full-time schedules	7,301	7,526	4,562	4,729	696	684	435	418
Part time for economic reasons	599	668	443	461	30	36	13	15
Part time for noneconomic reasons	760	790	453	475	74	71	45	54

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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
Total, 16 years and over	118,689	119,030	102,585	103,136	12,171	12,017	8,660	8,984
16 to 19 years	7,649	6,901	6,695	6,086	745	639	606	611
16 to 17 years	3,036	2,669	2,628	2,371	331	225	193	208
18 to 19 years	4,613	4,232	4,067	3,714	414	414	413	403
20 to 24 years	13,402	13,006	11,449	11,219	1,496	1,351	1,372	1,402
25 years and over	97,638	99,123	84,442	85,832	9,930	10,027	6,682	6,971
25 to 54 years	82,855	84,203	71,292	72,561	8,677	8,749	5,972	6,275
55 years and over	14,783	14,920	13,150	13,270	1,253	1,278	710	695
Men, 16 years and over	65,496	65,421	57,275	57,295	6,093	6,013	5,248	5,441
16 to 19 years	4,030	3,600	3,529	3,176	400	332	353	368
16 to 17 years	1,618	1,408	1,403	1,254	176	117	104	117
18 to 19 years	2,412	2,191	2,126	1,922	224	215	250	252
20 to 24 years	7,015	6,896	6,036	5,959	741	696	850	877
25 years and over	54,451	54,925	47,710	48,160	4,952	4,985	4,045	4,197
25 to 54 years	45,931	46,350	40,044	40,454	4,304	4,324	3,629	3,785
55 years and over	8,519	8,575	7,666	7,706	648	662	416	411
Women, 16 years and over	53,193	53,609	45,310	45,841	6,078	6,003	3,412	3,542
16 to 19 years	3,619	3,301	3,166	2,910	345	307	253	242
16 to 17 years	1,419	1,261	1,225	1,117	154	108	89	91
18 to 19 years	2,200	2,041	1,941	1,793	191	199	164	151
20 to 24 years	6,387	6,110	5,412	5,260	754	655	522	526
25 years and over	43,187	44,197	36,732	37,671	4,978	5,042	2,637	2,774
25 to 54 years	36,924	37,853	31,247	32,107	4,373	4,425	2,343	2,490
55 years and over	6,264	6,344	5,485	5,564	605	617	293	284

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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
Total, 16 years and over	5.2	5.5	4.4	4.6	11.3	11.7	8.5	8.0
16 to 19 years	13.9	14.9	11.5	12.7	30.8	30.8	19.7	18.1
16 to 17 years	16.0	16.5	13.7	14.1	29.7	35.4	30.0	20.0
18 to 19 years	12.5	13.9	10.0	11.8	31.7	28.0	13.8	17.0
20 to 24 years	8.3	8.6	6.9	6.7	17.7	21.0	11.6	9.1
25 years and over	3.9	4.3	3.4	3.7	8.2	8.6	6.6	6.8
25 to 54 years	4.1	4.5	3.6	3.9	8.6	9.1	6.8	6.9
55 years and over	2.9	3.1	2.6	3.0	6.0	4.8	4.9	5.9
Men, 16 years and over	4.7	5.2	4.0	4.4	10.7	11.8	8.0	7.5
16 to 19 years	13.4	15.2	11.3	13.2	27.8	31.1	19.2	17.8
16 to 17 years	16.3	16.9	13.7	14.4	31.5	38.3	31.9	20.1
18 to 19 years	11.4	14.1	9.7	12.5	24.7	26.4	12.5	16.6
20 to 24 years	8.5	8.1	7.2	6.4	17.6	20.0	11.0	8.2
25 years and over	3.5	4.0	3.0	3.5	7.7	8.8	6.2	6.4
25 to 54 years	3.6	4.2	3.1	3.5	7.9	9.3	6.2	6.4
55 years and over	2.9	3.3	2.5	3.1	6.6	5.0	6.4	6.2
Women, 16 years and over	5.7	5.8	4.8	4.9	11.9	11.5	9.3	8.7
16 to 19 years	14.4	14.6	11.6	12.2	33.9	30.6	20.4	18.6
16 to 17 years	15.6	16.0	13.7	13.9	27.5	32.1	27.6	19.9
18 to 19 years	13.7	13.6	10.2	11.1	38.4	29.7	15.8	17.8
20 to 24 years	8.2	9.1	6.6	7.1	17.7	22.1	12.5	10.6
25 years and over	4.5	4.6	3.9	4.0	8.7	8.4	7.3	7.4
25 to 54 years	4.8	4.9	4.2	4.2	9.2	8.9	7.9	7.6
55 years and over	2.9	2.9	2.7	2.7	5.2	4.6	2.8	5.5

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
DURATION								
Total, 16 years and over	6,466	6,867	4,712	5,007	1,544	1,586	803	783
Less than 5 weeks	3,240	3,249	2,443	2,466	688	654	417	414
5 to 14 weeks	1,984	2,193	1,400	1,543	523	569	236	223
15 weeks and over	1,242	1,425	870	998	333	363	149	145
15 to 26 weeks	660	708	467	512	170	167	85	76
27 weeks and over	582	717	403	487	163	196	64	69
Average (mean) duration, in weeks	11.2	11.9	10.8	11.4	12.7	13.4	10.7	10.3
Median duration, in weeks	4.5	5.1	4.3	4.7	5.7	6.4	4.3	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	50.1	47.3	51.8	49.2	44.6	41.2	52.0	52.9
5 to 14 weeks	30.7	31.9	29.7	30.8	33.9	35.9	29.4	28.5
15 weeks and over	19.2	20.7	18.5	19.9	21.6	22.9	18.6	18.6
15 to 26 weeks	10.2	10.3	9.9	10.2	11.0	10.5	10.6	9.8
27 weeks and over	9.0	10.4	8.6	9.7	10.5	12.4	8.0	8.8

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

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

(Numbers in thousands)

Reasons for unemployment	Total		White		Black		Hispanic origin	
	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,466	6,867	4,712	5,007	1,544	1,586	803	783
Job losers	2,728	3,070	2,037	2,307	615	655	400	418
On layoff	715	838	597	685	98	130	88	90
Other job losers	2,012	2,232	1,440	1,621	516	525	312	328
Job leavers	1,122	1,068	912	842	174	191	118	115
Reentrants	1,903	2,007	1,323	1,401	513	511	174	167
New entrants	714	721	441	458	242	228	110	83
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	42.2	44.7	43.2	46.1	39.8	41.3	49.8	53.4
On layoff	11.1	12.2	12.7	13.7	6.4	8.2	10.9	11.4
Other job losers	31.1	32.5	30.6	32.4	33.5	33.1	38.9	41.9
Job leavers	17.3	15.6	19.4	16.8	11.3	12.1	14.8	14.7
Reentrants	29.4	29.2	28.1	28.0	33.2	32.3	21.7	21.3
New entrants	11.0	10.5	9.4	9.1	15.7	14.4	13.7	10.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.2	2.4	1.9	2.1	4.5	4.8	4.2	4.3
Job leavers .....	.9	.8	.8	.8	1.3	1.4	1.3	1.2
Reentrants	1.5	1.6	1.2	1.3	3.7	3.8	1.8	1.7
New entrants .....	.6	.6	.4	.4	1.8	1.7	1.2	.9

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

**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 1989	III 1990	Total		Employed		Unemployed			
			III 1989	III 1990	III 1989	III 1990	Number		Percent of labor force	
							III 1989	III 1990	III 1989	III 1990
VIETNAM-ERA VETERANS										
Total, 35 years and over	7,471	7,657	6,827	6,963	6,603	6,707	224	256	3.3	3.7
35 to 49 years	6,482	6,513	6,156	6,148	5,950	5,915	206	232	3.3	3.8
35 to 39 years	1,702	1,382	1,593	1,303	1,519	1,235	75	68	4.7	5.3
40 to 44 years	3,291	3,283	3,156	3,110	3,069	2,998	87	112	2.8	3.6
45 to 49 years	1,489	1,848	1,406	1,734	1,362	1,683	44	52	3.1	3.0
50 years and over	990	1,145	671	815	653	791	18	24	2.7	2.9
NONVETERANS										
Total, 35 to 49 years	16,288	17,464	15,251	16,350	14,757	15,776	494	573	3.2	3.5
35 to 39 years	7,472	8,027	7,082	7,618	6,842	7,354	240	265	3.4	3.5
40 to 44 years	4,712	5,231	4,405	4,869	4,256	4,696	149	173	3.4	3.6
45 to 49 years	4,103	4,206	3,764	3,862	3,659	3,727	105	136	2.8	3.5

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data are limited to those 35 to 49 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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
Total, 35 to 49 years												
Civilian noninstitutional population	5,803	5,870	594	542	230	241	13,940	14,890	1,642	1,795	1,495	1,645
Civilian labor force	5,542	5,563	536	495	222	223	13,167	14,080	1,427	1,558	1,385	1,517
Employed	5,370	5,383	505	450	206	211	12,812	13,667	1,304	1,430	1,300	1,419
Unemployed	173	180	31	44	16	12	355	413	124	128	85	98
Unemployment rate	3.1	3.2	5.8	8.9	7.2	5.4	2.7	2.9	8.7	8.2	6.1	6.5
35 to 39 years												
Civilian noninstitutional population	1,502	1,212	168	148	75	78	6,406	6,906	750	788	622	716
Civilian labor force	1,425	1,156	139	127	73	75	6,116	6,621	668	692	581	679
Employed	1,367	1,103	125	113	65	71	5,944	6,430	608	630	537	642
Unemployed	58	53	15	13	7	4	173	191	61	62	44	36
Unemployment rate	4.1	4.6	10.5	10.5	10.2	5.4	2.8	2.9	9.1	8.9	7.6	5.4
40 to 44 years												
Civilian noninstitutional population	2,964	2,976	295	254	92	101	4,056	4,449	460	557	500	514
Civilian labor force	2,842	2,825	285	237	87	88	3,819	4,172	405	489	467	481
Employed	2,767	2,741	274	215	84	85	3,709	4,048	372	453	446	449
Unemployed	76	84	11	22	3	3	110	124	33	37	21	32
Unemployment rate	2.7	3.0	3.8	9.3	3.8	3.7	2.9	3.0	8.1	7.5	4.6	6.6
45 to 49 years												
Civilian noninstitutional population	1,337	1,682	130	140	64	63	3,477	3,535	432	449	374	415
Civilian labor force	1,274	1,582	112	131	62	60	3,232	3,288	354	376	337	357
Employed	1,236	1,540	106	122	57	55	3,160	3,190	324	347	318	327
Unemployed	39	42	6	9	5	5	72	98	30	29	19	30
Unemployment rate	3.0	2.7	4.9	6.7	7.3	7.8	2.2	3.0	8.6	7.8	5.6	8.4

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 35 to 49 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 1989					III 1990				
	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	65,117	4,783	27.1	72.9	66.4	65,536	5,004	27.7	72.3	65.6
With children under 18 years of age	31,660	2,731	31.5	68.5	63.1	32,002	2,895	31.0	69.0	62.9
Married-couple families	51,330	3,237	15.6	84.4	78.4	51,261	3,333	16.6	83.4	77.1
With children under 18 years of age	24,049	1,870	15.7	84.3	79.2	23,927	1,965	15.6	84.4	78.6
Families maintained by women	10,884	1,325	52.8	47.2	39.2	11,244	1,384	52.3	47.7	40.1
With children under 18 years of age	6,416	782	66.4	33.6	27.4	6,759	829	64.3	35.7	28.7
Families maintained by men	2,904	222	41.6	58.4	52.9	3,031	286	37.1	62.9	56.3
With children under 18 years of age	1,196	79	59.5	40.5	36.7	1,316	102	57.8	42.2	39.2
White										
Total families	55,858	3,559	23.8	76.2	69.9	56,035	3,725	24.0	76.0	69.1
With children under 18 years of age	26,298	2,021	27.2	72.8	67.5	26,445	2,103	26.5	73.5	67.3
Married-couple families	46,206	2,666	15.4	84.6	78.6	46,168	2,756	16.4	83.6	77.0
With children under 18 years of age	21,222	1,546	15.9	84.1	79.1	21,108	1,596	15.6	84.4	78.4
Families maintained by women	7,331	733	50.0	50.0	42.2	7,473	753	48.9	51.1	43.0
With children under 18 years of age	4,122	412	64.0	36.0	29.0	4,299	432	61.3	38.7	30.8
Families maintained by men	2,321	161	44.4	55.6	52.5	2,394	216	34.9	65.1	59.1
With children under 18 years of age	954	63	63.5	36.5	33.3	1,038	74	56.8	43.2	40.5
Black										
Total families	7,275	1,070	37.9	62.1	54.6	7,442	1,080	40.6	59.4	53.3
With children under 18 years of age	4,196	614	45.5	54.5	48.8	4,336	666	46.0	54.0	48.9
Married-couple families	3,579	463	15.9	84.1	78.0	3,521	429	17.0	83.0	78.1
With children under 18 years of age	1,887	252	13.1	86.9	80.6	1,862	273	13.2	86.8	82.7
Families maintained by women	3,242	554	56.5	43.5	35.2	3,419	589	57.2	42.8	36.3
With children under 18 years of age	2,111	348	69.0	31.0	25.6	2,251	368	69.2	30.8	25.1
Families maintained by men	454	54	(¹)	(¹)	(¹)	502	62	46.8	53.2	43.5
With children under 18 years of age	199	14	(¹)	(¹)	(¹)	223	25	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,877	619	26.8	73.2	67.0	4,936	605	24.8	75.2	67.4
With children under 18 years of age	3,146	438	32.0	68.0	64.6	3,173	390	27.2	72.8	65.9
Married-couple families	3,444	445	17.1	82.9	77.5	3,327	387	16.8	83.2	75.6
With children under 18 years of age	2,254	317	19.9	80.1	77.6	2,180	276	17.0	83.0	75.7
Families maintained by women	1,063	143	54.5	45.5	37.1	1,184	160	42.5	57.5	50.6
With children under 18 years of age	738	106	64.2	35.8	28.3	827	95	51.6	48.4	41.1
Families maintained by men	371	31	(¹)	(¹)	(¹)	425	58	(¹)	(¹)	(¹)
With children under 18 years of age	154	16	(¹)	(¹)	(¹)	166	20	(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 1989				III 1990			
	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	5,314	28.6	71.4	65.0	5,520	28.9	71.1	64.6
Husbands	1,058	34.8	65.2	55.0	1,157	34.1	65.9	53.9
With children under 18 years of age	634	41.2	58.8	48.7	701	38.2	61.8	50.0
Wives	1,146	11.5	88.5	84.1	1,171	12.2	87.8	84.1
With children under 18 years of age	713	10.5	89.5	86.3	760	9.6	90.4	87.7
Relatives in married-couple families	1,350	9.0	91.0	87.3	1,318	9.8	90.2	86.8
Women who maintain families	576	83.4	16.6	12.4	622	83.8	16.2	10.7
With children under 18 years of age	488	92.3	7.7	4.6	524	91.2	8.8	4.9
Relatives in families maintained by women	938	33.3	66.7	56.8	940	30.8	69.2	60.9
Men who maintain families	98	63.9	36.1	31.7	113	62.3	37.7	33.8
With children under 18 years of age	45	(²)	(²)	(²)	62	88.5	11.5	9.0
Relatives in families maintained by men	149	28.8	71.2	64.2	200	23.4	76.6	68.6
White								
Total unemployed in families ¹	3,850	25.4	74.6	68.4	4,015	25.4	74.6	67.8
Husbands	868	36.0	64.0	53.6	949	33.7	66.3	53.2
With children under 18 years of age	520	42.7	57.3	47.1	559	38.8	61.2	48.5
Wives	969	10.8	89.2	84.9	995	11.0	89.0	85.5
With children under 18 years of age	595	9.9	90.1	87.7	633	8.7	91.3	88.9
Relatives in married-couple families	1,059	8.1	91.9	88.2	1,030	10.0	90.0	86.6
Women who maintain families	312	78.5	21.5	16.3	332	79.7	20.3	13.7
With children under 18 years of age	254	91.4	8.6	4.5	272	89.6	10.4	5.8
Relatives in families maintained by women	467	32.3	67.7	59.0	471	29.2	70.8	61.9
Men who maintain families	80	63.6	36.4	33.1	84	61.6	38.4	34.8
With children under 18 years of age	38	(²)	(²)	(²)	44	(²)	(²)	(²)
Relatives in families maintained by men	96	31.9	68.1	63.9	153	21.4	78.6	71.5
Black								
Total unemployed in families ¹	1,294	38.1	61.9	54.6	1,279	39.4	60.6	55.0
Husbands	152	26.6	73.4	64.5	154	34.2	65.8	59.6
With children under 18 years of age	86	32.5	67.5	58.9	107	32.5	67.5	61.1
Wives	142	14.2	85.8	80.1	117	16.1	83.9	80.2
With children under 18 years of age	97	12.7	87.3	79.0	86	11.5	88.5	86.7
Relatives in married-couple families	248	13.9	86.1	82.7	228	7.8	92.2	89.0
Women who maintain families	247	90.5	9.5	6.1	271	89.3	10.7	6.4
With children under 18 years of age	222	93.4	6.6	4.3	238	93.4	6.6	3.3
Relatives in families maintained by women	444	34.5	65.5	54.6	443	32.0	68.0	60.6
Men who maintain families	14	(²)	(²)	(²)	25	(²)	(²)	(²)
With children under 18 years of age	6	(²)	(²)	(²)	16	(²)	(²)	(²)
Relatives in families maintained by men	46	(²)	(²)	(²)	41	(²)	(²)	(²)
Hispanic origin								
Total unemployed in families ¹	693	28.5	71.5	65.3	664	26.7	73.3	65.4
Husbands	165	40.5	59.5	51.7	154	33.8	66.2	54.6
With children under 18 years of age	118	49.1	50.9	45.6	114	39.1	60.9	50.3
Wives	136	15.5	84.5	81.1	122	10.7	89.3	83.1
With children under 18 years of age	103	17.1	82.9	82.1	92	9.4	90.6	85.1
Relatives in married-couple families	203	6.9	93.1	87.6	148	8.4	91.6	86.3
Women who maintain families	61	83.5	16.5	15.9	66	75.9	24.1	19.9
With children under 18 years of age	56	(²)	(²)	(²)	54	(²)	(²)	(²)
Relatives in families maintained by women	91	35.3	64.7	53.3	106	28.3	71.7	63.3
Men who maintain families	13	(²)	(²)	(²)	25	(²)	(²)	(²)
With children under 18 years of age	9	(²)	(²)	(²)	12	(²)	(²)	(²)
Relatives in families maintained by men	24	(²)	(²)	(²)	44	(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 1989				III 1990			
	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	95,513	21.8	78.2	68.8	95,193	22.1	77.9	68.4
Husbands	39,208	28.8	71.2	55.3	38,929	28.4	71.6	55.5
With children under 18 years of age	22,433	31.3	68.7	50.0	22,193	31.1	68.9	49.8
Wives	28,214	7.9	92.1	88.6	28,623	8.6	91.4	87.9
With children under 18 years of age	15,020	4.0	96.0	93.6	15,133	4.9	95.1	92.6
Relatives in married-couple families	12,838	6.8	93.2	90.5	12,436	6.8	93.2	89.8
Women who maintain families	6,331	61.4	38.6	27.7	6,335	63.0	37.0	26.6
With children under 18 years of age	4,053	78.9	21.1	11.9	4,116	80.6	19.4	10.5
Relatives in families maintained by women	4,974	23.3	76.7	68.5	4,920	23.8	76.2	67.8
Men who maintain families	2,164	51.1	48.9	40.2	2,313	57.1	42.9	36.0
With children under 18 years of age	1,021	79.8	20.2	12.7	1,167	84.9	15.1	10.2
Relatives in families maintained by men	1,784	15.3	84.7	79.5	1,637	15.4	84.6	79.6
White								
Total employed in families ¹	82,925	21.1	78.9	69.3	82,863	21.4	78.6	68.8
Husbands	35,341	29.2	70.8	54.3	35,152	28.7	71.3	54.5
With children under 18 years of age	19,946	31.9	68.1	48.3	19,762	31.6	68.4	48.2
Wives	25,070	7.6	92.4	88.9	25,599	8.2	91.8	88.2
With children under 18 years of age	13,141	3.7	96.3	94.0	13,298	4.4	95.6	93.2
Relatives in married-couple families	11,299	6.6	93.4	90.9	10,922	6.7	93.3	90.0
Women who maintain families	4,438	59.4	40.6	29.5	4,466	61.3	38.7	27.7
With children under 18 years of age	2,779	78.7	21.3	12.0	2,866	80.3	19.7	10.5
Relatives in families maintained by women	3,533	23.3	76.7	69.0	3,513	23.5	76.5	68.2
Men who maintain families	1,778	49.3	50.7	41.4	1,869	55.2	44.8	37.4
With children under 18 years of age	827	78.2	21.8	13.6	933	83.5	16.5	11.0
Relatives in families maintained by men	1,467	13.6	86.4	81.8	1,342	13.8	86.2	81.7
Black								
Total employed in families ¹	9,350	28.9	71.1	63.6	9,140	29.4	70.6	63.4
Husbands	2,653	24.7	75.3	66.2	2,570	23.0	77.0	67.7
With children under 18 years of age	1,677	24.2	75.8	66.6	1,619	24.0	76.0	66.6
Wives	2,141	11.9	88.1	84.6	2,105	12.2	87.8	84.0
With children under 18 years of age	1,274	6.7	93.3	90.9	1,278	8.9	91.1	88.2
Relatives in married-couple families	1,025	10.4	89.6	85.2	1,007	8.1	91.9	87.5
Women who maintain families	1,725	66.3	33.7	23.1	1,690	68.5	31.5	22.4
With children under 18 years of age	1,174	79.1	20.9	11.7	1,144	81.5	18.5	10.3
Relatives in families maintained by women	1,302	22.9	77.1	67.6	1,215	26.0	74.0	65.0
Men who maintain families	294	64.6	35.4	29.0	344	67.0	33.0	27.9
With children under 18 years of age	162	87.5	12.5	7.2	188	91.5	8.5	6.2
Relatives in families maintained by men	212	27.5	72.5	65.4	207	25.4	74.6	66.2
Hispanic origin								
Total employed in families ¹	7,153	24.8	75.2	68.2	7,291	24.2	75.8	68.4
Husbands	2,821	35.3	64.7	53.4	2,687	33.7	66.3	54.4
With children under 18 years of age	2,022	38.0	62.0	50.4	1,958	36.6	63.4	50.7
Wives	1,888	8.8	91.2	87.7	1,662	10.4	89.6	86.1
With children under 18 years of age	1,123	6.1	93.9	90.4	1,119	7.6	92.4	88.9
Relatives in married-couple families	1,132	6.4	93.6	89.9	1,166	5.4	94.6	91.2
Women who maintain families	506	61.6	38.4	30.7	602	62.5	37.5	28.5
With children under 18 years of age	347	71.4	28.6	21.2	428	75.9	24.1	15.2
Relatives in families maintained by women	414	22.1	77.9	71.4	476	18.7	81.3	73.5
Men who maintain families	285	43.3	56.7	53.4	341	40.5	59.5	55.9
With children under 18 years of age	123	79.9	20.1	16.3	135	76.7	23.3	22.0
Relatives in families maintained by men	307	9.8	90.2	88.5	357	6.1	93.9	89.9

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. Estimates for husbands, wives, and women who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns

used in aggregating the data.

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family, number of earners, race, and Hispanic origin	Number of families		Median weekly earnings	
	III 1989	III 1990	III 1989	III 1990
TOTAL				
Total families with earners ¹	43,748	43,950	\$633	\$659
Married-couple families	34,394	34,176	710	742
One earner	12,208	12,083	439	455
Husband	9,376	9,049	503	517
Wife	2,066	2,231	246	264
Other family member	766	804	264	283
Two or more earners	22,186	22,093	855	894
Husband and wife	19,377	19,535	868	909
Husband and other family member(s)	2,113	1,870	826	847
Wife and other family member(s)	497	517	533	560
Other family members only	200	171	556	548
Families maintained by women	7,209	7,476	360	371
One earner	4,720	5,053	274	293
Householder	3,720	3,996	279	297
Other family member	1,000	1,057	247	278
Two or more earners	2,489	2,423	583	601
Families maintained by men	2,145	2,298	521	511
One earner	1,214	1,424	397	405
Two or more earners	931	874	706	763
White				
Total families with earners ¹	37,159	37,266	660	690
Married-couple families	30,397	30,252	722	758
One earner	10,887	10,727	457	475
Husband	8,481	8,161	511	530
Wife	1,763	1,903	242	268
Two or more earners	19,511	19,524	866	906
Husband and wife	17,046	17,315	878	921
Families maintained by women	5,043	5,215	374	386
Families maintained by men	1,719	1,800	558	535
Black				
Total families with earners ¹	5,149	5,195	462	454
Married-couple families	2,838	2,771	591	586
One earner	933	944	301	296
Husband	595	586	376	325
Wife	232	260	252	234
Two or more earners	1,904	1,827	732	712
Husband and wife	1,665	1,596	755	724
Families maintained by women	1,986	2,029	317	324
Families maintained by men	325	395	414	389
Hispanic origin				
Total families with earners ¹	3,625	3,732	510	509
Married-couple families	2,787	2,622	541	584
One earner	1,089	1,000	307	315
Husband	871	768	341	348
Wife	123	172	202	231
Two or more earners	1,698	1,622	695	732
Husband and wife	1,284	1,244	705	742
Families maintained by women	539	725	342	332
Families maintained by men	299	385	514	486

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families		Median weekly earnings	
	III 1989	III 1990	III 1989	III 1990
Married-couple families ¹	2,657	2,564	\$482	\$508
Husband unemployed	661	709	286	290
Wife only earner	475	561	258	270
Wife and other earner(s)	104	97	510	(²)
Other earner(s) only	83	52	(²)	(²)
Wife unemployed	989	971	460	511
Husband only earner	831	816	434	467
Husband and other earner(s)	140	142	739	848
Other earner(s) only	18	14	(²)	(²)
Other member(s) unemployed	1,007	884	723	770
Husband or wife earner	366	343	491	558
Both husband and wife earners	604	514	898	989
Other combinations of earners	36	27	(²)	(²)
Families maintained by women ¹	577	626	329	330
Householder unemployed	83	96	(²)	(²)
Other member(s) unemployed	494	530	323	348
Families maintained by men ¹	121	169	391	492

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

in the Armed Forces.

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	III 1989	III 1990	III 1989	III 1990
SEX AND AGE				
Total, 16 years and over	86,631	87,142	\$395	\$408
Men, 16 years and over	50,263	50,200	458	480
16 to 24 years	7,600	7,228	266	279
25 years and over	42,663	42,972	497	512
Women, 16 years and over	36,368	36,942	329	342
16 to 24 years	5,884	5,639	244	248
25 years and over	30,484	31,302	353	369
FAMILY RELATIONSHIP				
Husbands	31,277	31,166	511	533
Wives	18,403	18,651	346	366
Women who maintain families	4,981	5,174	324	336
Men who maintain families	1,706	1,890	425	457
Other persons in families:				
Men	7,764	7,357	276	288
Women	4,996	5,124	253	263
All other men ¹	9,516	9,786	427	430
All other women ¹	7,988	7,993	361	365
RACE, HISPANIC ORIGIN, AND SEX				
White	73,953	74,418	405	419
Men	43,586	43,613	476	492
Women	30,366	30,804	333	350
Black	9,740	9,788	320	320
Men	5,024	4,969	337	348
Women	4,717	4,820	309	302
Hispanic origin	6,885	7,344	298	298
Men	4,335	4,549	315	317
Women	2,550	2,795	269	271

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.

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	III 1989	III 1990	III 1989	III 1990
SEX AND AGE				
Total, 16 years and over	17,932	17,606	\$115	\$124
Men, 16 years and over	5,455	5,343	109	116
16 to 24 years	2,996	2,854	96	104
25 years and over	2,459	2,490	138	142
Women, 16 years and over	12,478	12,263	118	129
16 to 24 years	3,937	3,594	96	101
25 years and over	8,540	8,668	136	148
FAMILY RELATIONSHIP				
Husbands	1,412	1,479	145	144
Wives	6,488	6,535	140	149
Women who maintain families	978	947	121	136
Men who maintain families	126	125	121	135
Other persons in families:				
Men	2,996	2,767	95	103
Women	3,362	3,091	94	99
All other men ¹	919	973	131	139
All other women ¹	1,649	1,689	119	138
RACE, HISPANIC ORIGIN, AND SEX				
White	15,443	15,453	117	126
Men	4,512	4,467	110	115
Women	10,932	10,986	120	132
Black	1,918	1,641	103	111
Men	711	643	103	120
Women	1,206	998	102	107
Hispanic origin	1,107	1,185	113	126
Men	435	473	116	125
Women	673	712	110	127

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Occupation and sex	Number of workers (in thousands)		Median weekly earnings	
	III 1989	III 1990	III 1989	III 1990
TOTAL				
Managerial and professional specialty	22,707	22,678	\$582	\$608
Executive, administrative, and managerial	11,591	11,052	571	604
Professional specialty	11,115	11,627	590	610
Technical, sales, and administrative support	25,549	25,876	358	377
Technicians and related support	3,120	3,133	460	488
Sales occupations	8,191	8,317	375	399
Administrative support, including clerical	14,239	14,426	333	351
Service occupations	9,487	9,630	246	262
Private household	367	353	150	163
Protective service	1,757	1,837	432	475
Service, except private household and protective	7,363	7,440	229	243
Precision production, craft, and repair	11,532	11,502	452	477
Mechanics and repairers	3,955	3,935	452	472
Construction trades	3,931	3,935	453	481
Other precision production, craft, and repair	3,646	3,632	451	478
Operators, fabricators, and laborers	15,686	15,634	321	329
Machine operators, assemblers, and inspectors	7,734	7,740	310	318
Transportation and material moving occupations	4,158	4,001	401	407
Handlers, equipment cleaners, helpers, and laborers	3,794	3,892	287	290
Farming, forestry, and fishing	1,670	1,822	249	255
Men				
Managerial and professional specialty	12,170	12,103	695	723
Executive, administrative, and managerial	6,572	6,336	697	735
Professional specialty	5,599	5,768	693	713
Technical, sales, and administrative support	9,414	9,469	466	496
Technicians and related support	1,669	1,633	526	576
Sales occupations	4,584	4,720	483	506
Administrative support, including clerical	3,160	3,117	406	439
Service occupations	4,724	4,724	293	314
Private household	11	11	(¹)	(¹)
Protective service	1,501	1,580	457	482
Service, except private household and protective	3,212	3,133	253	268
Precision production, craft, and repair	10,642	10,610	464	488
Mechanics and repairers	3,855	3,797	450	471
Construction trades	3,857	3,898	455	482
Other precision production, craft, and repair	2,930	2,915	486	511
Operators, fabricators, and laborers	11,806	11,720	359	369
Machine operators, assemblers, and inspectors	4,687	4,670	367	385
Transportation and material moving occupations	3,915	3,775	408	413
Handlers, equipment cleaners, helpers, and laborers	3,204	3,276	295	298
Farming, forestry, and fishing	1,508	1,575	250	259
Women				
Managerial and professional specialty	10,536	10,575	485	509
Executive, administrative, and managerial	5,020	4,716	449	484
Professional specialty	5,516	5,859	507	533
Technical, sales, and administrative support	16,136	16,407	319	334
Technicians and related support	1,450	1,501	401	410
Sales occupations	3,607	3,598	274	297
Administrative support, including clerical	11,078	11,309	320	335
Service occupations	4,763	4,906	216	225
Private household	356	342	151	165
Protective service	256	258	322	428
Service, except private household and protective	4,151	4,307	217	224
Precision production, craft, and repair	890	892	325	323
Mechanics and repairers	100	138	532	487
Construction trades	74	37	(¹)	(¹)
Other precision production, craft, and repair	716	717	306	308
Operators, fabricators, and laborers	3,881	3,914	258	260
Machine operators, assemblers, and inspectors	3,047	3,070	257	258
Transportation and material moving occupations	243	227	309	316
Handlers, equipment cleaners, helpers, and laborers	590	617	247	254
Farming, forestry, and fishing	162	248	245	228

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 1989	III 1990	Total		Central cities		Suburbs	
			III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
TOTAL								
Civilian noninstitutional population	186,602	188,266	144,848	146,187	57,003	57,486	87,844	88,701
Civilian labor force	125,156	125,897	98,373	99,290	37,115	37,440	61,258	61,849
Percent of population	67.1	66.9	67.9	67.9	65.1	65.1	69.7	69.7
Employed	118,689	119,030	93,366	93,872	34,635	34,895	58,731	58,978
Unemployed	6,466	6,867	5,007	5,417	2,480	2,546	2,527	2,872
Unemployment rate	5.2	5.5	5.1	5.5	6.7	6.8	4.1	4.6
Not in labor force	61,447	62,370	46,475	46,897	19,888	20,045	26,586	26,852
Men, 20 years and over								
Civilian noninstitutional population	81,741	82,864	63,516	64,405	24,494	24,875	39,023	39,530
Civilian labor force	64,079	64,737	50,403	51,063	18,753	19,030	31,650	32,034
Percent of population	78.4	78.1	79.4	79.3	76.6	76.5	81.1	81.0
Employed	81,466	81,821	48,350	48,732	17,670	17,859	30,680	30,873
Unemployed	2,612	2,916	2,053	2,332	1,083	1,171	970	1,161
Unemployment rate	4.1	4.5	4.1	4.6	5.8	6.2	3.1	3.6
Not in labor force	17,662	18,127	13,113	13,342	5,741	5,845	7,372	7,497
Women, 20 years and over								
Civilian noninstitutional population	90,685	91,678	70,502	71,332	28,449	28,680	42,053	42,651
Civilian labor force	52,193	53,050	41,234	42,118	16,071	16,358	25,163	25,760
Percent of population	57.6	57.9	58.5	59.0	56.5	57.0	59.8	60.4
Employed	49,574	50,308	39,224	39,962	15,117	15,368	24,106	24,593
Unemployed	2,619	2,742	2,010	2,156	954	990	1,056	1,166
Unemployment rate	5.0	5.2	4.9	5.1	5.9	6.1	4.2	4.5
Not in labor force	38,492	38,628	29,268	29,214	12,378	12,322	16,891	16,892
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,177	13,724	10,829	10,450	4,061	3,930	6,769	6,519
Civilian labor force	8,884	8,110	6,736	6,108	2,291	2,052	4,445	4,056
Percent of population	62.7	59.1	62.2	58.5	56.4	52.2	65.7	62.2
Employed	7,649	6,901	5,792	5,179	1,847	1,667	3,945	3,512
Unemployed	1,235	1,209	944	929	444	385	500	544
Unemployment rate	13.9	14.9	14.0	15.2	19.4	18.7	11.3	13.4
Not in labor force	5,293	5,614	4,093	4,342	1,769	1,878	2,323	2,463
White								
Civilian noninstitutional population	159,473	160,553	122,027	122,934	42,342	42,651	79,686	80,282
Civilian labor force	107,298	108,143	83,163	84,238	27,844	28,332	55,319	55,908
Percent of population	67.3	67.4	68.2	68.5	65.8	66.4	69.4	69.6
Employed	102,585	103,136	79,610	80,352	26,382	26,847	53,228	53,505
Unemployed	4,712	5,007	3,553	3,886	1,462	1,485	2,091	2,401
Unemployment rate	4.4	4.6	4.3	4.6	5.3	5.2	3.8	4.3
Not in labor force	52,175	52,410	38,864	38,696	14,497	14,319	24,367	24,377
Black								
Civilian noninstitutional population	21,061	21,339	17,537	17,702	11,959	11,986	5,578	5,716
Civilian labor force	13,714	13,603	11,552	11,408	7,479	7,335	4,074	4,073
Percent of population	65.1	63.7	65.9	64.4	62.5	61.2	73.0	71.3
Employed	12,171	12,017	10,265	10,094	6,535	6,400	3,730	3,694
Unemployed	1,544	1,586	1,287	1,314	944	935	343	379
Unemployment rate	11.3	11.7	11.1	11.5	12.6	12.7	8.4	9.3
Not in labor force	7,347	7,736	5,985	6,294	4,480	4,651	1,505	1,643
Hispanic origin								
Civilian noninstitutional population	13,853	14,356	12,833	13,414	7,342	7,665	5,491	5,750
Civilian labor force	9,483	9,767	8,735	9,113	4,730	4,966	4,006	4,146
Percent of population	68.3	68.0	68.1	67.9	64.4	64.8	73.0	72.1
Employed	8,660	8,984	8,011	8,400	4,275	4,566	3,735	3,834
Unemployed	803	783	725	712	455	401	270	312
Unemployment rate	8.5	8.0	8.3	7.8	9.6	8.1	6.7	7.5
Not in labor force	4,390	4,590	4,098	4,302	2,613	2,698	1,485	1,604

**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 1989	III 1990	III 1989	III 1990
	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990				
TOTAL										
Civilian noninstitutional population	41,755	42,079	2,776	2,549	38,979	39,530	136,086	137,143	50,517	51,124
Civilian labor force	26,783	26,607	1,984	1,821	24,799	24,786	91,840	91,772	33,516	34,124
Percent of population	64.1	63.2	71.5	71.4	63.6	62.7	67.3	66.9	66.3	66.7
Employed	25,323	25,158	1,941	1,791	23,382	23,366	86,726	86,500	31,963	32,530
Unemployed	1,459	1,450	42	30	1,417	1,420	4,913	5,273	1,553	1,594
Unemployment rate	5.4	5.4	2.1	1.7	5.7	5.7	5.4	5.7	4.6	4.7
Not in labor force	14,972	15,472	792	728	14,160	14,744	44,446	45,370	17,001	16,999
Men, 20 years and over										
Civilian noninstitutional population	18,224	18,459	1,354	1,231	16,870	17,228	58,889	59,771	22,852	23,093
Civilian labor force	13,676	13,674	1,132	1,034	12,543	12,640	46,364	46,793	17,715	17,944
Percent of population	75.0	74.1	83.6	84.0	74.4	73.4	78.7	78.3	77.5	77.7
Employed	13,116	13,090	1,121	1,026	11,995	12,064	44,362	44,493	17,104	17,328
Unemployed	560	564	12	8	548	576	2,002	2,300	610	616
Unemployment rate	4.1	4.3	1.0	.8	4.4	4.6	4.3	4.9	3.4	3.4
Not in labor force	4,549	4,785	222	197	4,327	4,588	12,525	12,978	5,137	5,149
Women, 20 years and over										
Civilian noninstitutional population	20,183	20,346	1,211	1,118	18,972	19,228	67,125	67,755	23,560	23,924
Civilian labor force	10,960	10,931	706	639	10,253	10,293	39,024	39,416	13,170	13,634
Percent of population	54.3	53.7	58.3	57.1	54.0	53.5	58.1	58.2	55.9	57.0
Employed	10,350	10,346	686	625	9,665	9,721	37,047	37,322	12,527	12,986
Unemployed	609	585	21	14	589	571	1,977	2,094	643	648
Unemployment rate	5.6	5.4	2.9	2.2	5.7	5.6	5.1	5.3	4.9	4.8
Not in labor force	9,223	9,415	505	479	8,718	8,936	28,102	28,339	10,390	10,290
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,347	3,274	210	201	3,137	3,074	10,071	9,617	4,105	4,107
Civilian labor force	2,147	2,002	145	148	2,002	1,854	6,252	5,564	2,631	2,546
Percent of population	84.1	81.1	69.1	74.0	63.8	60.3	62.1	57.9	64.1	62.0
Employed	1,857	1,722	135	140	1,722	1,581	5,317	4,685	2,332	2,216
Unemployed	290	280	10	8	280	272	935	879	300	330
Unemployment rate	13.5	14.0	7.0	5.5	14.0	14.7	15.0	15.8	11.4	13.0
Not in labor force	1,200	1,272	65	52	1,135	1,220	3,819	4,053	1,474	1,560
White										
Civilian noninstitutional population	37,446	37,619	2,683	2,479	34,763	35,140	112,575	113,155	46,896	47,398
Civilian labor force	24,134	23,905	1,930	1,778	22,204	22,128	76,076	76,391	31,222	31,753
Percent of population	64.5	63.5	71.9	71.7	63.9	63.0	67.6	67.5	66.6	67.0
Employed	22,975	22,784	1,894	1,750	21,081	21,034	72,701	72,748	29,884	30,388
Unemployed	1,159	1,121	36	28	1,123	1,093	3,375	3,643	1,338	1,364
Unemployment rate	4.8	4.7	1.9	1.6	5.1	4.9	4.4	4.8	4.3	4.3
Not in labor force	13,311	13,714	753	702	12,558	13,012	36,499	36,765	15,676	15,645
Black										
Civilian noninstitutional population	3,524	3,637	70	45	3,454	3,592	18,193	18,396	2,868	2,943
Civilian labor force	2,162	2,195	39	25	2,123	2,170	11,906	11,735	1,808	1,868
Percent of population	61.4	60.4	55.3	(¹)	61.5	60.4	65.4	63.8	63.0	63.5
Employed	1,906	1,923	33	23	1,873	1,900	10,542	10,336	1,628	1,681
Unemployed	257	272	8	2	250	270	1,364	1,399	179	187
Unemployment rate	11.9	12.4	(¹)	(¹)	11.8	12.4	11.5	11.9	9.9	10.0
Not in labor force	1,362	1,442	31	20	1,331	1,422	6,287	6,661	1,060	1,075
Hispanic origin										
Civilian noninstitutional population	1,020	942	43	50	977	891	12,633	13,123	1,219	1,233
Civilian labor force	728	654	31	41	697	613	8,612	8,917	851	850
Percent of population	71.4	69.5	(¹)	(¹)	71.3	68.7	68.2	68.0	69.8	68.9
Employed	650	584	30	40	619	544	7,892	8,198	768	786
Unemployed	78	70	1	2	77	69	720	719	83	63
Unemployment rate	10.8	10.7	(¹)	(¹)	11.1	11.2	8.4	8.1	9.7	7.5
Not in labor force	292	288	12	9	280	279	4,022	4,206	368	384

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 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990	III 1989	III 1990
TOTAL												
Civilian noninstitutional population	27,554	27,325	159,049	160,942	18,058	17,599	126,789	128,588	9,495	9,726	32,259	32,354
Civilian labor force	16,081	15,687	109,075	110,210	10,408	10,006	87,965	89,284	5,672	5,681	21,110	20,926
Percent of population	58.4	57.4	68.6	68.5	57.6	56.9	69.4	69.4	59.7	58.4	65.4	64.7
Employed	14,447	14,109	104,243	104,921	9,232	8,850	84,134	85,022	5,215	5,259	20,109	19,899
Unemployed	1,634	1,578	4,832	5,289	1,176	1,156	3,831	4,261	458	422	1,002	1,027
Unemployment rate	10.2	10.1	4.4	4.8	11.3	11.5	4.4	4.8	8.1	7.4	4.7	4.9
Men, 20 years and over	8.2	8.5	3.5	3.9	9.7	10.4	3.4	3.9	5.7	5.3	3.7	4.0
Women, 20 years and over	9.6	9.5	4.3	4.6	10.1	10.2	4.2	4.5	8.7	8.1	4.7	4.6
Both sexes, 16 to 19 years	26.1	25.1	12.0	13.3	29.9	28.6	12.0	13.5	20.2	19.2	11.7	12.7
Men	25.5	24.5	11.5	13.7	30.1	30.2	11.8	14.1	18.5	16.1	10.3	12.4
Women	26.9	25.8	12.5	12.9	29.6	27.0	12.3	12.9	22.2	23.5	13.3	13.0
Not in labor force	11,473	11,638	49,974	50,732	7,650	7,593	38,825	39,304	3,823	4,045	11,149	11,427
White												
Civilian noninstitutional population	16,704	16,304	142,769	144,249	9,715	9,205	112,312	113,728	6,988	7,098	30,457	30,521
Civilian labor force	9,986	9,600	97,312	98,543	5,743	5,393	77,420	78,845	4,243	4,207	19,892	19,698
Percent of population	59.8	58.9	68.2	68.3	59.1	58.6	68.9	69.3	60.7	59.3	65.3	64.5
Employed	9,220	8,934	93,366	94,202	5,236	4,944	74,374	75,408	3,984	3,990	18,992	18,794
Unemployed	766	666	3,946	4,341	508	449	3,046	3,436	259	217	900	904
Unemployment rate	7.7	6.9	4.1	4.4	8.8	8.3	3.9	4.4	6.1	5.2	4.5	4.6
Men, 20 years and over	6.3	5.8	3.2	3.6	7.3	7.4	3.1	3.5	5.0	3.7	3.5	3.8
Women, 20 years and over	7.4	6.5	4.0	4.2	8.4	7.3	3.9	4.2	6.1	5.4	4.5	4.2
Both sexes, 16 to 19 years	18.9	18.6	10.6	12.1	23.1	22.0	10.5	12.3	13.7	14.5	11.2	11.7
Men	19.8	17.5	10.4	12.7	26.5	22.7	10.5	13.2	11.8	11.8	10.0	11.1
Women	17.9	20.1	11.0	11.5	18.9	21.3	10.4	11.2	16.4	18.6	12.7	12.2
Not in labor force	6,718	6,703	45,457	45,706	3,972	3,812	34,892	34,883	2,746	2,891	10,566	10,823
Black												
Civilian noninstitutional population	9,707	9,821	11,354	11,518	7,513	7,503	10,023	10,199	2,194	2,318	1,330	1,319
Civilian labor force	5,461	5,438	8,253	8,165	4,207	4,130	7,346	7,277	1,255	1,308	907	888
Percent of population	56.3	55.4	72.7	70.9	56.0	55.0	73.3	71.4	57.2	56.4	68.2	67.3
Employed	4,642	4,595	7,529	7,422	3,567	3,472	6,698	6,622	1,075	1,123	831	800
Unemployed	819	843	724	743	640	659	647	655	180	185	77	88
Unemployment rate	15.0	15.5	8.8	9.1	15.2	15.9	8.8	9.0	14.3	14.1	8.5	9.9
Men, 20 years and over	12.7	14.1	6.8	7.9	14.1	15.3	6.8	8.0	8.0	10.4	7.3	7.1
Women, 20 years and over	13.3	13.8	7.8	7.8	12.5	13.5	7.9	7.7	16.0	14.8	7.6	9.1
Both sexes, 16 to 19 years	38.8	35.2	25.5	27.5	40.0	36.6	26.4	26.5	36.0	31.2	19.5	(¹)
Men	37.3	39.0	22.0	25.5	36.6	42.8	23.4	23.7	38.9	29.7	12.8	(¹)
Women	40.4	31.4	29.5	29.8	43.2	31.0	29.6	29.8	32.9	33.0	(¹)	(¹)
Not in labor force	4,246	4,383	3,101	3,353	3,307	3,373	2,678	2,922	939	1,010	423	432
Hispanic origin												
Civilian noninstitutional population	4,522	4,418	9,331	9,938	4,181	4,069	8,652	9,345	341	349	679	592
Civilian labor force	2,698	2,542	6,765	7,225	2,469	2,315	6,266	6,797	229	227	499	428
Percent of population	59.7	57.5	72.5	72.7	59.1	56.9	72.4	72.7	67.1	64.9	73.5	72.2
Employed	2,379	2,272	6,281	6,712	2,180	2,077	5,830	6,323	199	195	451	388
Unemployed	318	270	485	513	289	238	436	474	30	31	48	39
Unemployment rate	11.8	10.6	7.2	7.1	11.7	10.3	7.0	7.0	13.1	13.8	9.7	9.1
Men, 20 years and over	9.5	8.8	6.0	6.0	9.5	8.7	5.9	6.0	9.3	9.4	7.7	5.5
Women, 20 years and over	11.9	10.6	6.8	7.0	11.5	9.9	6.8	6.7	16.1	17.5	7.8	12.3
Both sexes, 16 to 19 years	27.3	22.9	16.6	16.2	28.0	23.2	15.4	15.7	22.1	(¹)	28.4	(¹)
Men	29.6	23.2	15.2	15.7	31.3	24.9	15.5	15.1	18.6	(¹)	(¹)	(¹)
Women	24.6	22.4	18.5	16.9	24.3	20.9	15.3	16.6	27.5	(¹)	(¹)	(¹)
Not in labor force	1,824	1,876	2,566	2,713	1,712	1,754	2,386	2,548	112	123	180	165

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 nonfarm payrolls by major industry, 1938 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															
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	1,767	4,659	1,447	3,502	905	(¹)	(¹)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,841	4,909	1,485	3,665	996	(¹)	(¹)
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,966	5,244	1,525	3,905	1,340	(¹)	(¹)
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,912	5,206	1,509	4,066	2,213	(¹)	(¹)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,828	5,154	1,481	4,130	2,905	(¹)	(¹)
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,851	5,208	1,461	4,145	2,928	(¹)	(¹)
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,955	5,359	1,481	4,222	2,808	(¹)	(¹)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,298	6,077	1,675	4,697	2,254	(¹)	(¹)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,478	6,477	1,728	5,025	1,892	(¹)	(¹)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,612	6,659	1,800	5,181	1,863	(¹)	(¹)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,610	6,654	1,828	5,239	1,908	(¹)	(¹)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,643	6,743	1,888	5,356	1,928	(¹)	(¹)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,735	7,007	1,956	5,547	2,302	(¹)	(¹)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,821	7,184	2,035	5,699	2,420	(¹)	(¹)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,862	7,385	2,111	5,835	2,305	(¹)	(¹)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,875	7,360	2,200	5,969	2,188	(¹)	(¹)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,934	7,601	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,027	7,831	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	3,037	7,848	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	2,989	7,761	2,481	6,765	2,191	1,415	4,232
1959 ²	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,092	8,035	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	3,153	8,238	2,628	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,142	8,195	2,688	7,619	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,207	8,359	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	3,258	8,520	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	3,347	8,812	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,477	9,239	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	3,608	9,637	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	3,700	9,906	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	3,791	10,308	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	3,919	10,785	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	4,006	11,034	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,014	11,338	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	4,127	11,822	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,291	12,315	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,447	12,539	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	4,430	12,630	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,562	13,193	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	4,723	13,792	4,467	15,302	2,727	3,377	9,023
1978	86,897	71,026	25,585	851	4,229	20,505	61,113	4,923	4,985	14,556	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	5,221	14,972	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	5,292	15,018	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	5,376	15,172	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	5,296	15,161	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,286	15,595	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,574	16,526	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,736	17,336	5,955	21,999	2,875	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,774	17,909	6,283	23,053	2,899	3,893	9,901
1987	102,200	85,190	24,708	717	4,967	19,024	77,492	5,372	5,865	18,462	6,547	24,235	2,943	3,967	10,100
1988	105,536	88,150	25,173	713	5,110	19,350	80,363	5,527	6,055	19,077	6,649	25,669	2,971	4,076	10,339
1989	108,413	90,644	25,326	700	5,200	19,426	83,087	5,648	6,271	19,580	6,724	27,096	2,988	4,175	10,606
Monthly data, seasonally adjusted															
1989:															
September	108,868	90,985	25,304	709	5,225	19,370	83,564	5,656	6,303	19,634	6,753	27,335	2,992	4,215	10,676
October	108,980	91,096	25,283	710	5,239	19,334	83,697	5,671	6,313	19,665	6,756	27,408	2,986	4,202	10,696
November	109,245	91,344	25,280	716	5,258	19,306	83,965	5,693	6,335	19,714	6,774	27,548	2,982	4,212	10,707
December	109,383	91,456	25,218	718	5,216	19,284	84,165	5,776	6,344	19,710	6,785	27,623	2,977	4,206	10,744
1990:															
January	109,654	91,656	25,188	723	5,294	19,171	84,466	5,790	6,356	19,807	6,794	27,721	3,000	4,225	10,773
February	109,958	91,917	25,339	727	5,368	19,244	84,619	5,804	6,357	19,758	6,817	27,842	3,005	4,239	10,797
March	110,122	91,963	25,259	729	5,313	19,217	84,863	5,808	6,361	19,764	6,821	27,950	3,089	4,249	10,821
April	110,177	91,922	25,180	734	5,256	19,190	84,997	5,809	6,363	19,778	6,823	27,969	3,151	4,252	10,852
May	110,617	92,120	25,191	738	5,286	19,167	85,426	5,833	6,369	19,795	6,838	28,094	3,346	4,262	10,889
June	110,829	92,282	25,162	744	5,270	19,148	85,667	5,846	6,383	19,822	6,844	28,225	3,336	4,296	10,913

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonfarm payrolls by detailed industry

(In thousands)

Industry	1987 SIC Code	All employees					Production workers'				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Total		108,366	109,195	110,477	110,341	110,854	-	-	-	-	-
Total private		91,636	91,583	93,008	93,132	92,812	74,398	74,320	75,438	75,571	75,249
Mining		718	718	752	749	748	515	514	542	540	540
Metal mining	10	59.0	58.6	62.9	61.5	-	46.8	46.5	49.9	48.7	-
Iron ores	101	8.1	8.0	8.8	7.0	-	6.7	6.6	7.3	5.6	-
Copper ores	102	14.0	14.0	14.8	15.3	-	11.2	11.2	12.0	12.5	-
Coal mining	12	151.3	151.8	156.8	156.9	-	121.8	122.5	126.7	127.0	-
Bituminous coal and lignite mining	122	141.5	141.9	146.1	146.3	-	113.9	114.5	118.0	118.4	-
Oil and gas extraction	13	390.8	391.7	415.7	414.4	414.5	255.9	256.5	276.8	275.7	-
Crude petroleum and natural gas	131	195.1	192.4	196.4	195.2	-	94.3	92.2	95.2	94.6	-
Oil and gas field services	138	191.1	194.7	215.5	215.5	-	158.0	160.8	178.6	178.2	-
Nonmetallic minerals, except fuels	14	116.9	115.9	116.1	116.3	-	90.0	88.9	88.5	88.6	-
Crushed and broken stone	142	43.0	42.7	42.8	43.1	-	34.2	33.8	33.3	33.4	-
Sand and gravel	144	38.1	37.9	37.1	37.1	-	-	-	-	-	-
Chemical and fertilizer minerals	147	16.6	16.3	16.6	16.5	-	-	-	-	-	-
Construction		5,567	5,499	5,532	5,537	5,443	4,408	4,346	4,351	4,356	4,268
General building contractors	15	1,422.6	1,392.0	1,385.9	1,380.8	1,356.4	1,054.7	1,026.0	1,018.3	1,013.4	-
Residential building construction	152	733.9	717.6	709.0	701.9	-	531.6	516.7	506.7	499.8	-
Operative builders	153	43.1	42.6	39.0	38.5	-	19.3	18.9	16.9	16.7	-
Nonresidential building construction	154	645.6	631.8	637.9	640.4	-	503.8	490.4	494.7	496.9	-
Heavy construction, except building	16	858.9	859.6	866.1	875.2	-	727.0	727.3	731.2	740.0	-
Highway and street construction	161	282.4	281.2	292.7	297.4	-	238.0	237.5	249.8	254.2	-
Heavy construction, except highway	162	576.5	578.4	573.4	577.8	-	489.0	489.8	481.4	485.8	-
Special trade contractors	17	3,285.4	3,246.9	3,280.2	3,280.5	-	2,625.8	2,592.2	2,601.9	2,602.5	-
Plumbing, heating, and air conditioning	171	674.1	666.4	669.4	667.0	-	501.7	495.2	494.1	493.3	-
Painting and paper hanging	172	192.7	188.7	190.0	192.6	-	163.2	159.8	159.5	161.0	-
Electrical work	173	572.5	566.0	580.4	583.1	-	447.3	441.5	453.6	456.3	-
Masonry, stonework, and plastering	174	536.9	538.6	551.0	553.8	-	464.5	466.0	476.1	477.7	-
Carpentry and floor work	175	218.9	216.6	193.8	193.0	-	174.9	172.8	147.6	146.7	-
Roofing, siding, and sheet metal work	176	232.5	228.9	226.5	231.0	-	188.3	185.7	182.3	186.9	-
Manufacturing		19,519	19,506	19,068	19,170	19,145	13,324	13,336	12,919	13,032	13,041
Durable goods		11,412	11,414	11,125	11,124	11,114	7,592	7,612	7,365	7,378	7,391
Lumber and wood products	24	771.8	764.2	758.0	756.8	750.6	640.5	633.4	625.7	624.6	618.4
Logging	241	92.7	91.7	91.7	92.3	-	77.3	76.4	76.6	77.2	-
Sawmills and planing mills	242	203.9	202.6	201.4	201.3	-	178.2	177.3	175.6	175.3	-
Sawmills and planing mills, general	2421	164.9	163.5	162.8	162.3	-	144.2	142.9	141.7	141.0	-
Hardwood dimension and flooring mills	2426	35.7	35.8	35.3	35.7	-	31.3	31.6	31.1	31.5	-
Millwork, plywood, and structural members	243	274.2	270.6	269.3	266.9	-	223.7	220.0	217.5	215.4	-
Millwork	2431	111.1	109.1	109.1	108.0	-	88.5	86.6	85.8	84.7	-
Wood kitchen cabinets	2434	73.3	72.6	73.5	73.2	-	58.6	57.8	58.6	58.3	-
Hardwood veneer and plywood	2435	24.3	24.1	23.6	23.6	-	21.1	20.9	20.3	20.4	-
Softwood veneer and plywood	2436	34.7	34.5	34.1	33.5	-	31.4	31.1	30.6	30.0	-
Wood containers	244	45.1	44.4	45.0	44.9	-	38.1	37.5	38.0	37.9	-
Wood buildings and mobile homes	245	67.9	67.0	65.1	65.4	-	51.5	50.7	49.0	49.4	-
Mobile homes	2451	45.0	44.5	44.8	45.1	-	36.8	36.4	36.4	36.6	-
Miscellaneous wood products	249	88.0	87.9	85.5	86.0	-	71.7	71.5	69.0	69.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Furniture and fixtures	25	522.0	524.7	501.2	511.2	510.1	415.7	417.9	394.9	403.7	403.2
Household furniture	251	297.3	300.1	281.8	289.4	-	250.4	252.8	234.6	241.3	-
Wood household furniture	2511	132.5	133.4	122.3	127.9	-	115.7	116.4	104.6	109.7	-
Upholstered household furniture	2512	99.8	99.8	98.2	99.8	-	83.2	83.4	81.9	83.4	-
Metal household furniture	2514	21.6	22.2	21.0	20.4	-	16.7	17.3	16.5	15.7	-
Mattresses and bedspings	2515	29.3	29.6	28.3	28.5	-	22.5	22.8	21.7	21.8	-
Office furniture	252	71.6	71.0	68.2	68.9	-	53.2	52.6	50.9	51.5	-
Public building and related furniture	253	33.3	33.1	30.4	31.3	-	26.3	26.1	23.3	24.2	-
Partitions and fixtures	254	82.6	83.1	84.0	84.6	-	60.3	60.8	60.9	61.4	-
Miscellaneous furniture and fixtures	259	37.2	37.4	36.8	37.0	-	25.5	25.6	25.2	25.3	-
Stone, clay, and glass products	32	578.9	575.3	561.3	561.5	557.3	453.4	450.4	437.5	437.7	434.8
Flat glass	321	16.9	16.7	16.4	16.5	-	13.6	13.4	12.9	12.9	-
Glass and glassware, pressed or blown	322	87.2	87.6	83.5	84.0	-	75.2	75.7	71.8	72.3	-
Glass containers	3221	43.6	43.1	42.1	41.9	-	39.6	39.3	38.1	37.9	-
Pressed and blown glass, nec	3229	43.6	44.5	41.4	42.1	-	35.6	36.4	33.7	34.4	-
Products of purchased glass	323	57.7	57.5	53.9	56.0	-	44.5	44.1	41.0	42.8	-
Cement, hydraulic	324	19.3	18.8	19.5	19.4	-	14.8	14.4	15.1	15.0	-
Structural clay products	325	38.1	37.5	36.9	36.7	-	29.4	29.0	28.6	28.3	-
Pottery and related products	326	40.5	40.3	38.9	38.3	-	32.3	32.1	30.6	30.2	-
Concrete, gypsum, and plaster products	327	221.5	219.3	215.3	213.9	-	170.8	168.9	165.5	164.4	-
Concrete block and brick	3271	20.8	20.4	19.9	19.6	-	13.6	13.2	13.1	12.9	-
Concrete products, nec	3272	74.7	74.6	71.5	71.8	-	57.0	56.9	53.9	54.2	-
Ready-mixed concrete	3273	106.6	105.2	104.8	103.8	-	85.2	84.0	83.8	83.0	-
Misc. nonmetallic mineral products	329	83.7	83.5	82.6	82.0	-	62.0	61.7	61.3	60.8	-
Abrasive products	3291	22.1	22.0	21.4	21.3	-	15.8	15.5	15.2	15.1	-
Asbestos products	3292	6.9	6.9	7.5	7.4	-	5.2	5.2	5.7	5.6	-
Mineral wool	3296	25.2	25.2	24.2	23.9	-	-	-	-	-	-
Primary metal industries	33	771.4	768.8	751.7	754.3	753.6	588.0	586.5	569.7	572.3	572.6
Blast furnaces and basic steel products	331	279.6	276.4	272.7	272.2	270.6	215.6	213.0	209.2	208.5	206.8
Blast furnaces and steel mills	3312	210.8	208.4	205.4	204.7	-	164.2	162.3	159.1	158.4	-
Steel pipe and tubes	3317	24.9	24.8	24.9	24.9	-	18.7	18.6	18.6	18.4	-
Iron and steel foundries	332	137.2	137.7	132.3	134.0	-	109.9	110.5	105.0	106.5	-
Gray and ductile iron foundries	3321	83.8	84.6	81.2	82.3	-	68.8	69.7	65.9	67.0	-
Malleable iron foundries	3322	8.9	9.0	8.2	9.0	-	6.9	6.9	6.2	6.8	-
Steel foundries, nec	3325	29.1	28.8	28.1	27.9	-	22.8	22.5	21.8	21.6	-
Primary nonferrous metals	333	46.0	45.3	46.1	46.1	-	34.1	33.4	33.8	33.8	-
Primary aluminum	3334	26.0	25.2	25.8	25.8	-	20.0	19.3	19.5	19.5	-
Nonferrous rolling and drawing	335	177.2	178.2	172.9	174.5	-	126.9	128.3	124.1	125.7	-
Copper rolling and drawing	3351	24.1	24.0	22.7	23.2	-	18.5	18.4	17.2	17.6	-
Aluminum sheet, plate, and foil	3353	27.7	27.8	28.6	28.6	-	18.4	18.7	19.3	19.3	-
Nonferrous wire drawing and insulating	3357	74.5	75.6	71.5	72.4	-	54.2	55.4	51.8	52.8	-
Nonferrous foundries (castings)	336	86.2	86.0	84.0	83.4	-	68.3	68.0	65.8	65.4	-
Aluminum foundries	3365	25.5	24.7	23.1	23.5	-	20.3	19.5	18.1	18.4	-
Fabricated metal products	34	1,436.8	1,445.0	1,405.0	1,414.1	1,418.8	1,062.6	1,069.7	1,033.3	1,042.0	1,047.7
Metal cans and shipping containers	341	53.3	53.2	53.0	52.3	-	46.1	46.0	45.4	44.9	-
Metal cans	3411	42.9	42.7	42.7	42.4	-	37.5	37.3	37.1	36.9	-
Cutlery, handtools, and hardware	342	129.8	130.7	127.4	126.7	-	95.5	96.4	92.9	92.5	-
Hand and edge tools, and blades and handsaws	3423.5	44.3	44.6	44.0	43.9	-	32.4	32.6	32.2	32.0	-
Hardware, nec	3429	73.8	74.3	71.5	70.8	-	54.9	55.5	52.7	52.3	-
Plumbing and heating, except electric	343	62.7	63.3	61.6	63.2	-	45.2	46.0	43.9	45.4	-
Plumbing fixture fittings and trim	3432	27.3	26.8	26.5	26.7	-	20.3	19.9	19.7	19.9	-
Heating equipment, except electric	3433	22.5	23.0	21.9	22.5	-	15.3	15.8	14.6	15.1	-
Fabricated structural metal products	344	434.5	434.8	427.5	430.4	-	311.3	311.1	303.9	306.0	-
Fabricated structural metal	3441	77.7	78.0	76.8	77.6	-	56.0	56.2	55.3	55.7	-
Metal doors, sash, and trim	3442	78.8	78.4	77.6	78.1	-	58.2	57.5	56.7	57.2	-
Fabricated plate work (boiler shops)	3443	108.1	108.9	108.8	109.7	-	72.6	73.2	73.1	73.5	-
Sheet metal work	3444	96.9	96.8	94.3	94.7	-	73.5	73.3	70.8	71.5	-
Architectural metal work	3446	29.9	29.8	28.8	28.6	-	21.7	21.7	20.6	20.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	98.1	99.2	95.3	96.0	-	74.7	75.4	72.8	73.5	-
Screw machine products	3451	46.9	47.6	46.1	46.1	-	38.2	38.7	37.4	37.4	-
Bolts, nuts, rivets, and washers	3452	51.2	51.6	49.2	49.9	-	36.5	36.7	35.4	36.1	-
Metal forgings and stampings	346	226.1	231.0	221.6	223.5	-	179.0	183.2	175.2	176.8	-
Iron and steel forgings	3462	31.8	32.9	31.4	31.9	-	24.4	25.4	23.9	24.3	-
Automotive stampings	3465	101.8	105.4	100.3	100.2	-	84.5	87.9	83.7	83.5	-
Metal stampings, nec	3469	79.8	80.0	77.7	79.3	-	60.4	60.4	58.5	59.9	-
Metal services, nec	347	121.1	122.0	117.9	119.9	-	96.0	96.8	91.5	93.3	-
Plating and polishing	3471	78.2	78.3	74.8	76.4	-	62.6	62.7	58.2	59.7	-
Metal coating and allied services	3479	42.9	43.7	43.1	43.5	-	33.4	34.1	33.3	33.6	-
Ordnance and accessories, nec	348	74.1	73.5	68.1	67.5	-	44.4	44.1	42.8	42.2	-
Ammunition, except for small arms, nec	3483	43.4	42.8	38.5	38.5	-	23.0	22.6	21.6	21.5	-
Miscellaneous fabricated metal products	349	237.1	237.3	232.6	234.6	-	170.4	170.7	164.9	167.4	-
Valves and pipe fittings, nec	3494	29.8	29.4	28.9	29.2	-	19.3	19.0	18.4	18.9	-
Misc. fabricated wire products	3496	54.4	54.1	53.4	54.0	-	41.2	40.8	40.0	40.5	-
Industrial machinery and equipment	35	2,124.8	2,126.4	2,097.4	2,085.2	2,076.7	1,276.0	1,281.5	1,258.0	1,248.8	1,245.5
Engines and turbines	351	90.4	90.5	91.0	92.8	-	58.7	58.6	58.5	60.2	-
Turbines and turbine generator sets	3511	26.1	26.3	28.2	28.4	-	15.1	15.3	16.3	16.4	-
Internal combustion engines, nec	3519	64.3	64.2	62.8	64.4	-	43.6	43.3	42.2	43.8	-
Farm and garden machinery	352	101.8	103.1	108.8	107.6	-	72.3	74.0	78.7	77.1	-
Farm machinery and equipment	3523	78.7	78.1	81.8	82.2	-	55.1	54.8	58.2	58.7	-
Construction and related machinery	353	221.3	222.4	226.5	223.5	-	135.3	135.8	140.0	137.7	-
Construction machinery	3531	82.7	84.2	84.0	81.5	-	51.7	52.6	52.1	49.9	-
Mining machinery	3532	16.6	16.6	17.3	17.3	-	10.1	10.1	10.8	10.8	-
Oil and gas field machinery	3533	39.4	38.8	41.6	41.7	-	23.0	22.5	25.9	26.2	-
Conveyors and conveying equipment	3535	34.7	34.7	34.3	34.1	-	18.7	18.7	19.0	19.1	-
Industrial trucks and tractors	3537	28.3	28.2	28.9	28.6	-	19.5	19.3	19.6	19.3	-
Metalworking machinery	354	336.4	337.7	328.2	328.3	-	239.8	241.3	233.9	233.8	-
Machine tools, metal cutting types	3541	49.3	49.6	46.9	46.9	-	31.6	32.0	30.1	29.9	-
Machine tools, metal forming types	3542	18.5	18.5	18.4	18.3	-	11.7	11.9	11.5	11.4	-
Special dies, tools, jigs, and fixtures	3544	147.3	148.7	146.2	146.4	-	113.5	114.7	113.1	113.2	-
Machine tool accessories	3545	58.6	58.6	55.0	54.6	-	41.5	41.5	38.7	38.3	-
Power driven handtools	3546	21.5	21.5	20.3	21.2	-	15.0	14.9	13.7	14.7	-
Special industry machinery	355	161.2	161.1	158.4	157.1	-	96.9	97.2	93.0	92.3	-
Textile machinery	3552	19.1	19.1	18.9	18.8	-	12.6	12.6	12.5	12.3	-
Printing trades machinery	3555	25.5	25.4	23.5	23.4	-	14.8	14.7	12.9	12.9	-
Food products machinery	3556	24.1	23.8	23.9	23.5	-	14.5	14.4	14.3	14.0	-
General industrial machinery	356	242.5	242.9	243.5	242.8	-	156.0	156.8	155.2	154.5	-
Pumps and pumping equipment	3561	28.6	28.7	28.5	29.0	-	16.6	16.6	16.2	16.6	-
Ball and roller bearings	3562	43.4	43.8	43.6	43.2	-	33.8	34.2	33.6	33.3	-
Air and gas compressors	3563	24.4	24.0	25.2	25.0	-	13.7	13.5	14.2	14.0	-
Blowers and fans	3564	31.7	31.7	32.1	32.0	-	21.3	21.4	21.7	21.6	-
Speed changers, drives, and gears	3566	16.1	16.2	16.3	16.4	-	11.4	11.5	11.5	11.5	-
Power transmission equipment, nec	3568	19.1	19.1	18.8	18.6	-	13.0	13.1	12.6	12.4	-
Computer and office equipment	357	463.4	460.2	445.4	442.5	-	148.1	146.5	140.4	139.7	-
Electronic computers	3571	292.8	290.7	274.8	273.2	-	79.5	77.1	69.8	69.5	-
Computer terminals, calculators, and office machines, nec	3575,8,9	71.2	70.5	68.3	67.6	-	22.2	22.6	21.3	21.3	-
Refrigeration and service machinery	358	191.2	190.8	183.8	179.6	-	137.7	137.9	129.7	126.5	-
Refrigeration and heating equipment	3585	135.2	135.3	130.9	126.7	-	100.7	101.2	95.8	92.3	-
Misc. industrial and commercial machinery	359	316.6	317.7	311.8	311.0	-	231.2	233.4	228.6	227.0	-
Carburetors, pistons, rings, valves	3592	23.5	24.2	23.2	23.4	-	18.1	19.0	18.9	18.8	-
Scales, balances, and industrial machinery, nec	3596,9	241.9	242.7	239.9	239.0	-	184.0	185.4	181.7	180.4	-
Electronic and other electrical equipment	36	1,752.4	1,747.4	1,686.1	1,686.9	1,677.5	1,104.7	1,106.2	1,060.2	1,063.4	1,061.3
Electric distribution equipment	361	99.8	99.5	94.7	95.0	-	70.8	70.4	65.6	66.4	-
Transformers, except electronic	3612	50.5	50.2	47.1	47.7	-	36.2	35.8	32.9	33.9	-
Switchgear and switchboard apparatus	3613	49.3	49.3	47.6	47.3	-	34.6	34.6	32.7	32.5	-
Electrical industrial apparatus	362	176.2	175.3	169.9	170.2	-	125.0	125.1	118.5	119.3	-
Motors and generators	3621	88.3	88.3	83.6	84.6	-	69.1	69.5	64.8	65.6	-
Relays and industrial controls	3625	67.9	67.3	66.5	65.9	-	42.2	42.0	40.1	40.0	-
Household appliances	363	134.4	135.3	129.6	128.5	-	107.7	108.6	103.5	102.7	-
Household refrigerators and freezers	3632	29.4	28.9	29.5	28.5	-	24.2	23.7	24.4	23.4	-
Household laundry equipment	3633	21.4	21.4	21.2	21.1	-	17.1	17.2	16.7	16.5	-
Electric housewares and fans	3634	37.4	38.0	35.1	35.2	-	29.2	29.9	26.7	27.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric lighting and wiring equipment	364	193.0	194.5	186.4	187.0	-	138.8	140.6	134.0	134.7	-
Electric lamps	3641	25.5	25.3	25.0	24.7	-	21.7	21.5	21.3	20.9	-
Current-carrying wiring devices	3643	74.7	74.9	73.0	72.8	-	48.3	48.6	47.4	47.7	-
Noncurrent-carrying wiring devices	3644	16.2	16.2	15.7	15.7	-	12.2	12.1	11.4	11.4	-
Residential lighting fixtures	3645	26.1	26.4	23.0	24.4	-	19.4	19.8	16.8	18.0	-
Household audio and video equipment	365	89.2	89.8	85.5	86.7	-	63.1	63.7	59.1	60.1	-
Household audio and video equipment	3651	67.3	67.7	63.8	64.6	-	46.1	46.4	42.1	42.7	-
Communications equipment	366	273.2	269.6	259.8	258.0	-	137.8	135.8	131.8	129.7	-
Telephone and telegraph apparatus	3661	142.0	139.1	131.8	131.2	-	79.9	78.2	72.1	70.9	-
Electronic components and accessories	367	618.0	613.3	597.3	595.0	-	345.0	343.9	336.4	335.7	-
Electron tubes	3671	35.1	35.3	34.1	33.7	-	23.3	23.4	22.4	22.2	-
Semiconductors and related devices	3674	252.2	250.0	245.4	244.2	-	95.2	95.3	95.5	94.7	-
Electronic components, nec	3679	152.3	150.6	145.3	144.4	-	95.3	94.5	90.8	90.3	-
Misc. electrical equipment and supplies	369	168.6	170.1	162.9	166.5	-	116.5	118.1	111.3	114.8	-
Storage batteries	3691	29.2	29.8	27.9	30.0	-	22.3	22.9	21.4	23.0	-
Engine electrical equipment	3694	70.3	71.0	68.0	68.2	-	53.3	54.0	51.3	51.6	-
Transportation equipment	37	2,032.3	2,045.8	1,990.5	1,974.6	1,986.7	1,255.1	1,270.5	1,223.2	1,213.6	1,230.3
Motor vehicles and equipment	371	846.9	850.4	804.3	798.5	812.1	651.2	655.3	611.6	605.8	620.1
Motor vehicles and car bodies	3711	342.9	344.5	308.9	306.2	-	252.9	255.0	222.9	220.3	-
Truck and bus bodies	3713	43.2	42.3	42.9	41.8	-	33.7	32.8	33.8	32.6	-
Motor vehicle parts and accessories	3714	412.3	413.8	404.9	402.4	-	326.8	329.1	318.2	316.1	-
Truck trailers	3715	30.0	29.7	27.4	28.1	-	23.7	23.4	21.4	21.9	-
Aircraft and parts	372	710.2	717.7	711.0	703.5	-	339.7	346.8	342.8	339.4	-
Aircraft	3721	386.6	387.5	380.1	376.1	-	169.4	170.5	163.2	162.8	-
Aircraft engines and engine parts	3724	151.6	155.7	156.8	153.8	-	73.9	77.7	79.9	77.2	-
Aircraft parts and equipment, nec	3728	172.0	174.5	174.1	173.6	-	96.4	98.6	99.7	99.4	-
Ship and boat building and repairing	373	188.5	190.9	190.8	190.2	-	139.1	142.2	144.9	144.3	-
Ship building and repairing	3731	124.1	124.9	131.4	132.2	-	86.6	88.3	96.1	96.8	-
Boat building and repairing	3732	64.4	66.0	59.4	58.0	-	52.5	53.9	48.8	47.5	-
Railroad equipment	374	33.6	34.5	35.0	34.8	-	25.0	25.8	25.9	26.1	-
Guided missiles, space vehicles, and parts	376	193.4	192.6	188.6	187.1	-	60.1	60.4	57.2	57.1	-
Guided missiles and space vehicles	3761	136.9	136.5	136.2	135.2	-	38.9	39.1	37.2	37.3	-
Miscellaneous transportation equipment	379	46.8	46.9	47.2	46.9	-	30.7	30.8	31.0	31.2	-
Travel trailers and campers	3792	17.4	17.4	18.9	18.8	-	13.5	13.6	14.7	14.7	-
Instruments and related products	38	1,029.3	1,022.9	996.0	992.8	992.8	509.5	508.5	490.2	491.1	492.2
Search and navigation equipment	381	298.7	296.6	281.6	279.1	-	100.1	99.6	92.1	90.9	-
Measuring and controlling devices	382	330.9	329.8	319.8	319.7	-	186.0	186.1	176.7	178.1	-
Environmental controls	3822	51.1	50.7	48.4	47.8	-	34.2	34.0	32.7	32.5	-
Process control instruments	3823	65.8	65.4	66.0	65.9	-	35.2	35.1	33.9	34.0	-
Instruments to measure electricity	3825	100.4	100.1	94.3	95.0	-	50.1	50.4	46.8	48.1	-
Medical instruments and supplies	384	240.6	240.2	242.5	243.0	-	140.3	139.9	142.5	142.7	-
Surgical and medical instruments	3841	99.3	99.0	101.1	101.5	-	57.3	57.2	58.6	59.1	-
Surgical appliances and supplies	3842	90.3	90.3	92.2	92.5	-	56.7	56.5	58.0	58.2	-
Ophthalmic goods	385	39.6	39.8	38.7	39.0	-	27.5	27.7	26.8	26.8	-
Photographic equipment and supplies	386	107.9	104.9	102.6	100.9	-	47.2	46.7	43.9	44.1	-
Watches, clocks, watchcases, and parts	387	11.6	11.6	10.8	11.1	-	8.4	8.5	8.2	8.5	-
Miscellaneous manufacturing industries	39	392.2	393.3	377.6	386.5	390.0	286.6	287.5	272.2	280.9	285.0
Jewelry, silverware, and plated ware	391	53.9	55.2	50.6	53.5	-	38.3	39.2	35.0	37.8	-
Jewelry, precious metal	3911	39.1	40.2	36.8	38.8	-	27.6	28.4	25.2	27.2	-
Musical instruments	393	12.4	12.5	11.4	11.9	-	10.2	10.3	9.3	9.7	-
Toys and sporting goods	394	106.8	106.7	103.0	104.4	-	78.1	77.8	74.6	76.2	-
Dolls, games, toys, and children's vehicles	3942,4	47.8	48.1	43.7	45.0	-	34.3	34.3	30.5	32.1	-
Sporting and athletic goods, nec	3949	59.0	58.6	59.3	59.4	-	43.8	43.5	44.1	44.1	-
Pens, pencils, office, and art supplies	395	35.9	35.6	34.5	34.3	-	25.0	24.7	24.2	24.0	-
Costume jewelry and notions	396	38.9	38.7	36.3	38.6	-	31.4	31.1	26.7	29.0	-
Costume jewelry	3961	25.0	25.1	23.1	25.4	-	20.3	20.2	16.5	18.8	-
Miscellaneous manufactures	399	144.3	144.6	141.8	143.8	-	103.6	104.4	102.4	104.2	-
Signs and advertising specialties	3993	57.8	57.7	57.1	57.7	-	39.8	39.9	40.2	40.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Nondurable goods		8,107	8,092	7,943	8,046	8,031	5,732	5,724	5,554	5,654	5,650
Food and kindred products	20	1,729.6	1,733.7	1,684.4	1,730.8	1,729.5	1,255.7	1,260.3	1,216.4	1,262.2	1,264.0
Meat products	201	416.2	415.3	419.3	421.3	-	353.3	352.7	356.4	358.8	-
Meat packing plants	2011	139.7	139.6	138.2	139.6	-	117.2	117.2	116.1	117.7	-
Sausages and other prepared meats	2013	85.1	84.8	85.8	86.1	-	62.9	62.8	64.2	64.7	-
Poultry slaughtering and processing	2015	191.4	190.9	195.3	195.6	-	173.2	172.7	176.1	176.4	-
Dairy products	202	160.2	157.3	157.6	156.8	-	98.8	96.0	97.3	96.7	-
Cheese, natural and processed	2022	43.1	42.4	42.5	42.3	-	33.3	32.8	32.9	32.6	-
Fluid milk	2026	75.7	75.0	74.4	74.4	-	38.3	37.6	37.3	37.4	-
Preserved fruits and vegetables	203	310.1	315.1	273.9	315.0	-	263.7	269.0	231.8	271.5	-
Canned specialties	2032	25.8	26.5	23.3	26.5	-	19.4	20.0	18.2	21.6	-
Canned fruits and vegetables	2033	138.2	139.0	108.0	139.9	-	121.9	123.2	95.2	124.6	-
Frozen fruits and vegetables	2037	60.5	61.7	56.4	61.8	-	54.4	55.7	49.1	55.0	-
Grain mill products	204	126.0	126.5	126.5	127.6	-	87.2	88.3	87.2	88.7	-
Flour and other grain mill products	2041	21.4	21.4	22.2	22.5	-	14.2	14.4	13.9	14.2	-
Prepared feeds, nec	2048	43.8	44.0	43.5	43.6	-	27.4	27.6	27.3	27.6	-
Bakery products	205	215.0	215.5	209.6	209.4	-	134.4	134.7	132.0	132.0	-
Bread, cake, and related products	2051	157.2	156.6	152.5	151.8	-	89.9	89.3	87.9	87.5	-
Cookies, crackers, and frozen bakery products, except bread	2052,3	57.8	58.9	57.1	57.6	-	44.5	45.4	44.1	44.5	-
Sugar and confectionery products	206	99.8	106.9	100.6	106.6	-	77.8	85.0	77.5	83.6	-
Raw cane sugar	2061	6.3	6.7	4.9	5.6	-	4.5	4.8	3.5	4.1	-
Cane sugar refining	2062	5.4	5.3	5.5	5.4	-	4.1	4.0	4.1	4.1	-
Beet sugar	2063	7.7	10.3	7.5	7.7	-	6.2	8.7	5.9	6.1	-
Candy and other confectionery products	2064	50.5	53.8	52.1	56.4	-	42.0	45.4	42.2	46.8	-
Fats and oils	207	30.2	30.3	29.6	29.4	-	22.1	22.1	21.0	20.8	-
Beverages	208	195.9	193.8	189.2	188.7	-	84.4	83.0	80.0	79.1	-
Malt beverages	2082	41.8	41.2	40.7	40.5	-	25.8	25.4	24.4	24.2	-
Bottled and canned soft drinks	2086	108.8	107.2	107.5	106.9	-	36.2	35.0	36.0	35.3	-
Misc. food and kindred products	209	176.2	173.0	178.1	176.0	-	134.0	129.5	133.2	131.0	-
Tobacco products	21	48.4	49.9	43.6	47.2	48.7	35.9	37.9	31.1	34.4	35.6
Cigarettes	211	35.8	34.2	34.6	34.2	-	26.4	25.4	25.6	24.9	-
Textile mill products	22	726.6	724.0	691.9	703.4	700.3	628.0	625.1	593.6	604.2	601.6
Broadwoven fabric mills, cotton	221	95.7	95.4	87.3	90.2	-	86.0	85.9	77.7	80.4	-
Broadwoven fabric mills, synthetics	222	84.2	84.4	80.3	81.6	-	74.5	74.6	70.4	71.7	-
Broadwoven fabric mills, wool	223	19.2	19.0	17.6	18.1	-	15.5	15.3	14.2	14.6	-
Narrow fabric mills	224	25.1	25.0	23.5	24.0	-	21.3	21.3	19.8	20.4	-
Knitting mills	225	218.5	217.0	207.4	209.3	-	192.2	190.3	181.6	183.1	-
Women's hosiery, except socks	2251	32.7	32.5	32.4	32.9	-	29.3	29.0	28.9	29.3	-
Hosiery, nec	2252	40.6	40.5	38.6	38.8	-	36.9	36.7	34.6	34.7	-
Knit outerwear mills	2253	67.9	67.3	64.1	64.7	-	60.3	59.6	56.4	56.8	-
Knit underwear mills	2254	29.7	29.2	26.5	27.0	-	25.1	24.6	22.6	23.0	-
Weft knit fabric mills	2257	28.0	28.1	27.2	27.1	-	24.4	24.5	24.0	23.9	-
Textile finishing, except wool	226	61.4	61.7	60.2	60.7	-	50.3	50.3	48.8	49.1	-
Finishing plants, cotton	2261	24.9	25.3	25.1	25.5	-	20.3	20.5	20.1	20.4	-
Finishing plants, synthetics	2262	23.6	23.6	23.2	23.1	-	18.9	18.8	18.5	18.6	-
Carpets and rugs	227	64.1	63.9	65.0	65.9	-	52.1	51.9	52.9	53.8	-
Yarn and thread mills	228	106.0	105.6	99.5	102.4	-	95.5	95.0	89.1	91.8	-
Yarn spinning mills	2281	84.5	83.9	79.7	81.5	-	76.2	75.7	71.6	73.3	-
Throwing and winding mills	2282	15.0	15.1	13.6	14.6	-	13.4	13.4	11.9	12.9	-
Miscellaneous textile goods	229	52.4	52.0	51.1	51.2	-	40.6	40.5	39.1	39.3	-
Apparel and other textile products	23	1,074.8	1,074.7	997.0	1,025.4	1,029.0	905.8	906.5	831.7	858.6	861.8
Men's and boys' suits and coats	231	53.0	52.9	47.8	48.8	-	45.2	45.0	39.9	41.4	-
Men's and boys' furnishings	232	287.1	286.7	262.0	266.7	-	248.1	247.9	224.5	228.2	-
Men's and boys' shirts	2321	68.6	68.5	60.9	62.3	-	58.3	58.4	51.6	52.8	-
Men's and boys' trousers and slacks	2325	87.9	88.4	80.4	81.2	-	77.2	77.5	69.5	70.1	-
Men's and boys' work clothing	2326	46.9	46.5	44.0	44.6	-	40.8	40.7	38.0	38.6	-
Women's and misses' outerwear	233	341.6	339.6	311.1	326.9	-	285.6	284.3	258.2	273.2	-
Women's and misses' blouses and shirts	2331	43.3	42.7	38.3	39.2	-	35.7	35.4	31.1	32.1	-
Women's, juniors', and misses' dresses	2335	75.9	74.5	67.4	72.0	-	62.8	61.5	55.0	59.4	-
Women's and misses' suits and coats	2337	40.0	39.9	41.0	42.2	-	33.5	33.3	34.1	34.9	-
Women's and misses' outerwear, nec	2339	182.4	182.5	164.4	173.5	-	153.6	154.1	138.0	146.8	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	66.4	65.9	59.6	61.0	-	55.0	54.6	48.6	49.8	-
Women's and children's underwear	2341	52.9	52.6	48.1	48.9	-	45.7	45.4	41.2	41.8	-
Brassieres, girdles, and allied garments	2342	13.5	13.3	11.5	12.1	-	9.3	9.2	7.4	8.0	-
Girl's and children's outerwear	236	57.9	58.6	56.0	57.0	-	48.8	49.1	46.8	48.0	-
Girl's and children's dresses and blouses	2361	22.2	22.5	20.8	22.4	-	19.3	19.6	17.9	19.6	-
Misc. apparel and accessories	238	45.7	46.0	42.5	44.3	-	37.7	38.1	34.8	36.3	-
Misc. fabricated textile products	239	205.4	207.1	199.5	202.5	-	171.0	173.0	163.7	166.7	-
Curtains and draperies	2391	25.6	25.4	23.1	24.3	-	21.3	21.2	18.9	20.0	-
House furnishings, nec	2392	55.4	55.9	53.0	54.6	-	46.6	47.1	44.2	45.4	-
Automotive and apparel trimmings	2396	46.3	47.7	48.2	47.9	-	38.7	40.0	39.4	39.3	-
Paper and allied products	26	703.9	698.1	704.6	705.8	701.8	527.3	523.1	529.0	530.7	528.1
Paper mills	262	180.3	177.5	181.3	180.3	-	136.7	134.4	137.4	136.3	-
Paperboard mills	263	52.8	51.9	52.3	52.1	-	40.3	39.9	40.1	40.0	-
Paperboard containers and boxes	265	210.6	210.4	209.0	210.4	-	163.0	162.7	161.0	162.3	-
Corrugated and solid fiber boxes	2653	118.0	117.9	117.7	118.3	-	88.8	88.6	88.0	88.6	-
Sanitary food containers	2656	14.6	14.5	15.3	14.9	-	12.2	12.1	12.9	12.6	-
Folding paperboard boxes	2657	51.5	51.2	50.8	50.9	-	41.3	41.1	40.8	40.8	-
Misc. converted paper products	267	243.4	241.7	244.6	245.6	-	174.1	173.1	177.0	178.5	-
Paper, coated and laminated, nec	2672	44.5	43.6	44.9	45.0	-	20.2	19.6	21.9	22.0	-
Bags: plastics, laminated, and coated	2673	33.6	33.5	34.2	34.5	-	25.4	25.4	25.6	25.9	-
Envelopes	2677	27.0	26.9	26.3	26.5	-	21.0	20.8	20.4	20.6	-
Printing and publishing	27	1,561.1	1,558.9	1,578.0	1,578.7	1,573.2	863.4	861.2	873.4	874.8	871.8
Newspapers	271	471.8	471.0	478.9	478.3	-	164.5	164.2	165.6	165.6	-
Periodicals	272	129.2	128.7	132.1	131.4	-	45.8	46.0	48.6	48.4	-
Books	273	119.4	116.7	120.4	119.9	-	63.7	61.2	65.1	64.9	-
Book publishing	2731	84.6	82.8	85.1	85.0	-	35.9	34.2	36.3	36.6	-
Book printing	2732	34.8	33.9	35.3	34.9	-	27.8	27.0	28.8	28.3	-
Miscellaneous publishing	274	82.1	82.2	82.5	82.8	-	40.7	40.1	42.0	42.1	-
Commercial printing	275	543.5	545.5	549.0	551.2	-	395.2	396.3	398.8	400.9	-
Commercial printing, lithographic	2752	358.1	359.7	364.9	366.5	-	259.5	260.4	265.0	267.1	-
Commercial printing, nec	2759	169.8	170.1	169.0	169.5	-	123.2	123.4	121.8	121.7	-
Manifold business forms	276	49.6	49.8	48.4	48.3	-	33.7	34.0	33.6	33.3	-
Blankbooks and bookbinding	278	76.7	76.0	75.5	75.3	-	59.6	58.9	58.8	58.1	-
Printing trade services	279	64.0	63.9	63.8	63.9	-	47.3	47.4	46.4	46.6	-
Chemicals and allied products	28	1,083.3	1,076.2	1,094.5	1,094.3	1,089.9	610.8	605.8	604.7	603.0	601.9
Industrial inorganic chemicals	281	133.8	132.8	136.7	136.1	-	69.9	69.5	68.8	68.4	-
Industrial inorganic chemicals, nec	2819	89.7	89.6	92.0	91.3	-	47.9	47.8	48.3	47.5	-
Plastics materials and synthetics	282	185.6	184.3	186.9	185.5	-	121.2	120.2	120.3	119.1	-
Plastics materials and resins	2821	89.9	89.0	89.9	89.3	-	52.8	52.3	52.9	52.5	-
Organic fibers, noncellulosic	2824	66.7	66.3	66.6	66.0	-	47.8	47.4	46.3	45.6	-
Drugs	283	235.2	233.4	240.3	240.8	-	103.5	102.5	107.2	107.0	-
Pharmaceutical preparations	2834	195.6	194.1	199.2	199.5	-	86.2	85.6	90.4	90.2	-
Soap, cleaners, and toilet goods	284	162.3	161.2	158.9	161.2	-	102.9	102.1	98.3	99.6	-
Soap and other detergents	2841	43.1	43.0	43.7	44.0	-	27.1	27.1	28.2	28.5	-
Polishing, sanitation, and finishing preparations	2842,3	43.5	43.3	44.9	45.2	-	24.3	24.0	24.5	24.4	-
Toilet preparations	2844	75.7	74.9	70.3	72.0	-	51.5	51.0	45.6	46.7	-
Paints and allied products	285	63.9	63.1	64.5	64.1	-	32.6	31.8	33.0	32.8	-
Industrial organic chemicals	286	149.9	150.1	154.1	153.7	-	88.6	88.2	85.6	85.2	-
Cyclic crudes and intermediates	2865	28.6	28.5	29.4	29.4	-	17.7	17.6	17.7	17.8	-
Industrial organic chemicals, nec	2869	116.7	117.1	120.4	120.0	-	67.7	67.5	65.0	64.5	-
Agricultural chemicals	287	52.2	51.8	53.0	52.6	-	32.1	32.0	32.7	32.2	-
Miscellaneous chemical products	289	100.4	99.5	100.1	100.3	-	60.0	59.5	58.8	58.7	-
Petroleum and coal products	29	160.6	159.4	163.7	164.4	163.9	106.0	105.0	107.8	108.2	107.2
Petroleum refining	291	119.4	118.3	121.3	121.7	-	76.3	75.4	77.4	77.6	-
Asphalt paving and roofing materials	295	29.4	29.3	30.2	30.5	-	23.0	23.0	23.4	23.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Nondurable goods—Continued											
Rubber and misc. plastics products	30	880.8	880.1	864.2	870.5	869.7	684.8	685.2	667.1	673.9	674.9
Tires and inner tubes	301	85.9	84.2	84.1	84.8	-	64.5	63.5	61.3	62.1	-
Rubber and plastics footwear	302	10.2	11.4	10.4	11.0	-	8.3	9.4	8.4	8.9	-
Hose, belting, gaskets, and packing	305	58.7	58.3	58.7	58.1	-	42.7	42.5	42.3	42.0	-
Rubber and plastics hose and belting	3052	25.5	25.5	25.1	24.6	-	18.9	19.0	18.7	18.3	-
Fabricated rubber products, nec	306	107.5	108.0	102.9	103.7	-	81.0	81.6	77.2	78.2	-
Miscellaneous plastics products, nec	308	618.5	618.2	608.1	612.9	-	488.3	488.2	477.9	482.7	-
Leather and leather products	31	137.5	136.7	120.6	125.7	125.3	114.4	113.5	99.3	103.9	102.8
Leather tanning and finishing	311	14.8	14.9	12.8	14.3	-	12.4	12.4	10.5	11.8	-
Footwear, except rubber	314	77.0	75.8	68.5	70.9	-	65.9	64.8	57.9	60.0	-
Men's footwear, except athletic	3143	33.1	32.7	29.8	30.4	-	27.1	26.8	24.0	24.6	-
Women's footwear, except athletic	3144	27.9	27.4	25.3	26.3	-	24.8	24.4	22.1	22.9	-
Luggage	316	11.3	11.3	9.7	9.7	-	8.4	8.3	7.0	7.1	-
Handbags and personal leather goods	317	16.6	16.9	12.8	13.5	-	13.2	13.5	10.1	10.8	-
Transportation and public utilities		5,566	5,700	5,843	5,850	5,905	4,634	4,746	4,852	4,863	4,910
Transportation		3,453	3,525	3,607	3,615	3,688	-	-	-	-	-
Railroad transportation	40	298.0	296.0	288.8	287.3	-	-	-	-	-	-
Class I railroads ²	4011	254.0	252.2	244.8	243.8	-	-	-	-	-	-
Local and interurban passenger transit	41	273.8	343.2	278.4	277.6	-	245.3	313.9	251.0	249.8	-
Local and suburban transportation	411	127.9	129.9	136.0	137.0	-	113.5	115.6	123.4	124.4	-
Taxicabs	412	32.7	33.0	32.6	32.3	-	-	-	-	-	-
Intercity and rural bus transportation	413	28.5	29.1	18.3	18.1	-	25.9	26.3	15.9	15.9	-
School buses	415	57.2	121.8	62.4	60.7	-	-	-	-	-	-
Trucking and warehousing	42	1,633.7	1,638.1	1,676.2	1,680.0	-	1,429.6	1,431.6	1,461.0	1,463.8	-
Trucking and courier services, except air	421	1,514.5	1,515.7	1,555.3	1,557.8	-	1,330.5	1,329.8	1,361.1	1,362.6	-
Public warehousing and storage	422	115.6	118.8	117.2	118.5	-	96.1	98.7	96.8	98.0	-
Water transportation	44	180.7	178.9	182.3	178.1	-	-	-	-	-	-
Water transportation of freight, nec	444	14.0	14.4	13.7	13.8	-	-	-	-	-	-
Water transportation services	449	115.3	115.9	115.0	110.9	-	103.0	103.5	102.1	98.4	-
Transportation by air	45	708.3	711.7	799.9	808.5	-	-	-	-	-	-
Air transportation, scheduled	451	584.0	587.5	662.4	669.4	-	-	-	-	-	-
Airports, flying fields, and services	458	96.8	97.0	106.3	107.5	-	-	-	-	-	-
Pipelines, except natural gas	46	19.5	19.1	20.4	20.5	-	14.1	13.8	15.0	15.0	-
Transportation services	47	339.0	338.4	360.8	362.5	-	-	-	-	-	-
Freight transportation arrangement	473	127.8	127.7	132.9	133.0	-	102.7	102.4	107.8	108.2	-
Communications and public utilities		2,113	2,175	2,236	2,235	2,217	-	-	-	-	-
Communications	48	1,164.1	1,237.3	1,279.7	1,278.7	-	870.2	924.7	955.4	953.9	-
Telephone communications	481	774.4	847.2	882.6	881.5	-	553.0	607.2	634.5	633.1	-
Radio and television broadcasting	483	233.2	233.4	234.4	234.4	-	192.6	192.9	193.7	193.5	-
Radio broadcasting stations	4832	121.2	120.6	121.5	121.0	-	-	-	-	-	-
Television broadcasting stations	4833	112.0	112.8	112.9	113.4	-	-	-	-	-	-
Cable and other pay television services	484	118.8	119.2	127.5	127.8	-	100.3	100.6	105.7	106.2	-
Electric, gas, and sanitary services	49	948.8	937.3	956.2	956.0	-	752.6	741.1	759.9	759.6	-
Electric services	491	447.0	442.1	447.9	447.3	-	343.5	338.2	347.3	347.0	-
Gas production and distribution	492	167.6	164.9	170.6	170.4	-	132.2	129.4	134.2	133.8	-
Combination utility services	493	194.1	192.5	195.7	195.6	-	157.7	156.4	158.3	158.1	-
Sanitary services	495	110.4	108.6	111.5	112.4	-	95.9	94.4	96.1	96.9	-
Wholesale trade		6,327	6,315	6,414	6,408	6,386	5,101	5,086	5,159	5,152	5,125
Durable goods	50	3,749	3,738	3,794	3,784	3,762	3,001	2,987	3,022	3,012	-
Motor vehicles, parts, and supplies	501	455.6	452.9	454.7	453.4	-	369.3	366.2	367.8	366.2	-
Automobiles and other motor vehicles	5012	123.1	122.5	121.6	121.0	-	-	-	-	-	-
Motor vehicle supplies and new parts	5013	262.8	261.2	263.5	261.9	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	155.8	155.6	152.3	153.0	-	126.5	125.9	123.2	123.6	-
Furniture	5021	72.4	71.8	69.4	69.5	-	-	-	-	-	-
Home furnishings	5023	83.4	83.8	82.9	83.5	-	-	-	-	-	-
Lumber and other construction materials	503	240.9	238.7	247.2	246.8	-	197.6	195.5	202.4	201.9	-
Lumber, plywood, and millwork	5031	123.8	122.4	128.1	127.5	-	-	-	-	-	-
Construction materials, nec	5039	49.4	49.3	50.7	50.6	-	-	-	-	-	-
Professional and commercial equipment	504	787.5	788.7	790.8	788.0	-	638.2	639.5	637.2	634.8	-
Computers, peripherals and software	5045	311.4	311.8	303.1	302.2	-	-	-	-	-	-
Metals and minerals, except petroleum	505	145.2	145.0	143.1	142.2	-	115.5	115.0	113.7	112.8	-
Electrical goods	506	526.4	525.7	543.5	542.7	-	399.1	398.6	409.4	408.9	-
Electrical apparatus and equipment	5063	202.5	202.5	211.1	211.1	-	-	-	-	-	-
Electrical appliances, television and radio sets	5064	69.6	69.3	69.4	68.8	-	-	-	-	-	-
Electronic parts and equipment	5065	254.3	253.9	263.0	262.8	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	289.3	287.6	286.8	285.5	-	235.3	233.4	231.6	230.3	-
Hardware	5072	98.8	98.1	97.5	97.1	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	120.2	120.4	119.0	118.5	-	-	-	-	-	-
Machinery, equipment, and supplies	508	840.1	836.6	870.1	867.3	-	670.7	666.0	692.5	690.3	-
Construction and mining machinery	5082	86.4	86.5	88.8	88.2	-	-	-	-	-	-
Farm and garden machinery	5083	119.7	118.0	124.3	123.8	-	-	-	-	-	-
Industrial machinery and equipment	5084	356.7	356.0	367.4	366.3	-	-	-	-	-	-
Industrial supplies	5085	148.8	148.5	153.9	154.4	-	-	-	-	-	-
Misc. wholesale trade durable goods	509	308.6	307.6	305.8	305.2	-	248.8	247.1	244.3	243.3	-
Scrap and waste materials	5093	112.7	112.9	113.9	114.6	-	-	-	-	-	-
Nondurable goods	51	2,578	2,577	2,620	2,624	2,624	2,100	2,099	2,137	2,140	-
Paper and paper products	511	230.3	229.5	234.1	233.3	-	184.5	184.4	189.0	187.3	-
Drugs, proprietaries, and sundries	512	186.3	186.0	189.1	189.6	-	156.0	155.7	158.9	159.1	-
Apparel, piece goods, and notions	513	210.7	210.7	214.8	217.5	-	164.9	164.8	169.4	172.2	-
Groceries and related products	514	847.4	848.1	861.2	862.2	-	716.1	715.8	724.2	726.0	-
Groceries, general line	5141	270.8	270.2	277.4	276.2	-	-	-	-	-	-
Meats and meat products	5147	64.2	63.4	63.4	63.6	-	-	-	-	-	-
Fresh fruits and vegetables	5148	99.1	103.6	107.2	108.2	-	-	-	-	-	-
Chemicals and allied products	516	130.2	128.9	131.1	131.1	-	92.6	91.5	94.4	93.5	-
Petroleum and petroleum products	517	214.2	212.4	214.0	214.2	-	168.9	167.1	169.7	170.1	-
Petroleum bulk stations and terminals	5171	93.6	93.1	95.8	95.8	-	-	-	-	-	-
Petroleum products, nec	5172	120.6	119.3	118.2	118.4	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	152.8	150.4	156.9	157.3	-	125.7	123.3	129.1	129.8	-
Beer and ale	5181	98.7	96.5	101.2	101.2	-	-	-	-	-	-
Wine and distilled beverages	5182	54.1	53.9	55.7	56.1	-	-	-	-	-	-
Misc. wholesale trade nondurable goods	519	479.0	478.5	499.4	493.5	-	387.1	386.6	405.3	399.7	-
Farm supplies	5191	156.7	158.2	171.8	165.7	-	-	-	-	-	-
Retail trade		19,745	19,681	19,950	19,957	19,868	17,517	17,440	17,676	17,685	17,579
Building materials and garden supplies	52	805.0	793.2	818.1	811.1	-	670.1	659.3	681.3	674.1	-
Lumber and other building materials	521	455.6	448.0	455.8	452.8	-	386.8	379.9	385.0	382.1	-
Hardware stores	525	165.3	164.4	171.9	172.0	-	136.7	135.7	142.0	142.1	-
General merchandise stores	53	2,481.9	2,484.8	2,433.8	2,436.3	2,432.0	2,316.2	2,320.7	2,279.5	2,281.8	-
Department stores	531	2,051.7	2,057.2	2,015.8	2,019.4	-	1,927.1	1,934.5	1,903.1	1,907.2	-
Variety stores	533	218.4	217.4	209.9	209.0	-	201.0	199.8	192.3	190.6	-
Miscellaneous general merchandise stores	539	211.8	210.2	208.1	207.9	-	188.1	186.4	184.1	184.0	-
Food stores	54	3,210.2	3,204.2	3,314.2	3,301.5	3,288.1	2,957.0	2,947.8	3,046.7	3,036.4	-
Grocery stores	541	2,849.6	2,843.2	2,941.9	2,929.4	-	2,638.4	2,629.7	2,720.8	2,709.9	-
Meat and fish markets	542	54.7	55.4	55.5	55.2	-	-	-	-	-	-
Dairy products stores	545	28.7	28.6	26.3	26.2	-	-	-	-	-	-
Retail bakeries	546	173.6	174.1	175.8	177.0	-	156.4	156.2	155.9	157.7	-
Automotive dealers and service stations	55	2,131.7	2,124.1	2,156.1	2,160.6	2,155.0	1,784.1	1,775.6	1,799.1	1,802.1	-
New and used car dealers	551	959.6	959.0	952.8	959.2	-	799.5	798.7	791.3	796.8	-
Auto and home supply stores	553	351.9	351.2	365.7	365.3	-	283.2	282.9	294.3	293.3	-
Gasoline service stations	554	645.8	643.7	650.1	649.8	-	560.6	557.5	562.2	562.5	-
Automotive dealers, nec	559	11.4	11.5	14.7	15.2	-	9.5	9.6	12.1	12.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Retail trade—Continued											
Apparel and accessory stores	56	1,188.6	1,174.6	1,132.9	1,129.3	-	1,000.7	984.7	946.6	944.6	-
Men's and boys' clothing stores	561	107.0	105.9	99.2	99.3	-	85.9	84.5	78.9	79.2	-
Women's clothing stores	562	416.4	415.1	390.9	382.5	-	348.0	345.8	324.6	317.8	-
Family clothing stores	565	284.6	274.6	272.8	273.0	-	247.7	237.2	235.8	235.6	-
Shoe stores	566	228.8	227.5	221.8	225.4	-	190.5	188.8	182.3	186.0	-
Furniture and home furnishings stores	57	827.8	828.1	828.7	825.2	-	678.0	679.1	678.0	674.5	-
Furniture and home furnishings stores	571	471.8	470.2	473.3	471.5	-	383.4	382.4	385.2	383.7	-
Furniture stores	5712	287.9	287.6	288.5	287.9	-	-	-	-	-	-
Household appliance stores	572	85.2	85.0	76.8	76.7	-	71.4	70.6	63.3	63.1	-
Radio, television, and computer stores	573	270.8	272.9	278.6	277.0	-	223.2	226.1	229.5	227.7	-
Radio, television, and electronic stores	5731	119.2	120.2	122.8	122.6	-	99.9	101.4	103.0	103.0	-
Record and prerecorded tape stores	5735	55.7	56.2	59.3	58.7	-	47.5	48.0	50.2	49.2	-
Eating and drinking places	58	6,652.9	6,619.2	6,784.3	6,805.2	6,768.5	6,060.2	6,015.2	6,166.8	6,188.8	-
Miscellaneous retail establishments	59	2,446.5	2,453.2	2,481.4	2,487.9	-	2,050.4	2,057.6	2,078.0	2,082.3	-
Drug stores and proprietary stores	591	605.5	605.6	612.5	614.0	-	512.1	512.3	515.8	517.1	-
Liquor stores	592	122.6	121.8	124.6	123.5	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	860.9	867.1	876.9	882.0	-	717.0	723.4	730.3	733.5	-
Sporting goods and bicycle shops	5941	160.1	160.3	165.6	166.8	-	-	-	-	-	-
Book stores	5942	86.9	92.0	89.1	92.3	-	-	-	-	-	-
Stationery stores	5943	82.1	82.4	81.1	80.9	-	-	-	-	-	-
Jewelry stores	5944	152.8	154.4	154.4	154.3	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	188.7	185.4	190.9	190.8	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	60.8	61.9	62.0	62.7	-	-	-	-	-	-
Nonstore retailers	596	279.5	285.0	265.5	268.6	-	248.3	253.4	234.2	236.3	-
Catalog and mail-order houses	5961	142.3	146.8	133.9	135.5	-	-	-	-	-	-
Merchandising machine operators	5962	85.4	86.2	82.6	82.8	-	-	-	-	-	-
Fuel dealers	598	109.1	109.9	111.0	111.1	-	90.3	91.0	92.0	92.1	-
Retail stores, nec	599	405.1	399.7	421.1	417.5	-	331.0	326.3	345.9	343.1	-
Finance, insurance, and real estate³		6,821	6,764	6,936	6,933	6,853	4,962	4,907	5,054	5,049	4,972
Finance		3,334	3,311	3,371	3,371	3,338	-	-	-	-	-
Depository institutions	60	2,312.4	2,292.6	2,320.9	2,322.4	-	1,680.9	1,663.0	1,689.0	1,690.7	-
Commercial banks	602	1,570.7	1,557.3	1,575.4	1,576.8	-	1,118.7	1,106.8	1,124.6	1,125.9	-
State commercial banks	6022	674.2	667.4	678.1	678.9	-	-	-	-	-	-
Savings institutions	603	492.7	485.6	470.9	468.3	-	-	-	-	-	-
Federal savings institutions	6035	246.4	242.6	236.4	234.8	-	-	-	-	-	-
Savings institutions, except federal	6036	246.3	243.0	234.5	233.5	-	-	-	-	-	-
Credit unions	606	131.5	131.3	136.5	137.0	-	105.5	105.0	109.5	110.0	-
Nondepository institutions	61	364.5	365.3	375.3	375.2	-	262.4	262.8	272.4	272.2	-
Personal credit institutions	614	128.1	129.2	131.5	131.1	-	96.9	97.6	98.4	98.0	-
Business credit institutions	615	77.8	78.1	82.8	82.8	-	-	-	-	-	-
Mortgage bankers and brokers	616	148.9	148.3	151.7	152.0	-	-	-	-	-	-
Security and commodity brokers	62	430.2	426.9	430.3	429.0	-	-	-	-	-	-
Security brokers and dealers	621	332.2	329.6	325.1	324.1	-	-	-	-	-	-
Commodity contracts brokers, dealers, and exchanges	622,3	25.9	25.7	26.1	25.7	-	-	-	-	-	-
Security and commodity services	628	72.1	71.6	79.1	79.2	-	48.2	47.8	49.6	49.9	-
Holding and other investment offices	67	226.7	226.0	244.5	244.7	-	-	-	-	-	-
Insurance	63,64	2,116	2,105	2,158	2,157	2,145	-	-	-	-	-
Insurance carriers	63	1,458.4	1,451.3	1,493.0	1,491.5	-	974.1	966.9	1,001.3	1,001.4	-
Life insurance	631	559.0	556.1	563.3	562.3	-	339.0	337.1	343.2	341.6	-
Medical service and health insurance	632	231.8	231.4	247.4	248.0	-	187.7	185.9	200.6	201.2	-
Fire, marine, and casualty insurance	633	552.3	548.9	561.7	561.4	-	358.8	355.4	364.1	365.7	-
Title insurance	636	62.9	62.7	67.3	66.3	-	-	-	-	-	-
Insurance agents, brokers, and service	64	658.0	653.8	665.4	665.3	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Finance, insurance, and real estate—Continued											
Real estate	65	1,371	1,348	1,407	1,405	1,370	-	-	-	-	-
Real estate operators and lessors	651	574.6	563.9	606.4	605.3	-	-	-	-	-	
Real estate agents and managers	653	594.2	586.5	592.5	594.8	-	-	-	-	-	
Subdividers and developers	655	170.1	166.4	174.5	171.6	-	-	-	-	-	
Services		27,373	27,400	28,513	28,528	28,464	23,937	23,945	24,885	24,894	24,814
Hotels and other lodging places	70	1,714.0	1,646.7	1,748.6	1,750.5	-	-	-	-	-	
Hotels and motels	701	1,626.7	1,596.6	1,648.9	1,648.8	-	1,450.6	1,419.8	1,466.6	1,467.5	
Personal services	72	1,049.1	1,061.9	1,066.8	1,067.2	-	-	-	-	-	
Laundry, cleaning, and garment services	721	417.9	419.3	428.8	428.3	-	371.5	372.8	381.9	381.1	
Photographic studios, portrait	722	65.9	69.6	67.6	69.7	-	-	-	-	-	
Beauty shops	723	364.8	367.6	371.5	373.1	-	325.2	327.8	332.2	334.1	
Funeral service and crematories	726	81.7	81.1	85.1	85.4	-	-	-	-	-	
Miscellaneous personal services	729	94.4	99.8	90.1	87.1	-	80.5	84.4	77.8	74.8	
Business services	73	5,005.1	5,036.0	5,080.9	5,109.0	5,097.5	4,410.1	4,439.4	4,457.5	4,483.9	
Advertising	731	239.3	237.7	240.6	240.6	-	177.7	177.1	172.4	172.2	
Advertising agencies	7311	174.4	172.8	173.7	173.5	-	-	-	-	-	
Credit reporting and collection	732	103.8	103.4	106.5	106.0	-	-	-	-	-	
Mailing, reproduction, and stenographic services	733	227.8	231.1	252.6	255.6	-	-	-	-	-	
Services to buildings	734	805.1	802.3	796.6	798.4	-	734.6	731.2	723.6	724.4	
Personnel supply services	736	1,458.3	1,483.5	1,429.2	1,455.9	-	-	-	-	-	
Employment agencies	7361	236.8	238.1	234.2	235.0	-	-	-	-	-	
Help supply services	7363	1,221.5	1,245.4	1,195.0	1,220.9	-	1,185.3	1,209.7	1,156.1	1,181.6	
Computer and data processing services	737	756.4	755.3	806.0	809.3	-	588.7	585.9	629.1	631.6	
Prepackaged software	7372	103.3	102.6	116.6	117.9	-	-	-	-	-	
Data processing and preparation	7374	204.6	203.9	208.2	206.4	-	-	-	-	-	
Miscellaneous business services	738	1,205.6	1,212.1	1,226.0	1,221.3	-	1,067.2	1,073.1	1,084.8	1,081.7	
Detective and armored car services	7381	445.3	446.7	448.2	447.6	-	418.0	418.9	420.2	420.2	
Photofinishing laboratories	7384	81.8	85.8	81.0	81.3	-	-	-	-	-	
Auto repair, services, and parking	75	896.9	896.4	937.9	936.1	-	742.1	741.0	775.4	773.5	
Automotive rentals, without drivers	751	180.0	180.7	197.4	197.1	-	-	-	-	-	
Automotive repair shops	753	518.6	516.8	540.4	539.0	-	425.9	423.8	443.2	442.1	
Miscellaneous repair services	76	380.1	379.9	391.1	391.7	-	313.1	312.7	321.1	322.1	
Electrical repair shops	762	121.4	121.3	131.8	133.6	-	-	-	-	-	
Motion pictures	78	392.1	377.0	410.2	416.6	-	332.7	318.0	348.2	354.9	
Motion picture production and services	781	142.0	141.7	152.7	162.4	-	116.8	116.6	124.2	134.6	
Motion picture theaters	783	121.2	109.5	122.5	120.0	-	-	-	-	-	
Amusement and recreation services	79	1,177.2	1,100.2	1,253.0	1,246.0	-	1,049.0	973.3	1,109.9	1,101.7	
Misc. amusement and recreation services	799	852.4	762.4	907.9	897.9	-	763.2	673.7	809.9	799.7	
Health services	80	7,627.8	7,646.7	8,172.6	8,218.8	8,238.9	6,784.3	6,795.9	7,267.2	7,305.7	
Offices and clinics of medical doctors	801	1,303.9	1,309.6	1,425.4	1,435.3	-	1,077.6	1,080.1	1,179.3	1,185.8	
Offices and clinics of dentists	802	506.5	507.7	523.7	527.6	-	443.0	444.1	459.0	462.4	
Nursing and personal care facilities	805	1,385.4	1,385.0	1,464.0	1,475.8	-	1,252.8	1,252.2	1,322.8	1,333.1	
Skilled nursing care facilities	8051	955.4	955.6	1,009.5	1,017.6	-	-	-	-	-	
Nursing and personal care, nec	8059	232.8	232.9	245.8	248.3	-	-	-	-	-	
Hospitals	806	3,504.1	3,510.1	3,706.6	3,718.1	-	3,207.5	3,211.2	3,394.4	3,405.2	
General medical and surgical hospitals	8062	3,237.5	3,244.0	3,427.8	3,438.7	-	-	-	-	-	
Psychiatric hospitals	8063	99.4	98.9	101.5	100.9	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	167.2	167.2	177.3	178.5	-	-	-	-	-	
Medical and dental laboratories	807	165.2	165.2	181.8	181.8	-	-	-	-	-	
Home health care services	808	250.0	254.0	303.0	309.0	-	230.7	234.2	279.5	285.2	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987 SIC Code	All employees					Production workers ¹				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Services—Continued											
Legal services	81	909.9	894.0	955.0	948.4	-	754.3	737.6	790.1	783.6	-
Educational services	82	1,443.6	1,648.2	1,471.4	1,462.0	-	-	-	-	-	-
Elementary and secondary schools	821	402.5	446.5	415.9	412.8	-	-	-	-	-	-
Colleges and universities	822	830.9	997.6	844.9	838.3	-	-	-	-	-	-
Vocational schools	824	94.4	96.0	88.1	88.6	-	-	-	-	-	-
Social services	83	1,694.7	1,723.4	1,819.9	1,817.6	-	-	-	-	-	-
Individual and family services	832	438.2	431.3	462.9	460.2	-	-	-	-	-	-
Job training and related services	833	255.2	237.0	263.8	259.9	-	-	-	-	-	-
Residential care	836	433.5	433.2	482.4	486.9	-	-	-	-	-	-
Museums and botanical and zoological gardens	84	67.1	63.0	68.4	67.4	-	-	-	-	-	-
Membership organizations	86	1,855.9	1,804.1	1,905.3	1,875.4	-	-	-	-	-	-
Business associations	861	104.2	101.2	103.6	103.3	-	-	-	-	-	-
Labor organizations	863	131.1	133.7	133.4	133.4	-	-	-	-	-	-
Civic and social associations	864	445.1	399.0	478.3	449.0	-	-	-	-	-	-
Engineering and management services	87	2,401.0	2,383.4	2,456.1	2,457.8	-	1,845.4	1,824.6	1,870.6	1,872.9	-
Engineering and architectural services	871	790.6	780.2	811.3	810.2	-	652.5	641.9	666.7	666.1	-
Accounting, auditing, and bookkeeping	872	519.4	517.7	525.6	527.0	-	393.2	388.1	390.4	391.4	-
Research and testing services	873	532.2	527.7	553.3	552.7	-	395.2	389.9	400.7	400.7	-
Commercial physical research	8731	223.6	222.1	230.4	229.5	-	-	-	-	-	-
Noncommercial research organizations	8733	145.3	143.5	150.9	151.0	-	-	-	-	-	-
Management and public relations	874	558.8	557.8	565.9	567.9	-	404.5	404.7	412.8	414.7	-
Services, nec	89	36.4	39.6	39.3	39.1	-	27.9	31.1	31.3	31.0	-
Government		16,730	17,612	17,469	17,209	18,042	-	-	-	-	-
Federal Government⁴		3,011	2,978	3,200	3,064	2,998	-	-	-	-	-
Executive, by agency ⁴		2,951.1	2,918.3	3,137.6	-	-	-	-	-	-	-
Department of Defense		983.3	975.0	960.2	-	-	-	-	-	-	-
Postal Service ⁵		829.2	822.7	822.3	-	-	-	-	-	-	-
Other executive agencies		1,138.6	1,120.6	1,355.1	-	-	-	-	-	-	-
Legislative		38.3	37.6	39.4	-	-	-	-	-	-	-
Judicial		21.6	21.7	23.1	-	-	-	-	-	-	-
Federal Government, by industry											
Manufacturing activities		112.9	112.2	108.5	108.1	-	-	-	-	-	-
Ship building and repairing	3731	70.3	69.6	66.8	66.5	-	-	-	-	-	-
Transportation and public utilities, except Postal											
Service		37.1	37.7	37.2	38.7	-	-	-	-	-	-
Services		394.2	397.3	393.8	397.7	-	-	-	-	-	-
Hospitals	806	226.3	226.3	228.5	228.9	-	-	-	-	-	-
State government		3,963	4,149	4,070	4,084	4,233	-	-	-	-	-
Hospitals	806	450.0	449.8	455.4	454.8	-	-	-	-	-	-
Education	82	1,385.0	1,610.2	1,422.7	1,437.4	-	-	-	-	-	-
General administration, including executive, legislative,											
and judicial functions		1,589.2	1,567.8	1,647.5	1,645.1	-	-	-	-	-	-
Local government		9,756	10,485	10,199	10,061	10,811	-	-	-	-	-
Transportation and public utilities		495.3	490.4	493.8	495.9	-	-	-	-	-	-
Hospitals	806	641.8	647.0	678.8	678.6	-	-	-	-	-	-
Education	82	4,768.2	5,716.0	4,976.8	4,903.2	-	-	-	-	-	-
General administration, including executive, legislative,											
and judicial functions		3,467.6	3,279.0	3,597.4	3,563.6	-	-	-	-	-	-

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

² 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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	June 1989	July 1989	May 1990	June 1990	July 1990
Total	51,126	50,223	52,566	52,716	51,748
Total private	41,892	41,753	42,537	42,887	42,735
Goods-producing	7,102	7,032	6,952	7,008	6,931
Mining	97	97	98	100	101
Construction	558	563	567	573	576
Manufacturing	6,447	6,372	6,287	6,335	6,254
Durable goods	3,077	3,035	2,998	3,013	2,970
Lumber and wood products	125	123	121	123	122
Furniture and fixtures	164	162	160	161	156
Stone, clay, and glass products	112	111	109	110	108
Primary metal industries	106	104	103	104	103
Fabricated metal products	327	320	315	316	311
Industrial machinery and equipment	471	468	461	461	458
Electronic and other electrical equipment	755	746	728	730	719
Transportation equipment	410	404	409	412	408
Instruments and related products	425	423	414	416	411
Miscellaneous manufacturing	182	176	180	181	175
Nondurable goods	3,370	3,337	3,289	3,322	3,284
Food and kindred products	531	558	514	529	551
Tobacco products	15	15	14	14	14
Textile mill products	355	348	341	344	337
Apparel and other textile products	865	827	818	820	780
Paper and allied products	173	174	172	176	175
Printing and publishing	690	688	697	700	697
Chemicals and allied products	322	320	326	331	332
Petroleum and coal products	26	26	26	26	27
Rubber and misc. plastics products	313	305	306	308	302
Leather and leather products	81	76	75	76	71
Service-producing	44,024	43,191	45,614	45,708	44,817
Transportation and public utilities	1,646	1,625	1,709	1,723	1,694
Wholesale trade	1,922	1,922	1,945	1,963	1,956
Retail trade	10,482	10,443	10,447	10,557	10,518
Finance, insurance, and real estate	4,242	4,255	4,304	4,344	4,357
Services	16,498	16,476	17,180	17,292	17,279
Government	9,234	8,470	10,029	9,829	9,013
Federal	1,107	1,124	1,365	1,373	1,352
State	2,002	1,946	2,148	2,066	2,003
Local	6,125	5,400	6,516	6,390	5,658

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total	108,868	108,980	109,245	109,383	109,654	109,958	110,122	110,177	110,617	110,829	110,740	110,657	110,556
Total private	90,985	91,096	91,344	91,456	91,656	91,917	91,963	91,922	92,120	92,282	92,300	92,307	92,240
Goods-producing	25,304	25,283	25,280	25,218	25,188	25,339	25,259	25,180	25,191	25,162	25,105	25,013	24,929
Mining	709	710	716	718	723	727	729	734	738	744	745	736	738
Oil and gas extraction	389	390	394	396	398	402	403	405	408	413	413	410	411
Construction	5,225	5,239	5,258	5,216	5,294	5,368	5,313	5,256	5,286	5,270	5,229	5,194	5,174
General building contractors	1,343	1,338	1,339	1,335	1,361	1,368	1,351	1,338	1,334	1,334	1,319	1,306	1,308
Manufacturing	19,370	19,334	19,306	19,284	19,171	19,244	19,217	19,190	19,167	19,148	19,131	19,083	19,017
Durable goods	11,369	11,337	11,314	11,296	11,192	11,278	11,261	11,229	11,217	11,201	11,179	11,130	11,072
Lumber and wood products	750	753	752	753	753	751	751	750	748	743	742	739	737
Furniture and fixtures	524	521	521	519	519	518	518	516	516	515	511	514	509
Stone, clay, and glass products	563	566	567	566	567	568	565	560	559	556	552	551	546
Primary metal industries	767	764	760	759	754	756	754	755	755	756	759	755	751
Blast furnaces and basic steel products	276	274	272	273	272	272	270	271	271	270	271	271	270
Fabricated metal products	1,438	1,433	1,429	1,426	1,412	1,418	1,418	1,419	1,417	1,415	1,419	1,420	1,413
Industrial machinery and equipment	2,132	2,125	2,129	2,130	2,132	2,126	2,119	2,112	2,112	2,108	2,104	2,096	2,083
Electronic and other electrical equipment	1,743	1,737	1,732	1,722	1,722	1,720	1,718	1,713	1,711	1,703	1,695	1,685	1,672
Transportation equipment	2,041	2,031	2,023	2,024	1,933	2,023	2,022	2,014	2,010	2,021	2,015	1,997	1,983
Motor vehicles and equipment	843	833	826	828	736	828	825	820	817	826	824	814	805
Instruments and related products	1,023	1,021	1,018	1,011	1,011	1,009	1,008	1,005	1,002	1,000	996	990	994
Miscellaneous manufacturing	388	386	383	386	389	389	388	385	387	384	386	383	384
Nondurable goods	8,001	7,997	7,992	7,988	7,979	7,966	7,956	7,961	7,950	7,947	7,952	7,953	7,945
Food and kindred products	1,653	1,651	1,651	1,650	1,651	1,650	1,648	1,651	1,650	1,643	1,645	1,650	1,649
Tobacco products	48	48	48	47	47	46	46	46	46	47	46	47	47
Textile mill products	720	721	718	716	715	711	709	708	703	702	702	701	697
Apparel and other textile products	1,070	1,066	1,064	1,061	1,053	1,045	1,037	1,036	1,031	1,029	1,027	1,025	1,025
Paper and allied products	697	697	697	698	697	699	698	699	698	699	701	702	701
Printing and publishing	1,566	1,567	1,571	1,573	1,576	1,576	1,578	1,579	1,581	1,582	1,583	1,583	1,581
Chemicals and allied products	1,075	1,076	1,077	1,081	1,081	1,083	1,083	1,084	1,085	1,086	1,088	1,087	1,089
Petroleum and coal products	157	158	158	157	158	159	159	159	159	160	160	161	162
Rubber and misc. plastics products	880	878	875	873	869	865	867	869	868	871	874	873	870
Leather and leather products	135	135	133	132	132	131	131	130	129	128	126	124	124
Service-producing	83,564	83,697	83,965	84,165	84,466	84,619	84,863	84,997	85,426	85,667	85,635	85,644	85,627
Transportation and public utilities	5,656	5,671	5,693	5,776	5,790	5,804	5,808	5,809	5,833	5,846	5,841	5,845	5,859
Transportation	3,483	3,500	3,523	3,548	3,568	3,583	3,589	3,588	3,613	3,627	3,625	3,630	3,644
Communications and public utilities	2,173	2,171	2,170	2,228	2,222	2,221	2,219	2,221	2,220	2,219	2,216	2,215	2,215
Wholesale trade	6,303	6,313	6,335	6,344	6,356	6,357	6,361	6,363	6,369	6,383	6,374	6,375	6,374
Durable goods	3,742	3,744	3,760	3,767	3,773	3,775	3,775	3,771	3,770	3,779	3,775	3,769	3,766
Nondurable goods	2,561	2,569	2,575	2,577	2,583	2,582	2,586	2,592	2,599	2,604	2,599	2,606	2,608
Retail trade	19,634	19,665	19,714	19,710	19,807	19,758	19,764	19,778	19,795	19,822	19,851	19,838	19,828
General merchandise stores	2,534	2,527	2,542	2,519	2,529	2,505	2,495	2,493	2,487	2,496	2,494	2,491	2,482
Food stores	3,211	3,230	3,240	3,247	3,263	3,268	3,272	3,287	3,295	3,302	3,304	3,298	3,295
Automotive dealers and service stations	2,109	2,115	2,116	2,113	2,117	2,118	2,120	2,118	2,121	2,120	2,131	2,135	2,140
Eating and drinking places	6,476	6,491	6,511	6,523	6,538	6,556	6,563	6,573	6,583	6,598	6,619	6,613	6,623
Finance, insurance, and real estate	6,753	6,756	6,774	6,785	6,794	6,817	6,821	6,823	6,838	6,844	6,842	6,850	6,843
Finance	3,317	3,320	3,327	3,329	3,327	3,340	3,333	3,336	3,338	3,344	3,341	3,348	3,345
Insurance	2,111	2,109	2,114	2,119	2,124	2,128	2,135	2,135	2,139	2,143	2,147	2,151	2,151
Real estate	1,325	1,327	1,333	1,337	1,343	1,349	1,353	1,352	1,361	1,357	1,354	1,351	1,347
Services	27,335	27,408	27,548	27,623	27,721	27,842	27,950	27,969	28,094	28,225	28,287	28,386	28,407
Business services	4,980	4,970	4,990	4,986	4,993	5,010	5,021	5,026	5,048	5,060	5,051	5,053	5,037
Health services	7,648	7,690	7,743	7,789	7,837	7,889	7,936	7,984	8,040	8,096	8,132	8,194	8,239
Government	17,883	17,884	17,901	17,927	17,998	18,041	18,159	18,255	18,497	18,547	18,440	18,350	18,316
Federal	2,992	2,986	2,982	2,977	3,000	3,005	3,089	3,151	3,346	3,338	3,164	3,049	3,010
State	4,215	4,202	4,212	4,206	4,225	4,239	4,249	4,252	4,262	4,296	4,298	4,317	4,297
Local	10,676	10,696	10,707	10,744	10,773	10,797	10,821	10,852	10,889	10,913	10,978	10,984	11,009

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark

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

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989						1990						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total	51,045	51,152	51,279	51,323	51,481	51,607	51,711	51,844	51,968	52,082	52,295	52,507	52,597
Total private	41,771	41,808	41,929	41,963	42,099	42,196	42,249	42,347	42,405	42,459	42,538	42,697	42,750
Goods-producing	7,068	7,068	7,049	7,040	7,027	7,025	7,001	7,003	6,988	6,983	6,974	6,969	6,964
Mining	95	96	96	95	95	95	96	97	98	98	98	99	99
Construction	551	554	553	557	557	558	562	564	563	563	566	565	564
Manufacturing	6,422	6,418	6,400	6,388	6,375	6,372	6,343	6,342	6,327	6,322	6,310	6,305	6,301
Durable goods	3,061	3,058	3,046	3,037	3,028	3,028	3,009	3,017	3,013	3,006	3,001	2,999	2,995
Lumber and wood products	122	121	120	121	120	120	120	120	120	120	120	120	121
Furniture and fixtures	165	163	163	162	162	162	161	161	161	160	160	161	159
Stone, clay, and glass products	110	110	110	110	110	110	110	110	110	109	109	108	107
Primary metal industries	105	105	104	104	103	103	102	102	103	103	103	103	104
Fabricated metal products	325	323	322	320	318	317	314	315	315	315	314	314	315
Industrial machinery and equipment	469	468	467	465	465	466	466	466	466	463	462	460	459
Electronic and other electrical equipment	752	752	749	746	743	740	738	736	735	733	732	729	726
Transportation equipment	407	410	407	407	408	411	398	408	408	408	408	411	411
Instruments and related products	425	424	422	421	420	418	418	417	417	416	415	415	413
Miscellaneous manufacturing	181	182	182	181	179	181	182	182	181	180	180	179	180
Nondurable goods	3,361	3,360	3,354	3,351	3,347	3,344	3,334	3,325	3,314	3,316	3,309	3,306	3,306
Food and kindred products	542	540	544	541	540	539	539	537	537	538	537	532	534
Tobacco products	16	16	16	16	16	16	16	16	16	15	15	16	16
Textile mill products	352	352	351	351	350	348	347	346	344	343	341	341	341
Apparel and other textile products	857	855	850	847	844	843	836	827	818	818	814	813	808
Paper and allied products	173	173	171	172	172	172	172	173	173	173	173	173	174
Printing and publishing	689	690	688	690	692	693	694	694	695	696	696	697	698
Chemicals and allied products	318	319	319	320	321	323	324	326	326	327	327	327	329
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	310	311	310	309	308	306	303	303	303	304	305	306	307
Leather and leather products	79	79	79	79	78	78	77	77	76	76	75	75	73
Service-producing	43,977	44,084	44,230	44,283	44,454	44,582	44,710	44,841	44,980	45,099	45,321	45,538	45,633
Transportation and public utilities	1,642	1,580	1,630	1,635	1,642	1,677	1,680	1,687	1,690	1,692	1,702	1,713	1,711
Wholesale trade	1,923	1,928	1,931	1,933	1,943	1,946	1,949	1,947	1,950	1,949	1,950	1,957	1,956
Retail trade	10,441	10,468	10,469	10,469	10,489	10,474	10,497	10,484	10,474	10,483	10,482	10,504	10,518
Finance, insurance, and real estate	4,220	4,232	4,244	4,246	4,257	4,267	4,278	4,287	4,295	4,303	4,309	4,314	4,322
Services	16,477	16,532	16,606	16,640	16,741	16,807	16,844	16,939	17,008	17,049	17,121	17,240	17,279
Government	9,274	9,344	9,350	9,360	9,382	9,411	9,462	9,497	9,563	9,623	9,757	9,810	9,847
Federal	1,109	1,119	1,127	1,139	1,150	1,161	1,181	1,189	1,234	1,269	1,366	1,362	1,335
State	2,074	2,075	2,085	2,077	2,082	2,075	2,088	2,097	2,104	2,107	2,115	2,134	2,133
Local	6,091	6,150	6,138	6,144	6,150	6,175	6,193	6,211	6,225	6,247	6,276	6,314	6,379

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 reflect the 1987 Standard Industrial

Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^p	Sept. ^p
Total private	73,746	73,838	74,045	74,115	74,300	74,512	74,545	74,496	74,651	74,827	74,799	74,771	74,686
Goods-producing	17,786	17,764	17,759	17,696	17,662	17,810	17,742	17,667	17,673	17,651	17,613	17,525	17,445
Mining	505	507	512	514	518	521	523	527	530	537	537	528	530
Construction	4,077	4,086	4,103	4,058	4,135	4,205	4,158	4,094	4,120	4,107	4,066	4,030	4,004
Manufacturing	13,204	13,171	13,144	13,124	13,009	13,084	13,061	13,046	13,023	13,007	13,010	12,967	12,911
Durable goods	7,567	7,541	7,519	7,506	7,400	7,488	7,479	7,461	7,450	7,439	7,438	7,396	7,347
Lumber and wood products	620	622	621	621	622	620	620	619	617	612	610	607	606
Furniture and fixtures	417	415	414	412	412	411	411	409	408	408	404	406	402
Stone, clay, and glass products	440	442	443	442	443	444	440	436	434	432	429	428	425
Primary metal industries	584	581	578	576	572	575	573	574	574	574	577	573	570
Blast furnaces and basic steel products	212	211	209	210	209	208	207	208	208	207	208	207	206
Fabricated metal products	1,063	1,059	1,055	1,052	1,039	1,044	1,044	1,047	1,045	1,043	1,047	1,046	1,041
Industrial machinery and equipment	1,285	1,277	1,282	1,282	1,284	1,280	1,276	1,274	1,274	1,270	1,271	1,261	1,248
Electronic and other electrical equipment	1,104	1,101	1,096	1,090	1,086	1,083	1,084	1,082	1,080	1,078	1,073	1,067	1,059
Transportation equipment	1,266	1,257	1,248	1,250	1,154	1,244	1,246	1,239	1,238	1,250	1,253	1,240	1,227
Motor vehicles and equipment	649	639	632	635	543	634	632	628	626	634	633	622	614
Instruments and related products	506	505	502	499	503	503	503	502	499	495	493	490	490
Miscellaneous manufacturing	282	282	280	282	285	284	282	279	281	277	281	278	279
Nondurable goods	5,637	5,630	5,625	5,618	5,609	5,596	5,582	5,585	5,573	5,568	5,572	5,571	5,564
Food and kindred products	1,183	1,184	1,183	1,182	1,185	1,183	1,183	1,188	1,187	1,179	1,182	1,186	1,187
Tobacco products	36	36	36	35	35	35	35	33	34	34	34	35	34
Textile mill products	622	622	619	617	615	612	609	609	604	603	602	602	599
Apparel and other textile products	903	898	896	894	886	879	870	869	865	863	860	859	858
Paper and allied products	522	522	522	523	524	525	524	525	523	525	526	527	528
Printing and publishing	867	867	870	873	875	876	876	875	876	877	880	880	878
Chemicals and allied products	604	605	605	605	604	603	601	601	601	600	602	598	600
Petroleum and coal products	103	103	104	103	103	104	105	104	104	105	105	105	105
Rubber and misc. plastics products	685	682	679	677	673	670	670	673	672	676	677	677	674
Leather and leather products	112	111	111	109	109	109	109	108	107	106	104	102	101
Service-producing	55,960	56,074	56,286	56,419	56,638	56,702	56,803	56,829	56,978	57,176	57,186	57,246	57,241
Transportation and public utilities	4,700	4,718	4,737	4,801	4,821	4,826	4,833	4,831	4,848	4,866	4,852	4,853	4,861
Wholesale trade	5,071	5,081	5,094	5,099	5,116	5,111	5,111	5,109	5,106	5,130	5,118	5,116	5,110
Retail trade	17,402	17,425	17,475	17,465	17,550	17,497	17,506	17,517	17,533	17,563	17,588	17,562	17,544
Finance, insurance, and real estate	4,897	4,901	4,914	4,923	4,938	4,958	4,960	4,961	4,970	4,970	4,965	4,969	4,962
Services	23,890	23,949	24,066	24,131	24,213	24,310	24,393	24,411	24,521	24,647	24,663	24,746	24,764

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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

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

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Private nonfarm payrolls, 356 industries ¹												
Over 1-month span:												
1989	64.5	58.7	58.0	57.0	55.6	57.3	55.8	57.7	50.0	55.2	59.6	56.6
1990	55.6	58.6	53.7	49.9	55.8	49.9	50.8	^P 47.3	^P 44.0			
Over 3-month span:												
1989	65.3	64.2	60.0	60.1	59.7	58.3	59.7	54.5	55.2	55.8	57.7	60.3
1990	58.4	56.7	54.8	53.1	53.7	55.3	^P 51.1	^P 45.4				
Over 6-month span:												
1989	67.6	65.4	65.0	61.0	61.2	58.7	57.0	58.1	56.2	58.3	57.4	58.4
1990	57.3	56.5	55.5	55.9	^P 52.0	^P 48.6						
Over 12-month span:												
1989	67.1	67.7	65.3	64.6	64.9	61.2	60.0	59.8	58.6	57.3	56.7	56.0
1990	54.8	^P 53.8	^P 52.9									
Manufacturing payrolls, 139 industries ¹												
Over 1-month span:												
1989	60.4	48.6	50.4	47.1	45.3	45.7	45.0	45.7	34.2	48.6	43.5	48.2
1990	42.4	45.7	45.3	46.8	45.7	40.3	48.2	^P 41.0	^P 35.6			
Over 3-month span:												
1989	54.0	54.7	45.3	43.9	43.2	42.8	41.7	33.1	36.3	34.9	41.7	39.2
1990	40.3	37.1	44.2	41.4	40.6	44.2	^P 40.6	^P 32.7				
Over 6-month span:												
1989	56.5	49.6	49.3	43.5	42.1	37.1	36.7	34.9	34.2	35.3	33.1	36.0
1990	37.1	35.6	36.3	43.2	^P 38.8	^P 32.7						
Over 12-month span:												
1989	53.6	55.0	49.3	45.3	43.9	39.9	37.1	35.6	33.8	32.4	30.9	31.7
1990	31.3	^P 30.9	^P 30.2									

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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1989) and all seasonally adjusted data (beginning January 1986) are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Alabama	1,590.9	1,603.1	1,596.1	11.5	12.1	12.1	77.5	78.6	79.0
Birmingham	411.1	418.0	415.5	5.6	5.6	5.6	23.2	23.1	23.0
Huntsville	132.5	135.1	134.8	(¹)	(¹)	(¹)	5.2	5.3	5.3
Mobile	169.3	174.1	172.4	(¹)	(¹)	(¹)	10.6	10.6	10.7
Montgomery	132.5	135.2	134.3	(¹)	(¹)	(¹)	7.0	7.2	7.2
Tuscaloosa	62.3	63.6	64.4	2.6	2.6	2.6	3.7	4.3	4.4
Alaska	249.1	251.9	251.0	10.6	11.7	11.9	12.7	13.2	13.4
Arizona	1,421.4	1,468.9	1,474.6	12.3	12.3	12.8	87.9	84.9	85.9
Phoenix	939.9	976.3	975.9	1.0	.9	.9	58.7	56.4	57.2
Tucson	242.8	246.2	249.0	2.1	2.3	2.2	15.3	14.6	14.7
Arkansas	894.9	914.5	918.5	4.2	4.2	4.2	35.1	35.5	34.9
Fayetteville-Springdale	53.3	54.6	54.7	(¹)	(¹)	(¹)	1.7	1.7	1.7
Fort Smith	78.9	80.6	80.0	1.0	1.1	1.0	2.8	2.6	2.6
Little Rock-North Little Rock	245.9	247.0	248.5	.4	.4	.4	10.3	10.8	10.8
Pine Bluff	33.5	32.8	32.8	(¹)	(¹)	(¹)	1.5	1.4	1.3
California	12,432.1	12,772.2	12,755.9	42.2	42.2	41.7	666.3	665.0	665.2
Anaheim-Santa Ana	1,192.4	1,220.7	1,216.8	1.4	1.3	1.3	75.6	71.0	69.1
Bakersfield	164.9	168.2	167.8	13.7	14.5	14.4	10.9	11.3	10.9
Fresno	218.8	231.4	233.9	.7	.7	.7	13.6	14.8	14.9
Los Angeles-Long Beach	4,186.8	4,283.6	4,272.1	9.4	9.9	9.9	156.1	156.8	155.7
Modesto	120.7	122.6	125.3	.1	.1	.1	8.3	9.1	8.8
Oakland	876.8	916.3	918.0	4.1	4.3	4.2	54.8	56.4	57.0
Oxnard-Ventura	227.4	233.1	233.5	2.5	2.4	2.5	17.9	18.3	18.7
Riverside-San Bernardino	673.7	712.7	706.4	1.4	1.4	1.4	68.5	70.3	71.1
Sacramento	595.4	620.4	622.9	.8	.8	.9	37.9	38.8	39.5
San Diego	960.9	991.4	990.8	.8	.6	.8	64.7	64.8	64.6
San Francisco	954.1	972.4	969.6	.6	.6	.6	35.4	35.2	35.9
San Jose	831.7	834.9	834.4	.2	.2	.2	34.5	34.5	35.0
Santa Barbara-Santa Maria-Lompoc	147.0	150.3	149.6	1.4	1.4	1.4	7.0	7.1	7.1
Santa Rosa-Petaluma	134.6	140.9	142.1	.7	.7	.7	11.8	11.4	11.5
Stockton	155.2	156.7	159.2	.1	.1	.1	9.4	9.2	9.4
Vallejo-Fairfield-Napa	134.8	142.0	140.5	.6	.7	.7	10.5	11.6	11.5
Colorado	1,469.8	1,499.7	1,501.5	19.9	19.6	19.6	64.1	62.9	63.2
Boulder-Longmont	112.3	114.7	113.7	(¹)	(¹)	(¹)	4.2	4.3	4.2
Denver	818.3	835.0	836.6	11.7	11.4	11.4	33.0	35.9	36.6
Connecticut	1,671.0	1,667.9	1,661.3	1.4	1.3	1.3	82.5	73.2	73.8
Bridgeport-Milford	196.0	193.1	192.7	(²)	(²)	(²)	9.1	8.6	8.6
Hartford	482.2	485.2	481.8	(¹)	(¹)	(¹)	22.3	19.8	20.0
New Britain	65.9	65.8	65.3	(²)	(²)	(²)	5.7	4.6	4.6
New Haven-Meriden	255.2	251.2	248.6	(¹)	(¹)	(¹)	13.8	11.2	11.1
Stamford	125.9	124.4	123.6	(¹)	(¹)	(¹)	5.7	5.2	5.2
Waterbury	87.6	83.8	85.3	(²)	(²)	(²)	4.6	4.4	4.5
Delaware	347.8	350.0	351.6	.1	.1	.1	21.0	20.3	19.9
Wilmington	294.6	297.3	299.5	.2	.2	.2	19.3	18.4	18.4
District of Columbia	688.5	697.0	681.5	.1	.1	.1	14.6	13.8	14.2
Washington MSA	2,239.3	2,263.5	2,240.6	1.1	1.1	1.1	154.1	142.4	142.4
Florida	5,203.4	5,426.3	5,412.7	9.4	9.3	9.3	343.3	330.5	327.2
Daytona Beach	120.4	122.3	121.8	(²)	(²)	(²)	8.2	7.6	7.7
Fort Lauderdale-Hollywood-Pompano Beach	495.4	509.2	509.2	.3	.3	.2	35.2	34.4	35.0
Fort Myers-Cape Coral	121.9	131.5	130.8	(²)	(²)	(²)	13.6	12.6	12.5
Gainesville	97.7	99.5	100.1	(²)	(²)	(²)	4.6	4.3	4.3
Jacksonville	413.7	423.7	421.7	.7	.7	.7	27.2	27.1	26.9
Lakeland-Winter Haven	152.4	155.8	155.0	4.1	3.9	3.8	9.1	8.5	8.5
Melbourne-Titusville-Palm Bay	159.6	164.5	163.3	(²)	(²)	(²)	9.8	9.1	8.8
Miami-Hialeah	863.5	890.7	890.3	.9	.9	.9	40.6	40.4	40.5
Orlando	538.5	558.9	555.7	(²)	(²)	(²)	36.9	36.9	37.1
Pensacola	126.8	128.2	128.5	.4	.4	.4	8.4	8.2	8.2
Sarasota	111.4	113.9	114.0	(²)	(²)	(²)	10.3	10.2	10.1
Tallahassee	118.0	122.8	121.9	(²)	(²)	(²)	6.0	6.2	6.1
Tampa-St. Petersburg-Clearwater	853.7	876.6	876.3	.6	.7	.7	54.3	55.0	54.9
West Palm Beach-Boca Raton-Delray Beach	346.7	357.5	357.8	(²)	(²)	(²)	29.2	27.4	27.4

See footnotes at end of table.

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

B-8. Employees on nonfarm 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. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
Alabama	386.0	380.0	383.1	80.3	80.8	80.9	350.0	349.7	349.9
Birmingham	57.3	56.8	56.9	32.4	32.5	32.5	101.8	102.0	102.1
Huntsville	33.3	33.9	33.9	2.9	2.9	2.9	25.2	25.7	25.6
Mobile	26.8	27.9	27.9	9.9	9.7	9.7	46.1	47.2	47.1
Montgomery	18.6	18.2	18.1	5.3	5.2	5.2	30.4	30.8	30.8
Tuscaloosa	10.6	10.7	10.7	2.0	2.2	2.2	12.8	13.0	13.0
Alaska	23.5	25.8	23.6	26.4	21.0	21.1	47.3	48.7	48.9
Arizona	187.8	188.9	188.9	77.1	80.3	80.5	360.2	372.2	372.8
Phoenix	139.7	140.1	139.5	53.9	56.5	56.7	241.5	250.7	250.8
Tucson	27.2	27.2	27.0	9.6	9.7	9.7	57.9	58.6	58.8
Arkansas	232.2	233.4	234.7	55.0	55.3	55.2	208.3	214.3	215.2
Fayetteville-Springdale	13.4	13.6	13.6	5.0	5.0	4.9	12.2	12.6	12.6
Fort Smith	25.2	26.7	26.3	4.2	4.3	4.3	16.9	16.5	16.4
Little Rock-North Little Rock	34.0	32.8	33.3	16.5	16.0	16.0	60.8	61.7	62.1
Pine Bluff	6.6	6.3	6.3	2.7	2.7	2.7	7.4	7.4	7.4
California	2,178.9	2,136.8	2,147.7	566.2	614.2	613.6	2,969.7	3,030.3	3,036.2
Anaheim-Santa Ana	259.1	258.0	257.1	30.8	36.1	36.1	304.7	310.8	311.0
Bakersfield	10.6	10.9	10.8	8.1	8.4	8.5	40.0	40.0	40.0
Fresno	26.4	26.1	27.0	11.7	12.6	12.7	56.5	59.7	59.8
Los Angeles-Long Beach	887.4	867.8	866.6	203.9	216.2	216.5	963.1	978.4	980.4
Modesto	31.1	28.7	31.6	4.5	4.9	5.0	29.8	30.3	30.5
Oakland	116.3	117.4	118.1	51.6	62.6	62.9	217.6	225.2	225.5
Oxnard-Ventura	31.4	30.7	30.5	11.4	11.4	11.3	56.7	58.7	58.8
Riverside-San Bernardino	89.4	90.0	90.2	32.5	34.0	33.8	167.2	174.9	174.9
Sacramento	46.1	47.0	48.9	23.9	28.0	27.6	142.1	144.7	146.0
San Diego	136.2	135.0	134.2	32.5	36.7	36.6	237.1	242.6	242.8
San Francisco	81.6	81.1	81.3	73.1	79.6	79.8	219.5	218.4	218.7
San Jose	274.9	269.1	270.1	19.9	22.5	22.6	170.5	170.3	169.3
Santa Barbara-Santa Maria-Lompoc	22.5	22.6	22.3	5.3	5.4	5.4	34.4	34.9	34.9
Santa Rosa-Petaluma	21.8	21.2	21.7	6.0	6.8	6.8	35.1	37.5	37.9
Stockton	27.5	26.6	28.8	8.7	9.2	9.1	36.1	36.6	36.5
Vallejo-Fairfield-Napa	13.8	13.8	14.2	4.4	5.3	5.3	33.1	34.9	35.0
Colorado	194.4	196.0	195.9	93.2	93.7	93.8	362.6	371.4	373.0
Boulder-Longmont	31.0	30.6	30.4	2.4	2.4	2.4	23.9	24.3	24.3
Denver	96.1	97.3	96.8	67.7	68.3	68.7	201.3	204.7	205.9
Connecticut	350.8	345.1	344.3	70.8	70.0	69.8	384.6	380.0	379.7
Bridgeport-Milford	52.1	49.2	49.6	8.4	8.6	8.7	45.3	44.3	44.0
Hartford	81.8	86.0	84.6	18.2	18.7	18.7	104.4	100.8	100.1
New Britain	18.7	18.4	18.1	2.9	3.5	3.4	13.9	13.8	13.8
New Haven-Meriden	45.6	44.2	43.4	16.4	16.3	16.3	59.1	57.1	56.3
Stamford	21.0	19.2	18.8	5.8	6.0	6.0	29.8	29.6	29.9
Waterbury	22.3	19.0	20.5	3.3	3.3	3.3	17.6	16.8	17.0
Delaware	73.7	69.9	72.2	13.1	14.8	14.8	77.4	77.2	77.3
Wilmington	63.0	59.0	61.6	14.4	16.6	16.3	61.6	62.0	61.9
District of Columbia	16.0	16.2	16.1	22.2	24.9	24.8	62.6	62.6	61.8
Washington MSA	89.5	89.4	89.0	106.1	112.7	112.2	438.6	444.9	444.1
Florida	538.0	533.8	532.4	266.5	279.1	278.5	1,423.8	1,474.5	1,469.5
Daytona Beach	12.2	12.1	12.3	4.0	4.1	4.1	36.1	36.6	36.3
Fort Lauderdale-Hollywood-Pompano Beach	45.9	45.3	46.1	22.6	23.6	23.5	146.3	151.1	150.7
Fort Myers-Cape Coral	6.1	6.3	6.2	5.2	5.8	5.7	36.3	39.5	39.1
Gainesville	5.7	5.4	5.4	1.8	1.9	1.9	21.6	21.7	22.1
Jacksonville	38.7	38.5	38.0	28.6	29.1	28.8	111.6	113.9	113.6
Lakeland-Winter Haven	22.8	22.3	22.4	6.9	7.3	7.2	42.5	43.8	43.9
Melbourne-Titusville-Palm Bay	29.5	30.4	30.2	4.2	4.4	4.4	37.2	38.4	38.2
Miami-Hialeah	90.9	90.8	90.9	68.6	73.1	73.0	236.5	243.3	243.0
Orlando	54.6	53.4	53.1	27.7	29.1	29.0	143.0	146.4	146.2
Pensacola	11.4	11.1	11.2	6.6	6.5	6.5	33.1	33.6	33.5
Sarasota	8.6	8.6	8.6	3.5	3.6	3.6	32.9	32.8	32.8
Tallahassee	4.9	4.9	4.8	3.0	3.1	3.1	26.5	27.3	27.3
Tampa-St. Petersburg-Clearwater	96.0	95.2	95.7	40.9	42.1	42.1	237.9	244.9	243.5
West Palm Beach-Boca Raton-Delray Beach	34.2	33.4	34.1	13.7	14.3	14.4	92.1	95.6	95.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Alabama	71.1	71.8	71.9	304.0	307.9	308.2	310.5	322.2	311.0
Birmingham	29.1	29.0	29.0	98.4	101.5	101.6	63.3	67.5	64.8
Huntsville	3.9	3.9	3.9	31.9	32.6	32.7	30.1	30.8	30.5
Mobile	7.6	7.3	7.4	40.5	41.4	41.3	27.8	30.0	28.3
Montgomery	7.7	7.8	7.8	30.6	31.3	31.4	32.9	34.7	33.8
Tuscaloosa	2.1	2.2	2.2	9.3	9.8	10.0	19.2	18.8	19.3
Alaska	10.6	10.9	10.9	50.9	51.5	51.6	67.1	69.1	69.6
Arizona	92.9	94.8	95.4	383.7	407.6	407.0	219.5	227.9	231.3
Phoenix	74.5	76.1	76.7	256.5	274.4	273.9	114.1	121.2	120.2
Tucson	11.4	11.6	11.5	70.9	74.1	74.1	48.4	48.1	51.0
Arkansas	38.8	39.1	39.1	177.1	186.7	187.4	144.2	146.0	147.8
Fayetteville-Springdale	1.6	1.5	1.6	9.0	9.5	9.5	10.4	10.7	10.8
Fort Smith	3.0	2.9	3.0	18.7	19.2	19.0	7.1	7.3	7.4
Little Rock-North Little Rock	15.7	15.8	15.7	62.5	64.3	64.4	45.7	45.2	45.8
Pine Bluff	1.3	1.2	1.2	6.9	7.0	6.9	7.1	6.8	7.0
California	842.9	862.7	864.5	3,280.4	3,403.8	3,415.2	1,885.5	2,017.2	1,971.8
Anaheim-Santa Ana	96.3	98.1	98.6	313.6	324.6	325.5	110.9	120.8	118.1
Bakersfield	6.5	6.8	6.8	35.7	35.4	35.6	39.4	40.9	40.8
Fresno	12.2	12.9	12.9	53.9	57.3	58.3	43.8	47.3	47.6
Los Angeles-Long Beach	294.0	300.5	301.4	1,177.7	1,219.1	1,223.2	495.2	534.9	518.4
Modesto	5.1	5.4	5.4	23.7	25.1	25.2	18.1	19.0	18.7
Oakland	57.6	58.7	58.7	218.9	228.6	229.6	155.9	163.1	162.0
Oxnard-Ventura	11.5	11.3	11.3	54.9	56.8	57.2	41.1	43.5	43.2
Riverside-San Bernardino	28.7	30.0	29.9	155.5	166.4	165.8	130.5	145.7	139.3
Sacramento	39.2	40.1	40.4	134.0	139.8	140.5	171.4	181.2	179.1
San Diego	67.6	68.3	68.0	262.3	277.3	279.0	159.7	165.9	164.8
San Francisco	110.6	110.4	110.5	303.1	311.3	311.7	130.2	135.8	131.1
San Jose	33.0	32.7	32.6	215.5	218.4	218.2	83.2	87.2	86.4
Santa Barbara-Santa Maria-Lompoc	8.6	8.7	8.7	41.6	42.2	42.3	26.2	28.0	27.5
Santa Rosa-Petaluma	8.1	8.1	8.2	31.2	34.2	34.7	19.9	21.0	20.6
Stockton	9.7	9.5	9.6	32.4	32.9	32.9	31.3	32.6	32.8
Vallejo-Fairfield-Napa	5.0	5.2	5.2	30.0	31.7	31.8	37.4	38.8	36.8
Colorado	96.5	97.2	97.2	387.7	400.9	402.5	251.4	258.0	256.3
Boulder-Longmont	4.2	4.2	4.2	26.6	28.5	28.4	20.0	20.4	19.8
Denver	64.5	64.3	64.1	224.2	230.2	231.1	119.8	122.9	122.0
Connecticut	152.9	153.6	153.2	428.4	439.6	439.1	199.6	205.1	200.1
Bridgeport-Milford	12.6	12.3	12.3	50.3	51.6	51.5	18.2	18.5	18.0
Hartford	74.8	75.8	75.4	116.0	118.9	118.4	64.7	65.2	64.6
New Britain	3.7	3.4	3.4	14.6	15.4	15.4	6.4	6.7	6.6
New Haven-Meriden	16.6	17.6	17.4	73.4	73.7	73.3	30.3	31.1	30.8
Stamford	14.3	14.4	14.3	39.1	39.6	39.2	10.2	10.4	10.2
Waterbury	4.4	4.2	4.1	23.0	23.3	23.3	12.4	12.8	12.6
Delaware	30.8	31.2	31.2	85.1	87.2	87.4	46.6	49.3	48.7
Wilmington	27.3	27.9	28.1	72.8	75.6	75.6	36.0	37.6	37.4
District of Columbia	33.7	33.5	33.3	253.8	255.3	254.0	285.5	290.6	277.2
Washington MSA	132.9	132.5	131.8	740.3	745.9	743.8	576.7	594.6	576.2
Florida	374.4	379.0	377.8	1,503.3	1,604.7	1,607.6	744.7	815.4	810.4
Daytona Beach	5.9	5.8	5.7	35.2	36.1	36.0	18.8	20.0	19.7
Fort Lauderdale-Hollywood-Pompano Beach	41.2	41.6	41.7	144.1	147.8	147.3	59.8	65.1	64.7
Fort Myers-Cape Coral	9.1	9.5	9.4	34.7	37.7	38.0	16.8	20.0	19.8
Gainesville	4.7	4.6	4.7	25.2	25.8	25.8	34.0	35.8	35.9
Jacksonville	40.1	41.2	41.1	109.3	114.3	113.7	57.5	58.9	58.9
Lakeland-Winter Haven	9.3	9.2	9.2	38.2	39.3	39.2	19.5	21.5	20.8
Melbourne-Titusville-Palm Bay	6.0	5.7	5.7	50.5	52.5	52.6	22.3	23.9	23.3
Miami-Hialeah	72.5	72.8	72.8	244.0	251.1	251.5	109.5	118.3	117.7
Orlando	33.8	33.6	33.3	187.6	200.0	198.5	54.7	59.4	58.4
Pensacola	5.4	5.3	5.3	33.3	34.0	34.3	28.2	29.1	29.1
Sarasota	8.1	8.1	8.1	35.8	37.8	37.9	12.2	12.8	12.9
Tallahassee	5.2	5.2	5.1	25.9	26.4	26.6	46.3	49.4	48.6
Tampa-St. Petersburg-Clearwater	65.9	65.6	65.7	255.7	266.4	266.9	102.4	106.7	106.8
West Palm Beach-Boca Raton-Delray Beach	29.2	29.9	29.7	106.6	112.8	112.6	41.7	44.1	44.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Georgia	2,957.3	3,005.1	3,009.8	8.7	8.7	8.7	150.1	148.8	148.9
Albany	47.7	48.2	47.7	(¹)	(¹)	(¹)	2.3	2.0	2.1
Athens	67.0	68.2	67.4	.1	.1	.1	2.7	2.9	2.8
Atlanta	1,458.8	1,489.8	1,491.6	1.3	1.1	1.2	69.2	69.2	69.2
Augusta	171.1	171.5	172.9	.5	.6	.6	15.2	15.1	15.5
Columbus	93.9	93.6	93.5	.1	.1	.1	5.0	4.3	4.3
Macon-Warner Robins	124.7	125.8	125.1	.1	.2	.2	5.3	5.2	5.0
Savannah	108.3	110.4	110.9	(¹)	(¹)	(¹)	8.0	7.6	7.6
Hawaii	507.1	518.2	516.6	(¹)	(¹)	(¹)	30.7	29.2	29.3
Honolulu	396.4	404.9	403.7	(¹)	(¹)	(¹)	23.5	22.0	22.0
Idaho	371.2	384.4	387.9	3.9	4.0	4.0	18.2	20.2	21.1
Boise City	101.2	105.5	106.4	(¹)	(¹)	(¹)	6.2	6.3	6.6
Illinois	5,174.2	5,222.8	5,222.5	20.1	20.3	20.2	227.7	217.8	218.6
Aurora-Elgin	140.1	144.2	144.8	(¹)	(¹)	(¹)	7.8	7.9	8.6
Bloomington-Normal	61.7	63.1	62.7	(¹)	(¹)	(¹)	3.4	3.3	3.4
Champaign-Urbana-Rantoul	82.7	86.7	83.8	(¹)	(¹)	(¹)	2.8	2.6	2.6
Chicago	3,174.0	3,225.6	3,224.6	2.1	2.3	2.2	138.0	138.8	140.4
Davenport-Rock Island-Moline	163.5	164.6	164.7	(¹)	(¹)	(¹)	6.4	6.2	6.4
Decatur	52.6	54.1	53.8	(¹)	(¹)	(¹)	3.3	3.4	3.4
Joliet	102.4	104.7	104.2	(¹)	(¹)	(¹)	8.9	9.1	8.8
Kankakee	34.2	35.4	35.5	(¹)	(¹)	(¹)	1.9	1.8	1.8
Lake County	210.8	218.4	218.5	(¹)	(¹)	(¹)	14.9	11.9	11.9
Peoria	143.8	145.5	145.4	(¹)	(¹)	(¹)	6.9	7.0	7.1
Rockford	135.8	133.4	136.1	(¹)	(¹)	(¹)	6.4	6.5	6.5
Springfield	108.5	104.0	109.8	(¹)	(¹)	(¹)	3.8	4.0	4.0
Indiana	2,462.0	2,528.5	2,534.0	8.1	8.1	8.3	126.3	136.1	137.6
Anderson	49.1	49.5	49.7	(¹)	(¹)	(¹)	1.6	1.8	1.8
Bloomington	52.1	53.6	53.3	(¹)	(¹)	(¹)	2.6	2.5	2.5
Elkhart-Goshen	105.2	108.7	109.1	(¹)	(¹)	(¹)	3.7	4.1	4.1
Evansville	134.4	139.0	138.5	2.2	2.1	2.3	8.6	9.6	9.4
Fort Wayne	201.9	207.5	208.2	(¹)	(¹)	(¹)	10.0	11.6	11.7
Gary-Hammond	239.1	244.0	240.8	(¹)	(¹)	(¹)	18.6	19.0	19.2
Indianapolis	659.8	670.4	671.5	.8	.8	.8	39.1	38.8	39.2
Kokomo	46.2	46.9	47.2	(¹)	(¹)	(¹)	1.3	1.8	1.9
Lafayette-West Lafayette	64.9	68.7	68.4	(¹)	(¹)	(¹)	2.7	3.1	3.2
Muncie	49.8	52.9	53.4	(¹)	(¹)	(¹)	1.9	2.1	2.1
South Bend-Mishawaka	117.5	121.6	122.6	(¹)	(¹)	(¹)	7.3	8.9	8.8
Terre Haute	54.5	56.2	56.4	.4	.4	.6	2.8	4.2	4.1
Iowa	1,195.7	1,220.1	1,219.5	2.2	2.2	2.2	46.8	52.3	52.8
Cedar Rapids	94.5	94.0	94.4	(¹)	(¹)	(¹)	4.1	4.9	4.8
Des Moines	226.4	229.7	229.2	(¹)	(¹)	(¹)	9.3	9.3	9.4
Dubuque	42.0	43.3	42.0	(¹)	(¹)	(¹)	1.7	2.2	2.1
Iowa City	53.0	56.3	57.9	(¹)	(¹)	(¹)	1.9	2.2	2.2
Sioux City	54.7	54.7	54.5	(¹)	(¹)	(¹)	2.4	2.3	2.3
Waterloo-Cedar Falls	65.8	67.9	68.3	(¹)	(¹)	(¹)	2.6	2.5	2.5
Kansas	1,061.5	1,079.7	1,084.4	9.6	9.8	10.1	44.9	45.6	45.4
Lawrence	35.7	34.6	37.1	(¹)	(¹)	(¹)	1.8	1.7	1.7
Topeka	89.4	90.5	90.1	(¹)	(¹)	(¹)	4.0	4.2	4.1
Wichita	236.4	236.8	237.2	1.8	1.8	1.9	9.6	9.9	9.8
Kentucky	1,442.3	1,471.0	1,473.8	34.7	33.8	34.1	71.5	72.3	72.4
Lexington-Fayette	196.8	203.7	204.1	.3	.3	.2	12.0	12.5	12.8
Louisville	474.0	488.1	488.5	.6	.5	.5	24.5	24.5	24.6
Owensboro	35.8	36.5	36.9	.5	.5	.5	2.3	2.2	2.1
Louisiana	1,508.3	1,529.3	1,528.4	54.7	55.1	55.3	81.2	81.9	82.7
Alexandria	45.5	45.0	45.3	.2	.1	.1	3.0	2.5	2.6
Baton Rouge	227.0	231.4	229.5	.9	.8	.8	25.4	25.9	26.2
Houma-Thibodaux	54.6	58.0	57.4	5.4	5.7	5.7	1.9	2.2	2.1
Lafayette	88.3	92.1	93.0	11.6	11.8	11.9	3.5	3.7	3.8
Lake Charles	62.9	63.9	62.7	1.0	1.1	1.1	5.3	4.5	4.4
Monroe	56.3	57.0	56.6	.5	.5	.6	2.7	2.6	2.7
New Orleans	524.4	532.7	533.8	14.6	14.6	14.8	22.5	23.2	23.4
Shreveport	129.2	130.8	130.7	3.1	3.1	3.1	5.3	6.1	6.0

See footnotes at end of table.

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

B-8. Employees on nonfarm 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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Georgia	568.4	559.9	561.6	185.4	190.4	192.3	756.2	771.4	771.6
Albany	7.4	7.8	7.7	2.9	2.9	2.9	12.0	11.9	11.7
Athens	15.9	15.0	14.9	2.0	1.9	1.8	14.7	15.5	15.4
Atlanta	177.2	177.5	177.7	121.8	127.6	128.3	414.6	418.1	419.3
Augusta	38.2	38.1	38.4	4.6	4.7	4.7	36.9	36.6	36.9
Columbus	19.0	18.8	18.9	3.2	3.2	3.1	21.7	21.5	21.4
Macon-Warner Robins	18.7	18.6	18.9	5.2	5.4	5.3	28.5	28.9	28.6
Savannah	17.3	17.8	17.7	9.3	9.7	10.3	26.7	26.8	26.8
Hawaii	21.4	20.9	20.8	40.5	42.1	41.6	134.4	136.1	135.0
Honolulu	16.1	15.5	15.4	33.0	34.3	33.8	102.7	104.0	103.2
Idaho	61.5	63.3	64.2	19.7	19.5	19.7	96.7	99.8	100.9
Boise City	15.3	16.6	16.7	5.6	5.9	5.9	26.4	28.1	28.3
Illinois	983.1	977.4	980.2	303.4	307.1	307.4	1,288.2	1,288.0	1,290.5
Aurora-Elgin	40.0	38.9	38.9	3.4	3.5	3.6	35.4	36.5	36.6
Bloomington-Normal	7.7	7.9	7.7	2.7	2.8	2.6	14.0	14.2	14.1
Champaign-Urbana-Rantoul	7.8	8.2	8.0	2.3	2.3	2.3	18.9	18.9	18.8
Chicago	558.4	556.9	558.5	203.6	205.5	205.9	775.1	789.5	793.1
Davenport-Rock Island-Moline	33.2	33.8	33.9	7.3	7.4	7.4	47.4	47.2	47.2
Decatur	14.2	14.5	14.4	4.9	5.1	5.2	11.1	11.6	11.5
Joliet	18.9	19.0	19.0	8.4	8.5	8.5	23.7	24.4	24.3
Kankakee	5.8	5.6	5.6	2.1	2.0	2.1	8.7	9.2	9.3
Lake County	46.7	46.9	47.5	5.8	6.0	6.2	59.5	61.0	61.0
Peoria	33.7	33.3	33.7	6.8	6.9	6.9	35.0	35.2	35.1
Rockford	48.2	44.2	47.5	4.7	4.7	4.6	30.9	31.2	31.2
Springfield	3.8	3.7	3.8	4.8	4.7	4.8	25.4	23.2	25.3
Indiana	643.4	639.1	638.5	129.1	134.1	133.8	597.5	603.4	606.4
Anderson	16.6	15.8	15.8	1.4	1.4	1.3	12.0	11.9	12.0
Bloomington	9.5	9.3	9.3	1.7	1.8	1.8	11.7	10.7	10.9
Elkhart-Goshen	53.3	53.2	53.3	3.4	3.7	3.8	20.5	20.4	20.6
Evansville	31.1	31.7	31.4	6.9	7.1	7.1	35.5	35.1	35.3
Fort Wayne	54.6	53.4	53.1	13.8	13.1	13.1	49.6	48.9	48.9
Gary-Hammond	57.4	56.9	57.1	15.5	15.0	14.9	58.6	58.8	58.8
Indianapolis	109.0	107.6	107.3	41.5	43.3	42.8	174.0	176.4	176.9
Kokomo	18.8	18.3	18.4	1.6	1.6	1.6	10.7	10.1	10.2
Lafayette-West Lafayette	13.0	13.2	13.3	1.8	1.8	1.8	14.4	14.9	15.2
Muncie	11.4	11.5	11.7	2.9	3.2	3.3	13.0	13.2	13.3
South Bend-Mishawaka	23.1	22.0	22.9	5.1	5.2	5.2	32.5	32.6	32.9
Terre Haute	10.6	10.7	10.8	2.9	2.8	2.8	15.3	15.2	15.3
Iowa	233.9	234.9	233.9	56.5	55.9	55.7	312.1	317.8	319.0
Cedar Rapids	24.1	21.8	21.5	5.9	5.9	5.9	22.7	22.4	22.9
Des Moines	25.4	25.8	26.0	12.8	12.4	12.3	59.4	60.0	59.9
Dubuque	11.0	12.5	11.5	1.7	1.7	1.7	10.6	10.2	10.1
Iowa City	4.4	4.5	4.5	1.3	1.4	1.4	10.4	10.9	10.9
Sioux City	10.8	10.8	10.7	3.5	3.5	3.5	14.3	13.8	13.8
Waterloo-Cedar Falls	15.7	16.5	16.8	1.8	2.0	2.1	16.8	17.3	17.4
Kansas	185.2	187.1	184.7	66.1	66.6	66.2	269.2	271.8	272.2
Lawrence	4.7	4.8	4.7	1.0	1.1	1.1	7.8	8.1	8.2
Topeka	9.3	9.9	9.7	6.9	6.7	6.7	20.5	19.9	19.5
Wichita	63.4	65.1	64.9	11.4	11.2	11.3	54.4	53.8	54.1
Kentucky	286.1	286.8	286.6	77.8	76.8	76.7	350.7	355.2	356.0
Lexington-Fayette	33.1	33.3	33.4	9.2	9.1	9.1	44.4	44.2	44.2
Louisville	89.0	89.5	89.3	30.6	30.0	30.2	119.9	122.1	122.5
Owensboro	6.4	6.4	6.5	2.2	2.3	2.3	9.6	9.8	10.0
Louisiana	175.1	174.0	176.0	106.6	106.2	106.2	366.3	366.0	367.1
Alexandria	3.5	3.4	3.5	2.4	2.3	2.4	10.7	10.3	10.3
Baton Rouge	21.3	22.0	22.0	10.5	10.4	10.5	53.7	54.4	54.3
Houma-Thibodaux	4.9	5.2	5.2	6.3	6.6	6.6	14.2	14.7	14.8
Lafayette	7.4	8.3	8.4	6.2	6.1	6.2	23.8	24.6	24.7
Lake Charles	11.5	11.5	11.4	3.9	4.2	4.1	14.9	15.1	15.1
Monroe	7.4	7.7	7.7	3.1	2.9	2.8	14.5	14.3	14.3
New Orleans	44.1	43.7	43.9	43.8	43.3	43.2	136.4	136.6	136.6
Shreveport	17.8	17.2	17.7	8.3	8.5	8.4	32.5	33.2	33.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Georgia	166.1	164.9	165.2	618.9	636.8	640.3	503.5	524.3	521.2
Albany	2.2	2.1	2.1	8.7	8.9	8.8	12.3	12.6	12.2
Athens	2.1	2.0	2.0	11.1	11.6	11.4	18.5	19.3	18.9
Atlanta	107.7	106.5	107.1	361.7	373.9	375.0	205.3	215.8	213.7
Augusta	5.7	5.4	5.5	35.1	35.5	35.8	35.0	35.4	35.5
Columbus	6.0	5.8	5.7	18.3	18.5	18.7	20.7	21.6	21.2
Macon-Warner Robins	7.3	7.6	7.6	24.8	24.9	24.8	34.7	35.0	34.6
Savannah	5.0	5.0	5.0	26.0	26.6	26.8	16.1	16.7	18.6
Hawaii	35.3	36.2	36.3	145.7	151.1	151.6	99.1	102.6	102.0
Honolulu	28.6	29.4	29.8	110.2	115.1	115.6	82.3	84.6	84.1
Idaho	19.6	19.8	19.9	78.4	80.8	81.5	73.2	77.0	76.6
Boise City	7.8	7.7	7.8	22.5	22.7	23.2	17.4	18.1	17.9
Illinois	377.1	375.7	375.8	1,297.1	1,317.6	1,317.0	697.5	718.9	712.8
Aurora-Elgin	7.2	7.6	7.9	32.2	34.3	34.1	14.1	15.5	15.1
Bloomington-Normal	10.8	11.0	11.0	13.4	13.9	13.8	9.7	10.2	10.1
Champaign-Urbana-Rantoul	3.2	3.2	3.2	17.7	18.3	17.8	30.0	33.2	31.1
Chicago	272.7	274.7	274.4	870.0	888.5	889.7	354.1	369.4	360.4
Davenport-Rock Island-Moline	7.7	7.8	7.8	36.1	36.7	36.8	25.4	25.5	25.2
Decatur	2.3	2.3	2.3	11.6	11.8	11.7	5.2	5.4	5.3
Joliet	3.5	3.6	3.6	23.8	24.1	24.0	15.2	16.0	16.0
Kankakee	1.3	1.3	1.3	8.8	9.5	9.4	5.8	6.0	6.0
Lake County	10.2	10.4	10.3	44.9	51.1	51.0	28.8	31.1	30.6
Peoria	7.1	7.4	7.3	39.7	40.7	40.5	14.6	15.0	14.8
Rockford	5.2	5.3	5.2	29.5	30.2	30.0	10.9	11.3	11.1
Springfield	8.3	8.3	8.3	28.8	26.6	29.0	33.6	33.5	34.6
Indiana	124.9	126.7	127.1	508.4	535.1	537.9	324.4	345.8	344.3
Anderson	1.6	1.5	1.5	10.7	11.3	11.5	5.3	5.8	5.8
Bloomington	2.1	1.8	1.8	9.7	11.7	11.8	14.7	15.7	15.2
Elkhart-Goshen	3.1	3.2	3.2	16.0	17.5	17.7	5.2	6.6	6.5
Evansville	5.4	5.6	5.6	33.6	36.4	36.1	11.0	11.5	11.3
Fort Wayne	12.9	13.3	13.3	47.2	51.1	52.0	13.8	16.1	16.0
Gary-Hammond	8.5	8.6	8.6	54.2	56.3	55.9	26.3	29.4	28.4
Indianapolis	50.0	50.2	50.4	156.5	158.9	158.9	89.0	94.3	95.2
Kokomo	1.5	1.5	1.5	7.2	8.0	8.0	5.1	5.7	5.6
Lafayette-West Lafayette	3.1	3.1	3.1	13.7	14.9	15.2	16.2	17.7	16.6
Muncie	1.7	1.7	1.7	11.4	11.6	11.8	7.6	9.6	9.4
South Bend-Mishawaka	6.4	6.5	6.5	33.0	34.5	34.8	10.0	11.9	11.5
Terre Haute	2.1	2.1	2.2	12.1	12.1	12.0	8.3	8.8	8.7
Iowa	69.8	72.0	71.7	272.7	279.4	279.4	201.7	205.6	204.8
Cedar Rapids	4.7	4.9	4.7	22.5	23.6	23.5	10.5	10.5	11.1
Des Moines	32.1	33.6	33.5	57.9	57.8	57.5	29.5	30.8	30.6
Dubuque	1.5	1.5	1.5	12.3	12.0	11.9	3.2	3.2	3.2
Iowa City	1.5	1.5	1.5	9.3	9.6	9.6	24.2	26.2	27.8
Sioux City	2.6	2.7	2.7	14.5	14.7	14.7	6.6	6.9	6.8
Waterloo-Cedar Falls	2.9	3.0	3.0	15.1	15.2	15.2	10.9	11.4	11.3
Kansas	58.9	59.9	59.9	234.9	242.3	242.3	192.7	196.6	203.6
Lawrence	1.5	1.6	1.6	7.3	7.6	7.7	11.6	9.7	12.1
Topeka	6.6	6.6	6.5	21.7	22.6	22.5	20.4	20.6	21.1
Wichita	11.0	11.2	11.2	59.8	59.4	59.3	25.0	24.4	24.7
Kentucky	61.3	62.4	62.3	315.2	331.8	330.1	245.0	252.1	255.6
Lexington-Fayette	9.5	9.5	9.5	48.1	51.8	51.3	40.2	43.0	43.6
Louisville	27.6	27.5	27.4	121.9	129.7	129.6	59.9	64.3	64.4
Owensboro	1.5	1.5	1.5	8.6	8.6	8.7	4.7	5.2	5.3
Louisiana	78.3	78.3	78.6	343.3	350.0	350.9	302.8	315.8	311.6
Alexandria	2.5	2.4	2.4	11.2	11.9	11.8	12.0	12.1	12.2
Baton Rouge	13.1	13.2	13.1	50.3	50.5	50.5	51.8	54.2	52.1
Houma-Thibodaux	2.1	2.1	2.1	9.8	10.5	10.4	10.0	11.0	10.5
Lafayette	3.2	3.2	3.2	20.2	20.7	21.1	12.4	13.7	13.7
Lake Charles	3.1	3.0	3.1	12.8	13.0	12.9	10.4	11.5	10.6
Monroe	4.3	4.2	4.3	12.5	12.9	12.8	11.3	11.9	11.4
New Orleans	33.2	32.7	32.7	147.2	147.9	147.8	82.6	90.7	91.4
Shreveport	6.2	6.2	6.2	32.1	33.1	33.0	23.9	23.4	23.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Maine	554.3	533.9	537.5	0.2	0.2	0.2	36.5	30.9	29.6
Lewiston-Auburn	40.8	40.1	40.9	(?)	(?)	(?)	2.5	2.2	2.1
Portland	132.9	133.7	133.1	(?)	(?)	(?)	8.8	8.2	8.2
Maryland	2,153.8	2,186.1	2,177.7	1.7	1.7	1.7	167.6	168.4	169.7
Baltimore MSA	1,140.0	1,160.1	1,155.2	.3	.3	.3	81.0	78.9	79.1
Baltimore City	477.3	489.1	484.9	(?)	(?)	(?)	21.6	20.6	20.5
Suburban Maryland-D.C.	770.3	779.9	778.7	(?)	(?)	(?)	74.0	73.0	73.4
Massachusetts	3,098.3	3,024.2	3,010.0	1.5	1.6	1.5	136.0	112.1	110.7
Boston	1,719.1	1,691.9	1,683.2	.7	.8	.8	69.5	55.4	54.1
Brockton	73.4	72.5	72.3	(?)	(?)	(?)	3.7	2.9	2.9
Fall River	56.5	54.1	54.4	(?)	(?)	(?)	2.7	2.4	2.4
Fitchburg-Leominster	40.9	38.9	38.6	(?)	(?)	(?)	2.3	1.8	1.7
Lawrence-Haverhill	164.3	163.1	163.0	(?)	(?)	(?)	7.6	6.7	6.6
Lowell	104.0	99.2	99.3	(?)	(?)	(?)	5.2	4.6	4.6
New Bedford	67.5	66.5	66.2	(?)	(?)	(?)	3.1	2.8	2.7
Pittsfield	43.0	43.3	43.1	.1	.1	.1	2.4	1.9	1.8
Springfield	239.9	234.2	234.0	.2	.1	.2	9.8	8.0	8.0
Worcester	200.1	200.0	199.1	.2	.3	.3	9.5	8.3	8.3
Michigan	3,887.1	3,897.7	3,876.5	11.3	10.9	9.2	151.8	146.8	144.9
Ann Arbor	166.5	168.8	171.0	(?)	(?)	(?)	6.5	5.8	5.7
Battle Creek	59.5	60.5	60.9	(?)	(?)	(?)	2.7	2.9	2.8
Benton Harbor	66.8	67.6	67.3	(?)	(?)	(?)	1.9	1.9	1.9
Detroit	1,932.0	1,928.3	1,916.2	1.2	1.1	1.1	71.8	63.5	63.0
Flint	163.2	168.3	167.2	(?)	(?)	(?)	5.5	6.0	6.2
Grand Rapids	341.8	347.1	348.1	(?)	(?)	(?)	17.4	17.7	17.6
Jackson	54.3	54.3	54.6	(?)	(?)	(?)	2.1	2.6	2.7
Kalamazoo	109.0	110.5	110.1	(?)	(?)	(?)	4.6	4.3	4.3
Lansing-East Lansing	207.9	208.9	208.4	(?)	(?)	(?)	7.2	6.2	6.1
Muskegon	59.0	58.9	59.1	(?)	(?)	(?)	2.6	2.7	2.7
Saginaw-Bay City-Midland	158.9	163.4	163.9	(?)	(?)	(?)	8.9	9.2	9.2
Minnesota	2,104.7	2,136.9	2,141.6	8.1	8.8	8.8	92.1	91.7	92.8
Duluth	97.2	96.3	96.8	5.4	5.7	5.7	4.4	3.7	3.8
Minneapolis-St. Paul	1,361.0	1,381.7	1,381.4	(?)	(?)	(?)	58.4	57.6	57.9
Rochester	64.0	65.4	65.2	(?)	(?)	(?)	2.5	2.3	2.3
St. Cloud	75.7	79.0	79.6	(?)	(?)	(?)	4.8	4.8	4.8
Mississippi	915.2	927.0	924.8	5.9	6.5	6.6	38.3	35.3	35.4
Jackson	184.4	186.6	187.2	.6	.6	.7	8.0	7.7	7.8
Missouri	2,315.6	2,327.5	2,324.3	5.4	5.4	5.4	105.6	104.5	105.3
Kansas City	777.5	795.2	794.8	(?)	(?)	(?)	35.2	35.7	35.6
St. Louis	1,177.9	1,188.5	1,184.6	(?)	(?)	(?)	67.4	62.1	63.4
Springfield	115.8	117.8	118.3	(?)	(?)	(?)	5.2	4.7	4.8
Montana	293.3	297.1	298.1	6.5	6.6	6.7	12.2	10.9	11.3
Nebraska	703.9	719.6	721.9	1.7	1.7	1.7	25.6	26.9	26.9
Lincoln	117.4	119.8	120.7	(?)	(?)	(?)	4.0	4.7	4.5
Omaha	322.0	330.4	330.3	(?)	(?)	(?)	12.4	13.2	13.3
Nevada	593.7	627.3	629.3	14.3	15.9	16.0	49.1	52.3	53.0
Las Vegas	346.2	373.9	375.9	.3	.3	.3	33.9	35.9	36.4
Reno	143.5	146.6	147.3	1.6	1.6	1.6	7.9	8.2	8.4
New Hampshire	523.2	502.3	505.7	.5	.6	.5	34.4	27.0	26.8
Manchester	86.8	81.7	82.0	(?)	(?)	(?)	6.3	4.5	4.6
Nashua	92.3	87.0	86.7	(?)	(?)	(?)	4.0	2.6	2.6
Portsmouth-Dover-Rochester	114.4	105.2	107.2	(?)	(?)	(?)	5.7	4.8	4.7
New Jersey	3,725.4	3,754.3	3,745.5	2.6	2.5	2.5	176.5	161.5	160.6
Atlantic City	185.9	197.2	195.5	(?)	(?)	(?)	10.1	9.4	9.3
Bergen-Passaic	670.0	673.8	671.9	(?)	(?)	(?)	33.5	31.9	32.0
Camden	450.1	460.5	460.5	(?)	(?)	(?)	26.5	26.3	26.5
Jersey City	253.7	251.6	252.4	(?)	(?)	(?)	7.4	7.0	6.9
Middlesex-Somerset-Hunterdon	542.8	541.8	540.4	.7	.7	.7	24.6	23.2	23.2
Monmouth-Ocean	356.6	355.4	356.5	(?)	(?)	(?)	21.8	18.6	18.3
Newark	970.0	985.1	981.9	.8	.8	.7	40.8	39.1	38.8
Trenton	195.7	197.2	197.0	(?)	(?)	(?)	5.7	5.1	5.2
Vineland-Millville-Bridgeton	59.6	59.9	59.7	.4	.4	.4	2.5	2.5	2.5

See footnotes at end of table.

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

B-8. Employees on nonfarm 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. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
Maine	109.3	102.4	107.5	21.4	22.4	22.5	145.8	137.6	137.3
Lewiston-Auburn	10.0	8.9	9.6	1.3	1.4	1.4	10.9	10.7	10.8
Portland	16.7	17.3	17.3	4.8	5.5	5.5	41.5	40.9	40.8
Maryland	210.0	205.2	205.6	101.6	102.6	102.6	546.9	549.5	548.4
Baltimore MSA	130.8	126.8	126.8	51.3	57.1	57.0	281.2	282.3	282.5
Baltimore City	44.9	44.5	44.9	26.2	28.8	28.8	96.3	95.2	95.4
Suburban Maryland-D.C.	37.8	38.0	37.8	31.5	31.7	31.7	199.8	202.4	202.6
Massachusetts	556.7	522.3	523.5	117.7	126.8	126.2	751.8	725.6	720.3
Boston	257.0	244.2	243.1	68.8	75.7	75.6	388.2	379.9	377.7
Brockton	9.8	9.2	9.2	4.2	4.5	4.5	24.3	24.0	23.7
Fall River	15.6	14.0	14.0	1.6	1.9	1.9	15.8	14.6	14.8
Fitchburg-Leominster	12.1	11.3	11.5	1.2	1.2	1.2	10.2	9.1	9.1
Lawrence-Haverhill	47.8	45.2	45.4	5.9	5.8	5.8	38.0	37.2	37.4
Lowell	34.7	31.2	31.4	4.2	4.4	4.5	22.3	21.6	21.5
New Bedford	17.9	16.6	16.2	2.4	2.4	2.4	16.9	16.7	16.9
Pittsfield	10.6	10.7	10.6	1.2	1.4	1.4	10.2	10.1	10.2
Springfield	48.3	45.8	45.9	8.9	9.6	9.7	60.0	58.4	58.4
Worcester	44.5	43.9	43.8	8.2	9.0	9.2	49.0	49.9	49.5
Michigan	962.1	935.8	931.1	153.0	155.6	156.0	933.9	941.9	939.1
Ann Arbor	36.0	35.0	36.1	4.8	5.1	5.1	29.6	30.2	30.1
Battle Creek	17.1	16.1	16.4	1.8	1.6	1.6	12.0	12.1	12.2
Benton Harbor	21.6	20.9	20.9	2.6	2.7	2.7	15.1	15.4	15.3
Detroit	457.3	440.8	437.4	87.7	89.0	88.5	470.1	471.8	469.2
Flint	51.1	51.4	50.0	4.4	4.3	4.2	41.9	42.1	42.4
Grand Rapids	102.4	102.4	103.3	11.6	11.4	11.3	91.2	92.9	93.7
Jackson	13.6	12.5	12.6	4.1	3.9	3.9	13.2	13.0	13.1
Kalamazoo	30.4	30.1	30.0	3.3	3.4	3.4	25.9	26.1	26.3
Lansing-East Lansing	32.9	32.3	32.1	5.6	5.9	5.9	45.9	45.2	45.4
Muskegon	16.9	16.3	16.2	2.2	2.2	2.2	13.9	14.1	14.3
Saginaw-Bay City-Midland	45.1	44.7	44.7	6.3	6.1	6.1	39.2	40.5	41.0
Minnesota	409.9	401.7	405.9	105.6	108.7	108.5	528.5	532.2	535.0
Duluth	8.5	8.6	8.7	6.1	5.9	5.9	24.8	24.6	24.6
Minneapolis-St. Paul	267.2	262.0	262.6	74.1	77.6	77.5	336.8	339.4	341.3
Rochester	12.1	12.3	12.2	1.9	1.9	1.9	13.0	12.9	12.9
St. Cloud	14.9	15.3	15.2	3.9	3.9	3.9	23.9	26.1	26.2
Mississippi	245.7	241.3	242.7	46.0	47.0	47.2	199.2	202.4	203.4
Jackson	21.8	21.8	21.5	14.2	14.8	14.7	43.6	43.9	44.3
Missouri	442.8	434.6	433.2	152.0	151.1	150.4	578.5	578.7	578.8
Kansas City	111.6	112.0	110.0	63.9	64.9	64.8	204.4	209.4	210.4
St. Louis	226.4	222.0	220.1	76.6	78.7	77.8	290.2	295.2	294.4
Springfield	21.2	21.1	21.3	7.4	7.6	7.6	33.7	34.9	34.8
Montana	22.7	23.2	22.9	20.2	19.9	20.0	81.1	82.4	82.6
Nebraska	95.6	95.8	97.3	46.0	46.6	46.7	184.3	186.3	187.0
Lincoln	14.3	13.7	14.1	6.6	6.7	6.7	27.0	27.3	27.4
Omaha	35.9	36.4	36.6	24.5	24.7	24.7	82.7	85.3	85.3
Nevada	25.8	26.4	26.4	30.7	32.3	32.4	122.2	129.0	128.9
Las Vegas	10.2	10.7	10.8	18.2	19.3	19.4	74.0	79.4	79.8
Reno	8.6	8.6	8.6	9.0	9.1	9.1	32.8	34.2	34.3
New Hampshire	113.4	103.4	107.4	17.8	17.7	17.5	138.5	132.2	132.6
Manchester	11.7	10.8	11.0	5.0	4.8	4.8	22.4	21.2	21.1
Nashua	34.2	32.2	32.3	3.3	3.3	3.2	23.1	21.7	21.6
Portsmouth-Dover-Rochester	21.5	17.3	18.9	2.9	2.8	2.7	30.4	27.7	28.0
New Jersey	655.3	629.4	634.4	230.1	240.4	240.0	896.5	904.3	902.9
Atlantic City	8.5	8.3	8.3	6.3	6.9	6.9	47.2	48.6	48.2
Bergen-Passaic	150.1	144.5	145.4	27.8	29.4	29.3	193.1	192.2	191.8
Camden	73.0	69.5	70.0	18.0	19.9	19.9	123.3	125.3	125.2
Jersey City	44.7	42.0	43.2	33.1	33.3	33.4	61.2	60.5	60.7
Middlesex-Somerset-Hunterdon	115.4	110.2	110.8	40.5	41.8	41.6	130.7	129.7	129.9
Monmouth-Ocean	27.9	27.2	27.2	16.1	17.3	17.3	97.7	98.9	101.2
Newark	171.9	169.1	169.8	77.3	83.6	83.8	197.1	195.1	195.3
Trenton	28.8	27.6	27.6	6.3	6.5	6.5	31.1	31.8	31.7
Vineland-Millville-Bridgeton	17.3	16.8	17.0	2.1	2.2	2.2	11.4	11.4	11.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
Maine	28.0	25.5	25.5	131.6	130.0	130.8	83.5	84.9	84.1
Lewiston-Auburn	2.3	2.3	2.3	10.2	10.8	11.1	3.6	3.8	3.6
Portland	11.8	11.5	11.4	35.1	36.3	36.4	14.2	14.0	13.5
Maryland	133.5	134.6	133.8	602.0	612.8	610.7	390.5	411.3	405.2
Baltimore MSA	78.1	77.5	77.4	316.1	322.5	322.5	201.2	214.7	209.6
Baltimore City	46.2	46.0	45.9	151.3	153.7	153.4	90.8	100.3	96.0
Suburban Maryland-D.C.	46.6	47.1	46.7	230.3	232.3	232.2	150.3	155.4	154.3
Massachusetts	220.7	221.2	220.0	925.3	932.5	932.7	386.6	382.1	375.1
Boston	149.5	149.3	147.9	592.8	593.4	595.5	192.6	193.2	188.5
Brockton	3.6	3.6	3.5	16.1	16.3	16.4	11.7	12.0	12.1
Fall River	3.5	3.6	3.6	11.2	11.4	11.5	6.1	6.2	6.2
Fitchburg-Leominster	1.6	1.6	1.5	9.2	9.5	9.4	4.3	4.4	4.2
Lawrence-Haverhill	6.5	6.5	6.5	38.4	41.4	41.3	20.1	20.3	20.0
Lowell	3.8	3.4	3.4	21.8	22.0	22.1	12.0	12.0	11.8
New Bedford	2.5	2.5	2.5	15.3	16.1	16.2	9.4	9.4	9.3
Pittsfield	2.0	2.0	2.0	12.1	12.7	12.7	4.4	4.4	4.4
Springfield	15.8	14.9	15.0	60.2	61.2	61.0	36.7	36.2	35.8
Worcester	14.4	14.2	14.1	52.0	51.9	51.7	22.3	22.5	22.2
Michigan	191.9	194.7	194.9	911.7	926.2	925.3	571.4	585.9	576.1
Ann Arbor	4.7	4.8	4.8	37.6	39.8	39.5	47.2	48.1	47.8
Battle Creek	3.3	3.5	3.5	12.1	13.3	13.3	10.7	11.0	11.0
Benton Harbor	2.6	2.8	2.7	14.8	15.5	15.5	8.1	8.4	8.2
Detroit	112.8	114.6	115.2	508.9	521.4	521.3	222.5	226.1	220.4
Flint	6.0	6.3	6.4	33.8	35.8	36.0	20.4	22.5	22.1
Grand Rapids	15.9	16.2	16.0	73.4	75.4	75.2	29.9	31.1	30.9
Jackson	1.8	1.8	1.8	10.2	10.6	10.6	9.3	9.9	9.8
Kalamazoo	5.0	5.4	5.2	25.5	26.2	26.0	14.4	15.1	15.0
Lansing-East Lansing	13.0	12.9	12.9	42.2	43.4	43.4	61.1	62.9	62.6
Muskegon	1.5	1.5	1.5	12.8	12.6	12.8	9.1	9.4	9.3
Saginaw-Bay City-Midland	6.3	6.2	6.2	35.6	37.4	37.6	17.4	19.4	19.1
Minnesota	121.8	124.6	124.8	541.3	559.8	562.2	297.4	309.4	303.6
Duluth	3.2	3.2	3.3	24.2	24.0	24.4	20.6	20.6	20.4
Minneapolis-St. Paul	93.6	95.7	95.9	364.0	374.0	375.2	166.2	174.9	170.5
Rochester	1.6	1.7	1.7	27.4	28.9	28.7	5.5	5.4	5.5
St. Cloud	2.5	2.4	2.4	15.6	16.7	17.2	10.1	9.8	9.9
Mississippi	39.4	38.8	38.8	152.3	182.9	157.1	188.5	192.8	193.8
Jackson	15.0	14.6	14.5	42.9	43.5	43.7	38.5	39.8	39.9
Missouri	138.7	136.7	136.4	564.2	573.6	574.5	330.4	342.9	340.3
Kansas City	59.6	59.7	59.6	191.4	197.1	197.5	111.5	116.4	116.9
St. Louis	75.4	75.1	74.9	310.2	319.9	321.0	131.7	135.5	133.0
Springfield	5.5	5.6	5.7	29.9	30.3	30.6	12.9	13.6	13.5
Montana	13.3	13.6	13.8	73.5	75.3	75.5	63.8	65.2	65.3
Nebraska	48.7	48.5	48.4	167.4	173.0	173.6	134.6	140.8	140.3
Lincoln	8.5	8.5	8.4	26.8	28.4	28.4	30.2	30.5	31.2
Omaha	29.3	29.5	29.3	92.2	95.1	95.5	45.0	46.2	45.6
Nevada	26.0	27.5	27.7	259.3	273.4	274.4	66.3	70.5	70.5
Las Vegas	16.6	17.3	17.5	160.0	175.7	176.4	33.0	35.3	35.3
Reno	6.8	7.1	7.2	60.5	60.8	61.2	16.3	17.0	16.9
New Hampshire	33.5	32.6	32.4	125.7	127.5	127.2	59.4	61.3	61.3
Manchester	9.0	8.9	8.9	24.4	23.3	23.5	8.0	8.2	8.1
Nashua	3.5	3.3	3.2	18.0	17.7	17.7	6.2	6.2	6.1
Portsmouth-Dover-Rochester	7.4	7.2	7.2	25.4	24.7	24.5	21.1	20.7	21.2
New Jersey	246.9	245.6	245.3	975.2	1,007.4	1,004.7	542.3	563.2	555.1
Atlantic City	7.3	7.2	7.2	79.9	89.8	88.8	26.6	27.0	26.8
Bergen-Passaic	39.8	39.6	39.6	160.2	167.0	166.6	65.5	69.2	67.2
Camden	25.6	25.1	25.1	113.5	120.8	121.2	70.2	73.6	72.6
Jersey City	16.5	16.4	16.3	50.0	51.2	51.3	40.8	41.2	40.6
Middlesex-Somerset-Hunterdon	39.7	39.1	39.0	120.6	122.6	122.1	70.6	74.5	73.1
Monmouth-Ocean	19.7	19.8	19.8	104.4	108.6	108.1	63.0	65.0	64.6
Newark	80.5	80.5	80.1	264.5	274.8	274.5	137.1	142.1	138.9
Trenton	10.8	11.0	11.0	58.1	58.8	58.7	54.9	56.4	56.3
Vineland-Millville-Bridgeton	3.9	4.0	3.9	10.5	10.6	10.6	11.5	12.0	11.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
New Mexico	561.2	566.9	565.4	14.6	14.7	14.4	32.0	29.5	29.4
Albuquerque	241.2	242.0	241.2	(?)	(?)	(?)	14.4	12.6	12.4
Las Cruces	41.1	41.0	42.0	(?)	(?)	(?)	2.5	2.5	2.5
Santa Fe	57.9	60.7	60.3	(?)	(?)	(?)	2.9	2.8	2.8
New York	8,253.7	8,280.1	8,261.0	6.1	6.1	6.0	359.9	327.1	326.0
Albany-Schenectady-Troy	430.3	434.5	436.7	.6	.8	.8	23.4	22.6	22.6
Binghamton	120.1	118.7	119.4	(¹)	(¹)	(¹)	6.3	5.7	5.7
Buffalo	459.2	462.6	464.2	(¹)	(¹)	(¹)	19.7	19.2	19.5
Elmira	41.5	42.1	42.2	(¹)	(¹)	(¹)	1.9	1.7	1.7
Glens Falls	52.0	52.5	52.4	(¹)	(¹)	(¹)	2.8	3.1	3.2
Nassau-Suffolk	1,134.3	1,137.7	1,126.8	(¹)	(¹)	(¹)	60.8	55.2	55.3
New York PMSA	4,112.1	4,127.7	4,113.1	(¹)	(¹)	(¹)	156.7	144.7	143.7
New York City	3,578.4	3,587.2	3,577.7	.4	.2	.2	122.8	112.5	111.7
Niagara Falls	85.5	87.3	87.3	(¹)	(¹)	(¹)	4.5	4.7	4.8
Orange County	107.9	107.2	106.5	(¹)	(¹)	(¹)	5.6	5.1	4.9
Poughkeepsie	119.6	120.6	119.9	(¹)	(¹)	(¹)	7.0	6.6	6.4
Rochester	490.9	488.1	488.3	.8	.7	.7	21.6	21.0	21.1
Rockland County	103.4	104.5	104.4	(¹)	(¹)	(¹)	5.4	5.3	5.2
Syracuse	309.9	315.3	314.8	(¹)	(¹)	(¹)	18.6	17.7	18.0
Utica-Rome	128.6	129.5	129.0	(¹)	(¹)	(¹)	5.2	4.6	4.6
Westchester County	410.8	416.6	411.3	(¹)	(¹)	(¹)	26.2	24.6	24.6
North Carolina	3,052.2	3,067.7	3,077.1	4.9	5.0	5.0	169.2	166.1	166.0
Asheville	85.1	89.2	89.5	(¹)	(¹)	(¹)	4.8	4.5	4.5
Charlotte-Gastonia-Rock Hill	614.5	626.5	628.3	(¹)	(¹)	(¹)	37.2	38.5	38.6
Greensboro-Winston-Salem-High Point	478.1	474.5	476.8	(¹)	(¹)	(¹)	25.3	25.2	25.3
Raleigh-Durham	420.6	423.6	425.6	(¹)	(¹)	(¹)	22.5	22.2	22.2
North Dakota	260.1	265.6	265.3	4.3	4.5	4.5	12.1	11.8	12.2
Bismarck	39.0	40.2	40.4	(¹)	(¹)	(¹)	1.8	2.3	2.2
Fargo-Moorhead	72.9	76.3	75.9	(¹)	(¹)	(¹)	4.6	4.8	4.9
Grand Forks	30.1	30.8	30.8	(¹)	(¹)	(¹)	1.8	1.6	1.7
Ohio	4,830.3	4,934.0	4,941.1	18.5	18.5	18.4	212.3	216.6	220.0
Akron	281.6	290.1	290.6	.6	.6	.6	11.0	11.2	11.4
Canton	164.9	168.1	168.7	.8	.8	.8	7.8	8.2	8.3
Cincinnati	730.9	754.7	757.2	.5	.5	.5	36.5	37.6	38.2
Cleveland	941.6	966.6	960.8	.8	.9	.9	36.0	37.3	37.6
Columbus	700.7	724.0	727.5	.9	.9	.9	31.6	32.5	33.0
Dayton-Springfield	445.4	455.6	457.3	.5	.5	.5	19.0	19.1	19.2
Toledo	290.1	295.2	295.0	.3	.3	.3	12.7	13.4	13.6
Youngstown-Warren	197.8	196.4	201.3	.4	.5	.5	8.8	8.7	9.0
Oklahoma	1,145.1	1,160.0	1,164.6	43.9	45.8	45.6	36.2	37.6	37.2
Enid	21.2	21.4	21.0	1.0	.9	.9	.6	.7	.6
Lawton	34.2	34.3	34.7	.2	.3	.3	1.1	1.0	1.0
Oklahoma City	418.7	424.4	423.0	11.0	10.5	10.3	12.0	13.5	13.5
Tulsa	306.3	317.9	317.3	12.8	12.5	12.2	10.9	11.8	11.8
Oregon	1,218.9	1,244.6	1,254.8	1.6	1.5	1.5	49.6	52.3	53.7
Eugene-Springfield	113.1	117.4	117.4	.2	.2	.2	4.4	4.6	4.7
Portland	616.5	636.2	639.6	.4	.4	.4	27.5	27.7	28.4
Salem	109.5	109.1	111.9	.1	.1	.1	4.7	4.8	4.9
Pennsylvania	5,101.6	5,128.7	5,113.9	27.4	27.2	26.8	255.6	251.7	253.3
Allentown-Bethlehem	279.4	279.5	280.7	.6	.6	.6	14.6	13.7	13.8
Altoona	52.4	53.3	53.0	(¹)	(¹)	(¹)	2.6	2.8	2.7
Beaver County	48.9	49.5	49.2	(¹)	(¹)	(¹)	2.6	2.6	2.6
Erie	117.3	120.5	120.1	(¹)	(¹)	(¹)	4.2	4.6	4.5
Harrisburg-Lebanon-Carlisle	313.7	322.6	322.5	.4	.4	.4	15.2	16.2	16.4
Johnstown	80.5	81.0	80.6	2.6	2.6	2.6	3.3	3.3	3.3
Lancaster	188.3	189.4	189.8	.4	.5	.5	12.7	13.0	13.1
Philadelphia PMSA	2,178.7	2,197.9	2,190.7	1.0	1.1	1.1	107.9	106.6	106.4
Philadelphia City	757.8	762.8	759.5	(¹)	(¹)	(¹)	18.3	17.9	17.8
Pittsburgh	895.0	914.4	909.9	4.5	4.5	4.5	46.7	43.6	45.1

See footnotes at end of table.

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

B-8. Employees on nonfarm 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. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
New Mexico	43.4	42.9	43.6	28.2	27.9	28.0	137.0	136.2	136.5
Albuquerque	21.4	21.2	21.3	12.2	12.1	12.1	61.1	61.1	61.3
Las Cruces	3.6	3.4	3.5	1.3	1.3	1.3	8.9	9.2	9.3
Santa Fe	1.7	1.8	1.8	.9	.9	.9	11.3	11.7	11.7
New York	1,193.9	1,146.0	1,150.0	378.3	420.3	420.4	1,745.7	1,724.9	1,712.4
Albany-Schenectady-Troy	46.8	46.9	47.1	15.6	17.5	17.5	93.0	93.6	93.4
Binghamton	35.8	33.7	33.8	4.2	4.6	4.6	25.5	25.7	26.2
Buffalo	78.6	75.4	75.4	20.5	22.0	22.0	117.6	118.8	119.2
Elmira	9.1	6.6	8.6	1.2	1.4	1.4	10.8	11.0	11.0
Glens Falls	10.4	10.1	9.9	1.6	1.9	2.0	13.3	13.4	13.4
Nassau-Suffolk	160.9	152.2	151.9	42.1	49.4	49.3	305.3	301.3	300.3
New York PMSA	437.6	415.9	418.1	220.0	243.2	243.4	748.6	740.7	735.5
New York City	360.8	340.6	345.9	197.4	218.0	218.2	626.7	619.0	614.2
Niagara Falls	23.5	23.7	23.4	3.9	4.1	4.1	20.6	21.3	21.5
Orange County	14.5	13.1	13.0	6.4	6.9	6.8	30.4	29.8	29.6
Poughkeepsie	30.6	29.6	29.6	3.3	3.9	3.9	22.4	22.4	22.2
Rochester	140.3	133.4	133.9	15.3	15.4	15.4	107.0	108.2	108.2
Rockland County	15.1	14.5	14.5	4.9	5.0	5.0	24.1	23.6	23.6
Syracuse	53.0	52.3	52.2	18.0	19.2	19.2	76.1	77.4	77.6
Utica-Rome	24.5	23.3	23.5	3.8	4.4	4.4	28.7	29.2	29.1
Westchester County	59.6	58.7	55.7	17.1	19.6	19.5	93.2	93.7	93.2
North Carolina	868.6	843.3	849.9	153.7	155.8	156.7	718.9	733.6	733.9
Asheville	20.0	19.5	20.1	4.2	4.3	4.3	20.7	22.2	22.2
Charlotte-Gastonia-Rock Hill	155.4	151.9	153.4	50.4	51.0	51.3	154.3	158.0	158.3
Greensboro-Winston-Salem-High Point	150.0	144.3	145.5	26.4	25.7	26.0	111.8	111.4	111.7
Raleigh-Durham	63.3	63.3	63.4	20.4	21.0	21.0	90.6	91.2	90.8
North Dakota	16.2	17.0	17.1	17.0	17.2	17.2	70.6	70.8	70.7
Bismarck	2.2	2.3	2.3	2.8	3.1	3.1	10.5	10.5	10.5
Fargo-Moorhead	5.4	5.8	5.8	4.7	4.7	4.7	21.5	21.8	21.7
Grand Forks	1.3	1.1	1.1	1.6	1.7	1.7	9.0	9.4	9.5
Ohio	1,128.0	1,118.1	1,123.8	218.5	220.9	221.2	1,181.1	1,218.7	1,223.4
Akron	68.0	67.6	67.9	13.2	13.6	13.7	70.8	73.1	73.5
Canton	45.9	45.5	45.2	5.8	5.7	5.7	41.5	42.4	42.8
Cincinnati	147.8	148.7	149.1	39.7	41.2	41.4	191.9	201.5	202.4
Cleveland	206.6	207.3	205.6	42.7	43.5	43.4	227.7	235.7	236.5
Columbus	105.2	104.2	105.6	31.1	31.6	31.9	181.2	189.6	191.3
Dayton-Springfield	104.7	105.5	104.7	17.7	18.6	18.8	101.3	103.7	104.2
Toledo	61.6	60.0	60.0	14.6	14.8	14.7	74.8	76.8	77.2
Youngstown-Warren	49.5	43.6	48.3	7.8	7.9	8.0	53.7	55.9	56.0
Oklahoma	163.0	165.0	166.8	65.8	66.8	66.9	275.5	282.0	283.0
Enid	1.6	1.5	1.5	2.2	2.1	2.1	6.2	6.3	6.3
Lawton	3.4	3.5	3.6	1.9	1.7	1.7	8.5	8.6	8.7
Oklahoma City	48.8	47.4	44.6	20.7	21.2	21.2	103.1	104.5	105.4
Tulsa	52.8	54.6	54.7	24.4	25.3	25.4	72.4	75.8	75.4
Oregon	229.7	226.3	229.8	63.2	63.7	64.2	316.2	325.1	330.6
Eugene-Springfield	21.6	20.8	21.3	4.5	4.5	4.4	29.1	30.9	30.9
Portland	103.7	105.2	105.4	37.9	37.7	37.9	166.4	173.1	175.6
Salem	20.5	18.8	20.9	2.8	2.7	2.7	23.8	23.9	23.9
Pennsylvania	1,054.5	1,029.3	1,033.5	237.4	249.5	249.6	1,177.6	1,174.8	1,175.7
Allentown-Bethlehem	76.0	73.8	74.7	13.6	13.9	13.9	61.6	62.0	62.2
Altoona	10.6	10.2	10.1	4.5	4.5	4.5	14.1	14.3	14.5
Beaver County	9.2	9.1	9.1	4.9	5.1	5.1	11.6	11.7	11.7
Erie	35.9	36.9	36.9	4.4	4.6	4.6	25.6	25.8	25.8
Harrisburg-Lebanon-Carlisle	52.3	51.4	51.2	18.5	19.0	19.1	71.6	73.0	72.7
Johnstown	14.8	14.8	14.8	4.8	4.8	4.7	17.3	17.6	17.7
Lancaster	59.2	57.3	57.7	7.2	7.3	7.3	47.5	48.2	48.1
Philadelphia PMSA	363.8	353.9	353.9	90.6	98.8	99.7	507.2	504.5	504.7
Philadelphia City	86.1	82.1	82.3	37.8	41.2	41.2	146.3	146.2	146.0
Pittsburgh	124.6	123.7	124.0	45.5	49.7	49.9	226.1	228.6	228.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
New Mexico	28.8	26.8	28.6	141.9	146.1	145.3	137.3	142.8	141.6
Albuquerque	14.4	14.3	14.2	71.0	72.7	72.1	46.6	47.9	47.7
Las Cruces	1.7	1.7	1.7	7.7	7.7	7.8	15.3	15.1	15.8
Santa Fe	2.1	2.1	2.1	18.1	16.7	16.6	22.8	24.6	24.3
New York	804.0	794.4	792.9	2,367.8	2,421.4	2,423.7	1,398.0	1,439.9	1,429.5
Albany-Schenectady-Troy	25.2	25.5	25.7	116.6	116.2	117.7	109.1	111.4	111.9
Binghamton	4.2	4.3	4.3	25.2	25.2	25.4	18.9	19.5	19.4
Buffalo	28.6	28.8	28.7	123.3	128.5	128.0	72.8	71.8	71.4
Elmira	1.4	1.5	1.5	10.5	11.1	11.2	6.5	6.8	6.8
Glens Falls	1.8	1.7	1.7	13.4	13.4	13.4	8.7	9.0	9.0
Nassau-Suffolk	84.5	85.0	84.7	311.3	318.8	316.5	169.4	175.7	168.8
New York PMSA	570.4	561.8	558.7	1,298.1	1,328.8	1,324.9	680.6	692.6	688.8
New York City	533.3	525.2	522.4	1,138.1	1,161.8	1,158.1	598.8	610.1	607.1
Niagara Falls	2.0	2.1	2.1	18.0	18.2	18.3	12.8	13.1	13.1
Orange County	4.9	5.0	5.0	24.2	24.1	24.3	21.9	23.1	22.8
Poughkeepsie	5.0	5.0	5.0	28.5	29.1	29.2	22.8	24.0	23.7
Rochester	23.6	23.7	23.7	122.1	124.2	123.8	60.2	61.5	61.4
Rockland County	5.6	5.6	5.8	28.1	29.4	29.6	20.2	21.1	20.9
Syracuse	20.4	20.5	20.5	73.5	76.9	76.8	50.2	51.4	50.7
Utica-Rome	7.5	7.8	7.8	28.5	29.1	29.2	30.3	31.1	30.5
Westchester County	30.7	30.2	29.9	126.2	132.1	131.4	57.7	57.6	56.9
North Carolina	134.6	135.1	135.2	570.2	591.0	591.4	432.1	437.8	439.0
Asheville	2.9	2.9	2.9	21.0	23.0	22.8	11.5	12.8	12.7
Charlotte-Gastonia-Rock Hill	38.3	38.8	38.7	115.6	122.8	122.7	63.3	65.5	65.3
Greensboro-Winston-Salem-High Point	23.8	23.6	23.5	97.4	99.0	99.3	43.4	45.3	45.5
Raleigh-Durham	23.6	24.2	24.3	108.1	109.5	110.4	92.1	92.2	93.5
North Dakota	12.4	12.6	12.6	66.4	69.4	69.5	61.1	62.3	61.5
Bismarck	1.5	1.5	1.5	11.7	11.9	12.1	8.5	8.6	8.7
Fargo-Moorhead	4.5	4.8	4.6	20.3	21.6	21.5	11.9	13.0	12.7
Grand Forks	1.1	1.2	1.2	7.0	7.2	7.1	8.3	8.6	8.5
Ohio	256.1	260.4	260.7	1,160.0	1,199.6	1,202.5	655.8	681.2	671.1
Akron	10.7	10.8	10.8	69.1	74.0	73.8	38.0	39.1	38.7
Canton	6.9	6.9	6.9	38.5	39.9	40.2	17.7	18.7	18.8
Cincinnati	43.2	43.6	43.6	187.0	193.3	194.1	84.3	88.3	87.9
Cleveland	57.5	58.6	58.6	254.9	263.2	264.2	115.4	120.1	114.0
Columbus	60.7	62.0	61.8	173.0	181.7	181.9	117.1	121.5	121.0
Dayton-Springfield	18.1	17.8	17.8	113.9	117.2	118.2	70.2	73.2	73.8
Toledo	12.2	12.1	12.2	77.1	79.6	79.6	36.7	38.2	37.4
Youngstown-Warren	8.8	8.8	8.8	47.1	48.8	48.5	21.6	22.1	22.2
Oklahoma	58.9	55.9	55.8	262.5	265.4	264.5	239.3	241.5	244.8
Enid .....	.9	.9	.9	5.1	5.2	5.0	3.6	3.8	3.7
Lawton	1.6	1.7	1.8	6.4	6.6	6.7	11.1	10.9	10.9
Oklahoma City	24.7	24.3	24.2	103.2	107.7	107.1	95.2	95.3	96.7
Tulsa	16.6	18.0	18.1	80.1	83.5	83.0	36.3	36.4	36.7
Oregon	76.8	78.1	78.0	284.1	292.0	294.0	197.7	205.6	203.0
Eugene-Springfield	5.7	5.9	6.0	27.8	29.0	29.2	19.8	21.5	20.7
Portland	50.2	51.0	50.9	155.8	181.8	163.0	74.8	79.3	78.0
Salem	5.5	5.6	5.6	22.1	22.7	23.2	30.0	30.5	30.6
Pennsylvania	300.7	300.1	298.3	1,386.1	1,421.9	1,417.2	662.3	674.2	659.5
Allentown-Bethlehem	14.5	14.5	14.4	70.4	70.9	71.2	28.1	30.1	29.9
Altoona	1.9	2.0	1.9	11.6	12.0	12.0	7.1	7.5	7.3
Beaver County	1.7	1.7	1.6	11.5	11.7	11.6	7.4	7.6	7.5
Erie	5.6	5.7	5.7	28.7	29.9	30.2	12.9	13.0	12.4
Harrisburg-Lebanon-Carlisle	20.2	21.8	21.9	70.2	74.6	74.6	65.3	66.2	66.2
Johnstown	4.5	4.4	4.4	20.6	20.9	20.8	12.6	12.6	12.3
Lancaster	7.5	7.6	7.7	39.8	41.3	41.3	14.0	14.2	14.1
Philadelphia PMSA	161.0	162.0	161.4	653.8	667.7	667.4	293.4	303.3	296.1
Philadelphia City	70.5	69.8	69.6	255.9	258.4	258.2	142.9	147.2	144.4
Pittsburgh	54.2	55.5	55.4	292.0	303.9	301.1	101.4	104.9	101.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Pennsylvania—Continued									
Reading	153.8	153.5	154.3	(¹)	(¹)	(¹)	7.9	8.1	8.4
Scranton-Wilkes-Barre	308.0	308.4	309.3	0.5	0.6	0.6	16.3	16.3	16.3
Sharon	42.7	43.8	43.7	(¹)	(¹)	(¹)	1.6	1.7	1.7
State College	58.0	58.1	58.1	.3	.3	.3	3.7	3.9	3.9
Williamsport	51.3	52.2	51.5	(¹)	(¹)	(¹)	2.7	2.9	3.0
York	178.3	179.6	179.2	.5	.5	.4	11.4	12.1	11.8
Rhode Island									
Pawtucket-Woonsocket-Attleboro	460.1	447.8	449.4	.2	.1	.1	21.7	19.3	19.1
Providence	131.8	128.7	130.3	.2	.2	.2	5.8	5.0	5.0
Providence	327.4	322.9	323.2	.1	.1	.1	16.3	15.5	15.5
South Carolina									
Charleston	1,506.7	1,541.7	1,547.3	1.8	1.8	1.8	96.4	102.1	101.9
Columbia	195.5	208.6	208.4	(¹)	(¹)	(¹)	13.7	15.4	15.4
Greenville-Spartanburg	234.5	239.9	240.1	(¹)	(¹)	(¹)	14.3	15.9	16.3
Greenville-Spartanburg	329.8	334.1	335.1	(¹)	(¹)	(¹)	23.6	24.5	23.8
South Dakota									
Rapid City	278.3	282.0	281.7	2.8	2.9	2.9	12.2	12.2	12.4
Sioux Falls	37.9	39.0	39.2	.3	.3	.3	2.1	2.1	2.2
Sioux Falls	71.1	73.9	73.4	(¹)	(¹)	(¹)	3.7	4.0	3.9
Tennessee									
Chattanooga	2,171.2	2,170.3	2,183.3	6.4	6.4	6.4	103.5	102.8	102.3
Johnson City-Kingsport-Bristol	197.0	197.3	196.8	.8	.8	.8	8.0	8.7	8.7
Knoxville	165.0	171.9	172.6	(¹)	(¹)	(¹)	8.0	8.1	8.1
Memphis	267.3	264.9	265.2	1.8	1.9	1.9	15.9	15.2	15.1
Nashville	462.1	465.7	468.8	(¹)	(¹)	(¹)	19.5	20.2	20.3
Nashville	488.6	492.9	495.4	(¹)	(¹)	(¹)	26.1	25.2	24.9
Texas									
Abilene	6,803.5	6,930.3	6,936.3	174.4	179.8	180.5	320.5	327.8	330.7
Amarillo	47.4	47.6	47.6	1.5	1.5	1.4	1.5	1.6	1.6
Austin	76.3	76.9	76.9	1.3	1.1	1.0	3.7	3.6	3.7
Beaumont-Port Arthur	355.9	361.1	361.9	.7	.6	.6	11.4	11.2	11.3
Brazoria	134.7	139.2	139.2	1.5	1.7	1.7	10.0	10.7	10.8
Brownsville-Harlingen	61.9	64.8	64.8	2.1	2.1	2.1	8.2	9.6	9.6
Bryan-College Station	72.5	76.1	75.5	(¹)	(¹)	(¹)	2.2	2.2	2.2
Corpus Christi	49.8	51.6	52.2	.5	.5	.5	1.7	1.7	1.8
Dallas	126.9	130.0	129.5	3.4	3.4	3.4	9.3	10.4	10.0
El Paso	1,344.9	1,362.5	1,364.2	17.5	17.5	17.6	48.4	46.6	46.9
Ft. Worth-Arlington	201.7	206.1	207.0	(¹)	(¹)	(¹)	8.4	8.2	8.2
Galveston-Texas City	565.7	577.8	579.8	3.9	4.0	4.0	21.8	21.4	21.5
Houston	75.4	76.4	75.9	.5	.8	.6	6.2	6.3	6.2
Killeen-Temple	1,506.0	1,556.6	1,556.2	65.6	69.1	70.1	97.8	101.2	103.4
Laredo	73.3	74.3	74.1	(¹)	(¹)	(¹)	3.4	3.2	3.2
Longview-Marshall	41.8	44.1	44.4	1.6	1.7	1.7	1.3	1.2	1.3
Lubbock	66.9	68.8	69.0	3.5	3.5	3.5	3.0	3.7	3.8
McAllen-Edinburg-Mission	94.1	96.1	96.7	.3	.2	.2	3.2	3.5	3.4
Midland	94.2	98.3	97.5	.9	.9	.9	4.2	4.5	4.6
Odessa	43.9	44.8	44.7	8.7	8.6	8.5	1.4	1.4	1.5
San Angelo	42.4	42.5	42.7	5.2	4.8	4.9	2.1	2.1	2.1
San Antonio	36.2	35.7	35.6	.5	.6	.6	1.2	1.1	1.1
Sherman-Denison	508.5	513.0	511.4	2.2	2.2	2.2	21.8	21.4	21.5
Texas	36.7	36.5	36.5	(¹)	(¹)	(¹)	1.7	1.7	1.7
Tyler	46.1	46.2	46.2	.1	.1	.1	1.6	1.5	1.5
Victoria	60.8	62.1	61.6	1.7	1.6	1.6	1.7	1.7	1.8
Waco	27.3	28.2	28.2	1.3	1.5	1.5	1.6	2.0	1.9
Wichita Falls	79.7	80.3	80.1	(¹)	(¹)	(¹)	3.0	3.2	3.2
Wichita Falls	50.3	49.9	49.8	1.5	1.4	1.4	1.6	1.6	1.6

See footnotes at end of table.

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

B-8. Employees on nonfarm 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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Pennsylvania—Continued									
Reading	48.3	45.1	45.6	6.1	6.4	6.4	34.8	35.7	35.9
Scranton-Wilkes-Barre	71.9	68.4	70.0	15.0	16.1	16.3	73.4	74.0	73.6
Sharon	11.5	11.9	11.8	1.9	2.0	2.0	10.7	10.5	10.5
State College	8.0	7.9	7.8	1.5	1.7	1.7	11.4	11.5	11.6
Williamsport	16.1	15.5	14.8	1.7	2.0	2.0	11.7	11.9	11.9
York	60.1	58.0	58.2	7.2	7.0	7.0	43.1	44.6	44.7
Rhode Island									
Pawtucket-Woonsocket-Attleboro	48.8	46.2	48.0	3.7	3.8	4.0	33.6	34.1	34.1
Providence	69.7	64.8	87.9	10.8	12.1	11.2	73.7	72.4	72.3
South Carolina									
Charleston	20.9	21.3	21.4	10.1	10.4	10.2	50.6	54.0	53.8
Columbia	28.8	28.7	28.5	11.0	11.2	11.3	54.5	53.9	54.2
Greenville-Spartanburg	103.6	100.4	100.9	13.4	13.5	13.5	77.9	80.5	80.8
South Dakota									
Rapid City	3.7	3.9	3.9	2.2	2.0	2.1	11.4	12.1	12.2
Sioux Falls	8.3	8.6	8.6	5.1	5.1	5.1	19.8	20.8	20.8
Tennessee									
Chattanooga	47.8	46.3	48.8	8.0	8.0	8.1	47.1	46.3	46.4
Johnson City-Kingsport-Bristol	53.9	54.4	54.2	6.2	8.2	6.3	38.4	39.3	39.5
Knoxville	51.7	49.2	49.2	10.7	11.0	11.1	70.1	69.0	69.1
Memphis	62.8	62.1	62.3	47.2	47.4	47.4	125.8	127.4	127.8
Nashville	88.9	89.5	89.4	26.7	26.6	26.7	120.4	119.0	119.7
Texas									
Abilene	4.8	4.5	4.4	2.6	2.7	2.7	13.2	13.2	13.3
Amarillo	8.8	8.7	8.5	5.7	5.5	5.7	22.2	21.9	22.1
Austin	44.8	45.6	45.8	11.3	11.2	11.2	78.9	78.0	77.9
Beaumont-Port Arthur	24.7	25.1	25.1	9.5	9.7	9.6	32.6	32.9	32.8
Brazoria	16.1	16.5	16.5	2.5	2.6	2.6	11.6	11.9	12.0
Brownsville-Harlingen	10.8	10.8	10.9	3.2	3.3	3.4	19.8	20.4	20.5
Bryan-College Station	3.8	3.8	3.8	1.3	1.5	1.5	11.4	11.2	11.6
Corpus Christi	11.6	12.0	11.9	6.9	6.8	6.6	32.5	32.2	32.1
Dallas	224.3	221.8	221.6	78.6	80.4	80.5	347.6	358.3	360.2
El Paso	42.2	40.7	41.5	10.3	10.9	10.7	51.6	52.9	53.3
Ft. Worth-Arlington	120.6	117.3	118.6	52.6	56.1	56.2	146.0	146.5	147.3
Galveston-Texas City	8.9	8.8	8.6	4.8	5.4	5.3	14.4	14.4	14.5
Houston	163.3	185.5	165.9	106.9	107.6	107.5	369.7	375.5	375.0
Killeen-Temple	8.7	8.8	8.8	2.7	2.6	2.6	16.8	16.8	16.8
Laredo	1.7	1.8	1.8	5.8	6.1	6.1	13.6	14.1	14.3
Longview-Marshall	16.0	16.4	16.3	3.3	3.4	3.4	17.1	16.9	17.1
Lubbock	7.4	7.2	7.2	4.9	5.5	5.5	27.4	28.3	28.2
McAllen-Edinburg-Mission	13.1	12.5	12.6	3.1	2.9	2.9	29.4	31.2	30.9
Midland	2.4	2.3	2.3	2.3	2.3	2.3	10.7	11.1	11.1
Odessa	4.1	4.2	4.2	1.9	1.9	1.9	12.5	12.8	12.8
San Angelo	5.4	5.0	5.0	2.8	2.5	2.5	9.2	8.8	8.8
San Antonio	48.8	46.3	45.7	19.7	19.9	19.6	130.8	132.8	133.3
Sherman-Denison	11.1	10.9	10.9	1.6	1.3	1.3	8.1	8.1	8.2
Texarkana	7.2	7.1	7.1	2.3	2.4	2.4	11.0	10.9	10.9
Tyler	10.6	11.0	10.9	2.8	2.8	2.8	16.3	16.4	16.3
Victoria	3.0	3.1	3.1	1.3	1.3	1.3	7.6	7.7	7.9
Waco	15.6	15.7	15.7	3.4	3.5	3.5	18.6	18.8	18.8
Wichita Falls	8.5	8.0	8.0	2.5	2.6	2.6	11.8	11.8	11.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Pennsylvania-Continued									
Reading	9.0	9.1	9.1	32.4	33.1	33.0	15.3	16.0	15.9
Scranton-Wilkes-Barre	13.3	13.8	13.6	78.2	79.5	79.9	39.4	39.7	39.0
Sharon	1.4	1.4	1.4	11.1	11.6	11.7	4.5	4.7	4.6
State College	1.9	2.0	2.0	10.9	11.2	11.0	20.3	19.6	19.8
Williamsport	2.4	2.5	2.5	10.4	10.9	11.0	6.3	6.5	6.3
York	5.2	5.2	5.2	33.5	34.6	34.6	17.3	17.6	17.3
Rhode Island									
.....	27.1	26.5	26.7	122.5	123.2	121.8	57.0	56.8	55.7
Pawtucket-Woonsocket-Attleboro	3.8	4.0	4.0	26.2	26.2	26.0	9.7	9.2	9.0
Providence	22.4	21.8	22.0	91.6	93.4	92.3	42.8	43.0	41.9
South Carolina									
.....	70.1	72.9	73.0	280.7	292.4	292.3	253.8	268.1	272.3
Charleston	8.9	9.1	9.1	41.9	45.6	45.4	49.4	52.8	53.1
Columbia	18.6	18.9	18.7	47.4	47.3	47.7	59.9	64.0	63.4
Greenville-Spartanburg	12.4	12.4	12.4	61.8	66.1	66.3	37.1	36.7	37.4
South Dakota									
.....	16.1	16.6	16.5	68.8	69.3	69.9	57.0	57.5	56.4
Rapid City	1.7	1.5	1.6	10.3	10.6	10.6	6.2	6.5	6.3
Sioux Falls	7.6	7.8	7.8	19.4	19.9	19.6	7.2	7.7	7.6
Tennessee									
.....	104.5	104.4	104.4	474.0	484.6	486.6	324.2	321.4	331.8
Chattanooga	12.6	13.2	13.3	39.6	41.2	41.0	33.5	32.8	33.7
Johnson City-Kingsport-Bristol	5.5	5.3	5.3	29.9	33.6	34.0	23.1	25.0	25.2
Knoxville	9.9	10.3	10.3	58.3	58.7	58.4	49.0	49.6	50.1
Memphis	26.2	26.6	26.6	109.3	112.9	113.3	71.3	69.1	71.1
Nashville	32.2	32.2	32.4	129.5	136.3	136.3	64.8	64.1	65.9
Texas									
.....	433.6	433.7	434.0	1,618.9	1,675.0	1,672.6	1,184.9	1,219.2	1,217.5
Abilene	2.3	2.2	2.2	13.2	13.5	13.6	8.3	8.4	8.4
Amarillo	4.0	3.9	3.9	17.4	17.9	17.8	13.2	14.3	14.2
Austin	23.9	24.0	24.0	92.0	94.1	94.2	92.9	96.4	96.9
Beaumont-Port Arthur	5.3	5.4	5.4	31.6	33.4	33.7	19.5	20.3	20.1
Brazoria	1.8	1.8	1.8	8.9	9.2	9.1	10.7	11.1	11.1
Brownsville-Harlingen	3.7	3.8	3.8	16.7	18.3	17.5	16.1	17.3	17.2
Bryan-College Station	1.7	1.7	1.8	9.2	9.5	9.5	20.2	21.7	21.7
Corpus Christi	6.3	6.2	6.3	29.8	30.6	30.5	27.1	28.6	28.7
Dallas	130.5	128.6	128.8	349.9	351.6	351.4	148.1	157.7	157.2
El Paso	8.5	8.5	8.3	41.9	43.2	43.1	38.8	41.7	41.9
Ft. Worth-Arlington	28.2	27.8	28.0	125.1	130.2	129.8	67.5	74.5	74.4
Galveston-Texas City	4.5	4.7	4.6	14.1	14.3	14.4	22.0	21.9	21.7
Houston	101.7	102.7	102.8	415.4	436.9	433.8	185.6	198.1	197.7
Killeen-Temple	3.1	3.3	3.2	17.3	17.5	17.5	21.3	22.1	22.0
Laredo	1.8	1.9	1.9	7.0	7.4	7.4	9.0	9.9	9.9
Longview-Marshall	2.7	2.7	2.6	13.0	13.7	13.8	8.3	8.5	8.5
Lubbock	5.5	5.4	5.4	23.6	23.7	23.9	21.8	22.3	22.9
McAllen-Edinburg-Mission	4.1	4.4	4.4	15.8	16.6	16.6	23.6	25.3	24.6
Midland	2.4	2.4	2.4	9.5	9.8	9.8	6.5	6.9	6.8
Odessa	1.6	1.5	1.5	7.6	7.8	7.8	7.4	7.4	7.5
San Angelo	1.7	1.6	1.7	8.7	8.8	8.8	6.7	7.3	7.1
San Antonio	40.9	40.5	40.6	132.8	135.3	134.8	111.5	114.6	113.7
Sherman-Denison	1.9	1.9	1.9	8.3	8.5	8.4	4.0	4.1	4.1
Texarkana	1.8	1.8	1.8	10.5	11.1	11.1	11.6	11.3	11.3
Tyler	3.4	3.5	3.3	15.2	15.5	15.5	9.1	9.6	9.4
Victoria	1.5	1.5	1.5	6.0	5.8	5.8	5.0	5.3	5.2
Waco	5.1	5.1	5.1	21.5	22.0	22.1	12.5	12.0	11.7
Wichita Falls	2.3	2.3	2.3	12.6	12.6	12.6	9.5	9.6	9.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
Utah	892.0	719.2	723.8	8.2	8.7	8.8	28.8	29.0	29.4
Provo-Orem	85.7	88.8	90.1	(¹)	(¹)	(¹)	3.0	3.0	3.0
Salt Lake City-Ogden	477.9	492.1	495.0	2.7	2.8	2.8	19.7	20.7	21.0
Vermont	259.5	253.3	252.9	.6	.5	.5	20.4	16.5	16.9
Barre-Montpelier	34.5	32.9	33.6	(¹)	(¹)	(¹)	2.7	2.3	2.4
Burlington	78.7	79.1	77.5	(¹)	(¹)	(¹)	6.0	4.7	4.9
Virginia	2,871.5	2,932.1	2,928.7	14.8	18.6	16.7	204.9	198.9	197.7
Bristol	32.2	32.9	33.3	(¹)	(¹)	(¹)	1.2	1.1	1.1
Charlottesville	71.4	75.1	74.6	(¹)	(¹)	(¹)	4.6	4.4	4.3
Danville	42.1	41.2	40.6	(¹)	(¹)	(¹)	2.4	2.3	2.2
Lynchburg	76.2	76.2	76.1	(¹)	(¹)	(¹)	3.9	3.9	4.0
Norfolk-Virginia Beach-Newport News	589.2	597.9	596.5	(¹)	(¹)	(¹)	36.7	37.7	37.6
Northern Virginia	780.3	786.5	780.9	.6	.6	.5	66.0	55.9	55.3
Richmond-Petersburg	468.4	476.0	476.2	.8	.8	.8	31.7	32.1	32.0
Roanoke	125.4	127.2	127.1	(¹)	(¹)	(¹)	6.1	8.1	8.0
Washington	2,065.7	2,139.4	2,151.4	3.7	4.1	4.1	116.8	125.4	129.0
Seattle	1,065.9	1,104.0	1,108.6	.5	.6	.6	62.9	62.6	63.4
West Virginia	610.0	630.6	618.4	35.1	36.3	36.0	24.9	24.6	24.5
Charleston	107.5	113.9	113.7	1.9	2.0	2.1	4.1	5.3	5.5
Huntington-Ashland	108.3	110.7	110.0	1.5	1.6	1.7	5.1	5.5	5.5
Parkersburg-Marietta	61.3	62.7	62.1	.5	.5	.5	3.3	3.4	3.3
Wheeling	60.3	62.1	61.4	2.2	2.5	2.5	2.2	2.4	2.4
Wisconsin	2,249.9	2,283.7	2,290.3	2.6	2.7	2.7	90.3	91.1	91.6
Appleton-Oshkosh-Neenah	158.0	160.9	161.7	(¹)	(¹)	(¹)	7.7	6.2	8.2
Eau Claire	59.7	61.7	61.5	(¹)	(¹)	(¹)	2.1	2.8	2.8
Green Bay	103.3	104.8	106.3	(¹)	(¹)	(¹)	5.1	5.8	6.1
Janesville-Beloit	57.9	59.1	59.5	(¹)	(¹)	(¹)	2.1	2.0	2.2
Kenosha	39.6	39.9	41.0	(¹)	(¹)	(¹)	1.6	1.6	1.4
La Crosse	53.1	53.2	53.1	(¹)	(¹)	(¹)	2.3	2.1	2.2
Madison	212.9	220.1	220.1	(¹)	(¹)	(¹)	8.9	9.3	9.3
Milwaukee	750.0	763.6	765.8	(¹)	(¹)	(¹)	28.9	28.5	29.6
Racine	78.4	78.1	78.7	(¹)	(¹)	(¹)	3.1	2.5	2.6
Sheboygan	52.9	54.2	54.0	(¹)	(¹)	(¹)	1.6	1.5	1.5
Wausau	53.3	54.5	55.0	(¹)	(¹)	(¹)	2.4	2.3	2.2
Wyoming	199.9	199.9	199.7	17.7	18.0	17.9	11.9	11.6	11.9
Casper	26.0	28.1	26.5	2.4	2.4	2.5	1.7	1.7	1.7
Puerto Rico	823.0	871.8	842.8	.9	.9	.9	43.2	45.9	45.6
Caguas	51.6	54.4	52.1	(¹)	(¹)	(¹)	1.5	1.3	1.4
Mayaguez	59.8	60.6	58.1	(¹)	(¹)	(¹)	2.6	2.0	2.0
Ponce	55.6	60.9	60.2	(¹)	(¹)	(¹)	3.7	4.3	4.1
San Juan	508.2	527.3	517.8	.5	.5	.5	32.0	32.7	32.8
Virgin Islands	43.3	41.5	41.9	(¹)	(¹)	(¹)	2.4	2.6	2.6

See footnotes at end of table.

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

B-8. Employees on nonfarm 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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Utah	103.6	106.6	107.1	41.8	43.2	43.5	169.0	177.1	178.0
Provo-Orem	13.5	13.6	13.7	2.8	2.8	2.7	20.2	20.7	20.9
Salt Lake City-Ogden	67.3	68.2	68.6	31.6	32.8	33.1	121.3	123.4	124.1
Vermont	48.3	44.7	45.2	9.4	10.9	10.8	62.4	61.8	61.6
Barre-Montpelier	5.0	4.6	4.8	.9	.9	.9	7.7	7.3	7.4
Burlington	16.3	15.4	15.3	2.9	3.7	3.7	20.1	20.3	19.7
Virginia	429.4	421.5	422.1	143.0	154.6	153.9	662.1	674.0	674.5
Bristol	10.3	10.5	10.8	1.3	1.2	1.2	8.6	8.9	8.9
Charlottesville	9.2	8.8	9.0	2.8	2.8	2.8	14.7	15.0	14.9
Danville	17.0	15.6	15.1	1.0	1.0	1.0	9.3	9.4	9.4
Lynchburg	24.2	23.8	23.8	2.7	2.6	2.6	17.1	17.6	17.3
Norfolk-Virginia Beach-Newport News	68.7	69.0	68.4	25.4	28.1	27.7	147.2	147.1	146.2
Northern Virginia	35.7	35.2	35.1	52.4	56.2	55.9	176.0	179.9	179.9
Richmond-Petersburg	64.7	62.9	62.8	22.1	24.3	24.3	111.9	111.5	111.6
Roanoke	20.0	19.4	19.6	7.6	7.9	7.8	33.8	34.6	34.7
Washington	371.4	365.8	369.4	110.5	113.6	114.7	512.0	536.7	540.0
Seattle	219.2	219.1	219.4	67.5	70.5	71.6	257.6	271.0	273.0
West Virginia	88.0	87.8	86.6	34.3	37.2	37.2	147.2	147.1	147.9
Charleston	10.8	11.1	11.0	7.9	9.1	9.3	29.1	30.2	30.3
Huntington-Ashland	20.8	20.6	20.6	7.9	8.1	8.1	27.5	28.3	28.5
Parkersburg-Marietta	14.4	14.4	14.2	2.4	2.6	2.6	15.2	15.6	15.5
Wheeling	7.5	7.6	7.5	3.3	3.5	3.5	16.6	17.2	17.1
Wisconsin	568.4	567.5	572.5	99.2	99.5	100.5	544.1	552.8	553.7
Appleton-Oshkosh-Neenah	55.6	55.6	55.6	5.2	5.6	5.7	34.6	35.6	36.3
Eau Claire	11.8	10.8	10.9	3.4	3.6	3.8	16.7	17.0	17.0
Green Bay	26.0	25.6	26.0	7.5	7.6	7.6	26.6	26.5	26.8
Janesville-Beloit	17.9	17.7	17.8	2.4	2.1	2.2	14.0	14.0	13.8
Kenosha	10.1	8.7	9.6	1.5	1.8	1.8	10.5	11.0	11.0
La Crosse	10.6	10.1	10.1	2.3	2.5	2.5	14.5	14.0	14.1
Madison	25.6	26.5	26.6	6.6	6.5	6.5	48.9	51.0	51.1
Milwaukee	173.2	173.0	173.4	36.2	35.9	36.6	175.6	180.0	180.9
Racine	26.3	25.2	25.9	2.4	2.2	2.2	19.0	19.3	19.5
Sheboygan	22.7	23.2	23.2	1.6	1.8	1.6	10.1	10.3	10.3
Wausau	15.5	15.7	15.7	3.0	3.1	3.1	13.6	14.0	14.1
Wyoming	9.0	9.0	9.0	14.8	14.8	14.8	47.4	48.6	48.6
Casper	1.7	1.7	1.7	1.7	1.8	1.8	8.0	7.9	8.1
Puerto Rico	157.1	154.8	154.3	18.4	19.1	20.1	151.7	155.9	156.6
Caguas	15.4	15.0	15.1	.4	.4	.3	10.8	11.5	11.5
Mayaguez	21.0	20.3	19.9	.4	.5	.5	8.2	8.3	8.2
Ponce	9.9	10.0	10.2	2.0	1.8	1.8	9.0	9.1	9.0
San Juan	66.1	67.3	67.3	14.2	14.2	14.4	103.4	105.9	106.2
Virgin Islands	2.4	2.3	2.3	2.4	2.2	2.2	10.0	10.4	10.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Utah	33.6	34.4	34.7	169.3	178.9	181.0	137.7	141.3	141.3
Provo-Orem	2.3	2.4	2.4	30.5	32.9	33.4	13.4	13.2	14.0
Salt Lake City-Ogden	27.6	27.6	27.9	116.5	121.3	122.8	91.2	95.3	94.7
Vermont	13.4	13.5	13.4	68.2	67.4	67.1	36.8	38.0	37.4
Barre-Montpelier	3.2	2.9	2.9	8.3	8.1	8.1	6.7	6.8	7.1
Burlington	4.2	4.3	4.3	19.0	19.7	18.9	10.2	11.0	10.7
Virginia	155.7	158.1	157.7	720.8	748.4	749.9	540.8	560.0	556.2
Bristol	1.2	1.2	1.2	4.9	5.0	5.0	4.7	5.0	5.1
Charlottesville	4.5	4.7	4.6	13.7	14.1	14.1	22.1	25.3	24.9
Danville	1.3	1.3	1.3	6.4	6.7	6.7	4.7	4.9	4.9
Lynchburg	3.7	3.8	3.7	15.4	14.9	15.0	9.2	9.6	9.7
Norfolk-Virginia Beach-Newport News	27.3	28.0	27.8	152.2	156.2	156.2	129.7	131.8	132.6
Northern Virginia	52.7	52.0	51.6	256.2	258.2	257.7	140.7	148.5	144.9
Richmond-Petersburg	39.7	40.1	40.4	106.3	110.0	110.4	91.2	94.3	93.9
Roanoke	9.0	9.0	8.9	32.0	33.1	33.0	14.9	15.1	15.1
Washington	114.4	118.1	118.6	479.5	503.3	506.9	357.4	372.4	368.7
Seattle	72.5	74.0	74.6	255.7	268.0	268.7	130.0	138.2	138.3
West Virginia	24.1	24.6	24.6	139.4	144.9	145.0	117.0	128.1	116.6
Charleston	6.3	6.2	6.2	27.6	28.8	28.9	19.8	21.2	20.4
Huntington-Ashland	3.8	3.9	3.9	24.2	24.6	24.5	17.5	18.1	17.2
Parkersburg-Marietta	2.1	2.3	2.2	14.3	14.6	14.7	9.1	9.3	9.1
Wheeling	3.0	3.1	3.1	16.6	16.5	16.5	8.9	9.3	8.8
Wisconsin	119.7	122.3	122.5	515.7	527.8	529.9	310.0	320.0	316.9
Appleton-Oshkosh-Neenah	7.5	7.7	7.8	31.7	32.4	32.2	15.7	15.9	15.9
Eau Claire	1.9	2.0	1.9	14.2	15.2	15.2	9.7	10.2	9.9
Green Bay	4.0	4.4	4.4	23.7	24.4	24.8	10.4	10.5	10.4
Janesville-Beloit	1.6	1.7	1.7	13.1	13.9	14.0	6.8	7.8	7.8
Kenosha	1.3	1.3	1.3	8.8	9.7	10.0	5.7	5.7	5.8
La Crosse	1.7	1.7	1.6	15.2	15.9	15.9	6.6	6.8	6.7
Madison	19.1	19.4	19.4	47.5	49.0	48.9	56.2	58.2	58.1
Milwaukee	51.0	51.9	51.7	205.5	213.1	213.6	79.4	80.8	79.9
Racine	2.4	2.4	2.4	17.2	17.9	17.7	8.1	8.5	8.4
Sheboygan	2.6	2.5	2.4	9.6	10.3	10.3	4.8	4.9	4.7
Wausau	3.4	3.4	3.4	9.8	10.6	11.0	5.7	5.6	5.6
Wyoming	7.5	7.4	7.4	41.5	42.0	41.9	50.1	48.5	48.2
Casper	1.4	1.4	1.4	6.5	6.5	6.5	4.6	4.7	4.8
Puerto Rico	36.7	36.4	36.3	129.0	132.4	133.7	285.9	326.4	295.3
Caguas	1.3	1.4	1.4	6.3	6.2	6.1	16.0	18.5	16.3
Mayaguez	1.3	1.3	1.3	7.7	7.3	7.5	18.6	21.1	18.7
Ponce	1.9	1.7	1.7	10.7	11.6	11.6	18.5	22.4	21.8
San Juan	29.7	30.0	29.8	91.6	93.4	94.2	170.7	183.3	172.5
Virgin Islands	2.0	1.9	1.9	9.4	8.4	8.3	14.7	13.7	14.3

¹ Combined with construction.

² 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 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonfarm 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	9.28	322.02	42.3	12.80	541.44	37.9	13.08	495.73
1989	34.6	9.66	334.24	43.0	13.25	569.75	37.9	13.52	512.41
Monthly data, not seasonally adjusted									
1989:									
September	34.7	\$9.77	\$339.02	44.0	\$13.29	\$584.76	38.6	\$13.65	\$526.89
October	34.8	9.81	341.39	44.1	13.23	583.44	39.2	13.71	537.43
November	34.5	9.81	338.45	43.8	13.27	581.23	38.0	13.69	520.22
December	34.6	9.84	340.46	43.7	13.46	588.20	37.0	13.84	512.08
1990:									
January	34.1	9.87	336.57	43.6	13.46	586.86	37.6	13.59	510.98
February	34.2	9.91	338.92	43.3	13.46	582.82	37.3	13.59	506.91
March	34.3	9.93	340.60	43.0	13.57	583.51	37.9	13.63	516.58
April	34.4	9.97	342.97	43.1	13.66	588.75	37.3	13.58	506.53
May	34.4	9.97	342.97	43.2	13.56	585.79	38.2	13.68	522.58
June	34.8	9.98	347.30	44.4	13.66	606.50	39.1	13.63	532.93
July	34.9	10.00	349.00	43.6	13.69	596.88	38.3	13.70	524.71
August ^a	34.8	10.00	348.00	43.9	13.62	597.92	39.0	13.74	535.86
September ^b	34.8	10.17	353.92	44.3	13.74	608.68	39.1	13.95	545.45

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 nonfarm 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	\$102.36
1965	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.60	106.27
1966	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.08
1967	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.87	115.85
1968	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.04	121.89
1969	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.74
1970	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.43	136.91
1971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.4	3.64	143.68
1972	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.42
1973	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.2	4.07	159.74
1974	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.38	170.11
1975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.6	4.72	182.42
1976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.02	194.15
1977	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	208.76
1978	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	227.87
1979	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.65
1980	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.4	6.95	267.13
1981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.55	290.75
1982	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.08	309.23
1983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.54	328.25
1984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.88	341.78
1985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.15	351.08
1986	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.34	357.57
1987	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.30
1988	41.1	10.19	9.73	418.81	38.8	12.26	475.69	38.1	9.98	380.24
1989	41.0	10.49	10.02	430.09	38.9	12.61	490.53	38.0	10.39	394.82
	Monthly data, not seasonally adjusted									
1989:										
September	41.2	\$10.56	\$10.06	\$435.07	38.9	\$12.73	\$495.20	38.1	\$10.48	\$399.29
October	40.9	10.54	10.06	431.09	39.0	12.74	496.86	38.2	10.51	401.48
November	41.1	10.59	10.11	435.25	38.7	12.71	491.88	38.1	10.56	402.34
December	41.3	10.68	10.20	441.08	38.7	12.76	493.81	38.2	10.63	406.07
1990:										
January	40.6	10.60	10.16	430.36	37.8	12.79	483.46	37.8	10.61	401.06
February	40.4	10.68	10.25	431.47	38.4	12.87	494.21	37.8	10.66	402.95
March	40.7	10.75	10.30	437.53	38.7	12.83	496.52	37.9	10.66	404.01
April	39.8	10.75	10.37	427.85	38.9	12.96	504.14	38.1	10.78	410.72
May	40.9	10.81	10.36	442.13	38.9	12.82	498.70	38.0	10.73	407.74
June	41.1	10.85	10.37	445.94	39.4	12.86	506.68	38.2	10.76	411.03
July	40.5	10.88	10.41	440.64	39.4	12.99	511.81	38.3	10.82	414.41
August ^a	40.8	10.82	10.33	441.46	39.3	12.97	509.72	38.1	10.77	410.34
September ^a	41.2	10.94	10.41	450.73	39.4	13.11	516.53	38.2	10.92	417.14

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 nonfarm 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	\$64.81	37.3	\$2.30	\$85.77	36.1	\$1.94	\$70.05
1965	36.6	1.82	66.65	37.2	2.39	88.85	35.9	2.05	73.60
1966	35.9	1.91	68.50	37.3	2.47	92.21	35.5	2.17	76.92
1967	35.3	2.01	70.86	37.1	2.58	95.70	35.1	2.29	80.30
1968	34.7	2.16	74.93	37.0	2.75	101.70	34.7	2.42	84.08
1969	34.2	2.30	78.67	37.1	2.93	108.56	34.7	2.61	90.62
1970	33.8	2.44	82.31	36.7	3.07	112.79	34.4	2.81	96.52
1971	33.7	2.60	87.51	36.6	3.22	118.02	33.9	3.04	103.04
1972	33.4	2.75	92.03	36.6	3.36	122.94	33.9	3.27	110.62
1973	33.1	2.91	96.45	36.6	3.53	129.34	33.8	3.47	117.49
1974	32.7	3.14	102.55	36.5	3.77	137.68	33.6	3.75	126.22
1975	32.4	3.36	108.63	36.5	4.06	147.89	33.5	4.02	134.73
1976	32.1	3.57	114.56	36.4	4.27	155.51	33.3	4.31	143.53
1977	31.6	3.85	121.54	36.4	4.54	165.42	33.0	4.65	153.59
1978	31.0	4.20	130.14	36.4	4.89	178.03	32.8	4.99	163.89
1979	30.6	4.53	138.83	36.2	5.27	190.92	32.7	5.36	175.36
1980	30.2	4.88	147.24	36.2	5.79	209.68	32.6	5.85	190.98
1981	30.1	5.25	157.99	36.3	6.31	228.73	32.6	6.41	209.16
1982	29.9	5.48	163.83	36.2	6.78	245.68	32.6	6.92	225.87
1983	29.8	5.74	171.13	36.2	7.29	263.68	32.7	7.31	239.04
1984	29.8	5.85	174.47	36.5	7.63	278.04	32.6	7.59	247.25
1985	29.4	5.94	174.81	36.4	7.94	289.20	32.5	7.90	256.49
1986	29.2	6.03	175.80	36.4	8.36	304.49	32.5	8.18	265.93
1987	29.2	6.12	178.80	36.3	8.73	316.37	32.5	8.49	276.03
1988	29.1	6.31	183.62	35.9	9.06	325.25	32.6	8.88	289.49
1989	28.9	6.53	188.72	35.8	9.54	341.53	32.6	9.39	306.11
Monthly data, not seasonally adjusted									
1989:									
September	28.9	\$6.59	\$190.45	35.6	\$9.60	\$341.76	32.5	\$9.49	\$308.43
October	28.9	6.61	191.03	36.1	9.70	350.17	32.8	9.58	314.22
November	28.6	6.63	189.62	35.6	9.67	344.25	32.5	9.61	312.33
December	29.3	6.65	194.85	35.6	9.73	346.39	32.5	9.68	314.60
1990:									
January	28.1	6.73	189.11	35.6	9.80	348.88	32.4	9.72	314.93
February	28.3	6.72	190.18	35.7	9.87	352.36	32.4	9.75	315.90
March	28.5	6.74	192.09	35.6	9.84	350.30	32.4	9.76	316.22
April	29.0	6.75	195.75	36.1	9.97	359.92	32.6	9.82	320.13
May	28.8	6.75	194.40	35.5	9.90	351.45	32.3	9.77	315.57
June	29.3	6.75	197.78	35.8	9.90	354.42	32.7	9.75	318.83
July	29.7	6.74	200.18	36.2	10.00	362.00	33.0	9.79	323.07
August ^p	29.4	6.75	198.45	35.7	9.94	354.86	32.8	9.77	320.46
September ^p	28.9	6.87	198.54	36.2	10.09	365.26	32.7	9.99	326.67

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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 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 nonfarm payrolls by detailed industry

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Total private		34.9	34.7	34.9	34.8	34.8	-	-	-	-	-
Mining		43.5	44.0	43.6	43.9	44.3	-	-	-	-	-
Metal mining	10	43.3	43.6	43.2	42.6	-	-	-	-	-	-
Iron ores	101	42.5	43.3	41.9	42.5	-	-	-	-	-	-
Copper ores	102	46.9	47.2	47.9	45.3	-	-	-	-	-	-
Coal mining	12	44.0	44.2	41.8	43.7	-	-	-	-	-	-
Bituminous coal and lignite mining	122	44.0	44.1	41.9	43.6	-	-	-	-	-	-
Oil and gas extraction	13	41.9	42.8	43.6	43.5	-	-	-	-	-	-
Crude petroleum and natural gas	131	41.6	42.7	42.9	41.8	-	-	-	-	-	-
Oil and gas field services	138	42.2	42.9	44.0	44.4	-	-	-	-	-	-
Nonmetallic minerals, except fuels	14	47.5	47.3	46.2	46.4	-	-	-	-	-	-
Crushed and broken stone	142	48.9	48.4	47.2	47.3	-	-	-	-	-	-
Construction		38.9	38.6	38.3	39.0	39.1	-	-	-	-	-
General building contractors	15	38.2	37.9	37.8	38.4	-	-	-	-	-	-
Residential building construction	152	37.3	37.1	37.2	37.8	-	-	-	-	-	-
Operative builders	153	39.7	38.7	36.6	37.0	-	-	-	-	-	-
Nonresidential building construction	154	39.0	38.7	38.5	39.0	-	-	-	-	-	-
Heavy construction, except building	16	43.2	42.6	42.0	43.2	-	-	-	-	-	-
Highway and street construction	161	45.5	43.6	43.7	45.2	-	-	-	-	-	-
Heavy construction, except highway	162	42.1	42.2	41.1	42.2	-	-	-	-	-	-
Special trade contractors	17	38.0	37.7	37.5	38.0	-	-	-	-	-	-
Plumbing, heating, and air conditioning	171	39.0	38.8	39.1	38.8	-	-	-	-	-	-
Painting and paper hanging	172	36.7	35.9	35.7	36.3	-	-	-	-	-	-
Electrical work	173	39.2	39.5	39.1	39.6	-	-	-	-	-	-
Masonry, stonework, and plastering	174	35.2	34.9	34.8	35.6	-	-	-	-	-	-
Carpentry and floor work	175	35.6	35.4	35.3	35.7	-	-	-	-	-	-
Roofing, siding, and sheet metal work	176	35.8	35.2	34.4	36.5	-	-	-	-	-	-
Manufacturing		40.9	41.2	40.5	40.8	41.2	3.8	4.1	3.6	3.9	4.1
Durable goods		41.3	41.7	41.0	41.2	41.7	3.9	4.1	3.6	3.9	4.1
Lumber and wood products	24	40.4	40.4	40.0	40.6	40.9	3.7	3.8	3.6	3.8	-
Logging	241	41.9	41.1	41.6	42.3	-	5.5	5.2	5.0	5.7	-
Sawmills and planing mills	242	41.2	41.4	40.4	41.3	-	4.4	4.4	4.2	4.3	-
Sawmills and planing mills, general	2421	41.5	41.8	40.8	41.6	-	4.7	4.7	4.5	4.6	-
Hardwood dimension and flooring mills	2426	40.0	40.1	39.4	40.6	-	3.3	3.1	2.9	3.2	-
Millwork, plywood, and structural members	243	39.9	40.1	39.3	39.6	-	3.2	3.3	3.1	3.0	-
Millwork	2431	39.3	39.6	39.1	39.5	-	2.3	2.6	2.4	2.4	-
Wood kitchen cabinets	2434	39.1	39.4	38.9	38.9	-	3.0	3.1	2.8	2.6	-
Hardwood veneer and plywood	2435	40.4	41.2	39.0	40.3	-	3.6	3.9	3.3	3.8	-
Softwood veneer and plywood	2436	42.5	41.9	40.3	40.8	-	5.1	5.1	4.9	4.4	-
Wood containers	244	38.6	39.0	39.6	39.9	-	3.2	3.6	3.4	3.3	-
Wood buildings and mobile homes	245	39.2	38.4	39.5	40.4	-	2.2	2.0	2.3	2.9	-
Mobile homes	2451	39.1	38.1	39.4	40.3	-	1.9	1.6	2.2	2.8	-
Miscellaneous wood products	249	40.5	40.4	40.1	40.7	-	3.2	3.4	3.2	3.4	-
Furniture and fixtures	25	39.7	40.1	38.9	39.6	39.5	2.9	3.1	2.4	2.8	-
Household furniture	251	39.2	39.3	38.1	39.0	-	2.5	2.6	2.0	2.4	-
Wood household furniture	2511	39.8	39.8	38.8	39.3	-	2.7	2.8	2.1	2.5	-
Upholstered household furniture	2512	37.9	38.0	36.3	37.6	-	1.8	1.8	1.3	1.8	-
Metal household furniture	2514	39.7	40.0	41.1	41.6	-	2.7	2.9	3.4	3.6	-
Mattresses and bedsprings	2515	40.8	41.0	38.8	40.6	-	3.9	4.1	3.1	3.7	-
Office furniture	252	39.6	40.4	39.6	39.6	-	2.3	2.9	2.8	2.7	-
Public building and related furniture	253	41.1	40.4	40.4	41.1	-	4.0	3.7	3.2	3.8	-
Partitions and fixtures	254	41.3	42.7	40.9	41.2	-	4.3	5.1	3.3	3.8	-
Miscellaneous furniture and fixtures	259	39.8	40.4	39.8	39.1	-	3.0	3.5	3.0	2.6	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Total private		\$9.61	\$9.77	\$10.00	\$10.00	\$10.17	\$335.39	\$339.02	\$349.00	\$348.00	\$353.92
Mining		13.22	13.29	13.69	13.62	13.74	575.07	584.76	596.88	597.92	608.68
Metal mining	10	13.56	13.63	14.29	14.24	-	587.15	594.27	617.33	606.62	-
Iron ores	101	14.42	13.91	14.84	14.98	-	612.85	602.30	621.80	636.65	-
Copper ores	102	11.77	12.03	12.66	12.81	-	552.01	567.82	606.41	580.29	-
Coal mining	12	16.20	16.31	16.80	16.68	-	712.80	720.90	702.24	728.92	-
Bituminous coal and lignite mining	122	16.33	16.45	16.95	16.85	-	718.52	725.45	710.21	734.66	-
Oil and gas extraction	13	12.44	12.46	12.91	12.80	-	521.24	533.29	562.88	556.80	-
Crude petroleum and natural gas	131	15.38	15.46	16.43	16.17	-	639.81	660.14	704.85	675.91	-
Oil and gas field services	138	10.65	10.68	11.05	11.06	-	449.43	458.17	486.20	491.06	-
Nonmetallic minerals, except fuels	14	11.32	11.38	11.65	11.57	-	537.70	538.27	538.23	536.85	-
Crushed and broken stone	142	10.84	10.87	11.21	11.16	-	530.08	526.11	529.11	527.87	-
Construction		13.51	13.65	13.70	13.74	13.95	525.54	526.89	524.71	535.86	545.45
General building contractors	15	12.64	12.80	12.83	-	13.14	482.85	485.12	484.97	494.21	-
Residential building construction	152	12.03	12.17	12.06	-	12.46	448.72	451.51	448.63	458.14	-
Operative builders	153	11.81	12.24	13.00	-	13.15	468.86	473.69	475.80	479.15	-
Nonresidential building construction	154	13.28	13.47	13.58	-	13.79	517.92	521.29	522.83	530.40	-
Heavy construction, except building	16	13.37	13.44	13.43	-	13.75	577.58	572.54	564.06	585.36	-
Highway and street construction	161	13.12	13.32	13.28	-	13.71	596.96	580.75	580.34	609.75	-
Heavy construction, except highway	162	13.51	13.49	13.51	-	13.77	568.77	569.28	555.26	573.50	-
Special trade contractors	17	13.90	14.06	14.13	-	14.33	528.20	530.06	529.88	537.32	-
Plumbing, heating, and air conditioning	171	14.13	14.35	14.40	-	14.54	551.07	556.78	563.04	559.11	-
Painting and paper hanging	172	12.90	13.00	12.91	-	13.02	473.43	466.70	460.89	464.64	-
Electrical work	173	14.78	14.92	15.06	-	15.21	579.38	589.34	588.85	595.19	-
Masonry, stonework, and plastering	174	14.04	14.06	14.19	-	14.52	494.21	490.69	493.81	508.37	-
Carpentry and floor work	175	13.91	14.29	14.07	-	14.38	495.20	505.87	496.67	506.94	-
Roofing, siding, and sheet metal work	176	12.24	12.34	12.30	-	12.45	438.19	434.37	423.12	450.78	-
Manufacturing		10.46	10.56	10.88	10.82	10.94	427.81	435.07	440.64	441.46	450.73
Durable goods		10.99	11.11	11.38	11.35	11.49	453.89	463.29	466.58	467.62	479.13
Lumber and wood products	24	8.90	8.95	9.16	9.15	9.20	359.56	361.58	366.40	371.49	376.28
Logging	241	11.40	11.29	11.57	11.46	-	477.66	464.02	481.31	484.76	-
Sawmills and planing mills	242	9.03	9.11	9.22	9.19	-	372.04	377.15	372.49	379.55	-
Sawmills and planing mills, general	2421	9.38	9.47	9.56	9.54	-	389.27	395.85	390.05	396.86	-
Hardwood dimension and flooring mills	2426	7.35	7.39	7.60	7.58	-	294.00	296.34	299.44	307.75	-
Millwork, plywood, and structural members	243	8.75	8.82	9.08	9.10	-	349.13	353.68	356.84	360.36	-
Millwork	2431	8.91	9.00	9.34	9.41	-	350.16	356.40	365.19	371.70	-
Wood kitchen cabinets	2434	8.22	8.31	8.51	8.54	-	321.40	327.41	331.04	332.21	-
Hardwood veneer and plywood	2435	7.42	7.45	7.71	7.84	-	299.77	306.94	300.69	315.95	-
Softwood veneer and plywood	2436	10.18	10.25	10.45	10.30	-	432.65	429.48	421.14	420.24	-
Wood containers	244	6.43	6.57	6.61	6.60	-	248.20	256.23	261.76	263.34	-
Wood buildings and mobile homes	245	8.30	8.36	8.58	8.63	-	325.36	321.02	338.91	348.65	-
Mobile homes	2451	8.36	8.39	8.64	8.71	-	326.88	319.66	340.42	351.01	-
Miscellaneous wood products	249	7.93	8.00	8.30	8.25	-	321.17	323.20	332.83	335.78	-
Furniture and fixtures	25	8.30	8.40	8.50	8.57	8.65	329.51	336.84	330.65	339.37	341.68
Household furniture	251	7.67	7.74	7.83	7.95	-	300.66	304.18	298.32	310.05	-
Wood household furniture	2511	7.20	7.24	7.38	7.42	-	286.56	288.15	286.34	291.61	-
Upholstered household furniture	2512	8.33	8.45	8.43	8.64	-	315.71	321.10	306.01	324.86	-
Metal household furniture	2514	8.04	8.04	8.14	8.28	-	319.19	321.60	334.55	344.45	-
Mattresses and bedsprings	2515	8.07	8.09	8.12	8.32	-	329.26	331.69	315.06	337.79	-
Office furniture	252	9.34	9.43	9.58	9.55	-	369.86	380.97	379.37	378.18	-
Public building and related furniture	253	8.74	8.88	9.06	9.10	-	359.21	358.75	366.02	374.01	-
Partitions and fixtures	254	9.60	9.83	9.69	9.70	-	396.48	419.74	396.32	399.64	-
Miscellaneous furniture and fixtures	259	8.57	8.67	8.80	8.97	-	341.09	350.27	350.24	350.73	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Stone, clay, and glass products	32	42.9	42.7	42.0	42.7	42.6	5.6	5.5	5.0	5.4	-
Flat glass	321	43.7	43.8	44.2	46.5	-	4.8	5.3	4.9	7.4	-
Glass and glassware, pressed or blown	322	41.8	41.8	41.6	41.6	-	4.9	4.7	4.6	4.8	-
Glass containers	3221	42.0	41.9	42.1	41.9	-	6.0	5.6	5.6	5.8	-
Pressed and blown glass, nec	3229	41.6	41.6	41.0	41.3	-	3.7	3.7	3.4	3.6	-
Products of purchased glass	323	41.3	41.9	39.7	41.1	-	3.3	3.6	2.8	3.7	-
Cement, hydraulic	324	41.7	41.8	41.5	41.5	-	3.6	3.9	4.0	4.1	-
Structural clay products	325	41.6	42.0	40.9	41.1	-	3.8	4.0	4.1	3.8	-
Pottery and related products	326	40.6	40.4	38.7	39.8	-	3.3	3.4	2.5	2.9	-
Concrete, gypsum, and plaster products	327	44.8	44.1	43.7	44.5	-	7.9	7.4	6.8	7.3	-
Concrete block and brick	3271	44.9	45.5	45.0	45.4	-	7.6	7.7	7.2	7.4	-
Concrete products, nec	3272	44.5	44.1	43.3	44.1	-	6.8	6.8	6.0	6.6	-
Ready-mixed concrete	3273	44.7	43.3	43.4	44.0	-	8.4	7.4	7.1	7.4	-
Misc. nonmetallic mineral products	329	42.7	42.6	42.0	42.1	-	5.3	5.4	4.7	4.8	-
Abrasives products	3291	42.9	42.1	41.6	42.2	-	3.3	3.5	2.8	3.4	-
Asbestos products	3292	41.7	43.0	39.8	39.7	-	4.8	5.0	4.2	3.6	-
Primary metal industries	33	42.4	42.8	42.8	42.6	43.2	5.1	5.2	5.3	5.3	-
Blast furnaces and basic steel products	331	43.0	43.1	44.1	43.2	43.8	5.5	5.3	6.2	5.9	-
Blast furnaces and steel mills	3312	43.3	43.5	44.7	43.4	-	5.6	5.4	6.5	6.1	-
Steel pipe and tubes	3317	41.3	41.5	42.9	43.8	-	5.4	4.8	5.5	5.6	-
Iron and steel foundries	332	41.5	42.5	41.8	41.8	-	4.4	4.8	4.7	4.9	-
Gray and ductile iron foundries	3321	41.6	42.5	41.7	42.6	-	4.5	5.1	4.5	5.1	-
Malleable iron foundries	3322	40.2	41.6	45.3	43.4	-	3.0	3.6	7.2	5.9	-
Steel foundries, nec	3325	41.1	41.8	41.5	39.2	-	4.4	4.3	4.8	4.2	-
Primary nonferrous metals	333	43.1	43.3	43.7	43.1	-	4.9	5.0	5.1	4.9	-
Primary aluminum	3334	42.7	42.9	43.0	42.8	-	4.9	5.1	5.2	5.2	-
Nonferrous rolling and drawing	335	43.3	43.9	43.1	43.1	-	6.2	6.7	5.9	5.9	-
Copper rolling and drawing	3351	44.4	44.8	43.3	43.7	-	6.3	7.0	5.8	5.9	-
Aluminum sheet, plate, and foil	3353	42.7	43.8	43.9	43.9	-	7.4	8.3	7.7	7.7	-
Nonferrous wire drawing and insulating	3357	42.5	43.2	42.0	42.4	-	5.6	6.0	5.1	5.4	-
Nonferrous foundries (castings)	336	40.3	40.1	39.7	40.2	-	3.0	3.3	2.9	3.1	-
Aluminum foundries	3365	40.8	40.2	40.8	40.5	-	3.4	2.9	2.8	3.2	-
Fabricated metal products	34	41.2	41.7	40.9	41.3	41.7	3.7	4.1	3.6	3.8	-
Metal cans and shipping containers	341	44.1	44.0	44.3	43.9	-	6.0	6.4	5.7	5.6	-
Metal cans	3411	44.1	44.4	44.8	44.1	-	5.9	6.6	5.9	5.6	-
Cutlery, handtools, and hardware	342	40.9	41.5	40.2	40.6	-	3.1	3.5	2.9	3.1	-
Hand and edge tools, and blades and handsaws	3423,5	40.6	41.2	39.4	40.4	-	2.7	3.0	2.5	2.9	-
Hardware, nec	3429	40.6	41.1	40.2	40.2	-	3.0	3.5	2.9	2.9	-
Plumbing and heating, except electric	343	40.6	41.3	39.7	40.7	-	3.1	3.6	2.9	3.1	-
Plumbing fixture fittings and trim	3432	40.0	40.4	38.7	40.2	-	2.5	2.5	2.1	2.4	-
Heating equipment, except electric	3433	41.1	42.8	39.3	40.5	-	3.5	4.6	2.8	3.6	-
Fabricated structural metal products	344	41.2	41.5	41.1	41.2	-	3.8	4.1	3.9	3.9	-
Fabricated structural metal	3441	42.4	42.9	42.5	42.4	-	4.7	5.3	5.0	4.8	-
Metal doors, sash, and trim	3442	39.6	39.8	39.9	39.5	-	2.6	2.9	2.8	2.5	-
Fabricated plate work (boiler shops)	3443	42.0	42.7	41.9	42.3	-	4.1	4.5	4.4	4.6	-
Sheet metal work	3444	40.3	40.4	40.8	40.7	-	3.3	3.2	3.6	3.5	-
Architectural metal work	3446	41.3	40.4	38.1	39.1	-	4.8	5.1	3.2	3.4	-
Screw machine products, bolts, etc	345	41.6	42.1	41.8	42.1	-	4.4	4.9	4.5	4.7	-
Screw machine products	3451	40.5	41.0	40.7	40.3	-	3.6	4.0	3.4	3.4	-
Bolts, nuts, rivets, and washers	3452	42.8	43.3	42.9	43.9	-	5.3	5.9	5.7	6.1	-
Metal forgings and stampings	346	41.2	42.3	40.6	41.7	-	3.7	4.6	3.4	4.0	-
Iron and steel forgings	3462	42.0	41.9	42.1	42.1	-	4.4	4.3	4.2	4.4	-
Automotive stampings	3465	41.5	43.3	40.5	42.3	-	3.8	5.2	3.3	4.3	-
Metal stampings, nec	3469	40.3	40.9	40.3	40.8	-	3.3	3.6	3.1	3.5	-
Metal services, nec	347	40.5	41.0	40.6	40.8	-	3.4	3.6	3.6	3.8	-
Plating and polishing	3471	39.9	40.7	40.1	40.0	-	2.9	3.3	3.0	3.0	-
Metal coating and allied services	3479	41.6	41.5	41.5	42.1	-	4.3	4.2	4.6	5.1	-
Ordnance and accessories, nec	348	40.7	41.6	40.5	41.3	-	3.2	3.6	2.9	3.4	-
Ammunition, except for small arms, nec	3483	39.6	40.5	39.5	41.6	-	3.0	3.3	2.5	3.0	-
Misc. fabricated metal products	349	40.9	41.3	40.6	40.9	-	3.2	3.6	3.3	3.5	-
Valves and pipe fittings, nec	3494	40.9	40.6	43.0	43.6	-	3.1	3.4	3.5	3.9	-
Misc. fabricated wire products	3496	40.1	40.4	40.1	39.7	-	3.2	3.4	3.1	3.0	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Stone, clay, and glass products	32	\$10.85	\$10.87	\$11.21	\$11.15	\$11.22	\$465.47	\$464.15	\$470.82	\$476.11	\$477.97
Flat glass	321	14.65	14.75	14.84	15.14	-	640.21	646.05	655.93	704.01	-
Glass and glassware, pressed or blown	322	12.12	12.05	12.61	12.49	-	506.62	503.69	524.58	519.58	-
Glass containers	3221	12.77	12.64	13.39	13.29	-	536.34	529.62	563.72	556.85	-
Pressed and blown glass, nec	3229	11.40	11.41	11.71	11.60	-	474.24	474.66	480.11	479.08	-
Products of purchased glass	323	9.37	9.39	9.81	9.80	-	386.98	393.44	389.46	402.78	-
Cement, hydraulic	324	13.65	13.67	13.70	13.63	-	569.21	571.41	568.55	565.65	-
Structural clay products	325	9.11	9.22	9.61	9.61	-	378.98	387.24	393.05	394.97	-
Pottery and related products	326	9.45	9.45	9.67	9.62	-	383.67	381.78	374.23	382.88	-
Concrete, gypsum, and plaster products	327	10.63	10.66	10.88	10.82	-	476.22	470.11	475.46	481.49	-
Concrete block and brick	3271	9.63	9.83	9.71	9.69	-	432.39	447.27	436.95	439.93	-
Concrete products, nec	3272	9.54	9.64	9.77	9.73	-	424.53	425.12	423.04	429.09	-
Ready-mixed concrete	3273	11.47	11.43	11.74	11.65	-	512.71	494.92	509.52	512.60	-
Misc. nonmetallic mineral products	329	11.34	11.40	11.67	11.60	-	484.22	485.64	490.14	488.36	-
Abrasive products	3291	10.09	10.16	10.28	10.33	-	432.86	427.74	427.65	435.93	-
Asbestos products	3292	11.23	11.17	11.15	11.19	-	468.29	480.31	443.77	444.24	-
Primary metal industries	33	12.42	12.54	13.04	12.94	13.02	526.61	536.71	558.11	551.24	562.46
Blast furnaces and basic steel products	331	14.29	14.40	14.95	14.85	14.94	614.47	620.64	659.30	641.52	654.37
Blast furnaces and steel mills	3312	15.01	15.17	15.72	15.60	-	649.93	659.90	702.68	677.04	-
Steel pipe and tubes	3317	11.31	11.32	11.89	11.95	-	467.10	469.78	510.08	523.41	-
Iron and steel foundries	332	11.04	11.18	11.59	11.51	-	458.16	475.15	484.46	481.12	-
Gray and ductile iron foundries	3321	11.51	11.69	11.98	11.93	-	478.82	496.83	499.57	508.22	-
Malleable iron foundries	3322	11.96	12.33	12.97	12.54	-	480.79	512.93	587.54	544.24	-
Steel foundries, nec	3325	10.43	10.50	11.10	10.85	-	428.67	438.90	460.65	425.32	-
Primary nonferrous metals	333	13.67	13.93	14.49	14.60	-	589.18	603.17	633.21	629.26	-
Primary aluminum	3334	13.88	14.27	14.75	14.74	-	592.68	612.18	634.25	630.87	-
Nonferrous rolling and drawing	335	11.89	12.01	12.36	12.27	-	514.84	527.24	532.72	528.84	-
Copper rolling and drawing	3351	11.12	11.25	11.70	11.54	-	493.73	504.00	506.61	504.30	-
Aluminum sheet, plate, and foil	3353	14.33	14.49	15.11	15.09	-	611.89	634.66	663.33	662.45	-
Nonferrous wire drawing and insulating	3357	12.09	12.18	12.32	12.14	-	513.83	526.18	517.44	514.74	-
Nonferrous foundries (castings)	336	9.80	9.95	10.38	10.33	-	394.94	399.00	412.09	415.27	-
Aluminum foundries	3365	9.31	9.38	9.96	9.91	-	379.85	377.08	406.37	401.36	-
Fabricated metal products	34	10.54	10.68	10.86	10.84	10.95	434.25	445.36	444.17	447.69	456.62
Metal cans and shipping containers	341	13.91	14.01	14.40	14.29	-	613.43	616.44	637.92	627.33	-
Metal cans	3411	14.78	14.86	15.25	15.09	-	651.80	659.78	683.20	665.47	-
Cutlery, handtools, and hardware	342	10.42	10.59	10.82	10.76	-	426.18	439.49	434.96	436.86	-
Hand and edge tools, and blades and handsaws	3423,5	9.64	9.73	10.01	9.97	-	391.38	400.88	394.39	402.79	-
Hardware, nec	3429	10.78	11.00	11.15	11.08	-	437.67	452.10	448.23	445.42	-
Plumbing and heating, except electric	343	9.37	9.58	9.80	9.74	-	380.42	395.65	389.06	396.42	-
Plumbing fixture fittings and trim	3432	8.99	9.03	9.33	9.29	-	359.60	364.81	361.07	373.46	-
Heating equipment, except electric	3433	9.38	9.61	9.52	9.65	-	385.52	411.31	374.14	390.83	-
Fabricated structural metal products	344	9.95	9.99	10.18	10.16	-	409.94	414.59	418.40	418.59	-
Fabricated structural metal	3441	10.46	10.51	10.35	10.31	-	443.50	450.88	439.88	437.14	-
Metal doors, sash, and trim	3442	8.23	8.30	8.58	8.52	-	325.91	330.34	342.34	336.54	-
Fabricated plate work (boiler shops)	3443	10.70	10.76	10.99	11.02	-	449.40	459.45	460.48	466.15	-
Sheet metal work	3444	10.31	10.25	10.60	10.49	-	415.49	414.10	432.48	426.94	-
Architectural metal work	3446	9.29	9.30	9.86	9.99	-	383.68	375.72	375.67	390.61	-
Screw machine products, bolts, etc	345	10.31	10.42	10.78	10.76	-	428.90	438.68	450.60	453.00	-
Screw machine products	3451	9.74	9.82	10.16	10.13	-	394.47	402.62	413.51	408.24	-
Bolts, nuts, rivets, and washers	3452	10.87	11.01	11.40	11.35	-	465.24	476.73	489.06	498.27	-
Metal forgings and stampings	346	12.40	12.80	12.68	12.69	-	510.88	541.44	514.81	529.17	-
Iron and steel forgings	3462	13.20	13.32	13.11	12.92	-	554.40	558.11	551.93	543.93	-
Automotive stampings	3465	13.91	14.48	14.34	14.31	-	577.27	626.98	580.77	605.31	-
Metal stampings, nec	3469	9.86	9.90	10.13	10.19	-	397.36	404.91	408.24	415.75	-
Metal services, nec	347	8.54	8.56	9.03	9.05	-	345.87	350.96	366.62	369.24	-
Plating and polishing	3471	8.48	8.55	8.95	8.97	-	338.35	347.99	358.90	358.80	-
Metal coating and allied services	3479	8.66	8.59	9.16	9.18	-	360.26	356.49	380.14	386.48	-
Ordnance and accessories, nec	348	11.77	11.77	11.92	11.89	-	479.04	489.63	482.76	491.06	-
Ammunition, except for small arms, nec	3483	11.60	11.63	11.67	11.63	-	459.36	471.02	460.97	483.81	-
Misc. fabricated metal products	349	9.97	10.04	10.19	10.19	-	407.77	414.65	413.71	416.77	-
Valves and pipe fittings, nec	3494	10.52	10.57	10.36	10.39	-	430.27	429.14	445.48	453.00	-
Misc. fabricated wire products	3496	8.44	8.52	8.76	8.86	-	338.44	344.21	351.28	351.74	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Industrial machinery and equipment	35	41.8	42.3	41.6	41.6	42.2	4.0	4.3	3.8	3.9	-
Engines and turbines	351	41.7	42.2	42.9	41.9	-	3.7	3.8	3.3	4.1	-
Turbines and turbine generator sets	3511	43.0	42.9	42.9	44.1	-	5.8	6.0	5.6	5.8	-
Internal combustion engines, nec	3519	41.3	41.9	42.9	41.1	-	3.0	3.0	2.4	3.5	-
Farm and garden machinery	352	40.3	41.3	40.3	41.0	-	3.4	3.7	3.2	3.4	-
Farm machinery and equipment	3523	41.0	42.0	41.0	41.5	-	3.8	4.3	4.0	4.2	-
Construction and related machinery	353	42.0	42.5	42.3	42.2	-	4.1	4.4	3.8	3.8	-
Construction machinery	3531	42.0	42.4	41.3	40.9	-	4.4	4.4	2.6	2.6	-
Mining machinery	3532	41.1	42.3	41.2	40.8	-	3.8	4.6	4.0	4.0	-
Oil and gas field machinery	3533	41.9	43.2	46.2	46.5	-	4.0	4.8	6.7	6.5	-
Conveyors and conveying equipment	3535	43.2	42.7	42.4	40.7	-	5.1	4.9	4.6	3.9	-
Industrial trucks and tractors	3537	41.1	41.0	38.7	40.3	-	3.1	3.1	2.0	2.4	-
Metalworking machinery	354	42.7	43.2	42.1	42.3	-	4.8	5.2	4.6	4.6	-
Machine tools, metal cutting types	3541	43.0	43.5	40.9	40.8	-	4.9	5.3	3.4	3.5	-
Machine tools, metal forming types	3542	43.3	43.7	42.6	41.6	-	5.2	5.9	4.4	3.5	-
Special dies, tools, jigs, and fixtures	3544	43.5	43.9	43.4	43.6	-	5.6	6.0	5.7	5.9	-
Machine tool accessories	3545	40.5	41.6	40.7	41.0	-	3.9	4.2	3.5	3.6	-
Power driven handtools	3546	42.4	43.0	41.4	41.4	-	3.6	3.8	3.4	3.4	-
Special industry machinery	355	41.6	42.1	41.0	41.6	-	4.5	4.9	3.5	3.9	-
Textile machinery	3552	42.2	42.7	41.9	42.1	-	3.7	4.2	3.2	3.5	-
Printing trades machinery	3555	37.4	37.6	37.8	38.4	-	4.7	4.7	3.0	4.0	-
Food products machinery	3556	42.4	41.9	40.5	41.4	-	4.7	4.4	3.4	3.7	-
General industrial machinery	356	41.4	42.2	41.5	41.3	-	4.0	4.4	4.0	3.9	-
Pumps and pumping equipment	3561	39.7	39.8	40.0	40.6	-	2.7	2.9	3.3	3.9	-
Ball and roller bearings	3562	42.6	43.8	42.9	42.7	-	5.4	5.9	5.6	5.4	-
Air and gas compressors	3563	42.3	44.1	43.2	43.1	-	4.4	5.5	4.2	4.3	-
Blowers and fans	3564	40.6	40.8	39.5	39.1	-	3.4	3.0	3.5	2.8	-
Speed changers, drives, and gears	3566	41.1	41.5	41.7	41.2	-	4.4	4.1	4.6	4.0	-
Power transmission equipment, nec	3568	41.1	42.3	41.1	41.5	-	4.2	4.9	3.9	3.7	-
Computer and office equipment	357	42.0	42.1	41.9	42.0	-	3.1	3.4	2.6	3.0	-
Electronic computers	3571	42.1	42.0	41.1	41.5	-	3.3	3.6	2.6	3.2	-
Computer terminals, calculators, and office machines, nec	3575,8,9	41.5	41.3	39.8	40.2	-	2.3	2.7	1.8	2.5	-
Refrigeration and service machinery	358	40.9	41.0	40.0	39.7	-	3.1	3.1	3.0	2.7	-
Refrigeration and heating equipment	3585	41.2	41.4	40.7	39.6	-	3.4	3.3	3.4	2.8	-
Misc. industrial and commercial machinery	359	42.2	42.5	41.9	41.8	-	4.4	4.7	4.4	4.6	-
Carburetors, pistons, rings, valves	3592	42.3	41.4	41.0	42.0	-	3.5	3.8	4.1	4.6	-
Scales, balances, and industrial machinery, nec	3596,9	42.0	42.4	41.7	41.9	-	4.4	4.7	4.4	4.6	-
Electronic and other electrical equipment	36	40.8	41.2	40.1	40.3	41.0	3.2	3.5	3.0	3.2	-
Electric distribution equipment	361	41.3	41.4	40.8	41.4	-	2.8	3.0	3.2	3.1	-
Transformers, except electronic	3612	41.6	41.8	41.3	42.1	-	2.9	3.1	3.7	3.5	-
Switchgear and switchboard apparatus	3613	41.0	40.9	40.3	40.6	-	2.8	3.0	2.6	2.6	-
Electrical industrial apparatus	362	41.1	42.1	41.5	41.4	-	3.0	4.0	3.2	3.2	-
Motors and generators	3621	41.1	42.3	40.9	41.0	-	3.2	4.5	3.2	3.1	-
Relays and industrial controls	3625	40.8	41.8	42.2	41.1	-	2.4	3.4	3.0	3.0	-
Household appliances	363	39.8	39.5	39.6	37.7	-	3.0	2.6	2.3	2.4	-
Household refrigerators and freezers	3632	38.5	36.0	39.4	34.3	-	3.0	1.6	2.8	2.0	-
Household laundry equipment	3633	40.6	39.0	39.2	40.7	-	2.5	1.3	2.6	3.1	-
Electric housewares and fans	3634	41.1	42.5	39.9	40.3	-	3.6	4.5	1.9	2.1	-
Electric lighting and wiring equipment	364	40.0	40.3	39.2	39.8	-	2.8	3.0	2.5	3.0	-
Electric lamps	3641	39.9	40.4	39.7	41.4	-	2.3	2.8	2.4	3.9	-
Current-carrying wiring devices	3643	39.3	39.9	39.3	39.0	-	2.8	2.8	2.9	2.7	-
Noncurrent-carrying wiring devices	3644	41.7	41.2	39.4	41.2	-	3.3	3.3	1.8	2.2	-
Residential lighting fixtures	3645	38.3	38.7	36.8	37.6	-	2.4	2.3	1.9	2.9	-
Household audio and video equipment	365	39.6	41.8	41.1	40.8	-	3.4	4.0	3.3	3.3	-
Household audio and video equipment	3651	38.9	41.3	42.0	40.9	-	2.7	3.2	3.1	2.6	-
Communications equipment	366	42.6	42.6	41.5	41.9	-	2.9	3.0	2.8	3.0	-
Telephone and telegraph apparatus	3661	43.9	44.0	42.7	42.9	-	3.2	3.4	3.2	3.4	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Industrial machinery and equipment	35	\$11.37	\$11.46	\$11.78	\$11.80	\$11.92	\$475.27	\$484.76	\$490.05	\$490.88	\$503.02
Engines and turbines	351	14.03	14.02	14.43	14.60	-	585.05	591.64	619.05	611.74	-
Turbines and turbine generator sets	3511	14.43	14.45	14.86	14.99	-	620.49	619.91	637.49	661.06	-
Internal combustion engines, nec	3519	13.88	13.87	14.26	14.45	-	573.24	581.15	611.75	593.90	-
Farm and garden machinery	352	10.93	11.00	11.04	11.25	-	440.48	454.30	444.91	461.25	-
Farm machinery and equipment	3523	11.61	11.80	12.01	12.14	-	476.01	495.60	492.41	503.81	-
Construction and related machinery	353	11.42	11.59	11.88	11.81	-	479.64	492.58	502.52	498.38	-
Construction machinery	3531	12.63	12.93	13.47	13.31	-	530.46	548.23	556.31	544.38	-
Mining machinery	3532	11.38	11.53	11.80	11.94	-	467.72	487.72	486.16	487.15	-
Oil and gas field machinery	3533	11.11	11.22	11.03	11.17	-	465.51	484.70	509.59	519.41	-
Conveyors and conveying equipment	3535	10.35	10.32	10.86	10.59	-	447.12	440.66	460.46	431.01	-
Industrial trucks and tractors	3537	10.14	10.15	10.53	10.55	-	416.75	416.15	407.51	425.17	-
Metalworking machinery	354	11.85	11.95	12.31	12.32	-	506.00	516.24	518.25	521.14	-
Machine tools, metal cutting types	3541	11.68	11.81	12.13	12.28	-	502.24	513.74	496.12	501.02	-
Machine tools, metal forming types	3542	11.99	12.16	12.38	12.27	-	519.17	531.39	527.39	510.43	-
Special dies, tools, jigs, and fixtures	3544	12.58	12.71	12.98	12.98	-	547.23	557.97	563.33	565.93	-
Machine tool accessories	3545	10.52	10.59	10.93	10.95	-	426.06	440.54	444.85	448.95	-
Power driven handtools	3546	9.41	9.41	10.08	9.98	-	398.98	404.63	417.31	413.17	-
Special industry machinery	355	11.52	11.65	11.89	11.89	-	479.23	490.47	487.49	494.62	-
Textile machinery	3552	9.72	9.78	10.18	10.33	-	410.18	417.61	426.54	434.89	-
Printing trades machinery	3555	13.37	13.52	13.77	13.99	-	500.04	508.35	520.51	537.22	-
Food products machinery	3556	11.52	11.59	11.73	11.70	-	488.45	485.62	475.07	484.38	-
General industrial machinery	356	10.82	10.94	11.31	11.30	-	447.95	461.67	469.37	466.69	-
Pumps and pumping equipment	3561	11.17	11.30	11.67	11.95	-	443.45	449.74	466.80	485.17	-
Ball and roller bearings	3562	11.43	11.63	12.05	11.93	-	486.92	509.39	516.95	509.41	-
Air and gas compressors	3563	10.86	10.88	11.68	11.80	-	459.38	479.81	504.58	508.58	-
Blowers and fans	3564	9.70	9.85	10.01	9.90	-	393.82	401.88	395.40	387.09	-
Speed changers, drives, and gears	3566	11.33	11.51	11.76	11.59	-	465.66	477.67	490.39	477.51	-
Power transmission equipment, nec	3568	10.41	10.41	10.80	10.76	-	427.85	440.34	443.88	446.54	-
Computer and office equipment	357	11.01	11.00	11.54	11.49	-	462.42	463.10	483.53	482.58	-
Electronic computers	3571	11.35	11.47	12.06	11.97	-	477.84	481.74	495.67	496.76	-
Computer terminals, calculators, and office machines, nec	3575,8,9	10.31	10.18	10.90	10.99	-	427.87	420.43	433.82	441.80	-
Refrigeration and service machinery	358	10.57	10.67	10.99	11.06	-	432.31	437.47	439.60	439.08	-
Refrigeration and heating equipment	3585	10.62	10.73	11.15	11.24	-	437.54	444.22	453.81	445.10	-
Misc. industrial and commercial machinery	359	11.31	11.36	11.57	11.60	-	477.28	482.80	484.78	484.88	-
Carburetors, pistons, rings, valves	3592	12.99	13.26	12.62	12.57	-	549.48	548.96	517.42	527.94	-
Scales, balances, and industrial machinery, nec	3596,9	10.91	10.96	11.23	11.25	-	458.22	464.70	468.29	471.38	-
Electronic and other electrical equipment	36	10.06	10.13	10.34	10.32	10.42	410.45	417.36	414.63	415.90	427.22
Electric distribution equipment	361	9.58	9.66	10.29	10.28	-	395.65	399.92	419.83	425.59	-
Transformers, except electronic	3612	9.28	9.33	9.94	10.05	-	386.05	389.99	410.52	423.11	-
Switchgear and switchboard apparatus	3613	9.90	10.00	10.65	10.54	-	405.90	409.00	429.20	427.92	-
Electrical industrial apparatus	362	9.82	10.05	10.07	9.99	-	403.60	423.11	417.91	413.59	-
Motors and generators	3621	10.02	10.25	9.96	9.87	-	411.82	433.58	407.36	404.67	-
Relays and industrial controls	3625	9.49	9.79	10.26	10.17	-	387.19	409.22	432.97	417.99	-
Household appliances	363	10.19	10.00	10.22	10.00	-	405.56	395.00	404.71	377.00	-
Household refrigerators and freezers	3632	11.85	11.65	11.34	11.05	-	456.23	419.40	446.80	379.02	-
Household laundry equipment	3633	11.99	11.89	12.58	12.47	-	486.79	463.71	493.14	507.53	-
Electric housewares and fans	3634	7.47	7.49	7.50	7.54	-	307.02	318.33	299.25	303.86	-
Electric lighting and wiring equipment	364	9.80	9.92	10.18	10.11	-	392.00	399.78	399.06	402.38	-
Electric lamps	3641	11.24	11.31	11.54	11.40	-	448.48	456.92	458.14	471.96	-
Current-carrying wiring devices	3643	9.77	9.78	9.92	9.88	-	383.96	390.22	389.86	385.32	-
Noncurrent-carrying wiring devices	3644	9.41	9.45	9.52	9.40	-	392.40	389.34	375.09	387.28	-
Residential lighting fixtures	3645	7.27	7.32	7.63	7.60	-	278.44	283.28	280.78	285.76	-
Household audio and video equipment	365	9.67	9.47	9.89	9.81	-	382.93	395.85	406.48	400.25	-
Household audio and video equipment	3651	10.10	9.86	10.32	10.22	-	392.89	407.22	433.44	418.00	-
Communications equipment	366	11.05	11.18	11.03	11.03	-	470.73	476.27	457.75	462.16	-
Telephone and telegraph apparatus	3661	11.55	11.81	11.61	11.55	-	507.05	519.64	495.75	495.50	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric components and accessories	367	40.3	40.6	39.5	39.7	-	3.5	3.7	3.2	3.3	-
Electron tubes	3671	41.5	41.3	40.8	41.8	-	3.9	3.7	3.8	3.8	-
Semiconductors and related devices	3674	39.7	40.5	39.4	39.4	-	3.9	4.6	4.1	4.2	-
Electronic components, nec	3679	40.0	40.4	38.9	39.4	-	2.8	3.1	2.2	2.3	-
Misc. electrical equipment and supplies	369	42.5	42.7	39.8	41.5	-	3.8	4.2	2.9	3.8	-
Storage batteries	3691	42.9	43.0	39.4	42.4	-	4.4	4.6	3.7	5.1	-
Engine electrical equipment	3694	42.9	43.4	39.4	41.1	-	4.2	4.7	2.7	3.6	-
Transportation equipment	37	41.8	42.8	41.9	41.9	42.8	4.3	4.8	4.0	4.3	-
Motor vehicles and equipment	371	41.6	43.4	42.3	42.5	44.0	4.1	4.9	4.2	4.7	-
Motor vehicles and car bodies	3711	40.8	43.6	42.5	41.9	-	3.9	5.0	3.8	4.4	-
Truck and bus bodies	3713	43.0	42.6	41.9	42.3	-	4.6	4.4	3.8	3.7	-
Motor vehicle parts and accessories	3714	42.4	43.6	42.5	43.2	-	4.5	5.2	4.6	5.2	-
Truck trailers	3715	39.4	40.3	42.0	41.2	-	2.2	2.7	3.8	3.5	-
Aircraft and parts	372	42.7	42.7	41.7	41.9	-	5.3	5.4	4.3	4.5	-
Aircraft	3721	42.9	42.7	41.0	41.3	-	5.4	5.6	3.7	4.0	-
Aircraft engines and engine parts	3724	42.2	42.9	43.1	42.3	-	5.4	5.6	5.5	5.4	-
Aircraft parts and equipment, nec	3728	42.6	42.5	41.9	42.5	-	5.0	5.1	4.4	4.7	-
Ship and boat building and repairing	373	40.5	40.6	40.5	40.1	-	3.0	3.2	3.0	3.1	-
Ship building and repairing	3731	41.3	41.4	42.0	40.9	-	3.3	3.5	3.4	3.5	-
Boat building and repairing	3732	39.0	39.4	37.6	38.5	-	2.5	2.8	2.3	2.2	-
Railroad equipment	374	43.1	44.1	42.4	39.7	-	4.5	4.9	3.6	3.5	-
Guided missiles, space vehicles, and parts	376	43.0	43.0	42.3	41.8	-	4.4	4.6	3.7	3.6	-
Guided missiles and space vehicles	3761	42.8	43.1	42.7	41.8	-	4.5	4.8	4.1	3.8	-
Misc. transportation equipment	379	38.9	40.4	40.0	39.9	-	2.3	2.8	3.1	2.9	-
Travel trailers and campers	3792	37.8	39.2	38.8	38.6	-	1.7	2.0	3.0	2.1	-
Instruments and related products	38	40.7	40.9	40.6	40.9	41.4	2.7	2.7	2.6	2.9	-
Search and navigation equipment	381	40.9	41.2	40.3	40.5	-	2.8	2.5	2.1	2.3	-
Measuring and controlling devices	382	40.8	41.0	41.2	41.2	-	2.5	2.6	2.5	2.8	-
Environmental controls	3822	39.4	39.9	39.8	40.6	-	2.1	2.2	2.5	2.6	-
Process control instruments	3823	41.7	42.1	42.2	42.1	-	3.2	3.6	3.8	3.9	-
Instruments to measure electricity	3825	40.4	40.0	41.2	41.6	-	2.2	2.1	1.4	2.1	-
Medical instruments and supplies	384	40.3	40.6	40.1	40.7	-	2.9	2.9	3.0	3.3	-
Surgical and medical instruments	3841	40.6	40.8	39.3	40.2	-	3.4	3.3	3.0	3.7	-
Surgical appliances and supplies	3842	39.9	40.2	40.1	40.8	-	2.4	2.4	2.7	2.9	-
Ophthalmic goods	385	39.4	39.5	39.2	39.0	-	3.1	2.8	2.3	2.6	-
Photographic equipment and supplies	386	42.4	42.4	42.0	42.2	-	2.9	3.3	3.5	3.7	-
Watches, clocks, watchcases, and parts	387	39.0	38.9	38.8	39.3	-	1.3	2.1	2.0	2.1	-
Miscellaneous manufacturing industries	39	39.2	39.3	38.8	39.6	39.9	2.6	2.9	2.1	2.8	-
Jewelry, silverware, and plated ware	391	37.7	38.6	36.9	38.9	-	2.0	2.5	.9	2.5	-
Jewelry, precious metal	3911	37.2	38.5	36.0	38.5	-	1.9	2.5	.8	2.8	-
Musical instruments	393	39.0	38.5	38.6	40.5	-	1.9	2.0	1.2	2.4	-
Toys and sporting goods	394	39.2	39.2	39.2	39.7	-	2.7	2.6	2.2	2.8	-
Dolls, games, toys, and children's vehicles	3942,4	38.5	38.7	38.8	39.8	-	1.7	1.9	1.7	2.6	-
Sporting and athletic goods, nec	3949	39.8	39.6	39.4	39.6	-	3.4	3.2	2.5	3.0	-
Pens, pencils, office, and art supplies	395	40.2	40.7	41.0	40.8	-	2.2	2.9	3.1	2.5	-
Costume jewelry and notions	396	38.8	38.3	38.3	40.1	-	3.4	3.5	2.1	3.6	-
Costume jewelry	3961	38.3	37.7	39.0	40.9	-	3.8	4.1	2.3	4.7	-
Miscellaneous manufactures	399	39.6	39.7	38.7	39.2	-	2.8	3.1	2.4	2.7	-
Signs and advertising specialties	3993	39.8	40.2	39.5	39.6	-	3.0	3.4	3.0	3.0	-
Nondurable goods		40.3	40.5	39.9	40.3	40.5	3.8	4.1	3.6	3.9	4.1
Food and kindred products	20	41.2	41.5	40.6	41.4	41.8	5.0	5.4	4.8	5.3	-
Meat products	201	41.2	41.8	39.9	40.3	-	4.8	5.5	4.1	4.6	-
Meat packing plants	2011	41.6	43.3	41.0	41.4	-	5.5	6.9	4.8	5.2	-
Sausages and other prepared meats	2013	41.6	41.7	41.9	41.8	-	5.2	5.7	5.2	5.5	-
Poultry slaughtering and processing	2015	40.8	40.8	38.5	39.1	-	4.1	4.5	3.3	3.9	-
Dairy products	202	40.6	41.4	41.5	40.5	-	4.3	4.7	5.0	4.3	-
Cheese, natural and processed	2022	38.8	39.6	39.7	39.0	-	3.4	3.9	3.6	3.5	-
Fluid milk	2026	41.4	42.4	42.0	41.0	-	4.7	5.4	5.2	4.4	-
Preserved fruits and vegetables	203	41.7	41.3	39.7	42.5	-	6.2	6.5	5.0	6.7	-
Canned specialties	2032	44.2	44.1	41.8	46.2	-	7.3	8.5	2.8	6.7	-
Canned fruits and vegetables	2033	42.8	41.0	39.0	43.0	-	6.9	7.4	5.8	7.6	-
Frozen fruits and vegetables	2037	39.3	41.4	39.7	41.0	-	5.9	6.3	5.5	6.3	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Durable goods—Continued											
Electronic and other electrical equipment—Continued											
Electric components and accessories	367	\$9.61	\$9.70	\$10.06	\$10.07	-	\$387.28	\$393.82	\$397.37	\$399.78	-
Electron tubes	3671	11.16	11.21	12.12	12.06	-	463.14	462.97	494.50	504.11	-
Semiconductors and related devices	3674	11.81	11.94	12.36	12.32	-	468.86	483.57	486.98	485.41	-
Electronic components, nec	3679	9.06	9.12	9.41	9.48	-	362.40	368.45	366.05	373.51	-
Misc. electrical equipment and supplies	369	11.04	11.12	11.21	11.31	-	469.20	474.82	446.16	469.37	-
Storage batteries	3691	11.80	12.08	12.39	12.57	-	506.22	519.44	488.17	532.97	-
Engine electrical equipment	3694	11.90	11.87	11.91	11.97	-	510.51	515.16	469.25	491.97	-
Transportation equipment	37	13.67	13.86	14.06	14.08	\$14.36	571.41	593.21	589.11	589.95	\$614.61
Motor vehicles and equipment	371	14.16	14.45	14.59	14.55	14.90	589.06	627.13	617.16	618.38	655.60
Motor vehicles and car bodies	3711	16.46	16.77	17.11	17.19	-	671.57	731.17	727.18	720.26	-
Truck and bus bodies	3713	11.97	12.14	12.47	12.26	-	514.71	517.16	522.49	518.60	-
Motor vehicle parts and accessories	3714	13.17	13.42	13.62	13.53	-	558.41	585.11	578.85	584.50	-
Truck trailers	3715	9.40	9.47	9.65	9.67	-	370.36	381.64	405.30	398.40	-
Aircraft and parts	372	14.25	14.34	14.71	14.83	-	608.48	612.32	613.41	621.38	-
Aircraft	3721	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$14.58	\$14.62	\$14.70	\$14.88	-	\$615.28	\$627.20	\$633.57	\$629.42	-
Aircraft parts and equipment, nec	3728	12.85	12.88	13.36	13.45	-	547.41	547.40	559.78	571.63	-
Ship and boat building and repairing	373	10.71	10.62	10.99	10.99	-	433.76	431.17	445.10	440.70	-
Ship building and repairing	3731	11.68	11.54	11.81	11.90	-	482.38	477.76	496.02	486.71	-
Boat building and repairing	3732	9.02	9.04	9.17	9.03	-	351.78	356.18	344.79	347.66	-
Railroad equipment	374	12.77	12.90	13.46	13.49	-	550.39	568.89	570.70	535.55	-
Guided missiles, space vehicles, and parts	376	13.79	13.93	14.47	14.49	-	592.97	598.99	612.08	605.68	-
Guided missiles and space vehicles	3761	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Misc. transportation equipment	379	\$10.70	\$10.77	\$10.75	\$10.82	-	\$416.23	\$435.11	\$430.00	\$431.72	-
Travel trailers and campers	3792	9.33	9.29	9.28	9.08	-	352.67	364.17	360.06	350.49	-
Instruments and related products	38	10.90	10.94	11.37	11.36	\$11.45	443.63	447.45	461.62	464.62	\$474.03
Search and navigation equipment	381	13.91	14.03	14.74	14.79	-	568.92	578.04	594.02	599.00	-
Measuring and controlling devices	382	10.28	10.30	10.70	10.75	-	419.42	422.30	440.84	442.90	-
Environmental controls	3822	9.28	9.22	9.27	9.46	-	365.63	367.88	368.95	384.08	-
Process control instruments	3823	9.72	9.81	10.49	10.64	-	405.32	413.00	442.68	447.94	-
Instruments to measure electricity	3825	10.35	10.46	10.86	10.84	-	418.14	418.40	447.43	450.94	-
Medical instruments and supplies	384	9.49	9.46	9.89	9.85	-	382.45	384.08	396.59	400.90	-
Surgical and medical instruments	3841	9.55	9.44	9.91	9.89	-	387.73	385.15	389.46	397.58	-
Surgical appliances and supplies	3842	9.15	9.23	9.59	9.55	-	365.09	371.05	384.56	389.64	-
Ophthalmic goods	385	7.79	7.79	8.16	8.27	-	306.93	307.71	319.87	322.53	-
Photographic equipment and supplies	386	13.35	13.55	14.22	14.11	-	566.04	574.52	597.24	595.44	-
Watches, clocks, watchcases, and parts	387	7.33	7.44	7.79	7.76	-	285.87	289.42	302.25	304.97	-
Miscellaneous manufacturing industries	39	8.20	8.36	8.60	8.60	8.63	321.44	328.55	333.68	340.56	344.34
Jewelry, silverware, and plated ware	391	8.94	8.98	9.19	9.22	-	337.04	346.63	339.11	358.66	-
Jewelry, precious metal	3911	8.97	9.00	9.09	9.21	-	333.68	346.50	327.24	354.59	-
Musical instruments	393	8.18	8.43	8.92	8.67	-	319.02	324.56	344.31	351.14	-
Toys and sporting goods	394	7.59	7.68	7.90	8.03	-	297.53	301.06	309.68	318.79	-
Dolls, games, toys, and children's vehicles	3942,4	7.24	7.27	7.66	7.71	-	278.74	281.35	297.21	306.86	-
Sporting and athletic goods, nec	3949	7.85	8.01	8.06	8.27	-	312.43	317.20	317.56	327.49	-
Pens, pencils, office, and art supplies	395	8.06	8.34	9.14	8.77	-	324.01	339.44	374.74	357.82	-
Costume jewelry and notions	396	7.17	7.36	7.41	7.47	-	278.20	281.89	283.80	299.55	-
Costume jewelry	3961	6.37	6.62	6.60	6.74	-	243.97	249.57	257.40	275.67	-
Miscellaneous manufactures	399	8.75	8.92	9.08	9.08	-	346.50	354.12	351.40	355.94	-
Signs and advertising specialties	3993	9.45	9.72	9.81	9.81	-	376.11	390.74	387.50	388.48	-
Nondurable goods		9.73	9.81	10.20	10.12	10.19	392.12	397.31	406.98	407.84	412.70
Food and kindred products	20	9.32	9.37	9.68	9.54	9.57	383.98	388.86	393.01	394.96	400.03
Meat products	201	7.77	7.90	7.99	7.99	-	320.12	330.22	318.80	322.00	-
Meat packing plants	2011	8.68	8.85	8.74	8.76	-	361.09	383.21	358.34	362.66	-
Sausages and other prepared meats	2013	9.20	9.38	9.34	9.27	-	382.72	391.15	391.35	387.49	-
Poultry slaughtering and processing	2015	6.61	6.67	6.93	6.95	-	269.69	272.14	266.81	271.75	-
Dairy products	202	10.16	10.36	10.52	10.56	-	412.50	428.90	436.58	427.68	-
Cheese, natural and processed	2022	9.49	9.67	9.54	9.74	-	368.21	382.93	378.74	379.86	-
Fluid milk	2026	10.60	10.76	11.05	10.97	-	438.84	456.22	464.10	449.77	-
Preserved fruits and vegetables	203	8.60	8.45	8.98	8.62	-	358.62	348.99	356.51	366.35	-
Canned specialties	2032	10.51	10.62	11.23	10.84	-	464.54	468.34	469.41	500.81	-
Canned fruits and vegetables	2033	8.79	8.51	9.44	8.75	-	376.21	348.91	368.16	376.25	-
Frozen fruits and vegetables	2037	7.48	7.51	7.97	7.64	-	293.96	310.91	316.41	313.24	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Grain mill products	204	44.2	44.8	45.3	45.6	-	5.8	6.5	6.3	6.6	-
Flour and other grain mill products	2041	47.4	49.5	48.6	49.9	-	8.1	9.1	7.1	8.1	-
Prepared feeds, nec	2048	42.3	42.2	42.3	42.7	-	5.1	5.4	5.3	5.4	-
Bakery products	205	39.8	40.2	39.2	39.7	-	4.3	4.3	4.2	4.3	-
Bread, cake, and related products	2051	39.0	39.3	39.1	39.3	-	4.4	4.4	4.6	4.4	-
Cookies, crackers, and frozen bakery products, except bread	2052,3	41.5	42.0	39.3	40.4	-	4.2	4.1	3.6	4.0	-
Sugar and confectionery products	206	41.6	41.5	41.0	41.5	-	4.2	4.6	3.8	4.4	-
Raw cane sugar	2061	44.1	45.0	40.1	41.9	-	4.1	3.8	3.8	4.0	-
Cane sugar refining	2062	48.8	50.9	48.6	45.9	-	10.7	13.4	9.9	9.3	-
Beet sugar	2063	39.9	38.8	40.7	40.0	-	3.7	5.3	3.8	3.5	-
Candy and other confectionery products	2064	40.8	40.3	39.9	40.6	-	3.6	3.7	3.0	3.8	-
Fats and oils	207	43.7	44.8	43.6	44.1	-	6.1	6.8	6.1	6.0	-
Beverages	208	41.6	41.4	42.2	41.7	-	4.3	4.2	5.4	4.9	-
Malt beverages	2082	43.0	42.9	43.6	43.3	-	6.3	6.0	7.2	7.0	-
Bottled and canned soft drinks	2086	41.2	40.7	42.6	41.7	-	3.7	3.4	5.4	4.4	-
Misc. food and kindred products	209	39.5	39.2	40.3	41.6	-	4.7	4.5	5.4	5.5	-
Tobacco products	21	37.3	40.3	38.6	38.1	38.8	.9	3.0	1.7	1.7	-
Cigarettes	211	37.7	39.2	38.6	38.3	-	.6	3.0	1.7	1.7	-
Textile mill products	22	41.3	41.0	39.7	40.2	40.2	4.2	4.2	3.5	3.9	-
Broadwoven fabric mills, cotton	221	42.3	41.9	38.5	39.9	-	5.0	4.7	3.9	4.6	-
Broadwoven fabric mills, synthetics	222	41.3	41.1	40.3	41.0	-	4.2	4.2	3.6	4.1	-
Broadwoven fabric mills, wool	223	40.5	40.7	41.6	40.8	-	2.9	3.4	4.1	3.2	-
Narrow fabric mills	224	41.4	41.2	40.1	40.2	-	3.7	3.4	2.5	2.8	-
Knitting mills	225	40.2	39.7	38.5	38.8	-	3.8	3.7	3.1	3.2	-
Women's hosiery, except socks	2251	38.3	38.7	37.0	37.0	-	2.4	2.8	2.2	2.9	-
Hosiery, nec	2252	40.3	39.4	38.2	38.8	-	3.9	3.2	2.7	2.5	-
Knit outerwear mills	2253	39.8	39.4	38.7	38.9	-	4.1	4.2	3.5	3.4	-
Knit underwear mills	2254	40.3	39.4	37.1	37.7	-	2.4	1.8	1.7	2.0	-
Weft knit fabric mills	2257	42.4	41.6	39.4	39.9	-	5.1	4.9	3.3	3.5	-
Textile finishing, except wool	226	41.8	42.3	40.8	41.2	-	4.7	5.2	4.2	4.7	-
Finishing plants, cotton	2261	42.7	43.6	40.6	41.0	-	4.8	5.6	3.6	4.6	-
Finishing plants, synthetics	2262	40.9	42.0	41.0	42.0	-	4.5	5.2	4.2	5.2	-
Carpets and rugs	227	43.3	41.9	42.4	42.8	-	4.7	4.5	4.1	5.0	-
Yarn and thread mills	228	40.7	40.7	39.4	39.9	-	4.1	4.1	3.4	3.7	-
Yarn spinning mills	2281	41.0	41.0	39.9	40.5	-	4.4	4.3	3.7	4.0	-
Throwing and winding mills	2282	37.5	38.0	36.4	36.3	-	2.3	2.7	1.9	2.4	-
Miscellaneous textile goods	229	42.1	42.3	41.0	41.8	-	4.1	4.5	3.4	4.1	-
Apparel and other textile products	23	37.0	36.9	36.3	36.7	36.8	1.9	2.0	1.4	1.7	-
Men's and boys' suits and coats	231	34.9	35.9	36.5	35.6	-	1.1	1.1	1.0	.8	-
Men's and boys' furnishings	232	37.3	37.1	36.5	36.6	-	1.8	1.6	1.1	1.3	-
Men's and boys' shirts	2321	37.8	37.3	36.5	36.1	-	1.4	1.6	.9	1.2	-
Men's and boys' trousers and slacks	2325	36.3	36.1	35.9	35.7	-	1.7	1.5	1.2	1.4	-
Men's and boys' work clothing	2326	36.4	36.5	37.1	37.5	-	1.9	1.5	.9	1.2	-
Women's and misses' outerwear	233	35.3	34.8	34.9	35.3	-	1.6	1.6	1.3	1.6	-
Women's and misses' blouses and shirts	2331	35.1	34.6	35.0	36.0	-	1.1	1.2	.8	1.1	-
Women's, juniors', and misses' dresses	2335	34.7	34.1	33.5	34.2	-	1.6	1.6	1.1	1.4	-
Women's and misses' suits and coats	2337	36.8	35.6	35.5	36.4	-	2.3	2.3	1.8	2.3	-
Women's and misses' outerwear, nec	2339	35.3	34.9	35.2	35.3	-	1.5	1.5	1.4	1.6	-
Women's and children's undergarments	234	37.5	37.9	36.7	38.4	-	1.5	1.7	1.3	1.6	-
Women's and children's underwear	2341	38.1	38.4	37.2	39.1	-	1.6	1.8	1.4	1.8	-
Brassieres, girdles, and allied garments	2342	34.3	35.6	33.8	34.5	-	.8	1.2	.9	.4	-
Girl's and children's outerwear	236	37.0	37.4	36.1	36.6	-	1.7	1.8	1.5	1.4	-
Girl's and children's dresses and blouses	2361	36.1	36.9	35.3	36.4	-	1.3	1.7	1.6	1.7	-
Misc. apparel and accessories	238	38.0	38.1	36.2	36.9	-	2.1	2.4	.9	1.3	-
Misc. fabricated textile products	239	39.5	39.7	37.9	39.0	-	3.0	3.4	2.2	2.9	-
Curtains and draperies	2391	37.1	36.6	34.6	36.8	-	2.3	2.4	1.7	1.5	-
House furnishings, nec	2392	40.2	40.5	37.6	39.2	-	3.3	3.5	2.1	3.0	-
Automotive and apparel trimmings	2396	40.5	40.5	40.0	41.3	-	3.6	4.0	2.3	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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Grain mill products	204	\$11.41	\$11.48	\$11.70	\$11.71	-	\$504.32	\$514.30	\$530.01	\$533.98	-
Flour and other grain mill products	2041	11.23	10.95	10.80	10.88	-	532.30	542.03	524.88	542.91	-
Prepared feeds, nec	2048	8.75	8.83	9.07	9.01	-	370.13	372.63	383.66	384.73	-
Bakery products	205	10.50	10.49	10.97	10.91	-	417.90	421.70	430.02	433.13	-
Bread, cake, and related products	2051	10.53	10.49	11.02	10.92	-	410.67	412.26	430.88	429.16	-
Cookies, crackers, and frozen bakery products, except bread	2052,3	10.46	10.48	10.87	10.91	-	434.09	440.16	427.19	440.76	-
Sugar and confectionery products	206	10.11	10.02	10.46	10.26	-	420.58	415.83	428.86	425.79	-
Raw cane sugar	2061	9.68	9.74	9.91	10.13	-	426.89	438.30	397.39	424.45	-
Cane sugar refining	2062	14.00	14.42	13.98	14.36	-	683.20	733.98	679.43	659.12	-
Beet sugar	2063	11.36	10.67	11.43	11.85	-	453.26	414.00	465.20	474.00	-
Candy and other confectionery products	2064	8.95	8.81	9.28	8.99	-	365.16	355.04	370.27	364.99	-
Fats and oils	207	10.06	10.19	10.26	10.22	-	439.62	456.51	447.34	450.70	-
Beverages	208	12.94	13.11	13.45	13.49	-	538.30	542.75	567.59	562.53	-
Malt beverages	2082	17.99	18.19	18.47	18.66	-	773.57	780.35	805.29	807.98	-
Bottled and canned soft drinks	2086	10.36	10.35	10.85	10.80	-	426.83	421.25	462.21	450.36	-
Misc. food and kindred products	209	8.70	8.89	9.07	8.97	-	343.65	348.49	365.52	373.15	-
Tobacco products	21	15.72	14.71	17.42	16.23	\$15.76	586.36	592.81	672.41	618.36	\$611.49
Cigarettes	211	18.60	18.97	19.34	19.39	-	701.22	743.62	746.52	742.64	-
Textile mill products	22	7.68	7.74	8.01	8.04	8.09	317.18	317.34	318.00	323.21	325.22
Broadwoven fabric mills, cotton	221	8.04	8.05	8.34	8.35	-	340.09	337.30	321.09	333.17	-
Broadwoven fabric mills, synthetics	222	8.33	8.39	8.58	8.66	-	344.03	344.83	345.77	355.06	-
Broadwoven fabric mills, wool	223	8.43	8.37	8.73	8.52	-	341.42	340.66	363.17	347.62	-
Narrow fabric mills	224	7.15	7.13	7.38	7.41	-	296.01	293.76	295.94	297.84	-
Knitting mills	225	7.00	7.08	7.38	7.40	-	281.40	281.08	284.13	287.12	-
Women's hosiery, except socks	2251	6.76	6.84	6.81	6.87	-	258.91	264.71	251.97	254.19	-
Hosiery, nec	2252	6.74	6.84	7.03	7.08	-	271.62	269.50	268.55	274.70	-
Knit outerwear mills	2253	6.71	6.84	7.31	7.28	-	267.06	269.50	282.90	283.19	-
Knit underwear mills	2254	6.94	6.99	7.41	7.42	-	279.68	275.41	274.91	279.73	-
Weft knit fabric mills	2257	7.75	7.76	8.01	8.01	-	328.60	322.82	315.59	319.60	-
Textile finishing, except wool	226	8.09	8.23	8.37	8.43	-	338.16	348.13	341.50	347.32	-
Finishing plants, cotton	2261	8.04	8.17	8.34	8.36	-	343.31	356.21	338.60	342.76	-
Finishing plants, synthetics	2262	8.47	8.57	8.73	8.77	-	346.42	359.94	357.93	368.34	-
Carpets and rugs	227	7.95	8.02	8.27	8.24	-	344.24	336.04	350.65	352.67	-
Yarn and thread mills	228	7.42	7.46	7.68	7.76	-	301.99	303.62	302.59	309.62	-
Yarn spinning mills	2281	7.42	7.45	7.69	7.76	-	304.22	305.45	306.83	314.28	-
Throwing and winding mills	2282	7.52	7.64	7.83	7.98	-	282.00	290.32	285.01	289.67	-
Miscellaneous textile goods	229	8.56	8.62	9.07	9.13	-	360.38	364.63	371.87	381.63	-
Apparel and other textile products	23	6.33	6.41	6.59	6.64	6.70	234.21	236.53	239.22	243.69	246.56
Men's and boys' suits and coats	231	7.09	7.16	7.48	7.36	-	247.44	257.04	273.02	262.02	-
Men's and boys' furnishings	232	5.77	5.82	6.02	6.07	-	215.22	215.92	219.73	222.16	-
Men's and boys' shirts	2321	5.64	5.72	5.89	5.98	-	213.19	213.36	214.99	215.88	-
Men's and boys' trousers and slacks	2325	5.69	5.74	5.93	5.98	-	206.55	207.21	212.89	213.49	-
Men's and boys' work clothing	2326	5.60	5.62	5.89	5.91	-	203.84	205.13	218.52	221.63	-
Women's and misses' outerwear	233	6.08	6.14	6.28	6.34	-	214.62	213.67	219.17	223.80	-
Women's and misses' blouses and shirts	2331	5.30	5.36	5.54	5.61	-	186.03	185.46	193.90	201.96	-
Women's, juniors', and misses' dresses	2335	6.50	6.52	6.69	6.74	-	225.55	222.33	224.12	230.51	-
Women's and misses' suits and coats	2337	6.56	6.64	7.11	7.05	-	241.41	236.38	252.41	256.62	-
Women's and misses' outerwear, nec	2339	5.99	6.07	6.09	6.17	-	211.45	211.84	214.37	217.80	-
Women's and children's undergarments	234	5.90	6.02	6.16	6.22	-	221.25	228.16	226.07	238.85	-
Women's and children's underwear	2341	5.80	5.86	6.04	6.11	-	220.98	225.02	224.69	238.90	-
Brassieres, girdles, and allied garments	2342	6.47	6.84	6.93	6.90	-	221.92	243.50	234.23	238.05	-
Girl's and children's outerwear	236	5.68	5.74	6.06	5.99	-	210.16	214.68	218.77	219.23	-
Girl's and children's dresses and blouses	2361	5.66	5.71	5.95	5.88	-	204.33	210.70	210.04	214.03	-
Misc. apparel and accessories	238	6.21	6.25	6.42	6.43	-	235.98	238.13	232.40	237.27	-
Misc. fabricated textile products	239	7.58	7.72	7.86	7.98	-	299.41	306.48	297.89	311.22	-
Curtains and draperies	2391	6.35	6.53	6.53	6.66	-	235.59	239.00	225.94	245.09	-
House furnishings, nec	2392	6.50	6.51	6.70	6.70	-	261.30	263.66	251.92	262.64	-
Automotive and apparel trimmings	2396	11.30	11.60	10.91	11.39	-	457.65	469.80	436.40	470.41	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Nondurable goods—Continued											
Paper and allied products	26	43.2	43.7	43.2	43.2	43.4	4.5	5.1	4.7	4.8	-
Paper mills	262	45.0	45.7	44.7	44.6	-	4.2	4.9	5.1	5.0	-
Paperboard mills	263	44.8	45.7	46.1	45.1	-	7.2	7.9	7.1	6.9	-
Paperboard containers and boxes	265	42.9	43.3	42.3	42.9	-	4.7	5.2	4.6	5.0	-
Corrugated and solid fiber boxes	2653	43.7	44.4	42.6	43.4	-	5.2	5.8	4.9	5.5	-
Sanitary food containers	2656	41.9	43.1	44.6	44.3	-	4.2	4.8	5.1	4.9	-
Folding paperboard boxes	2657	42.4	42.0	41.9	42.5	-	4.4	4.7	4.6	4.9	-
Misc. converted paper products	267	42.0	42.4	42.0	42.1	-	4.0	4.5	4.0	4.1	-
Paper, coated and laminated, nec	2672	42.9	42.1	43.2	43.4	-	3.2	3.2	3.5	4.0	-
Bags: plastics, laminated, and coated	2673	41.4	42.6	41.4	41.6	-	4.6	5.2	5.0	4.8	-
Envelopes	2677	41.2	41.6	40.9	42.0	-	3.3	3.4	3.2	3.9	-
Printing and publishing	27	37.9	38.4	37.7	38.3	38.5	3.0	3.5	2.8	3.2	-
Newspapers	271	33.2	33.4	32.9	33.2	-	1.3	1.5	1.2	1.3	-
Periodicals	272	37.9	38.1	37.2	39.0	-	2.9	3.7	2.7	3.7	-
Books	273	39.3	39.1	39.0	39.4	-	3.1	3.7	2.7	3.3	-
Book publishing	2731	38.5	37.9	38.5	38.3	-	2.2	2.3	1.9	2.0	-
Book printing	2732	40.4	40.5	39.8	40.7	-	4.3	5.4	3.7	4.9	-
Miscellaneous publishing	274	36.2	36.0	36.5	37.2	-	1.8	2.0	1.7	2.3	-
Commercial printing	275	39.5	40.2	39.0	39.7	-	3.7	4.3	3.3	3.7	-
Commercial printing, lithographic	2752	39.3	40.0	38.5	39.4	-	3.8	4.3	3.4	3.8	-
Commercial printing, nec	2759	39.5	40.2	39.6	39.9	-	3.2	3.9	3.0	3.3	-
Manifold business forms	276	40.9	41.5	41.3	41.0	-	3.8	4.2	3.6	3.7	-
Blankbooks and bookbinding	278	37.4	37.8	37.4	38.0	-	2.8	3.1	2.3	3.0	-
Printing trade services	279	39.3	39.7	39.4	39.8	-	4.3	4.6	4.4	5.2	-
Chemicals and allied products	28	42.1	42.5	42.1	42.2	42.7	4.3	4.5	4.3	4.2	-
Industrial inorganic chemicals	281	42.8	42.7	42.8	42.2	-	4.5	4.4	4.7	4.3	-
Industrial inorganic chemicals, nec	2819	42.1	42.0	42.7	41.7	-	4.3	4.3	4.7	4.2	-
Plastics materials and synthetics	282	42.6	43.3	42.1	41.8	-	4.8	5.1	4.7	4.5	-
Plastics materials and resins	2821	43.1	43.6	44.0	43.6	-	5.2	5.3	5.6	5.5	-
Organic fibers, noncellulosic	2824	42.5	43.5	40.0	40.3	-	4.4	4.8	3.7	3.5	-
Drugs	283	41.2	41.6	40.9	41.5	-	3.6	3.9	3.5	3.7	-
Pharmaceutical preparations	2834	41.1	41.5	40.9	41.7	-	3.6	3.8	3.5	3.7	-
Soap, cleaners, and toilet goods	284	39.8	40.6	40.1	40.5	-	3.0	3.5	3.0	3.3	-
Soap and other detergents	2841	41.9	42.6	42.4	42.0	-	4.9	5.5	4.9	4.9	-
Polishing, sanitation, and finishing preparations	2842,3	41.0	42.0	40.9	41.5	-	3.0	3.7	3.1	3.5	-
Toilet preparations	2844	36.2	38.9	38.2	39.1	-	2.0	2.3	1.7	2.1	-
Paints and allied products	285	41.7	41.8	42.3	42.2	-	4.0	4.3	4.1	3.9	-
Industrial organic chemicals	286	44.1	44.5	45.5	44.9	-	5.6	5.6	5.9	5.6	-
Cyclic crudes and intermediates	2865	44.3	43.5	44.6	43.8	-	6.2	5.0	5.2	5.8	-
Industrial organic chemicals, nec	2869	44.1	44.8	45.9	45.3	-	5.6	5.8	6.2	5.6	-
Agricultural chemicals	287	42.7	43.8	43.0	42.9	-	4.5	5.4	4.3	4.4	-
Miscellaneous chemical products	289	42.5	42.4	40.9	42.4	-	4.1	4.1	4.2	4.5	-
Petroleum and coal products	29	43.8	44.4	44.7	43.8	44.3	5.8	5.9	5.9	5.8	-
Petroleum refining	291	42.9	44.3	44.6	42.7	-	4.9	5.2	5.2	4.6	-
Asphalt paving and roofing materials	295	47.6	46.3	46.2	48.1	-	9.8	9.3	9.1	10.4	-
Rubber and misc. plastics products	30	41.0	41.3	40.9	41.1	41.5	3.7	3.9	3.7	3.8	-
Tires and inner tubes	301	43.0	42.4	42.6	41.5	-	5.5	5.0	5.4	4.8	-
Rubber and plastics footwear	302	40.2	40.1	41.0	41.8	-	2.9	2.6	2.3	3.7	-
Hose, belting, gaskets, and packing	305	41.1	41.3	42.0	42.3	-	2.7	2.9	3.6	3.5	-
Rubber and plastics hose and belting	3052	41.6	42.6	42.1	41.7	-	3.3	3.6	3.7	3.1	-
Fabricated rubber products, nec	306	40.6	41.0	40.5	41.1	-	3.1	3.5	3.0	3.2	-
Miscellaneous plastics products, nec	308	40.8	41.2	40.6	40.9	-	3.6	3.9	3.7	3.8	-
Leather and leather products	31	38.4	38.2	37.4	38.0	37.4	2.0	2.2	1.7	2.1	-
Leather tanning and finishing	311	42.0	42.0	40.1	42.4	-	4.8	4.8	3.4	4.2	-
Footwear, except rubber	314	37.7	37.4	36.9	37.1	-	1.5	1.8	1.4	1.5	-
Men's footwear, except athletic	3143	37.8	37.9	36.5	37.2	-	1.0	1.4	1.0	1.0	-
Women's footwear, except athletic	3144	37.7	36.4	37.7	37.4	-	2.1	1.8	1.8	2.3	-
Luggage	316	40.6	39.9	40.0	39.7	-	2.5	2.9	2.7	2.5	-
Handbags and personal leather goods	317	37.9	37.8	36.3	37.9	-	2.0	2.4	1.4	1.8	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^P	Sept. 1990 ^P	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^P	Sept. 1990 ^P
Nondurable goods—Continued											
Paper and allied products	26	\$11.95	\$12.04	\$12.36	\$12.29	\$12.39	\$516.24	\$526.15	\$533.95	\$530.93	\$537.73
Paper mills	262	14.63	14.76	15.18	15.06	-	658.35	674.53	678.55	671.68	-
Paperboard mills	263	14.76	14.96	15.06	15.18	-	661.25	683.67	694.27	684.62	-
Paperboard containers and boxes	265	10.15	10.21	10.44	10.47	-	435.44	442.09	441.61	449.16	-
Corrugated and solid fiber boxes	2653	10.33	10.36	10.60	10.66	-	451.42	459.98	451.56	462.64	-
Sanitary food containers	2656	10.09	10.19	10.04	10.22	-	422.77	439.19	447.78	452.75	-
Folding paperboard boxes	2657	10.34	10.47	10.66	10.72	-	438.42	439.74	446.65	455.60	-
Misc. converted paper products	267	10.48	10.53	10.79	10.74	-	440.16	446.47	453.18	452.15	-
Paper, coated and laminated, nec	2672	11.55	11.77	12.02	12.05	-	495.50	495.52	519.26	522.97	-
Bags: plastics, laminated, and coated	2673	9.89	9.83	10.15	10.09	-	409.45	418.76	420.21	419.74	-
Envelopes	2677	9.81	9.81	10.22	10.24	-	404.17	408.10	418.00	430.08	-
Printing and publishing	27	10.91	11.07	11.25	11.29	11.41	413.49	425.09	424.13	432.41	439.29
Newspapers	271	10.83	10.96	11.29	11.24	-	359.56	366.06	371.44	373.17	-
Periodicals	272	11.56	11.69	11.99	12.00	-	438.12	445.39	446.03	468.00	-
Books	273	9.76	10.02	10.01	10.29	-	383.57	391.78	390.39	405.43	-
Book publishing	2731	9.31	9.64	9.75	10.22	-	358.44	365.36	375.38	391.43	-
Book printing	2732	10.32	10.47	10.32	10.38	-	416.93	424.04	410.74	422.47	-
Miscellaneous publishing	274	10.07	10.17	10.26	10.35	-	364.53	366.12	374.49	385.02	-
Commercial printing	275	11.18	11.36	11.54	11.57	-	441.61	456.67	450.06	459.33	-
Commercial printing, lithographic	2752	11.35	11.52	11.65	11.70	-	446.06	460.80	448.53	460.98	-
Commercial printing, nec	2759	10.78	10.96	11.29	11.22	-	425.81	440.59	447.08	447.68	-
Manifold business forms	276	11.41	11.43	11.78	11.76	-	466.67	474.35	486.51	482.16	-
Blankbooks and bookbinding	278	8.68	8.80	8.72	8.79	-	324.63	332.64	326.13	334.02	-
Printing trade services	279	13.30	13.40	13.75	13.83	-	522.69	531.98	541.75	550.43	-
Chemicals and allied products	28	13.10	13.20	13.58	13.55	13.63	551.51	561.00	571.72	571.81	582.00
Industrial inorganic chemicals	281	14.29	14.28	14.71	14.77	-	611.61	609.76	629.59	623.29	-
Industrial inorganic chemicals, nec	2819	14.39	14.38	14.81	14.92	-	605.82	603.96	632.39	622.16	-
Plastics materials and synthetics	282	13.44	13.58	14.00	14.01	-	572.54	588.01	589.40	585.62	-
Plastics materials and resins	2821	14.37	14.50	14.84	14.90	-	619.35	632.20	652.96	649.64	-
Organic fibers, noncellulosic	2824	12.71	12.88	13.32	13.22	-	540.18	560.28	532.80	532.77	-
Drugs	283	12.50	12.64	12.88	12.91	-	515.00	525.82	526.79	535.77	-
Pharmaceutical preparations	2834	12.48	12.59	12.84	12.88	-	512.93	522.49	525.16	537.10	-
Soap, cleaners, and toilet goods	284	11.18	11.22	11.81	11.76	-	444.96	455.53	473.58	476.28	-
Soap and other detergents	2841	15.22	15.17	15.67	15.50	-	637.72	646.24	664.41	651.00	-
Polishing, sanitation, and finishing preparations	2842,3	10.30	10.33	10.40	10.51	-	422.30	433.86	425.36	436.17	-
Toilet preparations	2844	9.29	9.37	9.97	10.01	-	354.88	364.49	380.85	391.39	-
Paints and allied products	285	11.70	11.76	12.04	12.12	-	487.89	491.57	509.29	511.46	-
Industrial organic chemicals	286	15.67	15.80	16.02	15.92	-	691.05	703.10	728.91	714.81	-
Cyclic crudes and intermediates	2865	15.68	15.50	16.05	16.01	-	694.62	674.25	715.83	701.24	-
Industrial organic chemicals, nec	2869	15.87	16.08	16.18	16.07	-	699.87	720.38	742.66	727.97	-
Agricultural chemicals	287	12.98	13.18	13.57	13.68	-	554.25	577.28	583.51	586.87	-
Miscellaneous chemical products	289	11.99	12.10	12.41	12.32	-	509.58	513.04	507.57	522.37	-
Petroleum and coal products	29	15.20	15.41	16.22	16.01	16.35	665.76	684.20	725.03	701.24	724.31
Petroleum refining	291	16.45	16.63	17.57	17.36	-	705.71	736.71	783.62	741.27	-
Asphalt paving and roofing materials	295	12.38	12.50	13.11	13.20	-	589.29	578.75	605.68	634.92	-
Rubber and misc. plastics products	30	9.47	9.50	9.85	9.78	9.86	388.27	392.35	402.87	401.96	409.19
Tires and inner tubes	301	15.06	14.84	15.58	15.40	-	647.58	629.22	663.71	639.10	-
Rubber and plastics footwear	302	6.54	6.58	6.83	6.62	-	262.91	263.86	280.03	276.72	-
Hose, belting, gaskets, and packing	305	9.19	9.34	9.69	9.70	-	377.71	385.74	406.98	410.31	-
Rubber and plastics hose and belting	3052	9.55	9.67	9.91	9.93	-	397.28	411.94	417.21	414.08	-
Fabricated rubber products, nec	306	9.03	9.09	9.39	9.41	-	366.62	372.69	380.30	386.75	-
Miscellaneous plastics products, nec	308	8.84	8.92	9.22	9.18	-	360.67	367.50	374.33	375.46	-
Leather and leather products	31	6.55	6.65	6.79	6.84	6.94	251.52	254.03	253.95	259.92	259.56
Leather tanning and finishing	311	8.81	8.88	8.85	8.90	-	370.02	372.96	354.89	377.36	-
Footwear, except rubber	314	6.23	6.32	6.53	6.55	-	234.87	236.37	240.96	243.01	-
Men's footwear, except athletic	3143	6.66	6.80	7.06	7.08	-	251.75	257.72	257.69	263.38	-
Women's footwear, except athletic	3144	5.95	5.93	6.11	6.14	-	224.32	215.85	230.35	229.64	-
Luggage	316	6.48	6.83	6.72	6.54	-	263.09	272.52	268.80	259.64	-
Handbags and personal leather goods	317	5.98	6.04	5.96	6.05	-	226.64	228.31	216.35	229.30	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Transportation and public utilities		38.9	38.9	39.4	39.3	39.4	-	-	-	-	-
Railroad transportation:											
Class I railroads ^b	4011	42.6	42.3	47.9	46.9	-	-	-	-	-	-
Local and interurban passenger transit	41	35.8	33.3	35.2	34.9	-	-	-	-	-	-
Local and suburban transportation	411	38.9	37.8	38.3	38.1	-	-	-	-	-	-
Intercity and rural bus transportation	413	40.4	39.3	39.7	39.2	-	-	-	-	-	-
Trucking and warehousing	42	38.7	38.8	38.9	39.1	-	-	-	-	-	-
Trucking and courier services, except air	421	38.7	38.7	38.9	39.1	-	-	-	-	-	-
Public warehousing and storage	422	38.7	39.3	39.1	39.4	-	-	-	-	-	-
Pipelines, except natural gas	46	40.1	41.5	41.7	41.0	-	-	-	-	-	-
Transportation services:											
Freight transportation arrangement	473	37.5	37.3	38.0	37.7	-	-	-	-	-	-
Communications	48	39.3	39.4	39.6	39.5	-	-	-	-	-	-
Telephone communications	481	41.0	41.0	41.2	41.1	-	-	-	-	-	-
Radio and television broadcasting	483	35.0	35.0	35.1	34.6	-	-	-	-	-	-
Cable and other pay television services	484	37.8	37.7	38.6	38.8	-	-	-	-	-	-
Electric, gas, and sanitary services	49	41.7	42.0	41.6	41.4	-	-	-	-	-	-
Electric services	491	41.8	42.0	41.8	41.2	-	-	-	-	-	-
Gas production and distribution	492	41.5	42.4	41.7	41.9	-	-	-	-	-	-
Combination utility services	493	41.6	42.4	41.0	41.2	-	-	-	-	-	-
Sanitary services	495	42.2	41.8	42.2	42.2	-	-	-	-	-	-
Wholesale trade		38.0	38.1	38.3	38.1	38.2	-	-	-	-	-
Durable goods	50	38.5	38.5	38.8	38.6	-	-	-	-	-	-
Motor vehicles, parts, and supplies	501	37.5	37.5	38.3	38.0	-	-	-	-	-	-
Furniture and home furnishings	502	37.2	37.1	37.2	36.9	-	-	-	-	-	-
Lumber and other construction materials	503	39.9	39.9	40.0	40.1	-	-	-	-	-	-
Professional and commercial equipment	504	38.5	38.7	38.9	38.7	-	-	-	-	-	-
Metals and minerals, except petroleum	505	40.2	40.1	39.8	40.1	-	-	-	-	-	-
Electrical goods	506	38.0	38.0	38.7	38.5	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	38.9	38.8	39.1	38.8	-	-	-	-	-	-
Machinery, equipment, and supplies	508	39.0	39.0	39.2	39.0	-	-	-	-	-	-
Misc. wholesale trade durable goods	509	37.4	37.3	37.0	37.2	-	-	-	-	-	-
Nondurable goods	51	37.4	37.5	37.7	37.3	-	-	-	-	-	-
Paper and paper products	511	36.9	36.9	37.8	37.7	-	-	-	-	-	-
Drugs, proprietaries, and sundries	512	37.7	37.3	37.5	37.1	-	-	-	-	-	-
Apparel, piece goods, and notions	513	37.0	36.9	36.7	36.8	-	-	-	-	-	-
Groceries and related products	514	38.0	38.3	38.2	37.8	-	-	-	-	-	-
Chemicals and allied products	516	40.2	40.2	40.0	39.9	-	-	-	-	-	-
Petroleum and petroleum products	517	38.2	38.4	38.6	38.2	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	36.5	36.3	37.1	36.7	-	-	-	-	-	-
Misc. wholesale trade nondurable goods	519	36.6	36.6	36.9	36.7	-	-	-	-	-	-
Retail trade		29.6	28.9	29.7	29.4	28.9	-	-	-	-	-
Building materials and garden supplies	52	37.0	36.5	36.9	36.6	-	-	-	-	-	-
Lumber and other building materials	521	38.8	38.2	38.6	38.5	-	-	-	-	-	-
Hardware stores	525	33.2	32.4	33.1	32.7	-	-	-	-	-	-
General merchandise stores	53	28.4	28.0	29.3	28.5	-	-	-	-	-	-
Department stores	531	28.2	27.9	29.2	28.4	-	-	-	-	-	-
Variety stores	533	28.7	28.0	29.5	29.3	-	-	-	-	-	-
Misc. general merchandise stores	539	29.3	28.4	29.9	29.5	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^a	Sept. 1990 ^a
Transportation and public utilities		\$12.61	\$12.73	\$12.99	\$12.97	\$13.11	\$490.53	\$495.20	\$511.81	\$509.72	\$516.53
Railroad transportation:											
Class I railroads ³	4011	16.07	16.21	16.08	15.88	-	684.58	685.68	770.23	744.77	-
Local and interurban passenger transit	41	9.10	8.90	9.13	9.19	-	325.78	296.37	321.38	320.73	-
Local and suburban transportation	411	9.67	9.62	9.81	9.79	-	376.16	363.64	375.72	373.00	-
Intercity and rural bus transportation	413	11.82	11.65	11.10	11.18	-	477.53	457.85	440.67	438.26	-
Trucking and warehousing	42	11.40	11.47	11.67	11.70	-	441.18	445.04	453.96	457.47	-
Trucking and courier services, except air	421	11.56	11.64	11.81	11.85	-	447.37	450.47	459.41	463.34	-
Public warehousing and storage	422	9.14	9.18	9.61	9.64	-	353.72	360.77	375.75	379.82	-
Pipelines, except natural gas	46	15.77	16.22	16.84	16.86	-	632.38	673.13	702.23	691.26	-
Transportation services:											
Freight transportation arrangement	473	11.46	11.50	12.20	12.08	-	429.75	428.95	463.60	455.42	-
Communications	48	13.09	13.33	13.51	13.58	-	514.44	525.20	535.00	536.41	-
Telephone communications	481	13.79	14.10	14.17	14.26	-	565.39	578.10	583.80	586.09	-
Radio and television broadcasting	483	12.22	12.24	12.66	12.71	-	427.70	428.40	444.37	439.77	-
Cable and other pay television services	484	10.24	10.09	10.52	10.59	-	387.07	380.39	406.07	410.89	-
Electric, gas, and sanitary services	49	14.59	14.85	15.28	15.09	-	608.40	623.70	635.65	624.73	-
Electric services	491	15.00	15.18	15.95	15.68	-	627.00	637.56	666.71	646.02	-
Gas production and distribution	492	13.60	13.76	14.26	14.10	-	564.40	583.42	594.64	590.79	-
Combination utility services	493	17.10	17.49	17.51	17.33	-	711.36	741.58	717.91	714.00	-
Sanitary services	495	11.09	11.46	11.53	11.51	-	468.00	479.03	486.57	485.72	-
Wholesale trade		10.36	10.48	10.82	10.77	10.92	393.68	399.29	414.41	410.34	417.14
Durable goods	50	10.63	10.78	11.17	11.12	-	409.26	415.03	433.40	429.23	-
Motor vehicles, parts, and supplies	501	9.54	9.65	10.00	10.00	-	357.75	361.88	383.00	380.00	-
Furniture and home furnishings	502	9.80	9.90	10.18	10.27	-	364.56	367.29	378.70	378.96	-
Lumber and other construction materials	503	10.05	10.19	10.48	10.48	-	401.00	406.58	419.20	420.25	-
Professional and commercial equipment	504	12.31	12.37	13.15	13.00	-	473.94	478.72	511.54	503.10	-
Metals and minerals, except petroleum	505	10.88	11.00	11.35	11.32	-	437.38	441.10	451.73	453.93	-
Electrical goods	506	11.02	11.23	11.42	11.36	-	418.76	426.74	441.95	437.36	-
Hardware, plumbing, and heating equipment	507	10.03	10.19	10.57	10.49	-	390.17	395.37	413.29	407.01	-
Machinery, equipment, and supplies	508	10.68	10.87	11.14	11.11	-	416.52	423.93	436.69	433.29	-
Misc. wholesale trade durable goods	509	8.40	8.58	8.84	8.86	-	314.16	320.03	327.08	329.59	-
Nondurable goods	51	9.98	10.05	10.31	10.26	-	373.25	376.88	388.69	382.70	-
Paper and paper products	511	10.59	10.85	10.96	10.95	-	390.77	400.37	414.29	412.82	-
Drugs, proprietaries, and sundries	512	11.37	11.64	11.86	11.87	-	428.65	434.17	444.75	440.38	-
Apparel, piece goods, and notions	513	9.77	9.81	9.97	9.93	-	361.49	361.99	365.90	365.42	-
Groceries and related products	514	10.18	10.19	10.51	10.44	-	386.84	390.28	401.48	394.63	-
Chemicals and allied products	516	12.50	12.67	12.48	12.39	-	502.50	509.33	499.20	494.36	-
Petroleum and petroleum products	517	9.91	10.08	10.23	10.14	-	378.56	387.07	394.88	387.35	-
Beer, wine, and distilled beverages	518	11.72	11.81	12.12	11.94	-	427.78	428.70	449.65	438.20	-
Misc. wholesale trade nondurable goods	519	8.25	8.35	8.64	8.62	-	301.95	305.61	318.82	316.35	-
Retail trade		6.49	6.59	6.74	6.75	6.87	192.10	190.45	200.18	198.45	198.54
Building materials and garden supplies	52	7.71	7.81	7.94	7.95	-	285.27	285.07	292.99	290.97	-
Lumber and other building materials	521	8.04	8.16	8.30	8.27	-	311.95	311.71	320.38	318.40	-
Hardware stores	525	6.43	6.52	6.74	6.72	-	213.48	211.25	223.09	219.74	-
General merchandise stores	53	6.62	6.65	6.77	6.82	-	188.01	186.20	198.36	194.37	-
Department stores	531	6.83	6.85	6.93	6.98	-	192.61	191.12	202.36	198.23	-
Variety stores	533	5.26	5.35	5.67	5.68	-	150.96	149.80	167.27	166.42	-
Misc. general merchandise stores	539	5.93	6.01	6.33	6.37	-	173.75	170.68	189.27	187.92	-

See footnotes at end of table.

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

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

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ²	Sept. 1990 ²	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ²	Sept. 1990 ²
Retail trade—Continued											
Food stores	54	30.7	30.0	30.8	30.3	-	-	-	-	-	-
Grocery stores	541	30.9	30.2	31.0	30.5	-	-	-	-	-	-
Retail bakeries	546	29.7	29.0	29.4	29.3	-	-	-	-	-	-
Automotive dealers and service stations	55	36.5	36.2	36.6	36.6	-	-	-	-	-	-
New and used car dealers	551	37.1	37.0	37.3	37.4	-	-	-	-	-	-
Auto and home supply stores	553	38.8	38.2	38.8	38.7	-	-	-	-	-	-
Gasoline service stations	554	34.5	34.1	34.6	34.3	-	-	-	-	-	-
Automotive dealers, nec	559	36.2	35.5	35.5	34.5	-	-	-	-	-	-
Apparel and accessory stores	56	27.8	26.9	27.9	27.9	-	-	-	-	-	-
Men's and boys' clothing stores	561	29.0	28.1	29.5	29.2	-	-	-	-	-	-
Women's clothing stores	562	25.6	24.7	24.8	24.9	-	-	-	-	-	-
Family clothing stores	565	27.5	26.9	28.2	28.1	-	-	-	-	-	-
Shoe stores	566	30.1	29.2	31.3	31.5	-	-	-	-	-	-
Furniture and home furnishings stores	57	33.4	33.2	33.5	33.2	-	-	-	-	-	-
Furniture and home furnishings stores	571	33.8	33.6	33.9	33.5	-	-	-	-	-	-
Household appliance stores	572	33.4	32.7	34.0	33.7	-	-	-	-	-	-
Radio, television, and computer stores	573	32.8	32.7	32.6	32.4	-	-	-	-	-	-
Radio, television, and electronic stores	5731	32.5	32.4	32.4	32.2	-	-	-	-	-	-
Record and prerecorded tape stores	5735	27.8	27.4	27.6	27.0	-	-	-	-	-	-
Eating and drinking places ⁴	58	26.3	25.3	26.2	26.0	-	-	-	-	-	-
Miscellaneous retail establishments	59	30.2	29.7	30.2	30.2	-	-	-	-	-	-
Drug stores and proprietary stores	591	28.0	27.5	28.3	28.3	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	29.4	28.4	29.4	29.1	-	-	-	-	-	-
Nonstore retailers	596	32.9	33.2	33.0	33.5	-	-	-	-	-	-
Fuel dealers	598	37.9	37.9	36.6	36.7	-	-	-	-	-	-
Retail stores, nec	599	31.9	31.7	31.5	31.6	-	-	-	-	-	-
Finance, insurance, and real estate⁵		35.8	35.6	36.2	35.7	36.2	-	-	-	-	-
Depository institutions	60	35.6	35.4	36.1	35.6	-	-	-	-	-	-
Commercial banks	602	35.5	35.2	36.1	35.5	-	-	-	-	-	-
Credit unions	606	35.9	35.8	36.2	35.9	-	-	-	-	-	-
Nondepository institutions	61	37.6	37.3	38.0	37.5	-	-	-	-	-	-
Personal credit institutions	614	37.6	38.0	38.0	37.9	-	-	-	-	-	-
Security and commodity brokers:											
Security and commodity services	628	37.5	37.7	37.6	37.4	-	-	-	-	-	-
Insurance carriers	63	37.1	37.1	37.7	37.3	-	-	-	-	-	-
Life insurance	631	37.1	37.0	37.1	36.8	-	-	-	-	-	-
Medical service and health insurance	632	37.6	37.5	38.5	38.6	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	36.8	36.9	37.6	37.0	-	-	-	-	-	-
Services		32.8	32.5	33.0	32.8	32.7	-	-	-	-	-
Hotels and other lodging places:											
Hotels and motels ⁴	701	31.9	31.3	31.7	31.6	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.0	34.1	34.1	34.0	-	-	-	-	-	-
Beauty shops ⁴	723	29.5	29.5	29.4	29.3	-	-	-	-	-	-
Miscellaneous personal services	729	24.2	24.0	24.7	25.0	-	-	-	-	-	-
Business services	73	33.5	33.2	33.3	33.3	-	-	-	-	-	-
Advertising	731	36.7	36.4	36.8	36.5	-	-	-	-	-	-
Services to buildings	734	29.3	29.0	28.8	28.8	-	-	-	-	-	-
Personnel supply services:											
Help supply services	7363	31.1	30.6	30.8	31.2	-	-	-	-	-	-
Computer and data processing services	737	37.8	38.1	38.1	37.8	-	-	-	-	-	-
Miscellaneous business services	738	34.8	34.6	34.3	34.3	-	-	-	-	-	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^P	Sept. 1990 ^P	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^P	Sept. 1990 ^P
Retail trade—Continued											
Food stores	54	\$7.08	\$7.20	\$7.29	\$7.33	-	\$217.36	\$216.00	\$224.53	\$222.10	-
Grocery stores	541	7.17	7.29	7.38	7.41	-	221.55	220.16	228.78	226.01	-
Retail bakeries	546	6.02	6.13	6.31	6.34	-	178.79	177.77	185.51	185.76	-
Automotive dealers and service stations	55	8.65	8.78	9.05	9.03	-	315.73	317.84	331.23	330.50	-
New and used car dealers	551	10.78	10.97	11.37	11.28	-	399.94	405.89	424.10	421.87	-
Auto and home supply stores	553	7.58	7.64	7.78	7.77	-	294.10	291.85	301.86	300.70	-
Gasoline service stations	554	5.91	5.99	6.22	6.21	-	203.90	204.26	215.21	213.00	-
Automotive dealers, nec	559	10.70	10.56	10.77	10.84	-	387.34	374.88	382.34	373.98	-
Apparel and accessory stores	56	5.96	6.10	6.26	6.24	-	165.69	164.09	174.65	174.10	-
Men's and boys' clothing stores	561	7.31	7.46	7.76	7.55	-	211.99	209.63	228.92	220.46	-
Women's clothing stores	562	5.64	5.80	5.97	5.97	-	144.38	143.26	148.06	148.65	-
Family clothing stores	565	5.87	6.03	6.21	6.21	-	161.43	162.21	175.12	174.50	-
Shoe stores	566	5.97	6.11	6.11	6.10	-	179.70	178.41	191.24	192.15	-
Furniture and home furnishings stores	57	8.33	8.41	8.59	8.57	-	278.22	279.21	287.77	284.52	-
Furniture and home furnishings stores	571	8.20	8.30	8.44	8.45	-	277.16	278.88	286.12	283.08	-
Household appliance stores	572	8.52	8.77	8.90	8.81	-	284.57	286.78	302.60	296.90	-
Radio, television, and computer stores	573	8.51	8.49	8.77	8.72	-	279.13	277.62	285.90	282.53	-
Radio, television, and electronic stores	5731	8.59	8.59	8.78	8.82	-	279.18	278.32	284.47	284.00	-
Record and prerecorded tape stores	5735	5.02	4.85	5.25	5.36	-	139.56	132.89	144.90	144.72	-
Eating and drinking places ⁴	58	4.74	4.80	4.96	4.98	-	124.66	121.44	129.95	129.48	-
Miscellaneous retail establishments	59	6.77	6.88	7.11	7.11	-	204.45	204.34	214.72	214.72	-
Drug stores and proprietary stores	591	6.42	6.54	6.74	6.76	-	179.76	179.85	190.74	191.31	-
Miscellaneous shopping goods stores	594	6.35	6.45	6.65	6.67	-	186.69	183.18	195.51	194.10	-
Nonstore retailers	596	7.77	7.78	8.01	7.92	-	255.63	258.30	264.33	265.32	-
Fuel dealers	598	9.16	9.32	9.69	9.71	-	347.16	353.23	354.65	356.36	-
Retail stores, nec	599	6.98	7.07	7.49	7.47	-	222.66	224.12	235.94	236.05	-
Finance, insurance, and real estate⁵		9.47	9.60	10.00	9.94	\$10.09	339.03	341.76	362.00	354.86	\$365.26
Depository institutions	60	8.08	8.18	8.52	8.50	-	287.65	289.57	307.57	302.60	-
Commercial banks	602	7.79	7.89	8.12	8.11	-	276.55	277.73	293.13	287.91	-
Credit unions	606	7.80	7.83	8.13	8.05	-	280.02	280.31	294.31	289.00	-
Nondepository institutions	61	9.76	9.90	10.46	10.34	-	366.98	369.27	397.48	387.75	-
Personal credit institutions	614	8.82	8.85	9.31	9.17	-	331.63	336.30	353.78	347.54	-
Security and commodity brokers:											
Security and commodity services	628	13.12	13.22	13.16	13.17	-	492.00	498.39	494.82	492.56	-
Insurance carriers	63	10.67	10.75	11.18	11.18	-	395.86	398.83	421.49	417.01	-
Life insurance	631	9.95	9.98	10.36	10.35	-	369.15	369.26	384.36	380.88	-
Medical service and health insurance	632	10.27	10.43	10.85	10.74	-	386.15	391.13	417.73	414.56	-
Fire, marine, and casualty insurance	633	11.46	11.52	11.98	12.02	-	421.73	425.09	450.45	444.74	-
Services		9.30	9.49	9.79	9.77	9.99	305.04	308.43	323.07	320.46	326.67
Hotels and other lodging places:											
Hotels and motels ⁴	701	6.53	6.73	6.83	6.83	-	208.31	210.65	216.51	215.83	-
Personal services:											
Laundry, cleaning, and garment services	721	6.61	6.65	6.86	6.85	-	224.74	226.77	233.93	232.90	-
Beauty shops ⁴	723	7.01	6.98	7.21	7.20	-	206.80	205.91	211.97	210.96	-
Miscellaneous personal services	729	7.12	7.28	7.29	7.32	-	172.30	174.72	180.06	183.00	-
Business services	73	9.09	9.17	9.62	9.53	-	304.52	304.44	320.35	317.35	-
Advertising	731	13.00	13.12	13.67	13.36	-	477.10	477.57	503.06	487.64	-
Services to buildings	734	7.13	7.11	7.40	7.24	-	208.91	206.19	213.12	208.51	-
Personnel supply services:											
Help supply services	7363	7.70	7.72	8.12	8.05	-	239.47	236.23	250.10	251.16	-
Computer and data processing services	737	14.25	14.32	15.13	15.07	-	538.65	545.59	576.45	569.65	-
Miscellaneous business services	738	7.65	7.74	7.94	7.93	-	266.22	267.80	272.34	272.00	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average weekly hours					Average overtime hours				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Services—Continued											
Auto repair, services, and parking	75	37.3	36.7	37.2	37.3	-	-	-	-	-	-
Automotive repair shops	753	38.5	38.3	38.8	39.0	-	-	-	-	-	-
Miscellaneous repair services	76	38.1	37.8	38.3	38.1	-	-	-	-	-	-
Motion pictures	78	28.3	27.4	28.4	28.2	-	-	-	-	-	-
Motion picture production and services	781	34.6	34.8	35.6	35.1	-	-	-	-	-	-
Amusement and recreation services	79	29.1	27.1	28.7	28.5	-	-	-	-	-	-
Misc. amusement and recreation services	799	29.1	26.5	28.9	28.6	-	-	-	-	-	-
Health services	80	32.5	32.5	32.9	32.7	-	-	-	-	-	-
Offices and clinics of medical doctors	801	31.9	31.8	31.7	32.0	-	-	-	-	-	-
Offices and clinics of dentists	802	28.3	28.3	28.4	28.6	-	-	-	-	-	-
Nursing and personal care facilities	805	31.8	31.9	32.9	32.0	-	-	-	-	-	-
Hospitals	806	34.1	34.1	34.5	34.5	-	-	-	-	-	-
Home health care services	808	25.2	25.3	25.7	25.3	-	-	-	-	-	-
Legal services	81	34.9	34.8	35.3	34.9	-	-	-	-	-	-
Engineering and management services	87	37.1	37.3	37.4	37.3	-	-	-	-	-	-
Engineering and architectural services	871	38.9	39.0	39.1	39.3	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	872	36.1	36.7	36.9	36.8	-	-	-	-	-	-
Research and testing services	873	37.0	36.7	36.6	36.4	-	-	-	-	-	-
Management and public relations	874	35.5	35.6	35.8	35.5	-	-	-	-	-	-
Services, nec	89	38.1	37.3	37.4	37.0	-	-	-	-	-	-

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 nonfarm payrolls by detailed industry—Continued

Industry	1987 SIC Code	Average hourly earnings					Average weekly earnings				
		Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Services—Continued											
Auto repair, services, and parking	75	\$8.51	\$8.58	\$8.80	\$8.83	-	\$317.42	\$314.89	\$327.36	\$329.36	-
Automotive repair shops	753	9.39	9.43	9.64	9.68	-	361.52	361.17	374.03	377.52	-
Miscellaneous repair services	76	9.93	10.08	10.35	10.31	-	378.33	381.02	396.41	392.81	-
Motion pictures	78	9.91	10.42	10.25	10.87	-	280.45	285.51	291.10	306.53	-
Motion picture production and services	781	15.84	15.96	16.04	16.71	-	548.06	555.41	571.02	586.52	-
Amusement and recreation services	79	7.16	7.75	7.71	7.62	-	208.36	210.03	221.28	217.17	-
Misc. amusement and recreation services	799	6.50	7.04	6.96	6.93	-	189.15	186.56	201.14	198.20	-
Health services	80	9.87	9.99	10.40	10.46	-	320.78	324.68	342.16	342.04	-
Offices and clinics of medical doctors	801	9.79	9.98	10.54	10.66	-	312.30	317.36	334.12	341.12	-
Offices and clinics of dentists	802	9.39	9.50	10.16	10.21	-	265.74	268.85	288.54	292.01	-
Nursing and personal care facilities	805	6.82	6.90	7.26	7.26	-	216.88	220.11	238.85	232.32	-
Hospitals	806	11.28	11.40	11.77	11.83	-	384.65	388.74	406.07	408.14	-
Home health care services	808	7.90	8.00	8.83	8.81	-	199.08	202.40	226.93	222.89	-
Legal services	81	13.33	13.41	14.41	14.04	-	465.22	466.67	508.67	490.00	-
Engineering and management services	87	12.95	13.18	13.64	13.52	-	480.45	491.61	510.14	504.30	-
Engineering and architectural services	871	13.89	14.21	14.72	14.63	-	540.32	554.19	575.55	574.96	-
Accounting, auditing, and bookkeeping	872	11.74	11.84	12.34	12.16	-	423.81	434.53	455.35	447.49	-
Research and testing services	873	13.47	13.73	14.06	14.03	-	498.39	503.89	514.60	510.69	-
Management and public relations	874	11.97	12.20	12.56	12.37	-	424.94	434.32	449.65	439.14	-
Services, nec	89	12.65	13.03	13.86	13.56	-	481.97	486.02	518.36	501.72	-

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

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 the nonsupervisory count for all series in this division.

- Data not available.

^p = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 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 1989	Aug. 1989	July 1990	Aug. 1990 ^p	July 1989	Aug. 1989	July 1990	Aug. 1990 ^p
Average hourly earnings, excluding lump-sum payments	\$14.86	\$14.91	\$15.56	\$15.66	\$14.17	\$14.29	\$14.95	\$14.93
Average hourly earnings, including lump-sum payments	15.31	15.36	16.31	16.40	14.64	14.72	15.40	15.37

^p = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Manufacturing	\$9.99	\$10.06	\$10.41	\$10.33	\$10.41
Durable goods	10.50	10.59	10.90	10.84	10.95
Lumber and wood products	8.51	8.55	8.77	8.74	(?)
Furniture and fixtures	8.01	8.09	8.24	8.28	(?)
Stone, clay, and glass products	10.18	10.21	10.57	10.48	(?)
Primary metal industries	11.72	11.82	12.28	12.18	(?)
Fabricated metal products	10.09	10.18	10.40	10.36	(?)
Industrial machinery and equipment	10.85	10.90	11.27	11.28	(?)
Electronic and other electrical equipment	9.68	9.71	9.97	9.93	(?)
Transportation equipment	13.00	13.12	13.42	13.39	(?)
Instruments and related products	10.55	10.59	11.01	10.97	(?)
Miscellaneous manufacturing	7.94	8.07	8.37	8.31	(?)
Nondurable goods	9.29	9.35	9.76	9.65	\$9.70
Food and kindred products	8.79	8.80	9.14	8.97	(?)
Tobacco products	15.53	14.18	17.03	15.88	(?)
Textile mill products	7.31	7.37	7.67	7.67	(?)
Apparel and other textile products	6.17	6.24	6.46	6.49	(?)
Paper and allied products	11.36	11.37	11.72	11.64	(?)
Printing and publishing	10.49	10.59	10.85	10.83	(?)
Chemicals and allied products	12.47	12.54	12.92	12.90	(?)
Petroleum and coal products	14.25	14.44	15.21	15.01	(?)
Rubber and misc. plastics products	9.07	9.08	9.42	9.35	(?)
Leather and leather products	6.39	6.46	6.64	6.65	(?)

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 reflect the 1987

Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

C-4. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls by major industry, in current and constant (1982) dollars

Industry	Average hourly earnings					Average weekly earnings				
	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p	Aug. 1989	Sept. 1989	July 1990	Aug. 1990 ^p	Sept. 1990 ^p
Total private:										
Current dollars	\$9.61	\$9.77	\$10.00	\$10.00	\$10.17	\$335.39	\$339.02	\$349.00	\$348.00	\$353.92
Constant (1982) dollars	7.56	7.66	7.53	7.46	(²)	263.88	265.69	262.80	259.51	(²)
Mining:										
Current dollars	13.22	13.29	13.69	13.62	\$13.74	575.07	584.76	596.88	597.92	\$608.68
Constant (1982) dollars	10.40	10.42	10.31	10.16	(²)	452.45	458.28	449.46	445.88	(²)
Construction:										
Current dollars	13.51	13.65	13.70	13.74	\$13.95	525.54	526.89	524.71	535.86	\$545.45
Constant (1982) dollars	10.63	10.70	10.32	10.25	(²)	413.49	412.92	395.11	399.60	(²)
Manufacturing:										
Current dollars	10.46	10.56	10.88	10.82	\$10.94	427.81	435.07	440.64	441.46	\$450.73
Constant (1982) dollars	8.23	8.28	8.19	8.07	(²)	336.59	340.96	331.81	329.20	(²)
Transportation and public utilities:										
Current dollars	12.61	12.73	12.99	12.97	\$13.11	490.53	495.20	511.81	509.72	\$516.53
Constant (1982) dollars	9.92	9.98	9.78	9.67	(²)	385.94	388.09	385.40	380.10	(²)
Wholesale trade:										
Current dollars	10.36	10.48	10.82	10.77	\$10.92	393.68	399.29	414.41	410.34	\$417.14
Constant (1982) dollars	8.15	8.21	8.15	8.03	(²)	309.74	312.92	312.06	306.00	(²)
Retail trade:										
Current dollars	6.49	6.59	6.74	6.75	\$6.87	192.10	190.45	200.18	198.45	\$198.54
Constant (1982) dollars	5.11	5.16	5.08	5.03	(²)	151.14	149.26	150.74	147.99	(²)
Finance, insurance, and real estate:										
Current dollars	9.47	9.60	10.00	9.94	\$10.09	339.03	341.76	362.00	354.86	\$365.26
Constant (1982) dollars	7.45	7.52	7.53	7.41	(²)	266.74	267.84	272.59	264.62	(²)
Services:										
Current dollars	9.30	9.49	9.79	9.77	\$9.99	305.04	308.43	323.07	320.46	\$326.67
Constant (1982) dollars	7.32	7.44	7.37	7.29	(²)	240.00	241.72	243.28	238.97	(²)

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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1989 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

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

Industry	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	34.6	34.6	34.5	34.4	34.4	34.6	34.6	34.5	34.5	34.7	34.5	34.5	34.7
Mining	43.7	43.6	43.7	43.0	43.6	43.7	43.5	43.4	43.6	44.4	43.7	43.8	43.9
Construction	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Manufacturing	40.9	40.8	40.7	40.6	40.7	40.8	40.8	40.7	40.9	41.0	40.9	41.0	41.0
<i>Overtime hours</i>	3.8	3.7	3.7	3.7	3.6	3.6	3.7	3.5	3.8	3.8	3.7	3.8	3.7
Durable goods	41.5	41.3	41.2	41.2	41.3	41.3	41.4	41.2	41.5	41.6	41.5	41.6	41.6
<i>Overtime hours</i>	3.8	3.7	3.7	3.7	3.6	3.6	3.8	3.5	3.9	3.9	3.8	3.9	3.8
Lumber and wood products	40.1	40.3	40.2	40.0	40.4	40.1	40.4	40.2	40.4	40.3	40.2	40.4	40.7
Furniture and fixtures	39.5	39.2	39.4	39.1	39.6	39.3	39.2	39.0	39.2	39.3	39.6	39.4	38.9
Stone, clay, and glass products	42.2	42.4	42.4	41.6	42.3	42.2	42.0	42.0	42.1	42.3	41.7	42.3	42.1
Primary metal industries	42.6	42.5	42.5	42.5	42.6	42.5	42.7	41.8	43.0	43.0	43.1	43.0	43.0
Blast furnaces and basic steel products ..	43.1	42.8	43.0	42.9	43.1	42.9	43.0	42.9	43.5	43.3	44.1	43.5	43.8
Fabricated metal products	41.5	41.4	41.3	41.2	41.1	41.4	41.5	41.2	41.7	41.6	41.7	41.6	41.5
Industrial machinery and equipment	42.2	42.1	42.2	42.1	42.1	42.1	42.0	41.8	42.1	42.0	42.0	42.1	42.1
Electronic and other electrical equipment ..	41.0	41.0	40.8	40.5	40.9	41.1	41.0	40.9	40.9	41.0	40.7	40.5	40.9
Transportation equipment	42.7	41.3	41.0	41.7	41.5	41.6	42.0	41.9	42.5	42.6	42.8	42.7	42.7
Motor vehicles and equipment	43.0	42.7	42.3	42.2	41.0	41.5	42.3	41.8	43.4	43.7	43.6	43.8	43.5
Instruments and related products	40.9	41.0	41.0	41.0	40.9	41.0	41.1	41.2	41.1	41.2	41.2	41.3	41.4
Miscellaneous manufacturing	39.2	39.3	39.7	39.3	39.5	39.5	39.4	39.2	39.4	39.4	39.5	39.8	39.9
Nondurable goods	40.2	40.1	40.1	40.0	40.0	40.0	40.0	40.0	40.1	40.3	40.1	40.2	40.1
<i>Overtime hours</i>	3.7	3.6	3.6	3.6	3.5	3.5	3.6	3.4	3.6	3.6	3.6	3.7	3.6
Food and kindred products	40.9	40.8	40.8	40.7	40.6	40.6	40.7	40.6	40.8	40.9	40.5	40.9	41.1
Tobacco products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	40.6	40.6	40.4	40.2	40.3	40.2	40.0	40.0	40.2	40.4	40.2	39.9	39.7
Apparel and other textile products	36.8	36.9	36.8	36.4	36.6	36.6	36.3	36.4	36.6	36.7	36.6	36.6	36.7
Paper and allied products	43.2	43.3	43.4	43.2	43.2	43.1	43.2	43.3	43.3	43.5	43.5	43.5	42.9
Printing and publishing	38.0	37.8	37.9	37.7	37.9	37.9	38.0	37.8	37.9	38.0	38.0	38.2	38.0
Chemicals and allied products	42.5	42.5	42.4	42.6	42.7	42.4	42.5	42.6	42.6	42.6	42.4	42.5	42.7
Petroleum and coal products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Rubber and misc. plastics products	41.1	41.1	41.1	40.9	40.8	41.2	41.4	40.9	41.4	41.6	41.5	41.3	41.3
Leather and leather products	38.2	37.7	37.6	37.4	37.4	37.7	37.7	37.5	37.4	37.5	37.4	37.7	37.4
Transportation and public utilities	38.8	38.8	38.6	38.6	38.3	38.7	39.0	39.0	39.1	39.2	39.0	39.0	39.3
Wholesale trade	38.1	38.1	38.1	38.1	38.0	38.0	38.1	38.1	38.0	38.1	38.1	38.1	38.1
Retail trade	28.9	28.9	28.8	28.8	28.8	28.9	29.0	29.0	29.0	29.0	28.9	28.7	28.9
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.6	32.7	32.6	32.6	32.5	32.6	32.5	32.6	32.5	32.6	32.6	32.5	32.8

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

² 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 reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

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

(1982 = 100)

Industry	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Total private	123.2	123.4	123.5	123.3	123.6	124.4	124.4	124.2	124.6	125.3	124.8	124.5	125.2
Goods-producing	111.9	111.6	111.6	110.4	111.1	112.1	111.5	110.1	111.2	111.7	110.5	110.5	110.2
Mining	62.9	63.1	63.8	63.0	64.4	64.9	64.9	65.2	65.9	68.0	66.9	66.0	66.4
Construction	140.6	141.7	143.0	138.1	144.9	147.7	144.6	138.6	142.1	144.3	138.4	139.8	139.9
Manufacturing	109.0	108.3	108.0	107.6	106.8	107.6	107.5	107.0	107.5	107.6	107.4	107.1	106.6
Durable goods	108.9	107.9	107.4	107.1	105.9	107.2	107.3	106.5	107.3	107.1	107.1	106.5	105.9
Lumber and wood products	131.5	132.6	132.1	131.4	133.0	131.5	132.5	131.7	131.9	130.5	129.7	129.7	130.5
Furniture and fixtures	129.5	127.9	128.2	126.6	128.2	127.0	126.6	125.4	125.7	126.0	125.8	125.7	122.9
Stone, clay, and glass products	112.3	113.3	113.6	111.2	113.3	113.3	111.7	110.7	110.5	110.5	108.2	109.5	108.2
Primary metal industries	94.3	93.6	93.1	92.8	92.4	92.6	92.7	90.9	93.5	93.5	94.3	93.4	92.9
Blast furnaces and basic steel products	82.8	81.4	81.0	81.1	81.4	80.3	79.3	79.1	81.2	80.4	82.3	80.8	81.0
Fabricated metal products	109.6	108.9	108.3	107.7	106.1	107.4	107.7	107.2	108.3	107.8	108.5	108.1	107.4
Industrial machinery and equipment	100.0	99.2	99.8	99.5	99.7	99.4	98.8	98.2	98.9	98.4	98.5	97.9	96.9
Electronic and other electrical equipment	112.2	111.9	110.8	109.4	110.1	110.3	110.2	109.7	109.5	109.6	108.3	107.1	107.4
Transportation equipment	125.1	120.2	118.4	120.7	110.9	119.8	121.1	120.2	121.8	123.3	124.1	122.6	121.3
Motor vehicles and equipment	136.0	132.3	128.6	128.7	105.2	125.5	128.3	123.4	131.2	133.7	133.2	131.5	128.9
Instruments and related products	88.5	88.5	88.0	87.5	87.9	88.2	88.4	88.4	87.7	87.2	86.8	86.5	86.7
Miscellaneous manufacturing	104.0	104.3	104.6	104.3	105.9	105.6	104.6	102.9	104.2	102.7	104.5	104.1	104.8
Nondurable goods	109.2	109.0	108.8	108.3	108.2	108.0	107.8	107.6	107.9	108.2	107.7	107.9	107.7
Food and kindred products	109.1	108.9	108.8	108.4	108.4	108.3	108.5	108.7	109.2	108.7	107.9	109.3	110.0
Tobacco products	69.3	68.8	68.3	65.8	66.9	67.6	68.1	64.7	65.8	64.3	66.6	66.5	63.1
Textile mill products	104.9	104.9	103.9	103.1	103.0	102.2	101.2	101.2	100.9	101.2	100.6	99.8	98.8
Apparel and other textile products	97.5	97.3	96.8	95.5	95.2	94.4	92.7	92.9	92.9	93.0	92.4	92.3	92.4
Paper and allied products	109.9	110.2	110.5	110.2	110.4	110.3	110.4	110.8	110.4	111.4	111.6	111.8	110.4
Printing and publishing	127.1	126.4	127.2	127.0	128.0	128.1	128.4	127.6	128.1	128.6	129.0	129.7	128.7
Chemicals and allied products	104.9	105.0	104.8	105.3	105.4	104.4	104.3	104.6	104.6	104.4	104.3	103.8	104.7
Petroleum and coal products	86.5	87.5	88.4	87.9	86.9	88.4	89.2	88.0	88.0	93.0	88.3	88.0	88.1
Rubber and misc. plastics products	127.5	126.9	126.4	125.4	124.3	125.0	125.6	124.6	126.0	127.3	127.2	126.6	126.0
Leather and leather products	65.7	64.3	64.1	62.6	62.6	63.1	63.1	62.2	61.5	61.1	59.8	59.1	58.0
Service-producing	128.2	128.8	128.8	129.1	129.3	129.9	130.2	130.5	130.6	131.4	131.2	130.8	131.9
Transportation and public utilities	111.5	112.0	111.8	113.4	112.9	114.2	115.3	115.2	116.0	116.7	115.8	115.3	116.9
Wholesale trade	118.4	118.7	119.0	119.1	119.2	119.1	119.4	119.3	118.9	119.8	119.5	119.5	119.3
Retail trade	123.8	123.9	123.8	123.8	124.4	124.4	124.9	125.0	125.1	125.3	125.1	124.0	124.8
Finance, insurance, and real estate	120.7	121.8	121.1	121.0	121.4	122.2	122.3	122.6	122.5	122.9	123.1	122.8	124.4
Services	141.4	142.1	142.4	142.8	142.8	143.8	143.9	144.4	144.6	145.8	145.9	146.0	147.4

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.

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

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

Industry	1989				1990								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Average hourly earnings													
Total private (in current dollars)	\$9.73	\$9.78	\$9.78	\$9.83	\$9.82	\$9.88	\$9.93	\$9.96	\$9.98	\$10.03	\$10.07	\$10.08	\$10.14
Mining	13.31	13.32	13.32	13.40	13.33	13.33	13.51	13.59	13.58	13.73	13.79	13.72	13.75
Construction	13.56	13.61	13.66	13.76	13.55	13.63	13.66	13.62	13.71	13.73	13.76	13.78	13.85
Manufacturing	10.55	10.57	10.58	10.62	10.57	10.67	10.73	10.75	10.81	10.86	10.89	10.90	10.93
Excluding overtime ²	10.09	10.10	10.12	10.17	10.13	10.22	10.28	10.34	10.35	10.38	10.40	10.40	10.43
Transportation and public utilities	12.68	12.71	12.65	12.73	12.78	12.83	12.87	12.96	12.88	12.92	13.02	13.01	13.06
Wholesale trade	10.48	10.54	10.55	10.60	10.57	10.62	10.67	10.74	10.74	10.80	10.84	10.84	10.92
Retail trade	6.57	6.60	6.61	6.64	6.68	6.69	6.73	6.74	6.76	6.78	6.79	6.82	6.85
Finance, insurance, and real estate	9.65	9.72	9.66	9.75	9.73	9.77	9.82	9.88	9.87	9.98	10.08	10.04	10.14
Services	9.49	9.55	9.55	9.61	9.63	9.67	9.72	9.79	9.80	9.85	9.92	9.92	9.99
Total private (in constant dollars) ³	7.64	7.65	7.62	7.63	7.54	7.55	7.56	7.57	7.58	7.58	7.58	7.53	(*)
Average weekly earnings													
Total private:													
In current dollars	336.66	338.39	337.41	338.15	337.81	341.85	343.58	343.62	344.31	348.04	347.42	347.76	351.86
In constant (1982) dollars ³	264.25	264.57	262.99	262.54	259.45	261.35	261.48	261.31	261.63	262.87	261.61	259.72	(*)

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

² Derived by assuming that overtime hours are paid at the rate of time and one-half.

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

⁴ Not available.

^P = preliminary.

NOTE: Establishment survey estimates reflect the 1987 Standard Industrial Classification (SIC) system and are currently projected from March 1989 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1986 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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Alabama	41.2	40.5	41.4	\$9.02	\$9.51	\$9.48	\$371.62	\$385.16	\$392.47
Birmingham	41.1	41.2	41.2	9.51	9.76	9.68	390.86	402.11	398.82
Mobile	41.8	41.4	38.4	10.92	11.40	11.84	456.46	471.96	454.66
Alaska	53.2	51.2	55.5	11.30	11.07	11.51	601.16	566.78	638.81
Arizona	40.9	40.4	40.2	9.99	10.31	10.33	408.59	416.52	415.27
Arkansas	41.2	40.6	41.2	8.28	8.58	8.57	341.14	348.35	353.08
Fayetteville-Springdale	40.9	41.0	40.9	7.40	7.66	7.69	302.66	314.06	314.52
Fort Smith	39.1	40.1	40.1	8.74	8.75	8.88	341.73	350.88	356.09
Little Rock-North Little Rock	42.5	41.8	42.4	8.91	9.16	9.15	378.68	382.89	387.96
Pine Bluff	43.4	44.8	44.7	10.26	10.76	10.61	445.28	482.05	474.27
California	40.7	40.3	40.6	11.21	11.54	11.51	456.25	465.06	467.31
Anaheim-Santa Ana	41.3	40.1	40.5	11.49	11.73	11.90	474.54	470.37	481.95
Bakersfield	40.0	40.6	39.7	12.12	12.12	12.09	484.80	492.07	479.97
Fresno	39.7	41.1	40.8	9.19	9.21	9.28	364.84	378.53	378.62
Los Angeles-Long Beach	40.7	40.1	40.4	10.71	10.89	10.96	435.90	436.69	442.78
Modesto	42.7	37.1	40.2	10.18	10.77	10.58	434.69	399.57	425.32
Oakland	41.6	40.8	41.1	13.34	13.54	13.63	554.94	552.43	560.19
Oxnard-Ventura	40.5	40.4	39.9	10.74	11.03	11.01	434.97	445.61	439.30
Riverside-San Bernardino	39.9	40.1	39.7	10.00	10.46	10.62	399.00	419.45	421.61
Sacramento	40.6	40.2	41.4	11.59	11.99	11.96	470.55	482.00	495.14
San Diego	40.5	40.7	40.5	11.21	11.73	11.69	454.01	477.41	473.45
San Francisco	37.7	39.7	39.5	13.15	13.09	13.13	495.76	519.67	518.64
San Jose	40.3	40.6	41.2	13.20	13.54	13.43	531.96	549.72	553.32
Santa Barbara-Santa Maria-Lompoc	39.1	40.3	40.4	11.33	11.83	11.88	443.00	476.75	479.95
Santa Rosa-Petaluma	37.5	39.3	39.4	10.79	11.32	11.35	404.63	444.88	447.19
Stockton	43.5	42.5	42.3	10.98	11.25	11.15	477.63	478.13	471.65
Vallejo-Fairfield-Napa	42.6	40.6	41.2	12.95	13.07	12.94	551.67	530.64	533.13
Colorado	40.2	41.1	41.3	10.39	11.10	11.15	417.68	456.21	460.50
Denver	39.9	39.8	40.9	11.56	12.62	12.59	461.24	502.28	514.93
Connecticut	41.5	42.2	42.2	11.20	11.54	11.46	464.80	486.99	483.61
Bridgeport-Milford	40.0	41.9	40.6	11.67	12.40	12.02	466.80	519.56	488.01
Hartford	41.4	42.2	41.8	11.76	12.47	12.47	486.86	526.23	521.25
New Britain	42.0	42.0	42.3	12.01	12.40	12.35	504.42	520.80	522.41
New Haven-Meriden	40.5	41.5	41.2	10.88	11.10	11.13	440.64	460.65	458.56
Stamford	42.5	40.9	40.0	11.45	12.30	12.46	486.63	503.07	498.40
Waterbury	41.8	39.4	42.2	10.06	10.91	10.39	420.51	429.85	438.46
Delaware	41.1	41.6	40.3	12.30	12.73	12.52	505.53	529.57	504.56
Wilmington	41.4	43.5	42.0	15.13	15.96	15.35	626.38	694.26	644.70
District of Columbia:									
Washington MSA	39.3	39.4	39.1	11.91	12.58	12.64	468.06	495.65	494.22
Florida	40.5	40.1	40.4	8.69	9.02	9.06	351.95	361.70	366.02
Fort Lauderdale-Hollywood-Pompano Beach	41.2	40.4	41.0	8.62	9.07	9.01	355.14	366.43	369.41
Jacksonville	42.0	40.5	39.9	9.21	9.60	9.71	386.82	388.80	387.43
Miami-Hialeah	39.2	39.0	38.7	7.29	7.56	7.71	285.77	294.84	298.38
Oriando	39.9	40.4	40.6	10.11	10.32	10.40	403.39	416.93	422.24
Pensacola	42.4	44.1	44.0	11.04	11.61	11.48	468.10	512.00	505.12
Tampa-St. Petersburg-Clearwater	40.4	40.3	40.9	8.86	9.44	9.34	357.94	380.43	382.01
West Palm Beach-Boca Raton-Delray Beach	41.1	38.9	39.5	9.37	9.45	9.63	385.11	367.61	380.39
Georgia	41.3	41.2	41.2	8.82	9.17	9.22	364.27	377.80	379.86
Atlanta	40.8	41.8	41.6	10.06	10.56	10.57	410.45	441.41	439.71
Savannah	44.6	49.2	46.6	11.51	11.50	11.38	513.35	565.80	530.31
Hawaii	40.4	40.1	42.0	10.35	11.16	10.90	418.14	447.52	457.80
Honolulu	40.2	40.4	40.8	10.43	11.34	11.21	419.29	458.14	457.37
Idaho	39.4	39.9	40.0	10.19	10.81	10.37	401.49	431.32	414.80

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. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
Illinois	41.8	41.5	41.5	\$11.24	\$11.43	\$11.45	\$469.83	\$474.35	\$475.18
Aurora-Elgin	40.2	40.7	40.8	10.69	10.96	10.89	429.74	446.07	444.31
Bloomington-Normal	43.3	42.4	42.7	12.19	13.01	12.99	527.83	551.62	554.67
Champaign-Urbana-Rantoul	39.5	40.1	41.9	9.84	9.61	9.86	388.68	385.36	413.13
Chicago	42.0	41.1	41.1	10.91	11.21	11.18	458.22	460.73	459.50
Davenport-Rock Island-Moline	41.1	41.2	40.0	12.94	13.26	13.34	531.83	546.31	533.60
Decatur	45.4	41.4	43.3	14.39	14.83	15.04	653.31	613.96	651.23
Joliet	40.1	42.8	42.7	12.50	13.08	13.16	501.25	559.82	561.93
Kankakee	40.4	42.2	41.3	11.96	11.98	11.95	483.18	505.56	493.54
Lake County	39.3	39.4	39.9	11.57	11.52	11.55	454.70	453.89	460.85
Peoria	42.1	42.6	42.5	13.42	14.03	14.19	564.98	597.68	603.08
Rockford	41.6	41.9	42.1	12.07	12.12	12.53	502.11	507.83	527.51
Springfield	39.1	37.4	37.7	10.29	10.53	10.69	402.34	393.82	403.01
Indiana	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Iowa	40.0	40.1	39.8	10.80	11.35	11.19	432.00	455.14	445.36
Cedar Rapids	38.7	39.5	38.7	12.68	14.02	13.92	490.72	553.79	538.70
Des Moines	40.7	39.6	40.1	11.80	12.52	12.30	480.26	495.79	493.23
Dubuque	38.3	41.2	40.9	9.81	12.24	10.66	375.72	504.29	435.99
Sioux City	42.3	39.1	41.8	8.47	9.00	8.97	358.28	351.90	374.95
Kansas	40.9	40.2	40.7	10.71	10.89	10.86	438.04	437.78	442.00
Topeka	41.7	39.0	40.5	12.21	12.45	12.31	509.16	485.55	498.56
Wichita	41.2	39.8	40.5	11.56	11.98	12.02	476.27	476.80	486.81
Kentucky	39.9	39.9	39.5	10.40	10.77	10.67	414.96	429.72	421.47
Lexington-Fayette	40.6	40.2	40.8	10.70	11.14	11.31	434.42	447.83	461.45
Louisville	40.6	41.8	38.9	11.84	12.35	12.24	480.70	516.23	476.14
Louisiana	42.8	42.7	42.9	11.02	11.83	11.57	471.66	505.14	496.35
Baton Rouge	44.7	43.4	43.7	13.12	13.65	13.39	586.46	592.41	585.14
New Orleans	41.6	40.5	42.2	10.64	11.39	11.20	442.62	461.30	472.64
Shreveport	40.5	43.5	39.2	10.80	12.01	11.23	437.40	522.44	440.22
Maine	40.1	39.1	39.9	9.91	10.66	10.43	397.39	416.81	416.16
Lewiston-Auburn	39.5	39.1	39.5	8.20	9.34	9.30	323.90	365.19	367.35
Portland	38.1	36.0	37.0	10.92	10.85	10.72	416.05	390.60	396.64
Maryland	41.1	41.0	40.9	11.17	11.71	11.68	459.09	480.11	477.71
Baltimore MSA	41.5	41.5	41.3	11.61	12.22	12.13	481.82	507.13	500.97
Massachusetts	40.6	40.5	40.3	10.91	11.35	11.30	442.95	459.68	455.39
Boston	40.7	40.6	40.7	11.56	12.09	12.10	470.49	490.85	492.47
Springfield	41.5	41.3	41.4	10.42	10.85	10.73	432.43	448.11	444.22
Worcester	40.6	41.3	41.4	10.77	10.98	11.08	437.26	453.47	458.71
Michigan	41.9	41.3	42.2	13.36	13.80	13.79	559.78	569.94	581.94
Ann Arbor	43.6	42.2	44.2	14.31	15.04	15.95	623.92	634.69	704.99
Battle Creek	42.1	42.0	41.3	14.39	15.07	15.01	605.82	632.94	619.91
Detroit	42.7	41.4	43.6	14.50	14.82	14.96	619.15	613.55	652.26
Flint	41.6	42.9	39.6	16.92	17.66	17.34	703.87	757.61	686.66
Grand Rapids	41.1	41.0	40.9	11.56	11.74	11.57	475.12	481.34	473.21
Jackson	41.9	39.3	42.1	10.67	11.15	10.77	447.07	438.19	453.42
Kalamazoo	41.9	40.7	41.4	13.01	13.94	13.62	545.12	567.36	563.87
Lansing-East Lansing	37.8	40.3	41.3	14.33	15.75	15.54	541.67	634.72	641.80
Muskegon	40.1	40.0	40.2	12.30	12.62	12.59	493.23	504.80	506.12
Saginaw-Bay City-Midland	42.0	43.2	42.8	15.15	15.96	15.90	636.30	689.47	680.52
Minnesota	40.6	40.1	40.6	10.85	11.19	11.17	440.51	448.72	453.50
Duluth	38.4	40.5	42.2	11.76	11.48	11.27	451.58	464.94	475.59
Minneapolis-St. Paul	40.5	39.7	40.3	11.59	11.87	11.87	469.40	471.24	478.36
St. Cloud	38.6	40.5	41.4	10.02	10.07	10.13	386.77	407.84	419.38
Mississippi	40.1	39.0	39.8	7.96	8.37	8.37	319.20	326.43	333.13
Jackson	39.7	39.8	39.5	8.95	9.37	9.28	355.32	372.93	366.56

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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Missouri	40.7	40.5	40.8	\$10.50	\$10.79	\$10.79	\$427.35	\$437.00	\$440.23
Kansas City	41.3	40.2	40.9	11.55	11.69	11.59	477.02	469.94	474.03
St. Louis	41.6	42.2	41.6	12.47	12.89	12.84	518.75	543.96	534.14
Springfield	40.9	41.4	41.1	9.08	9.28	9.18	371.37	384.19	377.30
Montana	38.5	38.7	39.0	11.16	11.57	11.32	429.66	447.76	441.48
Nebraska	41.4	40.6	41.1	9.54	9.74	9.59	394.96	395.44	394.15
Lincoln	40.0	39.7	41.3	10.78	11.15	11.23	431.20	442.66	463.80
Omaha	41.8	40.7	41.1	10.29	10.41	10.29	430.12	423.69	422.92
Nevada	40.8	40.9	40.3	10.29	11.11	11.30	419.83	454.40	455.39
Las Vegas	42.6	42.5	41.4	12.60	13.04	13.47	536.76	554.20	557.66
New Hampshire	41.1	40.2	40.9	10.34	11.00	10.72	424.97	442.20	438.45
Manchester	40.8	42.9	41.2	10.66	11.58	10.50	434.93	496.78	432.60
Nashua	40.1	40.7	40.1	12.67	13.74	13.70	508.07	559.22	549.37
Portsmouth-Dover-Rochester	42.0	39.5	41.9	9.48	10.24	10.05	398.16	404.48	421.10
New Jersey	40.4	40.6	40.6	11.13	11.69	11.66	449.65	474.61	473.40
New Mexico	39.3	40.1	39.0	8.48	8.99	8.81	333.26	360.50	343.59
Albuquerque	40.1	40.0	39.7	8.62	9.31	9.22	345.66	372.40	366.03
New York	39.7	39.3	39.4	10.67	11.21	11.07	423.60	440.55	436.16
Albany-Schenectady-Troy	40.4	40.5	40.8	11.41	11.89	11.88	460.96	481.55	484.70
Binghamton	41.2	39.7	39.9	9.47	9.90	9.90	390.16	393.03	395.01
Buffalo	41.4	40.7	41.1	12.94	13.62	13.55	535.72	554.33	556.91
Elmira	40.2	39.8	39.8	9.37	9.81	10.04	376.67	390.44	399.59
Glens Falls	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Nassau-Suffolk	39.7	38.9	39.3	11.58	11.84	11.68	459.73	460.58	459.02
New York PMSA	37.3	37.1	37.0	9.91	10.49	10.28	369.64	389.18	380.36
New York City	36.9	36.7	36.8	9.77	10.29	10.22	360.51	377.64	376.10
Niagara Falls	40.2	40.2	40.1	13.82	14.36	14.26	555.56	577.27	571.83
Orange County	39.8	40.0	40.1	9.24	9.40	9.47	367.75	376.00	379.75
Poughkeepsie	39.6	40.4	40.7	10.86	10.77	10.64	430.06	435.11	433.05
Rochester	42.0	41.5	41.7	12.23	12.93	12.92	513.66	536.60	538.78
Rockland County	37.7	40.1	40.3	8.24	9.67	9.17	310.65	387.77	369.55
Syracuse	40.5	40.4	40.3	12.22	12.19	12.29	494.91	492.48	495.29
Utica-Rome	40.2	40.2	39.8	10.03	10.48	10.26	403.21	421.30	408.35
Westchester County	41.2	38.6	38.3	11.64	12.36	11.24	479.57	477.10	430.49
North Carolina	40.4	39.5	40.1	8.44	8.79	8.81	340.98	347.21	353.28
Asheville	40.6	41.0	41.3	8.41	8.80	8.76	341.45	360.80	361.79
Charlotte-Gastonia-Rock Hill	40.8	39.4	39.8	8.98	9.36	9.37	366.38	368.78	372.93
Greensboro-Winston-Salem-High Point	39.5	38.5	39.0	9.17	9.37	9.37	362.22	360.75	365.43
Raleigh-Durham	41.1	42.2	41.9	9.55	10.07	10.12	392.51	424.95	424.03
North Dakota	39.9	39.4	39.5	8.82	8.94	8.91	351.92	352.24	351.95
Fargo-Moorhead	38.8	39.7	39.1	9.35	8.99	8.89	362.78	356.90	347.60
Ohio	42.1	42.2	42.6	12.22	12.61	12.69	514.46	532.14	540.59
Akron	42.6	42.6	43.3	11.53	11.97	12.17	491.18	509.92	526.96
Canton	41.3	42.3	42.5	11.24	11.47	11.50	464.21	485.18	488.75
Cincinnati	43.1	43.0	43.7	11.68	12.02	12.18	503.41	516.86	532.27
Cleveland	42.3	42.4	43.0	11.69	12.14	12.18	494.49	514.74	523.74
Columbus	41.4	42.1	41.7	11.99	12.45	12.36	496.39	524.15	515.41
Dayton-Springfield	41.8	42.2	42.5	12.72	13.52	13.56	531.70	570.54	576.30
Toledo	43.4	42.8	42.9	13.27	13.46	13.58	575.92	576.09	582.58
Youngstown-Warren	42.0	42.1	42.0	14.05	14.36	14.50	590.10	604.56	609.00
Oklahoma	41.7	39.8	40.6	10.37	10.61	10.77	432.43	422.28	437.26
Oklahoma City	43.2	40.3	41.7	11.30	11.31	10.97	488.16	455.79	457.45
Tulsa	41.9	40.9	41.5	10.21	11.44	11.31	427.80	467.90	469.37
Oregon	39.7	38.6	39.4	10.56	11.18	10.96	419.23	431.55	431.82
Eugene-Springfield	39.7	37.0	38.5	10.67	10.94	10.82	423.60	404.78	416.57
Portland	39.4	39.6	39.4	10.88	11.39	11.40	428.67	451.04	449.16
Salem	41.0	36.3	39.8	8.28	9.33	8.50	339.48	338.68	338.30

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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Pennsylvania	40.9	40.7	40.6	\$10.63	\$11.05	\$11.03	\$434.77	\$449.74	\$447.82
Allentown-Bethlehem	40.0	39.4	39.9	10.66	11.09	11.07	426.40	436.95	441.69
Altoona	39.4	40.0	39.5	9.26	9.61	9.60	364.84	384.40	379.20
Beaver County	43.3	44.7	42.9	10.66	10.94	11.14	461.58	489.02	477.91
Erie	42.6	44.0	42.6	11.33	11.83	11.74	482.66	520.52	500.12
Harrisburg-Lebanon-Carlisle	41.0	40.9	40.6	10.72	11.29	11.30	439.52	461.76	458.78
Johnstown	39.1	37.8	38.1	8.10	8.39	8.46	316.71	317.14	322.33
Lancaster	40.8	39.9	40.3	10.60	10.88	11.02	432.48	438.10	444.11
Philadelphia PMSA	40.4	40.4	39.8	11.66	12.10	12.08	471.06	488.84	480.78
Pittsburgh	41.8	42.2	41.7	11.17	11.40	11.35	466.91	481.08	473.30
Reading	41.5	40.8	41.4	11.08	11.53	11.42	459.82	470.42	472.79
Scranton-Wilkes-Barre	39.1	40.0	39.9	9.27	9.70	9.70	362.46	388.00	387.03
Sharon	41.6	42.4	42.7	11.79	11.88	11.94	490.46	503.71	509.84
State College	39.5	40.5	40.7	9.35	9.74	9.85	369.33	394.47	400.90
Williamsport	39.8	39.4	40.8	9.48	9.59	9.20	377.30	377.85	375.36
York	42.1	41.3	41.2	10.29	10.54	10.67	433.21	435.30	439.60
Rhode Island	38.6	39.2	38.8	9.09	9.52	9.41	350.87	373.18	365.11
Pawtucket-Woonsocket-Attleboro	40.2	38.2	38.4	8.49	9.10	8.97	341.30	347.62	344.45
Providence	38.8	38.5	37.9	8.62	9.17	9.20	334.46	353.05	348.68
South Carolina	41.2	40.4	40.6	8.55	8.89	8.92	352.26	359.16	362.15
Charleston	39.8	39.7	40.2	9.34	9.47	9.53	371.73	375.96	383.11
Columbia	41.3	42.0	42.3	8.72	9.12	9.15	360.14	383.04	387.04
Greenville-Spartanburg	41.2	41.2	41.5	8.38	8.80	8.84	345.26	362.56	366.86
South Dakota	41.2	40.7	40.8	8.23	8.32	8.33	339.08	338.62	339.86
Sioux Falls	46.4	42.4	40.0	8.28	8.70	8.76	384.19	368.88	350.40
Tennessee	41.1	39.3	39.4	9.16	9.63	9.54	376.48	378.46	375.88
Chattanooga	40.6	40.4	40.2	8.45	8.85	8.69	343.07	357.54	349.34
Johnson City-Kingsport-Bristol	42.4	44.8	38.7	9.64	9.83	9.81	408.74	440.38	379.65
Knoxville	39.4	37.1	37.9	9.36	9.13	9.25	368.78	338.72	350.58
Memphis	40.5	39.8	40.2	9.30	9.67	9.69	376.65	384.87	389.54
Nashville	41.9	41.7	42.6	10.16	11.51	11.34	425.70	479.97	483.08
Texas	41.7	41.3	41.8	10.26	10.59	10.55	427.84	437.37	440.99
Dallas	42.5	41.5	42.3	10.44	10.53	10.67	443.70	437.00	451.34
Ft. Worth-Arlington	41.0	40.3	41.2	10.99	11.28	11.36	450.59	454.58	468.03
Houston	43.5	43.9	44.4	11.73	12.17	11.98	510.26	534.26	531.91
San Antonio	40.3	40.4	39.9	7.51	7.87	7.85	302.65	317.95	313.22
Utah	40.2	39.7	39.8	10.16	10.37	10.41	408.43	411.69	414.32
Salt Lake City-Ogden	40.6	39.9	39.8	9.92	10.40	10.45	402.75	414.96	415.91
Vermont	41.3	39.3	41.2	9.81	10.46	10.47	405.15	411.08	431.36
Burlington	43.0	39.9	41.3	9.69	11.05	10.94	416.67	440.90	451.82
Virginia	40.8	40.3	40.2	9.71	10.16	10.12	396.17	409.45	406.82
Bristol	40.0	39.7	37.5	7.88	8.56	8.43	315.20	339.83	316.13
Charlottesville	42.8	39.8	41.7	8.38	8.92	8.91	358.66	355.02	371.55
Danville	41.3	41.0	39.9	9.56	9.88	8.91	394.83	405.08	355.51
Lynchburg	41.4	43.3	42.2	9.46	10.09	10.06	391.64	436.90	424.53
Northern Virginia	39.9	40.3	40.3	10.71	11.16	11.26	427.33	449.75	453.78
Richmond-Petersburg	41.8	42.8	43.4	12.54	13.41	13.46	524.17	573.95	584.16
Roanoke	40.5	40.6	41.5	11.48	11.85	11.51	464.94	481.11	477.67
Washington	40.3	39.9	40.0	12.22	12.91	12.69	492.47	515.11	507.60
West Virginia	40.3	40.2	40.7	11.09	11.72	11.58	446.93	471.14	471.31
Charleston	42.7	44.5	44.0	13.19	13.64	13.54	563.21	606.98	595.76
Huntington-Ashland	40.9	40.7	41.6	12.86	13.51	13.33	525.97	549.86	554.53
Parkersburg-Marietta	42.1	41.4	40.9	12.99	13.27	13.24	546.88	549.38	541.52
Wheeling	41.8	41.1	41.7	13.36	13.44	13.51	558.45	552.38	563.37

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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Wisconsin	41.4	41.2	41.5	\$10.64	\$11.09	\$10.97	\$440.50	\$456.91	\$455.26
Appleton-Oshkosh	42.7	43.3	43.3	11.61	11.91	11.94	495.75	515.70	517.00
Eau Claire	43.9	45.4	43.5	11.14	11.51	11.75	489.05	522.55	511.13
Green Bay	41.0	40.0	42.5	10.97	12.72	11.49	449.77	508.80	488.33
Janesville-Beloit	39.0	36.0	36.1	12.73	11.85	11.82	496.47	426.60	426.70
Kenosha	42.5	41.8	41.6	11.61	11.04	12.25	493.43	461.47	509.60
La Crosse	40.2	41.2	40.6	9.46	9.77	9.84	380.29	402.52	399.50
Madison	41.3	41.3	41.7	10.02	10.35	10.19	413.83	427.46	424.92
Milwaukee	41.3	41.6	41.3	11.59	11.91	11.93	478.67	495.46	492.71
Racine	40.9	39.2	39.8	10.96	11.08	11.57	448.26	434.34	460.49
Sheboygan	42.9	42.0	43.2	10.54	10.71	10.66	452.17	449.82	460.51
Wausau	42.4	43.0	43.0	10.36	10.87	10.98	439.26	467.41	472.14
Wyoming	39.1	39.7	41.5	10.79	11.12	10.83	421.89	441.46	449.45
Puerto Rico	39.3	39.6	39.1	5.77	6.02	6.08	226.76	238.39	237.73
Virgin Islands	41.6	42.6	42.0	10.73	11.91	12.31	446.37	507.37	517.02

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 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**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 1990 ^r	Aug. 1990 ^r	Sept. 1990 ^p	Sept. 1989 to Sept. 1990 ^p	July 1990 to Aug. 1990 ^r	Aug. 1990 to Sept. 1990 ^p
Total	205,550	204,856	205,745	1.9	-0.3	0.4
Private sector	168,225	167,899	168,823	1.8	-2	.6
Mining	1,693	1,676	1,685	4.6	-1.0	.5
Construction	10,220	10,307	10,438	.8	.8	1.3
Manufacturing	40,693	40,657	40,486	-1.8	-.1	-.4
Durable goods	24,043	23,976	23,851	-2.5	-.3	-.5
Nondurable goods	16,650	16,681	16,635	-.9	.2	-.3
Transportation and public utilities	11,846	11,854	11,973	4.9	.1	1.0
Wholesale trade	12,628	12,630	12,628	1.1	.0	.0
Retail trade	29,832	29,606	29,798	1.0	-.8	.6
Finance, insurance, and real estate	12,879	12,716	12,881	3.0	-1.3	1.3
Services	48,434	48,452	48,934	4.5	.0	1.0
Government	37,324	36,957	36,922	2.5	-1.0	-.1

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

^p = preliminary.

^r = revised.

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

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 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

(1982=100)

Item	Annual average		Quarterly index										
	1988	1989	1987	1988				1989				1990	
			IV	I	II	III	IV	I	II	III	IV	I	II
Business sector													
Output per hour of all persons	113.0	112.8	112.0	113.1	112.8	113.5	113.1	113.3	113.3	112.8	112.3	111.9	112.3
Output	133.0	135.8	129.4	131.2	132.6	133.8	134.5	135.6	135.9	136.1	135.5	136.0	136.4
Hours	117.7	120.4	115.5	115.9	117.6	117.9	118.8	119.7	120.0	120.6	120.7	121.5	121.4
Compensation per hour	129.1	133.1	125.6	126.9	128.6	130.3	131.5	132.2	133.0	133.4	134.3	135.5	137.5
Real compensation per hour	105.3	103.5	105.0	105.3	105.5	105.6	105.5	104.6	103.7	103.3	103.0	101.9	102.5
Unit labor costs	114.3	118.0	112.1	112.2	114.0	114.8	116.3	116.7	117.4	118.2	119.6	121.1	122.4
Unit nonlabor payments	126.5	133.1	123.2	124.5	125.0	127.4	128.8	130.8	133.2	133.8	134.4	135.5	137.0
Implicit price deflator	118.2	122.8	115.7	116.2	117.5	118.9	120.3	121.2	122.5	123.3	124.3	125.8	127.1
Nonfarm business sector													
Output per hour of all persons	112.3	111.9	110.9	112.1	111.9	112.7	112.8	112.4	112.2	112.0	111.4	110.8	111.2
Output	134.0	136.7	129.7	131.6	133.4	134.8	136.0	136.4	136.8	137.1	136.3	136.8	137.3
Hours	119.3	122.2	116.9	117.4	119.2	119.6	120.5	121.4	121.9	122.4	122.4	123.5	123.5
Compensation per hour	128.3	132.1	124.9	126.2	127.7	129.4	130.8	131.4	131.9	132.5	133.4	134.4	136.3
Real compensation per hour	104.7	102.8	104.4	104.7	104.8	104.9	104.9	104.0	102.9	102.6	102.3	101.1	101.6
Unit labor costs	114.3	118.1	112.6	112.6	114.1	114.8	115.9	116.9	117.5	118.3	119.8	121.3	122.6
Unit nonlabor payments	127.4	133.7	124.1	125.4	125.8	127.4	130.6	130.9	133.9	134.7	135.3	135.7	137.5
Implicit price deflator	118.4	123.0	116.2	116.6	117.8	118.8	120.5	121.4	122.7	123.5	124.7	125.8	127.3
Manufacturing													
Output per hour of all persons	127.6	130.1	126.1	126.7	127.5	128.8	129.2	130.1	130.9	130.5	131.3	133.0	134.3
Output	139.9	144.0	135.5	136.9	138.9	141.1	142.6	143.7	144.5	144.0	143.5	144.2	145.6
Hours	109.6	110.6	107.4	108.0	108.9	109.5	110.3	110.5	110.4	110.4	109.3	108.4	108.4
Compensation per hour	123.4	126.7	120.4	122.4	123.1	124.3	125.7	126.5	126.6	127.6	128.4	129.2	131.2
Real compensation per hour	100.6	98.6	100.7	101.5	100.9	100.7	100.8	100.2	98.7	98.8	98.5	97.2	97.8
Unit labor costs	96.7	97.4	95.5	96.6	96.5	96.5	97.3	97.3	96.7	97.8	97.8	97.1	97.7
Durable goods													
Output per hour of all persons	139.9	143.3	138.3	139.3	140.3	141.4	142.2	142.9	144.8	144.7	144.8	146.6	149.2
Output	155.1	159.8	149.0	150.8	154.0	156.6	158.9	159.7	160.8	160.2	158.5	159.1	161.7
Hours	110.9	111.5	107.7	108.3	109.8	110.7	111.7	111.8	111.0	110.7	109.4	108.5	108.4
Compensation per hour	121.9	125.4	119.8	121.9	121.7	122.8	124.4	125.6	125.5	126.8	127.5	128.0	130.2
Real compensation per hour	99.4	97.6	100.2	101.1	99.8	99.5	99.8	99.4	97.9	98.2	97.8	96.3	97.0
Unit labor costs	87.1	87.5	86.6	87.5	86.8	86.8	87.5	87.9	86.7	87.6	88.0	87.3	87.3
Nondurable goods													
Output per hour of all persons	110.9	112.3	109.7	110.0	110.4	111.7	111.6	112.6	112.2	111.4	113.3	114.9	114.4
Output	119.6	122.8	117.5	118.3	118.8	120.4	120.9	122.3	122.8	122.5	123.7	124.3	124.2
Hours	107.8	109.3	107.1	107.6	107.7	107.8	108.4	108.6	109.5	110.0	109.1	108.3	108.5
Compensation per hour	125.6	128.6	121.4	123.1	125.1	126.6	127.6	127.9	128.2	128.8	129.9	131.1	132.8
Real compensation per hour	102.5	100.1	101.5	102.1	102.7	102.6	102.3	101.2	100.0	99.7	99.6	98.6	99.0
Unit labor costs	113.2	114.5	110.6	111.9	113.4	113.3	114.4	113.6	114.3	115.6	114.6	114.2	116.1
Nonfinancial corporations													
Output per all-employee hour	113.4	111.9	112.9	113.8	113.7	113.5	113.2	112.5	112.1	112.3	111.1	110.5	111.0
Output	134.9	136.4	131.3	133.2	134.6	135.4	136.3	136.2	136.4	137.1	135.9	136.0	136.5
Hours	119.0	121.9	116.3	117.1	118.4	119.3	120.4	121.1	121.7	122.1	122.3	123.0	123.0
Compensation per hour	125.8	129.6	122.6	123.8	125.3	126.8	127.9	128.9	129.4	130.0	130.7	131.4	133.3
Real compensation per hour	102.6	100.9	102.5	102.7	102.8	102.8	102.6	102.0	100.9	100.7	100.2	98.8	99.3
Total unit costs	109.0	114.7	106.8	107.1	108.2	109.7	110.9	112.7	114.1	115.0	117.0	118.1	119.2
Unit labor costs	111.0	115.8	108.6	108.8	110.2	111.8	113.0	114.6	115.4	115.7	117.6	118.9	120.1
Unit nonlabor costs	103.8	111.8	102.2	102.6	102.9	104.2	105.6	108.0	110.6	113.3	115.2	116.2	116.8
Unit profits	176.3	157.9	174.0	176.6	178.1	171.4	179.1	162.3	162.9	159.3	147.2	147.6	152.9
Implicit price deflator	113.2	117.4	111.0	111.4	112.6	113.5	115.2	115.9	117.1	117.8	118.9	120.0	121.3

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

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	I 1989	II 1989	III 1989	IV 1989	I 1990	II 1990	I 1989	II 1989	III 1989	IV 1989	I 1990	II 1990
Business sector												
Output per hour of all persons	0.5	0.0	-1.5	-2.0	-1.5	1.7	0.1	0.4	-0.6	-0.7	-1.2	-0.8
Output	3.5	.9	.6	-1.8	1.4	1.4	3.4	2.5	1.7	.8	.3	.4
Hours	3.0	.9	2.1	.1	2.9	-3	3.3	2.0	2.3	1.5	1.5	1.2
Compensation per hour	2.0	2.4	1.3	2.6	3.8	6.1	4.1	3.4	2.4	2.1	2.5	3.4
Real compensation per hour	-3.3	-3.4	-1.5	-1.4	-4.0	2.4	-6	-1.7	-2.2	-2.4	-2.6	-1.2
Unit labor costs	1.5	2.5	2.8	4.6	5.3	4.4	4.0	3.0	2.9	2.8	3.8	4.3
Unit nonlabor payments	6.3	7.7	1.8	1.6	3.3	4.7	5.1	6.6	5.1	4.3	3.6	2.8
Implicit price deflator	3.1	4.3	2.5	3.5	4.6	4.5	4.4	4.2	3.7	3.4	3.7	3.8
Nonfarm business sector												
Output per hour of all persons	-1.7	-5	-8	-2.2	-1.9	1.5	.2	.3	-6	-1.3	-1.4	-.9
Output	1.2	1.3	.6	-2.1	1.4	1.5	3.6	2.6	1.7	.3	.3	.4
Hours	3.0	1.7	1.5	.1	3.4	.0	3.4	2.3	2.3	1.6	1.7	1.2
Compensation per hour	2.0	1.5	1.8	2.7	3.2	5.8	4.1	3.2	2.4	2.0	2.3	3.4
Real compensation per hour	-3.3	-4.2	-1.0	-1.3	-4.5	2.0	-6	-1.8	-2.2	-2.4	-2.8	-1.2
Unit labor costs	3.8	2.0	2.7	5.1	5.2	4.3	3.9	3.0	3.0	3.4	3.7	4.3
Unit nonlabor payments	1.0	9.3	2.6	1.6	1.2	5.4	4.4	6.4	5.8	3.6	3.6	2.7
Implicit price deflator	2.8	4.4	2.6	3.9	3.8	4.6	4.1	4.1	3.9	3.4	3.7	3.7
Manufacturing												
Output per hour of all persons	2.6	2.6	-1.4	2.8	5.1	4.0	2.6	2.6	1.3	1.6	2.3	2.6
Output	3.1	2.4	-1.4	-1.3	1.8	4.0	4.9	4.1	2.1	.7	.4	.7
Hours .....	.5	-2	-.1	-4.0	-3.1	.1	2.3	1.4	.8	-1.0	-1.9	-1.8
Compensation per hour	2.6	.1	3.2	2.7	2.5	6.3	3.4	2.9	2.6	2.1	2.1	3.6
Real compensation per hour	-2.7	-5.6	.3	-1.3	-5.2	2.5	-1.3	-2.2	-1.9	-2.4	-3.0	-1.0
Unit labor costs .....	.0	-2.5	4.6	-.1	-2.5	2.2	.8	.2	1.3	.5	-.2	1.0
Durable goods												
Output per hour of all persons	2.0	5.5	-.4	.5	4.9	7.3	2.6	3.3	2.3	1.9	2.6	3.0
Output	2.2	2.8	-1.7	-4.1	1.6	6.8	5.9	4.5	2.3	-.2	-.4	.6
Hours .....	.2	-2.6	-1.2	-4.6	-3.2	-.5	3.2	1.2	.0	-2.1	-2.9	-2.4
Compensation per hour	3.6	-.1	4.1	2.3	1.7	6.9	3.0	3.1	3.3	2.5	2.0	3.7
Real compensation per hour	-1.7	-5.8	1.2	-1.7	-5.9	3.1	-1.7	-1.9	-1.3	-2.0	-3.1	-.9
Unit labor costs	1.6	-5.3	4.5	1.8	-3.1	-.4	.4	-.1	1.0	.6	-.6	.7
Nondurable goods												
Output per hour of all persons	3.7	-1.5	-2.7	7.1	5.4	-1.4	2.4	1.6	-.3	1.6	2.0	2.0
Output	4.7	1.8	-1.0	3.7	2.3	-.6	3.4	3.4	1.8	2.3	1.7	1.1
Hours .....	.9	3.3	1.7	-3.2	-3.0	.8	1.0	1.7	2.0	.7	-.3	-.9
Compensation per hour .....	.9	.8	2.0	3.4	3.9	5.4	3.9	2.4	1.7	1.8	2.5	3.7
Real compensation per hour	-4.3	-4.9	-.9	-.6	-3.9	1.6	-.8	-2.6	-2.8	-2.7	-2.6	-.9
Unit labor costs	-2.7	2.4	4.7	-3.4	-1.5	6.9	1.5	.8	2.0	.2	.5	1.6
Nonfinancial corporations												
Output per all-employee hour	-2.5	-1.4	.8	-4.2	-2.2	1.7	-1.1	-1.4	-1.0	-1.8	-1.8	-1.0
Output	-.1	.6	2.1	-3.6	.2	1.6	2.3	1.4	1.3	-.3	-.2	.1
Hours	2.4	2.0	1.3	.7	2.5	-.1	3.4	2.8	2.3	1.6	1.6	1.1
Compensation per hour	3.3	1.4	1.8	2.4	2.1	5.9	4.1	3.3	2.5	2.2	1.9	3.0
Real compensation per hour	-2.0	-4.3	-1.0	-1.6	-5.5	2.1	-.6	-1.8	-2.1	-2.2	-3.1	-1.5
Total unit costs	6.8	4.7	3.5	6.9	4.1	3.6	5.3	5.4	4.9	5.5	4.8	4.5
Unit labor costs	5.9	2.8	1.0	6.9	4.4	4.2	5.3	4.7	3.5	4.1	3.8	4.1
Unit nonlabor costs	9.5	9.9	10.2	6.9	3.3	2.2	5.3	7.4	8.7	9.2	7.6	5.6
Unit profits	-32.5	1.5	-8.5	-27.1	1.2	15.1	-8.1	-8.5	-7.0	-17.8	-9.0	-6.1
Implicit price deflator	2.4	4.4	2.4	3.6	3.9	4.5	4.0	4.0	3.8	3.2	3.6	3.6

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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Alabama	1,922.0	1,897.3	1,895.8	141.5	138.5	144.4	7.4	7.3	7.6
Birmingham	445.8	439.9	440.0	28.0	25.1	27.2	6.3	5.7	6.2
Huntsville	134.3	132.9	133.2	7.4	6.2	6.7	5.5	4.7	5.0
Mobile	212.2	209.3	209.0	18.4	15.2	16.7	8.7	7.3	8.0
Montgomery	140.6	138.8	139.1	10.0	8.9	9.9	7.1	6.4	7.1
Tuscaloosa	70.9	70.8	72.1	3.7	3.5	3.9	5.3	4.9	5.4
Alaska	262.6	270.3	266.7	12.4	14.2	14.8	4.7	5.3	5.5
Arizona	1,703.8	1,729.7	1,725.1	104.8	104.1	97.7	6.2	6.0	5.7
Phoenix	1,060.9	1,079.3	1,072.8	51.7	50.7	46.5	4.9	4.7	4.3
Tucson	315.9	312.0	313.5	16.2	13.7	12.9	5.1	4.4	4.1
Arkansas	1,146.7	1,121.9	1,128.9	74.6	80.6	68.4	6.5	7.2	6.1
Fayetteville-Springdale	64.1	63.4	63.8	2.1	2.6	1.9	3.3	4.1	3.0
Fort Smith	95.0	93.1	92.9	7.1	5.6	5.4	7.5	6.0	5.8
Little Rock-North Little Rock	271.9	265.2	267.5	16.3	17.7	14.8	6.0	6.7	5.5
Pine Bluff	37.7	36.4	36.3	2.7	3.5	2.9	7.2	9.5	7.9
California¹	14,677.8	14,965.0	14,939.7	684.3	849.6	813.4	4.7	5.7	5.4
Anaheim-Santa Ana	1,436.8	1,416.6	1,404.2	40.4	51.1	46.2	2.8	3.6	3.3
Bakersfield	235.7	237.9	231.1	21.0	23.6	20.3	8.9	9.9	8.8
Fresno	325.9	324.9	328.3	25.4	30.3	24.9	7.8	9.3	7.6
Los Angeles-Long Beach ¹	4,208.0	4,501.0	4,587.0	188.1	242.0	304.0	4.5	5.4	6.6
Modesto	170.7	170.1	168.6	13.3	18.6	13.2	7.8	10.9	7.8
Oakland	1,136.7	1,145.1	1,135.3	46.0	52.7	44.4	4.0	4.6	3.9
Oxnard-Ventura	376.4	381.0	374.7	20.7	25.2	22.0	5.5	6.6	5.9
Riverside-San Bernardino	1,022.0	1,070.4	1,042.8	60.9	83.2	70.8	6.0	7.8	6.8
Sacramento	743.4	750.0	744.5	32.0	36.7	29.9	4.3	4.9	4.0
San Diego	1,192.3	1,205.9	1,193.1	46.1	59.9	51.1	3.9	5.0	4.3
San Francisco	904.7	897.6	885.4	28.9	34.8	28.8	3.2	3.9	3.3
San Jose	863.4	833.9	826.7	30.7	36.1	30.8	3.6	4.3	3.7
Santa Barbara-Santa Maria-Lompoc	183.3	183.3	180.7	6.9	8.3	7.0	3.7	4.5	3.9
Santa Rosa-Petaluma	207.9	210.7	211.4	8.1	9.9	8.3	3.9	4.7	3.9
Stockton	206.5	201.6	201.1	14.5	18.9	14.4	7.0	9.4	7.2
Vallejo-Fairfield-Napa	203.0	207.3	203.6	9.9	11.9	9.6	4.9	5.8	4.7
Colorado	1,705.4	1,755.1	1,756.1	86.5	84.6	80.9	5.1	4.8	4.6
Boulder-Longmont	134.2	137.1	135.9	5.2	5.3	4.6	3.9	3.8	3.4
Denver	877.4	890.4	894.6	43.4	40.5	39.5	4.9	4.5	4.4
Connecticut	1,786.1	1,828.3	1,816.5	71.3	94.3	93.7	4.0	5.2	5.2
Bridgeport-Milford	231.4	234.9	233.3	12.1	15.0	14.7	5.2	6.4	6.3
Hartford	433.5	446.6	442.8	15.7	20.2	20.3	3.6	4.5	4.6
New Britain	74.2	77.2	76.3	3.4	4.7	4.6	4.6	6.1	6.1
New Haven-Meriden	278.4	285.4	281.9	11.1	14.7	14.7	4.0	5.1	5.2
Stamford	118.2	119.2	118.3	3.2	4.0	4.2	2.7	3.4	3.5
Waterbury	103.7	104.7	105.5	5.2	8.3	8.0	5.0	8.0	7.6
Delaware	365.7	365.4	364.0	11.3	16.8	15.9	3.1	4.6	4.4
Wilmington	312.2	314.1	312.6	10.4	16.3	14.0	3.3	5.2	4.5
District of Columbia	315.9	304.6	297.9	15.0	21.1	18.1	4.7	6.9	6.1
Washington	2,252.3	2,259.5	2,235.9	57.9	73.9	73.3	2.6	3.3	3.3
Florida¹	6,272.6	6,424.9	6,454.5	340.0	394.6	440.2	5.4	6.1	6.8
Daytona Beach	157.8	157.9	158.3	7.8	8.3	9.5	4.9	5.3	6.0
Fort Lauderdale-Hollywood-Pompano Beach	655.1	668.9	673.1	31.1	37.6	42.1	4.7	5.6	6.2
Fort Myers-Cape Coral	147.2	158.2	158.5	5.4	7.1	8.1	3.7	4.5	5.1
Gainesville	107.9	108.5	109.5	3.1	3.7	4.2	2.9	3.4	3.8
Jacksonville	460.6	466.4	467.0	23.0	25.7	28.6	5.0	5.5	6.1
Lakeland-Winter Haven	181.2	184.8	186.0	18.3	21.4	23.6	10.1	11.6	12.7
Melbourne-Titusville-Palm Bay	192.5	198.0	197.4	9.7	10.8	12.1	5.0	5.4	6.1
Miami-Hialeah	957.0	973.0	979.5	58.5	65.1	73.0	6.1	6.7	7.5
Orlando	622.2	639.6	640.9	28.2	34.2	39.6	4.5	5.4	6.2
Pensacola	150.1	149.5	150.9	8.4	8.5	10.0	5.6	5.7	6.7
Sarasota	124.5	126.0	126.5	4.2	5.3	6.0	3.4	4.2	4.8
Tallahassee	134.7	136.6	137.2	6.3	5.4	6.9	4.6	4.0	5.0
Tampa-St. Petersburg-Clearwater	1,007.4	1,023.5	1,025.9	46.3	54.1	58.1	4.6	5.3	5.7
West Palm Beach-Boca Raton-Delray Beach	421.8	431.2	433.9	27.1	32.2	34.2	6.4	7.5	7.9

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Georgia	3,221.0	3,277.2	3,256.1	181.7	189.2	183.1	5.6	5.8	5.6
Albany	53.2	53.2	52.5	4.3	3.8	3.8	8.1	7.1	7.2
Athens	76.4	78.8	76.9	3.3	4.1	3.6	4.3	5.3	4.7
Atlanta	1,520.9	1,552.5	1,551.2	80.8	79.5	83.3	5.3	5.1	5.4
Augusta	190.6	192.9	193.0	9.9	9.7	9.1	5.2	5.0	4.7
Columbus	99.1	99.4	98.6	5.6	6.6	6.2	5.6	6.7	6.3
Macon-Warner Robins	133.1	134.7	132.8	6.5	6.9	6.3	4.9	5.1	4.7
Savannah	113.6	115.9	115.5	6.0	5.8	5.4	5.3	5.0	4.7
Hawaii	525.1	539.5	540.2	8.1	15.3	13.4	1.5	2.8	2.5
Honolulu	384.1	393.5	394.8	5.4	10.0	8.9	1.4	2.6	2.2
Idaho	492.5	505.4	490.6	24.1	28.1	24.4	4.9	5.6	5.0
Boise City	111.6	114.8	112.0	3.3	4.0	3.6	3.0	3.5	3.2
Illinois ¹	6,073.4	6,173.6	6,025.3	352.6	387.2	381.2	5.8	6.3	6.3
Aurora-Elgin	182.1	188.8	185.3	9.3	11.0	11.1	5.1	5.8	6.0
Bloomington-Normal	73.7	74.6	72.4	2.7	2.9	3.0	3.7	3.9	4.2
Champaign-Urbana-Rantoul	87.9	91.1	86.3	3.5	3.7	3.4	3.9	4.1	4.0
Chicago	3,335.4	3,402.4	3,325.6	186.4	207.5	207.1	5.6	6.1	6.2
Davenport-Rock Island-Moline	188.2	187.7	183.9	11.3	10.6	11.0	6.0	5.7	6.0
Decatur	60.8	61.5	59.8	4.5	4.4	4.3	7.4	7.2	7.1
Joliet	205.9	211.2	205.9	12.7	14.1	14.1	6.2	6.7	6.9
Kankakee	46.2	48.1	47.0	3.3	3.4	3.4	7.0	7.1	7.2
Lake County	301.9	314.6	305.8	10.7	12.7	12.2	3.5	4.0	4.0
Peoria	165.1	165.7	161.9	9.6	10.1	10.1	5.8	6.1	6.3
Rockford	158.6	158.4	153.9	9.1	13.3	9.3	5.7	8.4	6.1
Springfield	121.5	115.5	119.2	5.0	4.8	5.4	4.1	4.2	4.6
Indiana	2,900.7	2,856.0	2,795.9	125.4	146.2	181.3	4.3	5.1	6.5
Anderson	59.9	58.5	58.1	3.4	3.8	5.0	5.7	6.5	8.6
Bloomington	59.4	58.4	56.6	2.0	1.8	2.3	3.3	3.1	4.1
Elkhart-Goshen	99.6	98.6	97.5	4.9	4.6	6.6	4.9	4.7	6.8
Evansville	147.6	147.1	143.9	6.5	6.6	8.7	4.4	4.5	6.1
Fort Wayne	208.4	206.0	202.7	8.8	9.5	12.9	4.2	4.6	6.3
Gary-Hammond	262.8	258.5	251.1	12.1	13.7	17.9	4.6	5.3	7.1
Indianapolis	705.5	693.7	673.7	25.0	32.3	35.5	3.5	4.7	5.3
Kokomo	48.4	47.8	48.5	2.4	2.7	4.9	5.0	5.7	10.1
Lafayette-West Lafayette	67.1	67.9	66.0	1.9	1.9	2.5	2.9	2.8	3.7
Muncie	58.0	59.1	58.9	2.6	2.9	4.2	4.5	4.9	7.1
South Bend-Mishawaka	132.7	133.6	131.0	5.5	7.6	8.6	4.2	5.7	6.6
Terre Haute	59.6	58.9	57.5	2.6	2.7	3.2	4.3	4.5	5.5
Iowa	1,519.8	1,525.2	1,484.3	64.7	60.3	59.0	4.3	4.0	4.0
Cedar Rapids	97.4	98.4	96.6	3.2	4.9	5.0	3.3	5.0	5.2
Des Moines	236.5	237.5	231.7	8.2	7.3	7.2	3.4	3.1	3.1
Dubuque	45.2	43.7	43.0	4.5	2.1	3.4	9.9	4.8	8.0
Iowa City	60.2	63.7	64.0	.9	1.2	1.0	1.5	1.9	1.6
Sioux City	61.2	60.9	59.4	2.8	2.4	2.5	4.5	4.0	4.2
Waterloo-Cedar Falls	70.5	72.3	70.6	3.4	3.2	3.2	4.8	4.4	4.5
Kansas	1,296.7	1,340.2	1,320.7	49.6	50.3	58.2	3.8	3.8	4.4
Lawrence	43.4	43.5	45.3	1.4	1.6	1.6	3.1	3.7	3.6
Topeka	92.4	95.8	93.9	4.0	4.1	4.8	4.4	4.3	5.2
Wichita	256.3	262.4	257.9	10.7	10.5	11.5	4.2	4.0	4.5
Kentucky	1,783.0	1,798.6	1,782.1	96.8	90.5	87.5	5.4	5.0	4.9
Lexington-Fayette	203.1	207.3	203.8	6.8	6.3	6.6	3.3	3.1	3.2
Louisville	533.7	532.8	523.1	27.4	21.6	22.4	5.1	4.0	4.3
Owensboro	46.4	46.2	46.1	2.7	2.2	2.5	5.9	4.8	5.3
Louisiana	1,893.3	1,947.2	1,906.6	141.1	121.1	122.6	7.5	6.2	6.4
Alexandria	59.5	59.5	58.7	4.6	3.9	4.1	7.7	6.6	7.0
Baton Rouge	270.2	280.0	272.0	17.8	15.7	15.7	6.6	5.6	5.8
Houma-Thibodaux	68.7	72.9	70.9	4.8	3.5	3.7	7.0	4.8	5.3
Lafayette	100.0	105.6	103.9	6.2	4.9	4.7	6.2	4.6	4.6
Lake Charles	76.1	78.7	75.8	5.4	5.3	5.3	7.1	6.7	7.1
Monroe	68.5	70.4	68.1	4.6	4.2	4.1	6.7	6.0	6.0
New Orleans	592.1	607.8	596.3	40.9	35.1	36.2	6.9	5.8	6.1
Shreveport	156.2	158.5	155.5	11.8	9.6	10.1	7.6	6.1	6.5
Maine	632.0	645.3	641.8	20.3	27.5	26.9	3.2	4.3	4.2
Lewiston-Auburn	41.5	42.4	42.1	1.9	2.9	2.6	4.6	6.8	6.1
Portland	131.1	134.8	132.7	2.9	4.0	4.7	2.2	3.0	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. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P	Aug. 1989	July 1990	Aug. 1990 ^P
Maryland	2,553.3	2,599.8	2,569.2	90.7	117.3	113.8	3.6	4.5	4.4
Baltimore	1,212.8	1,245.2	1,229.7	47.8	61.6	59.4	3.9	4.9	4.8
Massachusetts¹	3,253.0	3,223.7	3,238.0	126.6	209.5	207.2	3.9	6.5	6.4
Boston	1,591.8	1,571.7	1,580.3	55.8	87.3	90.0	3.5	5.6	5.7
Brockton	102.8	102.7	103.2	4.9	8.3	8.2	4.8	8.1	7.9
Fall River	79.5	81.6	80.3	4.3	9.7	7.5	5.4	11.9	9.3
Fitchburg-Leominster	48.4	47.5	47.2	2.7	4.6	4.6	5.5	9.7	9.7
Lawrence-Haverhill	192.9	197.1	198.4	10.5	15.6	15.7	5.4	7.9	7.9
Lowell	154.9	154.4	155.0	7.2	11.8	11.8	4.6	7.6	7.6
New Bedford	88.3	89.8	89.0	4.6	9.0	7.7	5.2	10.1	8.6
Pittsfield	41.8	42.7	42.9	1.7	2.7	2.6	4.0	6.3	6.1
Springfield	260.2	256.3	258.5	10.4	16.5	16.5	4.0	6.4	6.4
Worcester	223.5	226.5	227.4	8.8	15.4	15.2	3.9	6.8	6.7
Michigan¹	4,690.6	4,689.2	4,696.7	312.0	363.3	349.0	6.7	7.7	7.4
Ann Arbor	160.2	160.5	164.5	7.1	8.5	9.1	4.4	5.3	5.6
Battle Creek	66.0	66.5	67.4	4.4	5.1	4.9	6.7	7.6	7.2
Benton Harbor	80.8	80.0	80.7	5.6	5.7	5.8	7.0	7.1	7.2
Detroit	2,241.7	2,221.0	2,209.3	157.2	182.2	169.0	7.0	8.2	7.6
Flint	184.8	184.7	186.2	17.6	16.0	17.3	9.5	8.6	9.3
Grand Rapids	374.7	380.6	376.8	18.5	26.6	22.8	4.9	7.0	6.0
Jackson	67.1	66.7	67.3	4.4	5.3	5.2	6.6	7.9	7.7
Kalamazoo	119.2	119.4	119.8	5.7	6.8	5.9	4.7	5.7	4.9
Lansing-East Lansing	242.2	239.5	240.6	12.4	14.3	13.8	5.1	6.0	5.7
Muskegon	70.2	70.3	70.6	5.8	6.9	6.5	8.3	9.8	9.3
Saginaw-Bay City-Midland	187.9	190.1	192.1	12.2	13.1	13.2	6.5	6.9	6.9
Minnesota	2,382.8	2,423.6	2,430.9	95.1	111.6	105.5	4.0	4.6	4.3
Duluth	109.0	112.4	112.3	5.6	5.8	5.4	5.1	5.2	4.8
Minneapolis-St.Paul	1,431.5	1,448.5	1,447.7	52.7	61.9	59.1	3.7	4.3	4.1
Rochester	63.9	65.4	65.3	1.7	2.1	2.1	2.7	3.3	3.2
St. Cloud	97.3	101.8	103.2	3.8	5.2	5.0	3.9	5.1	4.9
Mississippi	1,168.1	1,201.8	1,181.6	84.8	96.6	93.5	7.3	8.0	7.9
Jackson	202.6	210.4	207.4	10.5	11.7	12.0	5.2	5.5	5.8
Missouri	2,627.5	2,637.8	2,634.3	128.6	152.9	150.4	4.9	5.8	5.7
Kansas City	857.5	877.0	872.8	37.3	39.8	44.6	4.4	4.5	5.1
St. Louis LMA	1,283.0	1,286.5	1,277.8	65.5	78.2	80.0	5.1	6.1	6.3
Springfield	127.0	126.0	126.5	5.2	5.6	5.4	4.1	4.4	4.3
Montana	416.1	408.9	405.7	20.0	20.7	17.7	4.8	5.1	4.4
Nebraska	820.1	863.4	838.9	24.6	19.3	19.5	3.0	2.2	2.3
Lincoln	123.8	129.4	126.4	3.0	2.6	2.4	2.4	2.0	1.9
Omaha	331.5	342.3	333.4	11.8	9.2	9.4	3.6	2.7	2.8
Nevada	599.9	636.0	629.7	28.1	28.7	25.5	4.7	4.5	4.0
Las Vegas	357.4	385.5	382.8	17.6	18.1	16.6	4.9	4.7	4.3
Reno	135.9	138.5	137.2	5.7	5.6	4.9	4.2	4.1	3.6
New Hampshire	621.2	634.7	635.2	22.8	36.4	33.6	3.7	5.7	5.3
Manchester	86.1	89.1	89.0	2.9	5.2	4.8	3.4	5.8	5.4
Nashua	98.3	99.6	98.6	4.1	6.8	6.0	4.2	6.8	6.1
Portsmouth-Dover-Rochester	139.3	133.8	136.1	3.7	5.9	6.3	2.6	4.4	4.6
New Jersey¹	4,012.0	4,134.3	4,104.0	169.9	211.8	188.9	4.2	5.1	4.6
Atlantic City	190.8	204.8	202.6	8.1	9.5	9.0	4.3	4.6	4.5
Bergen-Passaic	704.5	723.6	717.2	27.3	33.0	29.3	3.9	4.6	4.1
Jersey City	274.7	278.5	276.7	17.8	21.1	18.2	6.5	7.6	6.6
Middlesex-Somerset-Hunterdon	570.9	582.5	578.5	19.1	25.1	22.4	3.3	4.3	3.9
Monmouth-Ocean	501.0	518.2	517.8	18.5	24.2	22.0	3.7	4.7	4.3
Newark	959.4	993.9	983.5	45.1	57.0	49.5	4.7	5.7	5.0
Trenton	168.8	173.8	173.2	6.1	7.8	7.3	3.6	4.5	4.2
Vineland-Millville-Bridgeton	59.0	61.5	60.2	3.8	4.8	4.0	6.4	7.8	6.7
New Mexico	704.1	711.7	705.8	47.8	46.6	42.8	6.8	6.6	6.1
Albuquerque	270.0	265.8	263.7	15.1	14.4	13.3	5.6	5.4	5.1
Las Cruces	58.6	58.7	59.1	4.1	4.4	3.9	7.0	7.5	6.6
Santa Fe	68.8	72.5	71.6	2.5	2.7	2.4	3.6	3.7	3.3

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. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a	Aug. 1989	July 1990	Aug. 1990 ^a
New York ¹	8,726.8	8,874.3	8,731.0	421.1	458.9	419.6	4.8	5.2	4.8
Albany-Schenectady-Troy	443.8	453.7	447.6	16.7	15.2	14.8	3.8	3.3	3.3
Binghamton	127.0	126.3	124.5	5.3	4.7	4.5	4.2	3.8	3.6
Buffalo	470.8	479.2	469.7	26.6	22.5	21.7	5.7	4.7	4.6
Elmira	44.1	45.9	45.0	1.7	1.7	1.6	3.8	3.8	3.6
Glens Falls	58.4	60.3	58.7	2.8	2.5	2.6	4.8	4.2	4.4
Nassau-Suffolk	1,441.0	1,473.5	1,431.3	63.2	60.1	58.5	4.4	4.1	4.1
New York	3,975.4	4,017.1	3,981.4	210.0	261.8	230.0	5.3	6.5	5.8
New York City ¹	3,276.4	3,301.0	3,283.0	184.3	238.0	205.0	5.6	7.2	6.2
Orange County	140.2	142.0	138.0	6.7	6.1	6.2	4.8	4.3	4.5
Poughkeepsie	130.2	133.0	130.3	3.8	4.0	4.0	2.9	3.0	3.1
Rochester	519.6	526.0	515.0	20.1	19.3	18.0	3.9	3.7	3.5
Syracuse	322.7	332.4	326.2	12.7	11.9	11.4	3.9	3.6	3.5
Utica-Rome	141.2	143.4	139.7	5.8	5.7	5.1	4.1	4.0	3.7
North Carolina ¹	3,434.7	3,493.5	3,418.2	119.7	157.3	118.3	3.5	4.5	3.5
Asheville	92.3	96.6	94.9	2.6	3.2	2.4	2.8	3.3	2.6
Charlotte-Gastonia-Rock Hill	655.2	671.1	658.7	20.9	26.1	20.3	3.2	3.9	3.1
Greensboro-Winston-Salem-High Point	520.5	517.9	507.6	18.2	22.6	16.6	3.5	4.4	3.3
Raleigh-Durham	426.6	427.9	421.8	10.6	11.8	9.4	2.5	2.8	2.2
North Dakota	343.1	334.6	338.1	13.2	13.2	11.1	3.8	3.9	3.3
Bismarck	49.1	48.3	49.3	1.7	1.8	1.5	3.4	3.7	3.0
Fargo-Moorhead	87.8	88.3	89.1	2.2	2.2	2.0	2.5	2.5	2.2
Grand Forks	36.9	36.0	36.5	1.7	1.6	1.2	4.6	4.5	3.4
Ohio ¹	5,481.4	5,472.1	5,503.6	258.9	278.2	258.3	4.7	5.1	4.7
Akron	336.0	338.0	339.7	14.9	16.2	14.1	4.4	4.8	4.1
Canton	197.0	195.2	196.9	10.9	10.6	9.9	5.6	5.4	5.0
Cincinnati	793.8	800.4	804.3	31.5	31.6	30.1	4.0	3.9	3.7
Cleveland	967.4	967.6	968.4	39.8	42.1	39.3	4.1	4.3	4.1
Columbus	736.7	742.4	748.2	29.2	30.8	27.4	4.0	4.2	3.7
Dayton-Springfield	480.0	478.5	484.7	21.0	22.0	22.2	4.4	4.6	4.6
Toledo	317.4	316.8	318.0	16.4	18.6	17.2	5.2	5.9	5.4
Youngstown-Warren	225.8	222.3	225.3	13.3	17.0	12.8	5.9	7.6	5.7
Oklahoma	1,557.4	1,587.2	1,565.8	74.7	75.8	83.2	4.8	4.8	5.3
Enid	28.6	29.0	28.2	1.1	1.1	1.1	3.8	3.7	3.8
Lawton	50.0	50.8	50.1	2.0	2.3	2.4	4.1	4.5	4.7
Oklahoma City	512.0	528.3	521.9	20.9	23.1	30.7	4.1	4.4	5.9
Tulsa	349.9	368.5	359.8	17.1	16.9	16.6	4.9	4.6	4.6
Oregon	1,487.5	1,511.2	1,530.6	77.7	86.7	79.8	5.2	5.7	5.2
Eugene-Springfield	145.2	148.9	150.2	7.5	8.5	8.1	5.2	5.7	5.4
Portland	675.6	688.0	696.3	29.7	31.9	29.9	4.4	4.6	4.3
Salem	143.3	143.3	146.6	7.0	7.6	6.7	4.9	5.3	4.6
Pennsylvania ¹	5,879.0	5,974.1	5,876.8	231.4	309.9	253.1	3.9	5.2	4.3
Allentown-Bethlehem	327.6	333.2	329.3	12.2	18.9	15.2	3.7	5.7	4.6
Altoona	60.6	63.7	61.5	3.1	4.9	3.2	5.1	7.6	5.3
Beaver County	59.0	60.1	58.1	3.8	4.5	3.5	6.5	7.6	6.0
Erie	132.5	136.5	134.4	5.5	6.9	5.5	4.1	5.1	4.1
Harrisburg-Lebanon-Carlisle	336.5	346.4	343.3	10.6	14.4	13.0	3.2	4.1	3.8
Johnstown	96.2	97.6	94.8	6.3	7.5	5.7	6.6	7.7	6.0
Lancaster	225.8	227.9	224.6	6.0	9.4	7.4	2.6	4.1	3.3
Philadelphia	2,426.0	2,462.3	2,429.0	88.5	116.6	99.3	3.6	4.7	4.1
Pittsburgh	985.0	999.5	985.8	38.8	40.7	36.5	3.9	4.1	3.7
Reading	176.7	179.2	177.5	5.2	9.2	7.5	2.9	5.1	4.2
Scranton-Wilkes-Barre	367.5	374.5	367.0	16.8	26.3	19.5	4.6	7.0	5.3
Sharon	50.5	53.2	51.7	1.9	2.9	2.0	3.7	5.4	4.0
State College	65.7	67.0	65.9	2.5	3.7	2.9	3.9	5.5	4.4
Williamsport	59.6	61.7	60.2	2.8	3.4	3.1	4.8	5.5	5.1
York	223.8	225.1	222.1	9.6	10.8	9.6	4.3	4.8	4.3
Rhode Island	532.4	525.9	521.4	20.2	37.7	31.5	3.8	7.2	6.0
Pawtucket-Woonsocket-Attleboro	168.0	166.4	166.9	7.6	14.0	12.2	4.5	8.4	7.3
Providence	347.5	342.1	338.4	12.6	23.7	19.7	3.6	6.9	5.8
South Carolina	1,702.5	1,770.9	1,753.3	79.0	93.3	83.0	4.6	5.3	4.7
Charleston	225.7	247.4	245.2	9.3	8.8	8.3	4.1	3.5	3.4
Columbia	233.7	244.9	245.1	8.5	9.4	8.7	3.6	3.8	3.6
Greenville-Spartanburg	338.0	356.8	353.9	12.5	15.7	14.4	3.7	4.4	4.1
South Dakota	367.1	369.7	368.3	15.3	14.6	14.0	4.2	3.9	3.8
Rapid City	40.9	40.7	41.2	1.8	1.3	1.6	4.3	3.2	3.8
Sioux Falls	73.3	74.4	73.9	2.1	2.0	1.8	2.9	2.7	2.4

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Aug. 1989	July 1990	Aug. 1990 ^p	Aug. 1989	July 1990	Aug. 1990 ^p	Aug. 1989	July 1990	Aug. 1990 ^p
Tennessee	2,394.1	2,448.2	2,419.7	116.4	122.7	120.3	4.9	5.0	5.0
Chattanooga	212.2	214.3	212.5	10.1	10.0	9.4	4.8	4.7	4.4
Johnson City-Kingsport-Bristol	216.5	226.6	224.0	9.6	9.8	9.0	4.4	4.3	4.0
Knoxville	295.7	293.9	289.5	15.0	12.6	12.7	5.1	4.3	4.4
Memphis	471.7	479.9	476.1	20.8	20.7	21.5	4.4	4.3	4.5
Nashville	531.0	541.8	535.9	19.2	20.0	21.1	3.6	3.7	3.9
Texas¹	8,620.8	8,527.9	8,458.7	621.8	537.6	500.9	7.2	6.3	5.9
Abilene	53.1	52.5	51.3	3.8	4.2	3.2	7.1	7.9	6.3
Amarillo	100.3	98.3	97.3	5.9	5.2	4.5	5.9	5.3	4.6
Austin	436.5	428.3	425.3	26.0	21.1	19.2	6.0	4.9	4.5
Beaumont-Port Arthur	166.8	166.0	164.6	15.5	13.0	12.1	9.3	7.8	7.3
Brazoria	88.0	88.2	87.7	6.5	5.1	4.7	7.4	5.8	5.4
Brownsville-Harlingen	107.5	109.9	108.2	14.0	12.6	11.7	13.1	11.5	10.8
Bryan-College Station	60.6	60.8	60.9	2.9	2.3	2.0	4.8	3.8	3.3
Corpus Christi	162.2	160.0	158.5	14.5	11.3	10.6	8.9	7.1	6.7
Dallas	1,481.6	1,457.7	1,450.0	90.5	77.5	74.2	6.1	5.3	5.1
El Paso	255.6	255.4	253.9	27.3	27.3	26.0	10.7	10.7	10.2
Fort Worth-Arlington	747.5	739.7	736.2	47.4	39.9	36.6	6.3	5.4	5.0
Galveston-Texas City	114.0	113.1	111.6	8.5	8.2	7.6	7.5	7.3	6.8
Houston	1,727.9	1,729.1	1,718.3	110.9	95.1	90.5	6.4	5.5	5.3
Killeen-Temple	99.9	100.5	99.6	7.6	7.0	6.7	7.6	6.9	6.7
Laredo	52.5	53.6	52.9	5.8	5.1	4.6	11.0	9.6	8.6
Longview-Marshall	82.6	81.3	80.8	7.3	5.8	5.4	8.9	7.2	6.7
Lubbock	116.3	115.9	115.9	6.6	6.3	6.0	5.7	5.5	5.2
McAllen-Edinburg-Mission	155.0	155.7	152.8	27.4	25.3	24.3	17.7	16.2	15.9
Midland	50.6	49.8	49.2	3.4	2.9	2.7	6.7	5.9	5.5
Odessa	53.7	51.4	51.1	5.0	3.4	3.0	9.3	6.5	5.8
San Angelo	46.0	44.4	43.6	2.8	2.7	2.4	6.0	6.0	5.5
San Antonio	626.7	615.0	608.6	49.7	45.2	42.4	7.9	7.3	7.0
Sherman-Denison	48.2	47.0	46.6	2.8	2.5	2.4	5.9	5.4	5.1
Texarkana	58.8	57.6	57.0	4.3	3.9	3.3	7.2	6.8	5.8
Tyler	77.2	75.8	75.3	5.8	4.8	4.8	7.5	6.4	6.3
Victoria	36.8	36.8	36.4	2.4	2.0	1.8	6.6	5.3	5.0
Waco	96.0	94.1	93.0	6.5	6.0	5.6	6.8	6.4	6.0
Wichita Falls	58.1	56.3	55.8	3.8	3.6	3.4	6.5	6.3	6.1
Utah	799.7	799.2	808.7	36.4	35.4	35.3	4.6	4.4	4.4
Provo-Orem	111.2	114.3	116.0	4.8	4.3	4.1	4.3	3.8	3.6
Salt Lake City-Ogden	521.2	516.2	523.6	22.6	22.2	22.8	4.3	4.3	4.4
Vermont	309.5	310.6	308.8	10.7	14.0	14.1	3.5	4.5	4.6
Burlington	77.7	80.0	78.3	2.2	2.6	2.6	2.9	3.2	3.3
Virginia	3,201.7	3,231.1	3,224.7	100.5	122.5	131.2	3.1	3.8	4.1
Charlottesville	71.2	73.7	73.4	1.7	1.5	1.9	2.4	2.1	2.5
Danville	52.3	52.0	51.3	2.5	3.6	3.8	4.8	6.9	7.4
Lynchburg	74.1	73.6	73.8	2.6	3.0	3.3	3.5	4.1	4.5
Norfolk-Virginia Beach-Newport News	635.7	641.7	641.1	23.5	27.6	29.9	3.7	4.3	4.7
Richmond-Petersburg	462.6	464.9	466.7	14.2	15.6	18.0	3.1	3.4	3.8
Roanoke	123.7	124.5	124.7	3.5	3.9	4.3	2.9	3.1	3.5
Washington	2,487.4	2,549.1	2,527.0	146.5	129.6	116.2	5.9	5.1	4.6
Seattle	1,117.9	1,136.9	1,135.8	49.5	42.5	38.8	4.4	3.7	3.4
West Virginia	771.0	780.4	776.1	58.7	55.9	67.2	7.6	7.2	8.7
Charleston	118.1	122.0	122.2	7.0	6.2	7.6	5.9	5.1	6.2
Huntington-Ashland	131.1	132.1	131.1	7.6	8.1	8.4	5.8	6.1	6.4
Parkersburg-Marietta	73.6	73.9	75.3	4.1	4.4	6.4	5.6	6.0	6.5
Wheeling	73.3	73.6	72.8	3.9	3.6	3.5	5.4	4.9	4.8
Wisconsin	2,618.6	2,617.7	2,614.6	98.9	92.9	95.9	3.8	3.5	3.7
Appleton-Oshkosh-Neenah	174.0	174.5	174.3	6.0	6.1	6.1	3.4	3.5	3.5
Eau Claire	74.3	75.1	74.8	2.5	2.5	2.7	3.4	3.3	3.6
Green Bay	111.7	111.1	112.2	3.9	3.4	3.8	3.5	3.0	3.4
Janesville-Beloit	74.5	74.3	73.2	4.7	4.4	3.4	6.4	6.0	4.6
Kenosha	53.4	52.5	52.8	4.0	3.3	2.8	7.5	6.4	5.2
La Crosse	54.0	53.1	52.6	1.8	1.7	1.6	3.3	3.2	3.0
Madison	225.4	227.6	226.6	5.6	4.5	5.0	2.5	2.0	2.2
Milwaukee	773.1	774.6	772.3	28.2	26.0	28.1	3.6	3.4	3.6
Racine	94.1	91.5	91.7	4.5	3.5	3.6	4.8	3.8	4.0
Sheboygan	60.7	61.6	60.5	2.2	2.8	2.3	3.7	4.5	3.8
Wausau	65.6	65.7	66.2	2.3	2.1	2.3	3.4	3.2	3.5
Wyoming	243.3	247.8	245.1	14.9	8.9	9.8	6.1	3.6	4.0
Casper	31.1	30.3	31.0	2.3	1.3	1.5	7.3	4.2	4.9

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

NOTE: Data refer to place of residence. Estimates for 1989 have been benchmarked to 1989 Current Population Survey annual averages. Except in the

11 States and 2 areas designated by footnote 1, estimates for 1990 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 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 nonfarm 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 340,000 establishments employing over 40 million nonfarm wage and salary workers. The data relate to all workers, full or part time, who receive 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 nonfarm 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 THE 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 THE 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 the 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 nonfarm 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*, BLS Bulletin 2307.

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 60,000 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 60,000 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 origin

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 non-institutional 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; (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 are 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 appears in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

Beginning in August 1989, the second-stage ratio estimate cells were changed slightly to decrease the chance of very small cells occurring and to be more consistent with published age, sex, race cells. This change had virtually no effect on national estimates.

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

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information, providing an opportunity to improve the efficiency of the sample design and increase the reliability for State estimates. 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; they were reinstated during the 8-month period, April-November 1989.

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

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989	729	53,200	2,600	11,500
Nov. 1989 to present ³	729	57,400	2,600	11,800

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.

³ The sample was increased incrementally during the 8-month period, April-November 1989.

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 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 contains 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 38 and 24 age-sex groups respectively; the other races category has 4 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 and August 1989. The nature and effect of the 1985 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 post-censal 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-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-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 errors, 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

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 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

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.

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

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

Standard error of year-to-year change =

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

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

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

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(0.30)(216,000)(221,000)}$$

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, hours, and earnings in nonfarm establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, and Employment, Hours, and Earnings, States and Areas*, 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 nonfarm establishments and, for most industries, employment, payroll, and hours of production and related workers or non-supervisory 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 (beginning with August 1990 data) and for States and areas (beginning with January 1990 data) are classified in accordance with the *1987 Standard Industrial Classification (SIC) Manual*, 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 are also 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. Beginning with August 1990 data, the overall indexes are calculated from 356 seasonally adjusted employment series (three-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 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 1982. 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. Such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours. 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.

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-term 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 non-production 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 most 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.

a size stratum, a region stratum, or a size stratum of a region within an industry.

Size and regional stratification

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

Benchmark adjustments

Employment estimates are compared periodically with benchmarks (comprehensive counts of employment) for the various nonfarm industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1989 levels. Benchmark adjustments are made annually.

The primary sources of benchmark information are

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.

agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonfarm payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1988 benchmark adjustment is shown in table M.

Normally, 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

Table M. Comparison of nonfarm employment benchmarks and estimates for March 1989

(In thousands)

Industry	Benchmark	1987 SIC-based estimate	Difference	
			Level	Percent
Total	107,026	107,073	-47	(¹)
Mining	678	703	-25	-3.7
Construction	4,741	4,813	-72	-1.5
Manufacturing	19,396	19,585	-189	-1.0
Transportation and public utilities	5,549	5,646	-97	-1.7
Wholesale trade	6,195	6,145	50	.8
Retail trade	19,115	19,023	92	.5
Finance, insurance, and real estate	6,639	6,714	-75	-1.1
Services	26,702	26,479	223	.8
Government	18,011	17,965	46	.3

¹ Less than 0.05 percent.

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

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

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 adjusted annually to new benchmarks. In addition to taking account of sampling and

Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1989

Industry	Benchmarks (thousands)	Sample coverage ¹		
		Number of establishments	Employees	
			Number (thousands)	Percent of benchmarks
Total	107,026	282,003	39,158	37
Mining	678	3,352	261	38
Construction	4,741	27,194	948	20
Manufacturing	19,396	51,253	9,377	48
Transportation and public utilities	5,549	214,673	22,149	39
Wholesale trade	6,195	25,311	1,120	18
Retail trade	19,115	55,477	4,136	22
Finance, insurance, and real estate	6,639	21,001	2,139	32
Services	26,702	63,877	6,184	23
Government:				
Federal	2,976	(³)	2,976	100
State	4,257	4,437	3,207	75
Local	10,778	15,428	6,661	62

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. A small sample is used to estimate hours and earnings data.

³ Total Federal employment counts by agency 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.

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 employment estimates ¹	Relative error ²	
		Average weekly hours	Average hourly earnings
Total	0.2	-	-
Total private	.2	0.1	0.2
Mining	2.6	1.0	1.3
Construction	1.4	.2	.5
Manufacturing	.8	.1	.2
Durable goods	.6	.1	.3
Nondurable goods	.9	.1	.2
Transportation and public utilities	.7	.7	.6
Wholesale trade	1.1	.2	.4
Retail trade	.5	.2	.4
Finance, insurance, and real estate	.5	.2	.4
Services	.4	.4	.6
Government ³	.4	-	-

¹ The average percent revision in employment for the 1985-89 benchmarks.

² Relative errors relate to 1982 data.

³ Data 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.

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 estimates. (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

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.

the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas. Defini-

tions 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	76,100	75,200	Nondurable goods—Continued		
Total private	59,700	57,100	Printing and publishing	2,100	2,000
Goods-producing industries	21,700	21,100	Chemicals and allied products	2,600	2,800
Mining	3,700	3,400	Petroleum and coal products	1,200	1,200
Oil and gas extraction	3,100	2,800	Rubber and misc. plastics products	1,600	1,600
Construction	13,800	14,600	Leather and leather products	1,400	1,300
General building contractors	5,200	5,400	Service-producing industries	71,200	69,300
Manufacturing	16,700	17,700	Transportation and public utilities	14,500	12,900
Durable goods	12,600	11,600	Transportation	12,600	10,500
Lumber and wood products	2,100	1,900	Communications and public utilities	5,500	4,900
Furniture and fixtures	1,600	1,600	Wholesale trade	7,800	7,100
Stone, clay, and glass products	1,500	1,500	Durable goods	5,600	4,900
Primary metal industries	4,000	3,800	Nondurable goods	4,900	4,300
Blast furnaces and basic steel products	3,000	2,700	Retail trade	35,200	30,800
Fabricated metal products	2,200	2,100	General merchandise stores	22,300	19,800
Industrial machinery and equipment	5,600	6,600	Food stores	7,000	6,100
Electronic and other electrical equipment	4,200	4,100	Automotive dealers and service stations	4,000	4,900
Transportation equipment	7,200	6,700	Eating and drinking places	8,800	7,700
Motor vehicles and equipment	6,000	6,100	Finance, insurance, and real estate	8,000	6,700
Instruments and related products	2,000	2,100	Finance	4,000	3,500
Miscellaneous manufacturing	1,800	1,600	Insurance	3,600	3,000
Nondurable goods	8,300	8,200	Real estate	4,300	3,800
Food and kindred products	5,200	4,900	Services	31,000	32,100
Tobacco products	1,400	1,300	Business services	11,000	10,400
Textile mill products	1,800	1,600	Health services	8,500	7,800
Apparel and other textile products	4,300	4,000	Government	51,900	45,800
Paper and allied products	1,500	1,400	Federal	16,100	11,600
			State	20,800	16,900
			Local	35,600	36,200

NOTE: Data are based on differences from December 1984 through December 1989.

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

COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment and household survey labor input data and from measures of compensation and output supplied by the U.S. Department of Commerce and the Federal Reserve Board.

CONCEPTS

Hours of wage and salary workers in nonagricultural establishments (table C-9) refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers. For productivity and cost measures (tables C-10, 11), hours of all persons include hours of employees, proprietors, and unpaid family workers. Labor input is measured by hours at the work site.

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 (productivity) measure changes in the volume of goods and services produced per hour at work.

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 by 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, capital consump-

tion allowances, interest, rental income of persons, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross product originating in the sector 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 and capital consumption 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 general government, 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. All measures are seasonally adjusted.

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 and 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, 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

Monthly labor force and employment estimates for two large sub-State areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained directly from the CPS. Estimates for all other sub-State areas, more than 2,600 labor market areas (LMA's), are prepared through indirect estimation techniques, described below.

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 (benchmarked) 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 calculated and published twice a year. Revisions of historical data will continue to be made once a year, coincident with benchmark revisions.

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 1982 annual average 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 1982 annual average 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 workers for the

decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

BLS has developed an extension of 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 and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter. This extension was also used for the seasonal adjustment of many of the establishment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

Revised seasonally adjusted establishment-based series based on the experience through May 1990, new seasonal adjustment factors for August 1990–April 1991, and a description of the current seasonal adjustment procedure appear in the September 1990 issue of *Employment and Earnings*.

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