



EMPLOYMENT AND EARNINGS

April 1988

U.S. Department of Labor
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U.S. DEPARTMENT OF LABOR

Ann McLaughlin, Secretary

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Calendar of Features

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

Household data

Annual averages Jan.
Union affiliation Jan.

Revised seasonally adjusted series Jan., Feb.

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

Establishment data

National annual averages:
Industry divisions (preliminary) Jan.

Industry detail (final) Mar.

Women employees (final) Mar.

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

Revised historical national data Supplement¹

State and area annual averages May

Area definitions May

State and area labor force data

Annual averages May

¹ The latest supplement was published in July 1987.

Employment and Earnings

Vol. 35 No. 4 April 1988

Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, March 1988

Nonagricultural payroll employment continued to rise in March. The overall jobless rate was 5.5 percent, and the civilian worker rate was 5.6 percent; each has declined four-tenths of a percentage point in the last 5 months and nearly a point over the past year.

Payroll employment, as measured by the monthly survey of business establishments, rose by 260,000 in March, seasonally adjusted, about in line with the average gains over the past year. On the other hand, total civilian employment, as estimated through the survey of households, showed a drop of 300,000, returning to the January level.

Unemployment

The number of unemployed persons, at 6.8 million in March, seasonally adjusted, and the civilian worker unemployment rate, at 5.6 percent, were little changed from February. Both measures, however, have been drifting down in recent months. Compared with a year ago, the level of unemployment has fallen by a million, and the civilian worker unemployment rate has declined nearly a full percentage point. More than two-thirds of the over-the-year improvement in total unemployment was attributable to a drop in the number of unemployed persons who had lost their last jobs. (See tables A-33 and A-41.)

The unemployment rate for adult women fell four-tenths of a percentage point to 4.8 percent in March, the only significant decline among the major demographic groups. Jobless rates for adult men (4.9 percent), whites (4.7 percent), blacks (12.8 percent) and Hispanics (8.2 percent) showed little or no change, while the rate for teenagers (16.5 percent) rose. (See tables A-33 and A-34.)

Civilian employment and the labor force

Total civilian employment showed a decline of 300,000 in March, returning to the January level of 114.1 million, seasonally adjusted. The March movement followed gains averaging 300,000 per month from September to February. The percentage of the total civilian population that was working—the employment–population ratio—slipped to 62.0 percent, slightly below recent record highs. (See table A-33.)

After seasonal adjustment, the civilian labor force declined by 450,000 in March to 120.9 million. Accordingly, the

labor force participation rate fell 0.3 percentage point to 65.7 percent. The March labor force was 1.6 million higher than a year earlier. (See table A-33.)

Discouraged workers

The number of discouraged workers—persons who want to work but do not look for jobs because they believe that they cannot find any—rose slightly, by about 115,000, to 1.0 million in the first quarter of 1988. Over the previous 4 quarters, the number of discouraged workers had declined by a total of 230,000. Men accounted for most of the first quarter rise. (See table A-53.)

Industry payroll employment

Total nonagricultural payroll employment rose by 260,000 in March to a seasonally adjusted level of 104.6 million. The largest over-the-month gains occurred in the services and construction industries. Manufacturing employment was unchanged. (See table B-4.)

The services industry, with widespread employment gains totaling 85,000, again led the over-the-month growth in the service-producing sector. Wholesale trade, which has grown steadily since July, added 15,000 jobs in March, almost entirely in its durable goods component. Retail trade, which had added a quarter of a million jobs on a seasonally adjusted basis during the first 2 months of this year, showed no further employment growth in March. In finance, insurance, and real estate, a rise in real estate payrolls (10,000) was partially offset by the second straight monthly decline in finance (5,000).

In the goods-producing sector, construction posted a second strong over-the-month gain (80,000). Since September, employment in that industry has risen by 270,000. Manufacturing employment, which has slowed in recent months following strong growth in the second half of 1987, was unchanged in March. Job gains in machinery and printing and publishing were offset by small declines in other manufacturing industries.

Weekly hours

The average workweek for all production or nonsupervisory workers on private nonagricultural payrolls decreased

0.2 hour in March to 34.6 hours, seasonally adjusted. The manufacturing workweek edged down 0.1 hour to 40.9. This is the same level as a year earlier, but slightly below the historically high levels of last fall. Factory overtime was unchanged in March at 3.7 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls declined by 0.4 percent to 122.9 (1977=100), seasonally adjusted. The manufacturing index, at 95.3, was little changed from February. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls rose by 0.7 percent in March, seasonally adjusted, while average weekly

earnings were virtually unchanged. Prior to seasonal adjustment, average hourly earnings edged up 2 cents to \$9.20, while average weekly earnings decreased 23 cents, reflecting a small decline in the workweek. (See tables C-1 and C-7.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 177.1 (1977=100) in March, seasonally adjusted, an increase of 0.4 percent from February. For the 12 months ended in March, the increase was 2.9 percent. In dollars of constant purchasing power, the HEI decreased 1.1 percent during the 12-month period ending in February. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in manufacturing overtime and interindustry employment shifts. (See table C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
April	May 6	July	August 5
May	June 3	August	September 2
June	July 8	September	October 7

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1954 to date

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force								Not in labor force	
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number		Percent of labor force
						Total	Agriculture	Nonagricultural industries			
Annual averages											
1954	110,463	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,678
1955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660
1956	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402
1957	114,213	68,877	60.3	66,019	1,948	64,071	5,847	56,123	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	48,960
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	4,887	63,076	4,070	5.5	50,583
1964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394
1965	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058
1966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288
1967	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527
1968	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291
1969	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602
1970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834
1972 ¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091
1973 ¹	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667
1974	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171
1975	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377
1976	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991
1977	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025
1978 ¹	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
1980	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460
1982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067
1983	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665
1984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986 ¹	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
1987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
Monthly data, seasonally adjusted²											
1987:											
March	183,915	120,982	65.8	113,191	1,736	111,455	3,237	108,218	7,791	6.4	62,933
April	184,079	121,098	65.8	113,541	1,735	111,806	3,250	108,556	7,557	6.2	62,981
May	184,259	121,633	66.0	114,060	1,726	112,334	3,269	109,065	7,573	6.2	62,626
June	184,421	121,326	65.8	114,018	1,718	112,300	3,192	109,108	7,308	6.0	63,095
July	184,605	121,810	65.9	114,359	1,720	112,639	3,212	109,427	7,251	6.0	62,995
August	184,738	122,042	66.1	114,786	1,736	113,050	3,143	109,907	7,256	5.9	62,696
September	184,904	121,706	65.8	114,615	1,743	112,872	3,184	109,688	7,091	5.8	63,198
October	185,052	122,126	66.0	114,951	1,741	113,210	3,249	109,961	7,177	5.9	62,924
November	185,225	122,349	66.1	115,259	1,755	113,504	3,172	110,332	7,090	5.8	62,876
December	185,370	122,472	66.1	115,494	1,750	113,744	3,215	110,529	6,978	5.7	62,896
1988:											
January	185,571	122,924	66.2	115,878	1,749	114,129	3,293	110,836	7,046	5.7	62,647
February	185,705	123,084	66.3	116,145	1,736	114,409	3,228	111,182	6,938	5.6	62,621
March	185,847	122,639	66.0	115,839	1,736	114,103	3,204	110,899	6,801	5.5	63,208

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

² The population and Armed Forces figures are not adjusted for

seasonal variation.

NOTE: Revisions of seasonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most recent 5-year period are made at the end of each calendar year.

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1977 to date

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
Annual averages												
MEN												
1977	76,756	59,959	78.1	56,291	1,563	54,728	2,671	52,057	3,667	6.1	16,797	
1978 ¹	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956	
1979	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983	84,064	64,580	76.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 ¹	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
Monthly data, seasonally adjusted²												
1987:												
March	88,186	67,590	76.6	63,263	1,575	61,688	2,582	59,106	4,327	6.4	20,596	
April	88,271	67,604	76.6	63,390	1,575	61,815	2,608	59,207	4,214	6.2	20,667	
May	88,361	67,802	76.7	63,543	1,566	61,977	2,594	59,383	4,259	6.3	20,559	
June	88,442	67,623	76.5	63,543	1,559	61,984	2,530	59,454	4,080	6.0	20,819	
July	88,534	67,671	76.4	63,711	1,561	62,150	2,547	59,603	3,960	5.9	20,863	
August	88,598	67,937	76.7	63,916	1,575	62,341	2,489	59,852	4,021	5.9	20,661	
September	88,683	67,776	76.4	63,949	1,581	62,368	2,547	59,821	3,827	5.6	20,907	
October	88,756	67,947	76.6	64,048	1,580	62,468	2,569	59,899	3,899	5.7	20,809	
November	88,849	68,019	76.6	64,174	1,593	62,581	2,491	60,090	3,845	5.7	20,830	
December	88,924	68,030	76.5	64,245	1,589	62,656	2,523	60,133	3,785	5.6	20,894	
1988:												
January	89,033	68,243	76.6	64,396	1,588	62,808	2,593	60,216	3,847	5.6	20,790	
February	89,099	68,343	76.7	64,636	1,577	63,059	2,510	60,548	3,707	5.4	20,756	
March	89,168	68,148	76.4	64,332	1,573	62,759	2,474	60,285	3,816	5.6	21,020	
Annual averages												
WOMEN												
1977	83,932	40,705	48.5	37,381	92	37,289	612	36,677	3,324	8.2	43,227	
1978 ¹	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
1979	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 ¹	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
Monthly data, seasonally adjusted²												
1987:												
March	95,729	53,392	55.8	49,928	161	49,767	655	49,112	3,464	6.5	42,337	
April	95,808	53,494	55.8	50,151	160	49,991	642	49,349	3,343	6.2	42,314	
May	95,898	53,831	56.1	50,517	160	50,357	675	49,682	3,314	6.2	42,067	
June	95,979	53,703	56.0	50,475	159	50,316	662	49,654	3,228	6.0	42,276	
July	96,071	53,939	56.1	50,648	159	50,489	665	49,824	3,291	6.1	42,132	
August	96,140	54,105	56.3	50,870	161	50,709	654	50,055	3,235	6.0	42,035	
September	96,221	53,930	56.0	50,866	162	50,504	637	49,867	3,264	6.1	42,291	
October	96,295	54,181	56.3	50,903	161	50,742	680	50,062	3,278	6.1	42,114	
November	96,376	54,330	56.4	51,085	162	50,923	681	50,242	3,245	6.0	42,046	
December	96,446	54,442	56.4	51,249	161	51,088	692	50,396	3,193	5.9	42,004	
1988:												
January	96,538	54,681	56.6	51,482	161	51,321	700	50,621	3,200	5.9	41,857	
February	96,606	54,740	56.7	51,509	159	51,350	717	50,633	3,231	5.9	41,866	
March	96,679	54,491	56.4	51,507	163	51,344	730	50,614	2,985	5.5	42,188	

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

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

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1954 to date

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
1954	108,321	63,643	58.8	60,109	3,532	5.5	5.3	6.0
1955	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
1956	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 ¹	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 ¹	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 ¹	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 ¹	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 ¹	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 ¹	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
Monthly data, seasonally adjusted²								
1987:								
March	182,179	119,246	65.5	111,455	7,791	6.5	6.6	6.5
April	182,344	119,363	65.5	111,806	7,557	6.3	6.4	6.3
May	182,533	119,907	65.7	112,334	7,573	6.3	6.4	6.2
June	182,703	119,608	65.5	112,300	7,308	6.1	6.2	6.0
July	182,885	119,890	65.6	112,639	7,251	6.0	6.0	6.1
August	183,002	120,306	65.7	113,050	7,256	6.0	6.1	6.0
September	183,161	119,963	65.5	112,872	7,091	5.9	5.8	6.1
October	183,311	120,387	65.7	113,210	7,177	6.0	5.9	6.1
November	183,470	120,594	65.7	113,504	7,090	5.9	5.8	6.0
December	183,620	120,722	65.7	113,744	6,978	5.8	5.7	5.9
1988:								
January	183,822	121,175	65.9	114,129	7,046	5.8	5.8	5.9
February	183,969	121,348	66.0	114,409	6,938	5.7	5.6	5.9
March	184,111	120,903	65.7	114,103	6,801	5.6	5.7	5.5

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	March 1966										
	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	164,111	119,957	65.2	112,867	7,090	5.9	64,154	28,046	9,576	3,287	23,285
16 to 19 years	14,591	7,243	49.6	6,009	1,234	17.0	7,346	390	6,424	41	492
16 to 17 years	7,393	2,900	39.2	2,364	535	18.5	4,493	89	4,211	11	183
18 to 19 years	7,198	4,343	60.3	3,645	899	16.1	2,855	301	2,213	31	309
20 to 24 years	18,586	14,317	77.0	12,961	1,356	9.5	4,269	1,552	1,958	121	838
25 to 54 years	100,748	83,362	82.7	79,365	3,997	4.8	17,387	12,125	1,148	1,108	3,005
25 to 34 years	42,538	35,358	83.1	33,283	2,074	5.9	7,181	5,041	779	295	1,085
25 to 29 years	21,311	17,721	83.2	18,646	1,075	8.1	3,590	2,413	503	124	551
30 to 34 years	21,226	17,838	83.1	16,837	1,000	5.7	3,591	2,829	277	172	513
35 to 44 years	34,448	29,109	84.5	27,830	1,278	4.4	5,340	3,767	289	380	923
35 to 39 years	18,707	15,771	84.3	15,034	737	4.7	2,936	2,145	173	152	481
40 to 44 years	15,742	13,338	84.7	12,796	542	4.1	2,404	1,836	118	209	442
45 to 54 years	23,762	18,895	79.5	18,251	644	3.4	4,867	3,317	80	453	1,017
45 to 49 years	12,754	10,501	82.3	10,136	366	3.5	2,253	1,586	47	197	423
50 to 54 years	11,007	8,393	76.3	8,116	278	3.3	2,614	1,731	33	255	594
55 to 64 years	21,682	11,772	54.3	11,354	419	3.6	9,909	4,804	30	781	4,295
55 to 59 years	10,864	7,105	65.4	6,841	264	3.7	3,759	2,137	22	376	1,225
60 to 64 years	10,817	4,667	43.1	4,513	154	3.3	6,150	2,667	8	405	3,070
65 years and over	28,504	3,264	11.4	3,178	86	2.8	25,241	9,175	15	1,216	14,835
65 to 69 years	9,807	1,932	19.7	1,871	60	3.1	7,875	2,965	6	291	4,612
70 to 74 years	7,687	828	10.8	809	20	2.4	6,859	2,578	6	222	4,053
75 years and over	11,011	504	4.6	498	6	1.2	10,507	3,632	3	703	6,170
Men											
16 years and over	87,595	65,948	75.3	61,812	4,136	6.3	21,648	626	4,878	1,722	14,421
16 to 19 years	7,336	3,709	50.6	3,005	704	19.0	3,627	19	3,309	27	273
16 to 17 years	3,778	1,489	39.4	1,192	297	19.9	2,287	4	2,181	5	97
18 to 19 years	3,560	2,220	62.4	1,813	407	18.3	1,339	14	1,128	22	176
20 to 24 years	9,007	7,484	83.1	6,736	748	10.0	1,522	57	1,072	75	318
25 to 54 years	49,227	45,966	93.4	43,227	2,338	5.1	3,262	255	478	750	1,779
25 to 34 years	20,887	19,804	93.9	18,391	1,212	6.2	1,284	101	349	216	617
25 to 29 years	10,451	9,766	93.4	9,138	628	6.4	685	44	234	94	314
30 to 34 years	10,436	9,838	94.3	9,253	585	5.9	599	58	116	122	303
35 to 44 years	16,839	15,847	94.1	15,118	729	4.6	992	84	99	252	557
35 to 39 years	9,174	8,653	94.3	8,225	428	4.9	521	44	61	111	305
40 to 44 years	7,665	7,194	93.9	6,893	301	4.2	471	40	37	141	252
45 to 54 years	11,501	10,515	91.4	10,118	398	3.8	986	70	30	282	804
45 to 49 years	6,196	5,780	93.3	5,558	222	3.8	416	31	18	122	245
50 to 54 years	5,305	4,735	89.3	4,560	175	3.7	570	39	12	180	359
55 to 64 years	10,219	6,859	67.1	6,568	293	4.3	3,360	94	18	426	2,822
55 to 59 years	5,181	4,130	79.7	3,959	172	4.2	1,051	44	15	206	786
60 to 64 years	5,037	2,728	54.2	2,608	121	4.4	2,309	50	3	220	2,038
65 years and over	11,807	1,929	16.3	1,877	52	2.7	9,877	201	2	446	9,229
65 to 69 years	4,458	1,128	25.3	1,090	38	3.3	3,330	50		149	3,130
70 to 74 years	3,296	504	15.3	491	14	2.8	2,792	58	2	99	2,634
75 years and over	4,053	297	7.3	296	1	.4	3,758	83		198	3,465
Women											
16 years and over	96,516	54,010	56.0	51,055	2,955	5.5	42,506	27,421	4,897	1,545	8,844
16 to 19 years	7,255	3,534	48.7	3,004	530	15.0	3,721	372	3,116	15	219
16 to 17 years	3,617	1,411	39.0	1,173	238	16.9	2,208	85	2,030	8	86
18 to 19 years	3,638	2,123	58.3	1,831	291	13.7	1,515	287	1,088	9	133
20 to 24 years	9,580	8,833	71.3	8,225	608	8.9	2,747	1,495	886	46	320
25 to 54 years	51,521	37,395	72.8	35,737	1,658	4.4	14,125	11,870	870	358	1,226
25 to 34 years	21,651	15,754	72.8	14,892	862	5.5	5,897	4,940	430	80	447
25 to 29 years	10,860	7,955	73.3	7,508	447	5.8	2,905	2,369	289	30	237
30 to 34 years	10,790	7,796	72.3	7,384	415	5.3	2,992	2,571	181	50	210
35 to 44 years	17,610	13,282	75.3	12,712	550	4.1	4,348	3,683	191	108	368
35 to 39 years	9,533	7,118	74.7	6,809	309	4.3	2,415	2,087	112	41	176
40 to 44 years	8,077	6,144	78.1	5,903	241	3.9	1,933	1,598	79	68	190
45 to 54 years	12,260	8,380	68.3	8,134	246	2.9	3,880	3,247	50	171	413
45 to 49 years	6,558	4,721	72.0	4,578	144	3.0	1,837	1,555	29	75	178
50 to 54 years	5,702	3,858	64.2	3,556	103	2.8	2,044	1,892	21	95	235
55 to 64 years	11,483	4,914	42.9	4,787	128	2.8	8,549	4,709	12	355	1,473
55 to 59 years	5,683	2,975	52.3	2,882	93	3.1	2,709	2,093	7	170	439
60 to 64 years	5,780	1,939	33.5	1,908	33	1.7	3,841	2,616	5	188	1,034
65 years and over	16,896	1,334	8.0	1,301	33	2.5	15,363	8,974	14	770	5,806
65 to 69 years	5,349	804	15.0	781	22	2.8	4,545	2,915	6	142	1,482
70 to 74 years	4,391	324	7.4	318	6	1.9	4,067	2,520	4	123	1,419
75 years and over	6,958	207	3.0	202	5	2.4	6,751	3,539	3	505	2,705

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

(Numbers in thousands)

Age, sex, and race	March 1988										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
WHITE											
16 years and over	157,868	103,388	65.5	98,202	5,185	5.0	54,481	24,448	7,314	2,509	20,210
16 to 19 years	11,895	6,312	53.1	5,378	934	14.8	5,583	304	4,894	31	354
16 to 17 years	5,987	2,551	42.6	2,111	439	17.2	3,436	71	3,212	6	146
18 to 19 years	5,908	3,761	63.7	3,267	494	13.1	2,147	233	1,682	25	208
20 to 24 years	15,423	12,128	78.6	11,203	924	7.6	3,295	1,207	1,543	90	456
25 to 54 years	85,849	71,567	83.4	68,651	2,918	4.1	14,282	10,253	843	840	2,346
25 to 34 years	35,823	30,078	84.0	28,630	1,448	4.8	5,745	4,158	574	232	781
25 to 29 years	17,907	15,070	84.2	14,310	760	5.0	2,837	1,960	371	108	398
30 to 34 years	17,916	15,008	83.8	14,321	687	4.8	2,908	2,198	203	123	384
35 to 44 years	29,581	25,123	84.9	24,150	973	3.9	4,458	3,246	210	271	732
35 to 39 years	15,936	13,499	84.7	12,948	553	6.6	2,437	1,812	122	116	380
40 to 44 years	13,646	11,624	85.2	11,204	420	3.6	2,022	1,431	88	155	352
45 to 54 years	20,445	16,367	80.1	15,870	497	3.0	4,078	2,849	58	337	834
45 to 49 years	10,958	9,093	83.0	8,800	293	3.2	1,884	1,362	32	145	331
50 to 54 years	9,488	7,274	76.7	7,070	204	4.0	2,214	1,522	25	193	502
55 to 64 years	19,074	10,453	54.8	10,110	342	3.3	8,621	4,308	21	597	3,696
55 to 59 years	9,507	6,315	66.4	6,097	218	3.5	3,192	1,892	15	287	998
60 to 64 years	9,567	4,137	43.2	4,013	124	3.0	5,430	2,416	6	310	2,698
65 years and over	25,627	2,927	11.4	2,860	67	2.3	22,699	8,376	14	952	13,357
65 to 69 years	8,751	1,729	19.8	1,682	46	2.7	7,022	2,681	6	211	4,125
70 to 74 years	6,899	742	10.8	727	14	1.9	6,158	2,339	6	171	3,643
75 years and over	9,977	457	4.6	451	7	1.5	9,519	3,356	3	570	5,591
Men											
16 years and over	75,677	57,570	76.1	54,429	3,141	5.5	18,107	442	3,689	1,359	12,616
16 to 19 years	5,997	3,263	54.4	2,706	557	17.1	2,733	9	2,502	21	201
16 to 17 years	3,063	1,323	43.2	1,060	263	19.9	1,741	3	1,654	3	80
18 to 19 years	2,933	1,941	66.2	1,646	295	15.2	993	6	848	18	121
20 to 24 years	7,544	6,378	84.5	5,855	523	8.2	1,166	28	848	61	229
25 to 54 years	42,465	40,034	94.3	38,261	1,774	4.4	2,431	154	327	577	1,374
25 to 34 years	17,834	16,901	94.8	15,995	906	5.4	933	58	244	167	463
25 to 29 years	8,888	8,389	94.4	7,919	470	5.8	499	19	172	81	228
30 to 34 years	8,946	8,512	95.2	8,077	435	5.1	434	39	73	86	236
35 to 44 years	14,620	13,890	95.0	13,327	562	4.0	731	58	63	189	421
35 to 39 years	7,903	7,522	95.2	7,200	322	4.3	381	31	38	84	228
40 to 44 years	6,717	6,367	94.8	6,127	240	3.8	350	27	25	105	193
45 to 54 years	10,011	9,244	92.3	8,938	306	3.3	767	38	19	221	490
45 to 49 years	5,382	5,074	94.3	4,896	178	3.5	307	15	9	91	192
50 to 54 years	4,630	4,170	90.1	4,042	128	3.1	460	23	9	130	298
55 to 64 years	9,034	6,155	68.1	5,907	248	4.0	2,879	74	11	337	2,458
55 to 59 years	4,560	3,715	81.5	3,566	148	4.0	845	28	8	159	650
60 to 64 years	4,474	2,440	54.5	2,340	100	4.1	2,034	45	3	178	1,808
65 years and over	10,637	1,740	16.4	1,701	39	2.2	8,898	178	2	363	8,354
65 to 69 years	3,993	1,012	25.3	984	27	2.7	2,981	47	117	117	2,817
70 to 74 years	2,977	458	15.4	446	11	2.4	2,520	45	2	82	2,392
75 years and over	3,667	270	7.4	270	1	.2	3,396	86		164	3,146
Women											
16 years and over	82,191	45,818	55.7	43,774	2,044	4.5	36,374	24,006	3,625	1,149	7,594
16 to 19 years	5,898	3,048	51.7	2,672	376	12.3	2,850	295	2,392	10	153
16 to 17 years	2,924	1,228	42.0	1,052	177	14.4	1,695	68	1,558	3	66
18 to 19 years	2,975	1,820	61.2	1,621	200	11.0	1,154	227	834	7	86
20 to 24 years	7,880	5,750	73.0	5,348	402	7.0	2,130	1,179	694	29	227
25 to 54 years	43,384	31,533	72.7	30,390	1,144	3.6	11,851	10,099	516	263	972
25 to 34 years	17,989	13,177	73.3	12,635	543	4.1	4,812	4,100	330	65	318
25 to 29 years	9,019	6,681	74.1	6,391	290	4.3	2,338	1,941	199	27	170
30 to 34 years	8,970	6,496	72.4	6,244	252	3.9	2,474	2,159	130	37	148
35 to 44 years	14,961	11,234	75.1	10,823	410	3.7	3,728	3,188	147	82	311
35 to 39 years	8,033	5,977	74.4	5,746	231	3.9	2,056	1,788	84	32	152
40 to 44 years	6,929	5,257	75.9	5,077	180	3.4	1,672	1,401	63	50	159
45 to 54 years	10,434	7,123	68.3	6,932	191	2.7	3,311	2,812	39	117	343
45 to 49 years	5,576	4,019	72.1	3,904	115	2.9	1,557	1,341	23	54	139
50 to 54 years	4,858	3,104	63.9	3,028	76	2.4	1,754	1,471	16	63	204
55 to 64 years	10,040	4,298	42.8	4,204	94	2.2	5,742	4,234	10	260	1,239
55 to 59 years	4,947	2,601	52.6	2,531	70	2.7	2,346	1,864	7	128	348
60 to 64 years	5,093	1,697	33.3	1,673	24	1.4	3,396	2,370	3	132	891
65 years and over	14,990	1,188	7.9	1,160	28	2.4	13,802	8,198	13	588	5,003
65 to 69 years	4,758	717	15.1	698	19	2.6	4,041	2,634	6	94	1,308
70 to 74 years	3,922	284	7.2	281	3	1.1	3,638	2,294	4	89	1,251
75 years and over	6,310	187	3.0	181	6	3.0	6,123	3,270	3	406	2,445

**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	March 1988										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
BLACK											
16 years and over	20,596	12,932	62.8	11,273	1,659	12.8	7,664	2,741	1,690	686	2,544
16 to 19 years	2,178	740	34.0	461	278	37.6	1,438	74	1,233	8	122
16 to 17 years	1,135	264	23.2	181	82	31.2	871	15	820	5	32
18 to 19 years	1,043	476	45.6	280	196	41.2	567	59	413	4	91
20 to 24 years	2,543	1,786	70.2	1,392	394	22.1	757	292	274	29	162
25 to 54 years	11,380	9,067	79.7	8,151	917	10.1	2,313	1,352	175	237	548
25 to 34 years	5,206	4,174	80.2	3,636	538	12.9	1,032	623	117	58	234
25 to 29 years	2,666	2,125	79.7	1,851	274	12.9	541	325	70	16	130
30 to 34 years	2,540	2,050	80.7	1,785	265	12.9	491	298	48	43	103
35 to 44 years	3,668	2,989	81.5	2,737	252	8.4	679	389	44	79	167
35 to 39 years	2,099	1,700	81.0	1,555	146	8.6	398	245	30	32	90
40 to 44 years	1,569	1,288	82.1	1,182	105	8.2	281	144	14	47	78
45 to 54 years	2,506	1,904	76.0	1,778	127	6.6	602	340	14	100	147
45 to 49 years	1,332	1,051	78.9	991	60	5.7	282	158	10	42	71
50 to 54 years	1,174	853	72.7	786	67	7.9	320	182	4	58	76
55 to 64 years	2,108	1,072	50.9	1,019	53	4.9	1,036	371	8	165	491
55 to 59 years	1,101	642	58.3	604	37	5.8	459	181	6	80	192
60 to 64 years	1,007	430	42.7	415	15	3.6	577	191	2	85	299
65 years and over	2,388	268	11.2	251	17	6.4	2,120	652		247	1,221
65 to 69 years	873	165	18.9	151	14	8.5	708	226		76	405
70 years and over	1,515	102	6.7	99	3	2.9	1,412	426		170	816
Men											
16 years and over	9,245	6,431	69.6	5,577	853	13.3	2,814	168	834	326	1,483
16 to 19 years	1,074	350	32.6	209	141	40.2	723	9	648	5	61
16 to 17 years	572	123	21.5	94	30	24.0	449	1	435	2	12
18 to 19 years	501	227	45.2	116	111	49.1	274	7	213	4	50
20 to 24 years	1,159	914	78.9	710	204	22.3	245	28	124	12	80
25 to 54 years	5,099	4,463	87.5	3,995	469	10.5	637	91	56	154	335
25 to 34 years	2,353	2,097	89.1	1,834	263	12.6	256	41	41	44	129
25 to 29 years	1,205	1,078	89.4	939	139	12.9	127	22	21	13	71
30 to 34 years	1,148	1,020	88.8	895	125	12.2	129	19	21	31	58
35 to 44 years	1,633	1,426	87.3	1,295	131	9.2	207	25	11	56	115
35 to 39 years	935	824	88.1	741	83	10.1	111	11	8	24	67
40 to 44 years	698	602	86.3	553	48	8.0	96	14	3	32	48
45 to 54 years	1,113	939	84.3	866	73	7.7	174	25	4	54	91
45 to 49 years	592	509	85.9	476	33	6.4	84	9	4	28	42
50 to 54 years	521	430	82.6	390	40	9.3	91	16		26	49
55 to 64 years	950	553	58.2	524	29	5.2	396	18	6	80	292
55 to 59 years	498	323	64.9	306	17	5.2	175	13	6	43	113
60 to 64 years	452	230	51.0	218	12	5.2	221	6		37	179
65 years and over	964	152	15.7	140	12	7.8	812	22		75	715
65 to 69 years	381	92	24.2	82	11	11.5	288	2		30	256
70 years and over	583	59	10.2	58	1	(¹)	524	20		44	480
Women											
16 years and over	11,352	6,501	57.3	5,696	806	12.4	4,850	2,573	856	361	1,060
16 to 19 years	1,104	390	35.3	252	137	35.3	715	65	585	3	61
16 to 17 years	563	140	25.0	88	53	37.5	422	14	385	3	20
18 to 19 years	542	249	46.0	164	85	34.0	293	52	200		41
20 to 24 years	1,384	872	63.0	682	190	21.8	512	264	150	17	82
25 to 54 years	6,281	4,604	73.3	4,156	448	9.7	1,676	1,261	119	83	213
25 to 34 years	2,853	2,077	72.8	1,802	275	13.2	777	582	76	14	105
25 to 29 years	1,461	1,047	71.7	912	135	12.9	414	303	49	3	59
30 to 34 years	1,392	1,030	74.0	890	140	13.6	362	279	27	12	45
35 to 44 years	2,035	1,562	76.8	1,442	120	7.7	472	364	33	23	52
35 to 39 years	1,164	876	75.3	814	63	7.2	287	234	22	8	23
40 to 44 years	871	686	78.8	629	57	8.3	185	130	11	15	30
45 to 54 years	1,393	965	69.3	911	54	5.6	427	315	10	46	56
45 to 49 years	740	542	73.2	515	27	4.9	198	149	6	14	29
50 to 54 years	653	423	64.9	396	27	6.5	229	166	4	32	27
55 to 64 years	1,158	519	44.8	495	24	4.6	639	353	2	85	199
55 to 59 years	603	319	52.9	298	21	6.4	284	168		37	79
60 to 64 years	555	200	36.1	197	4	1.8	355	185	2	48	120
65 years and over	1,424	116	8.1	111	5	4.5	1,308	630		172	506
65 to 69 years	492	73	14.8	69	3	(¹)	420	224		46	149
70 years and over	932	43	4.6	41	2	(¹)	888	406		126	356

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	March 1988								Not in labor force	
	Civilian noninstitutional population	Civilian labor force						Percent of labor force		
		Total	Percent of population	Employed			Unemployed			
				Total	Agriculture	Nonagricultural industries	Number			
TOTAL										
16 years and over	26,243	16,569	63.1	14,664	151	14,513	1,905	11.5	9,674	
16 to 19 years	2,696	931	34.5	631	10	621	300	32.2	1,765	
16 to 17 years	1,406	349	24.8	253	2	251	96	27.5	1,057	
18 to 19 years	1,290	582	45.1	378	8	370	204	35.1	708	
20 to 24 years	3,163	2,189	69.2	1,757	24	1,733	432	19.7	974	
25 to 54 years	14,901	11,793	79.1	10,715	80	10,637	1,079	9.1	3,106	
25 to 34 years	6,715	5,280	78.6	4,654	41	4,613	626	11.9	1,436	
25 to 29 years	3,404	2,651	77.9	2,337	27	2,310	314	11.8	753	
30 to 34 years	3,311	1,398	42.2	2,316	13	2,303	311	22.3	683	
35 to 44 years	4,867	3,985	81.9	3,680	21	3,659	305	7.7	882	
35 to 39 years	2,771	2,271	82.0	2,088	9	2,080	183	8.1	499	
40 to 44 years	2,096	1,714	81.8	1,592	12	1,579	122	7.1	382	
45 to 54 years	3,317	2,528	76.2	2,381	16	2,365	147	5.8	788	
45 to 49 years	1,797	1,408	78.4	1,336	9	1,327	74	5.3	389	
50 to 54 years	1,519	1,120	73.7	1,046	8	1,038	74	6.6	400	
55 to 64 years	2,607	1,320	50.6	1,243	21	1,223	76	5.8	1,288	
55 to 59 years	1,357	790	58.2	743	7	736	46	5.9	568	
60 to 64 years	1,250	530	42.4	500	13	487	30	5.7	720	
65 years and over	2,877	336	11.7	318	18	300	18	5.5	2,541	
65 to 69 years	1,056	203	19.2	189	7	183	13	6.4	852	
70 to 74 years	787	86	10.9	81	8	73	4	4.7	701	
75 years and over	1,035	47	4.5	47	3	44	1	(¹)	988	
Men										
16 years and over	11,918	8,377	70.3	7,383	127	7,256	994	11.9	3,541	
16 to 19 years	1,339	446	33.3	299	5	294	147	32.9	894	
16 to 17 years	713	166	23.3	132	2	130	34	20.5	547	
18 to 19 years	626	280	44.6	167	3	164	112	40.2	347	
20 to 24 years	1,463	1,107	75.6	881	17	864	226	20.4	356	
25 to 54 years	6,763	5,931	87.7	5,367	72	5,296	565	9.5	831	
25 to 34 years	3,054	2,703	88.5	2,396	35	2,361	307	11.4	351	
25 to 29 years	1,563	1,377	88.1	1,220	25	1,195	157	11.4	186	
30 to 34 years	1,491	1,326	88.9	1,176	10	1,166	149	11.3	165	
35 to 44 years	2,219	1,957	88.2	1,791	20	1,772	166	8.5	261	
35 to 39 years	1,271	1,130	88.9	1,025	7	1,018	105	9.3	140	
40 to 44 years	948	827	87.2	766	12	753	61	7.4	121	
45 to 54 years	1,490	1,271	85.3	1,180	17	1,163	92	7.2	219	
45 to 49 years	815	706	86.7	662	9	653	45	6.3	109	
50 to 54 years	675	565	83.7	518	8	510	47	8.3	110	
55 to 64 years	1,164	704	59.4	660	18	642	44	6.3	480	
55 to 59 years	621	416	66.9	392	6	387	23	5.6	205	
60 to 64 years	583	288	51.2	267	12	255	21	7.2	275	
65 years and over	1,169	190	16.2	176	15	161	13	7.0	980	
65 to 69 years	465	116	25.0	106	6	100	10	8.7	348	
70 to 74 years	318	46	14.5	44	6	38	2	(¹)	272	
75 years and over	387	27	7.0	26	3	23	1	(¹)	360	
Women										
16 years and over	14,325	8,192	57.2	7,281	24	7,257	911	11.1	6,133	
16 to 19 years	1,357	485	35.8	332	5	327	154	31.7	872	
16 to 17 years	693	183	26.3	121	-	121	62	33.8	511	
18 to 19 years	663	302	45.6	210	5	206	92	30.4	361	
20 to 24 years	1,700	1,083	63.7	877	7	870	206	19.0	617	
25 to 54 years	8,138	5,862	72.0	5,348	8	5,341	514	8.8	2,275	
25 to 34 years	3,662	2,577	70.4	2,257	6	2,252	319	12.4	1,085	
25 to 29 years	1,841	1,274	69.2	1,117	2	1,115	157	12.3	567	
30 to 34 years	1,820	1,302	71.5	1,140	3	1,137	162	12.4	518	
35 to 44 years	2,649	2,028	76.6	1,889	2	1,887	139	6.9	620	
35 to 39 years	1,500	1,141	76.1	1,063	2	1,062	78	6.8	359	
40 to 44 years	1,148	887	77.3	826	-	826	61	6.9	261	
45 to 54 years	1,827	1,257	68.8	1,202	-	1,202	55	4.4	570	
45 to 49 years	982	702	71.5	674	-	674	29	4.1	280	
50 to 54 years	844	555	65.7	528	-	528	27	4.8	290	
55 to 64 years	1,423	616	43.3	584	3	581	32	5.2	807	
55 to 59 years	736	374	50.8	351	2	349	23	6.1	362	
60 to 64 years	687	242	35.2	233	1	232	9	3.8	445	
65 years and over	1,708	147	8.6	141	3	139	5	3.5	1,561	
65 to 69 years	591	87	14.7	83	3	83	3	3.9	504	
70 to 74 years	469	40	8.5	37	2	35	2	(¹)	429	
75 years and over	648	20	3.1	21	-	21	-	(¹)	628	

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	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
TOTAL								
Civilian noninstitutional population	182,179	184,111	79,303	80,260	88,321	89,261	14,555	14,591
Civilian labor force	118,353	119,957	61,693	62,238	49,374	50,476	7,287	7,243
Percent of population	65.0	65.2	77.8	77.5	55.9	56.5	50.1	49.6
Employed	110,229	112,867	57,752	58,807	46,531	48,051	5,946	6,009
Agriculture	2,932	2,902	2,201	2,109	530	575	202	218
Nonagricultural industries	107,297	109,964	55,551	56,697	46,001	47,476	5,745	5,791
Unemployed	8,124	7,090	3,941	3,432	2,843	2,425	1,341	1,234
Unemployment rate	6.9	5.9	6.4	5.5	5.8	4.8	18.4	17.0
Not in labor force	63,826	64,154	17,610	18,021	38,948	38,785	7,268	7,348
White								
Civilian noninstitutional population	156,561	157,868	68,971	69,680	75,654	76,293	11,937	11,895
Civilian labor force	102,137	103,388	53,936	54,307	41,834	42,769	6,367	6,312
Percent of population	65.2	65.5	78.2	77.9	55.3	56.1	53.3	53.1
Employed	96,032	98,202	50,850	51,723	39,839	41,101	5,343	5,378
Agriculture	2,758	2,751	2,061	1,987	498	555	198	208
Nonagricultural industries	93,275	95,452	48,788	49,735	39,341	40,546	5,145	5,170
Unemployed	6,105	5,185	3,086	2,584	1,995	1,668	1,024	934
Unemployment rate	6.0	5.0	5.7	4.8	4.8	3.9	16.1	14.8
Not in labor force	54,424	54,481	15,035	15,374	33,819	33,524	5,570	5,583
Black								
Civilian noninstitutional population	20,249	20,596	8,020	8,171	10,074	10,247	2,155	2,178
Civilian labor force	12,687	12,932	5,949	6,081	5,971	6,112	768	740
Percent of population	62.7	62.8	74.2	74.4	59.3	59.6	35.6	34.0
Employed	10,927	11,273	5,236	5,369	5,211	5,443	481	461
Agriculture	113	120	98	101	15	12	2	7
Nonagricultural industries	10,814	11,153	5,139	5,267	5,195	5,432	479	454
Unemployed	1,760	1,659	713	712	760	668	287	278
Unemployment rate	13.9	12.8	12.0	11.7	12.7	10.9	37.4	37.6
Not in labor force	7,561	7,664	2,071	2,090	4,103	4,135	1,387	1,438

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	March 1988									
	Civilian noninstitutional population	Civilian labor force								Percent of labor force
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	15,987	7,492	46.9	6,621	1,134	5,487	871	114	757	11.6
16 to 19 years	11,228	4,753	42.3	4,054	390	3,664	699	60	639	14.7
20 to 24 years	4,759	2,739	57.6	2,567	744	1,823	172	54	118	6.3
High school	8,766	3,513	40.1	2,911	205	2,706	602	47	556	17.1
College	7,221	3,979	55.1	3,710	929	2,781	269	68	201	6.8
Full-time students	6,240	3,107	49.8	2,889	430	2,459	218	42	176	7.0
Part-time students	981	872	68.9	821	499	322	51	26	25	5.8
Men, 16 to 24 years	8,159	3,740	45.8	3,233	598	2,634	507	61	447	13.6
16 to 19 years	5,707	2,377	41.8	1,974	208	1,767	402	28	374	16.9
20 to 24 years	2,452	1,363	55.6	1,258	391	868	105	33	72	7.7
High school	4,605	1,835	39.8	1,486	129	1,357	349	23	326	19.0
College	3,554	1,905	53.6	1,747	470	1,277	158	38	120	8.3
Full-time students	3,118	1,505	48.3	1,373	238	1,135	131	24	108	8.7
Part-time students	436	400	91.9	373	231	142	27	15	13	6.8
Women, 16 to 24 years	7,828	3,752	47.9	3,388	536	2,852	384	53	310	9.7
16 to 19 years	5,521	2,376	43.0	2,080	182	1,898	296	32	265	12.5
20 to 24 years	2,307	1,376	59.6	1,308	353	955	87	22	48	4.9
High school	4,161	1,678	40.3	1,425	76	1,349	253	24	230	15.1
College	3,667	2,074	56.5	1,963	460	1,504	110	30	81	5.3
Full-time students	3,122	1,602	51.3	1,516	192	1,324	87	18	88	5.4
Part-time students	545	471	86.5	448	268	180	24	12	12	5.1
White										
Total, 16 to 24 years	13,089	6,532	49.9	5,877	1,029	4,848	655	80	575	10.0
16 to 19 years	9,119	4,170	45.7	3,634	356	3,278	536	47	489	12.9
20 to 24 years	3,970	2,362	59.5	2,243	673	1,570	119	33	86	5.0
Men	6,661	3,261	49.0	2,869	549	2,320	393	40	353	12.0
Women	6,429	3,271	50.9	3,008	480	2,528	262	40	223	8.0
High school	6,998	3,066	43.8	2,600	185	2,415	466	40	426	15.2
College	6,093	3,465	56.9	3,277	844	2,433	189	39	149	5.4
Full-time students	5,255	2,707	51.5	2,548	389	2,159	159	28	133	5.9
Part-time students	838	758	90.4	729	454	274	30	13	16	3.9
Black										
Total, 16 to 24 years	2,191	695	31.7	497	69	428	198	32	165	28.4
16 to 19 years	1,688	452	26.8	302	23	279	150	13	137	33.2
20 to 24 years	506	243	48.0	195	46	150	47	19	28	19.5
Men	1,100	342	31.1	234	29	206	108	19	89	31.5
Women	1,092	353	32.3	263	40	223	90	14	76	25.5
High school	1,453	355	24.4	234	14	220	120	6	114	33.9
College	738	340	46.0	283	55	228	77	26	51	22.7
Full-time students	636	267	42.0	208	29	179	59	18	43	22.1
Part-time students	102	73	71.2	55	28	29	18	11	6	(9)
Hispanic origin										
Total, 16 to 24 years	1,158	487	40.3	387	92	294	80	13	68	17.2
16 to 19 years	650	262	33.1	222	28	195	59	5	55	21.1
20 to 24 years	308	185	60.2	164	65	99	21	8	13	11.4
Men	568	232	40.8	194	50	144	38	5	33	16.3
Women	589	235	39.9	193	42	150	43	8	35	18.2
High school	743	239	32.2	160	28	132	60	8	51	24.9
College	415	228	54.9	207	65	142	21	5	16	9.1
Full-time students	337	159	47.2	145	24	121	14	2	12	8.8
Part-time students	77	69	88.9	62	41	21	7	2	4	(9)

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	March 1988									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL NOT ENROLLED										
Total, 16 to 24 years	17,190	14,067	81.8	12,349	10,646	1,703	1,719	1,527	192	12.2
16 to 19 years	3,363	2,489	74.0	1,955	1,495	460	535	464	71	21.5
20 to 24 years	13,827	11,578	83.7	10,394	9,151	1,243	1,184	1,063	121	10.2
Less than 4 years of high school	4,101	2,605	63.5	1,957	1,609	348	648	561	87	24.9
4 years of high school	8,838	7,504	84.9	6,640	5,677	963	864	783	81	11.5
1 to 3 years of college	2,704	2,469	91.3	2,338	2,054	283	131	108	23	5.3
4 years of college or more	1,547	1,489	96.3	1,414	1,306	108	75	75	-	5.1
Men, 16 to 24 years	8,184	7,453	91.1	8,508	5,843	666	945	889	56	12.7
16 to 19 years	1,629	1,332	81.8	1,031	836	195	302	271	31	22.6
20 to 24 years	6,555	6,121	93.4	5,477	5,007	470	643	618	25	10.5
Less than 4 years of high school	2,128	1,712	80.4	1,297	1,128	168	415	384	31	24.2
4 years of high school	4,230	3,971	93.9	3,538	3,177	361	433	416	17	10.9
1 to 3 years of college	1,157	1,111	96.0	1,054	951	103	57	49	8	5.1
4 years of college or more	668	660	98.7	620	586	33	40	40	-	6.1
Women, 16 to 24 years	9,006	6,614	73.4	5,841	4,803	1,037	774	638	135	11.7
16 to 19 years	1,734	1,157	66.7	924	659	265	233	193	40	20.2
20 to 24 years	7,272	5,457	75.0	4,917	4,144	773	540	445	96	9.9
Less than 4 years of high school	1,973	693	45.3	660	480	180	233	178	56	26.1
4 years of high school	4,607	3,533	76.7	3,102	2,500	602	431	366	65	12.2
1 to 3 years of college	1,547	1,358	87.8	1,284	1,104	180	74	59	15	5.4
4 years of college or more	879	829	94.4	794	719	75	35	35	-	4.2
White										
Total, 16 to 24 years	14,228	11,908	83.7	10,705	9,316	1,389	1,203	1,067	136	10.1
16 to 19 years	2,776	2,142	77.2	1,744	1,350	394	397	353	45	18.6
20 to 24 years	11,453	9,766	85.3	8,960	7,966	995	806	714	91	8.2
Men	6,879	6,380	92.7	5,692	5,176	516	687	648	40	10.8
Women	7,349	5,528	75.2	5,012	4,140	873	516	420	96	9.3
Less than 4 years of high school	3,276	2,184	66.6	1,719	1,439	280	465	405	60	21.3
4 years of high school	7,325	8,331	86.4	5,740	4,949	791	591	537	54	9.3
1 to 3 years of college	2,235	2,047	91.6	1,959	1,742	217	89	67	22	4.3
4 years of college or more	1,392	1,346	96.7	1,288	1,186	101	59	59	-	4.4
Black										
Total, 16 to 24 years	2,529	1,631	64.5	1,356	1,103	252	475	429	46	25.9
16 to 19 years	492	288	58.5	180	112	67	128	106	22	44.5
20 to 24 years	2,037	1,543	75.8	1,196	991	205	347	323	24	22.5
Men	1,132	922	81.4	684	560	124	237	222	15	25.7
Women	1,397	909	65.1	671	543	128	238	206	32	26.2
Less than 4 years of high school	722	361	50.0	191	141	50	170	149	21	47.1
4 years of high school	1,313	1,021	77.8	784	614	150	256	233	24	25.1
1 to 3 years of college	382	343	89.8	306	257	49	36	35	1	10.6
4 years of college or more	112	106	94.7	94	91	3	12	12	-	11.4
Hispanic origin										
Total, 16 to 24 years	2,115	1,557	73.6	1,342	1,151	191	215	194	21	13.8
16 to 19 years	498	330	66.2	240	172	68	89	72	17	27.1
20 to 24 years	1,817	1,227	67.6	1,102	978	123	126	121	4	10.3
Men	1,095	965	88.1	607	724	82	159	144	15	16.4
Women	1,020	592	58.0	535	426	109	57	50	6	9.6
Less than 4 years of high school	964	623	64.6	488	415	73	135	119	15	21.6
4 years of high school	900	725	80.5	652	552	100	72	68	4	10.0
1 to 3 years of college	173	180	103.5	152	140	11	8	6	2	5.2
4 years of college or more	58	50	86.2	50	44	6	-	-	-	(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							
	Mar. 1987	Mar. 1988	Total		Employed		Unemployed			
			Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Number		Percent of labor force	
							Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,810	7,885	7,208	7,271	6,802	6,896	406	375	5.6	5.2
30 to 44 years	6,254	6,009	5,971	5,722	5,644	5,391	327	331	5.5	5.8
30 to 34 years	987	766	921	723	836	643	85	80	9.2	11.1
35 to 39 years	2,744	2,292	2,632	2,179	2,486	2,043	146	136	5.5	6.2
40 to 44 years	2,523	2,951	2,418	2,820	2,322	2,705	96	115	4.0	4.1
45 years and over	1,556	1,876	1,237	1,549	1,158	1,505	79	44	6.4	2.8
NONVETERANS										
Total, 30 to 44 years	19,159	20,129	18,104	18,892	17,082	17,988	1,022	904	5.6	4.8
30 to 34 years	8,711	8,991	8,288	8,470	7,823	8,024	465	446	5.6	5.3
35 to 39 years	6,109	6,673	5,774	6,273	5,428	5,988	346	285	6.0	4.5
40 to 44 years	4,339	4,465	4,042	4,149	3,831	3,976	211	173	5.2	4.2

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	March 1988							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time		
TOTAL								
Total, 16 years and over	92,760	90,959	1,801	20,107	16,779	3,328	5,693	1,397
16 to 19 years	1,885	1,808	77	4,124	3,839	285	524	710
16 to 17 years	222	212	10	2,143	2,072	71	93	442
18 to 19 years	1,664	1,596	68	1,981	1,767	214	430	268
20 years and over	90,875	89,151	1,724	15,982	12,940	3,042	5,169	688
20 to 24 years	9,895	9,590	305	3,065	2,450	615	1,118	239
25 years and over	80,980	79,561	1,419	12,916	10,490	2,426	4,051	449
25 to 54 years	70,060	68,879	1,181	9,306	7,295	2,011	3,661	336
55 years and over	10,921	10,682	239	3,611	3,196	415	390	113
Men, 16 years and over	55,363	54,251	1,112	6,449	5,122	1,327	3,517	619
16 to 19 years	1,043	1,000	43	1,961	1,824	137	299	405
20 years and over	54,319	53,250	1,069	4,487	3,298	1,189	3,218	214
20 to 24 years	5,398	5,213	185	1,338	1,062	276	651	97
25 years and over	48,922	48,037	885	3,149	2,236	913	2,567	116
25 to 54 years	41,920	41,193	727	1,708	980	728	2,282	57
55 years and over	7,003	6,845	158	1,440	1,256	184	285	59
Women, 16 years and over	37,397	36,708	689	13,658	11,657	2,001	2,176	779
16 to 19 years	841	807	34	2,162	2,014	148	225	305
20 years and over	36,555	35,901	654	11,495	9,642	1,853	1,951	474
20 to 24 years	4,497	4,377	120	1,727	1,388	339	466	141
25 years and over	32,058	31,524	534	9,768	8,254	1,514	1,484	332
25 to 54 years	28,140	27,686	454	7,596	6,314	1,282	1,379	278
55 years and over	3,917	3,837	80	2,171	1,940	231	105	54
White								
Men, 16 years and over	48,870	47,916	954	5,558	4,504	1,054	2,647	494
16 to 19 years	964	923	41	1,743	1,630	113	238	319
20 years and over	47,907	46,993	914	3,816	2,875	941	2,409	175
20 to 24 years	4,762	4,609	153	1,093	888	205	449	73
25 years and over	43,145	42,384	761	2,724	1,987	737	1,959	102
25 to 54 years	36,840	36,217	623	1,421	837	584	1,720	54
55 years and over	6,305	6,166	139	1,303	1,150	153	240	48
Women, 16 years and over	31,553	31,019	534	12,220	10,584	1,636	1,474	570
16 to 19 years	743	715	28	1,930	1,806	124	162	214
20 years and over	30,811	30,305	506	10,290	8,778	1,512	1,312	356
20 to 24 years	3,877	3,789	88	1,471	1,221	250	298	104
25 years and over	26,933	26,516	417	8,820	7,558	1,262	1,014	252
25 to 54 years	23,505	23,154	351	6,885	5,820	1,065	932	212
55 years and over	3,429	3,362	67	1,934	1,738	196	82	40
Black								
Men, 16 years and over	4,920	4,782	138	658	414	244	737	116
16 to 19 years	59	57	2	150	132	18	60	81
20 years and over	4,862	4,726	136	507	282	225	677	35
20 to 24 years	531	504	27	180	119	61	181	23
25 years and over	4,333	4,223	110	327	163	164	496	12
25 to 54 years	3,783	3,693	90	214	80	134	467	2
55 years and over	549	530	19	113	63	30	29	10
Women, 16 years and over	4,624	4,489	135	1,072	782	290	642	164
16 to 19 years	77	71	6	175	158	17	59	78
20 years and over	4,546	4,418	128	897	624	273	583	85
20 to 24 years	507	479	28	175	106	69	161	29
25 years and over	4,040	3,939	101	721	518	203	421	57
25 to 54 years	3,629	3,541	88	525	347	178	402	47
55 years and over	411	398	13	195	171	24	19	10

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	March 1988									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over ¹	97,366	65.6	91,600	5,766	5.9	51,135	22,794	8,796	2,293	17,252
Husbands	39,804	78.4	38,350	1,454	3.7	10,996	211	226	814	9,744
With employed wife	25,489	91.9	24,650	839	3.3	2,257	74	122	323	1,739
With unemployed wife	1,002	92.3	871	131	13.0	84	4	4	25	50
With wife not in labor force	13,314	60.6	12,829	485	3.6	8,655	133	100	466	7,955
Wives	28,831	56.8	27,745	1,086	3.8	21,969	17,850	317	381	3,420
With employed husband	25,521	66.5	24,650	871	3.4	12,829	11,533	264	121	911
With unemployed husband	970	66.7	839	131	13.5	485	416	8	22	40
With husband not in labor force	2,341	21.3	2,257	84	3.6	8,655	5,902	45	239	2,469
Relatives in married-couple families	12,810	60.9	11,344	1,466	11.4	8,235	689	5,832	391	1,324
16 to 19 years	4,717	49.6	4,048	669	14.2	4,797	72	4,460	24	241
20 to 24 years	4,724	73.9	4,271	453	9.6	1,664	129	1,257	57	220
25 years and over	3,369	65.5	3,025	344	10.2	1,774	488	115	310	863
Women who maintain families	6,534	61.4	6,042	492	7.5	4,099	2,773	226	230	871
Relatives in families maintained by women	5,411	57.8	4,516	895	16.5	3,946	831	1,747	302	1,066
16 to 19 years	1,312	43.1	969	343	26.1	1,729	89	1,463	13	164
20 to 24 years	1,569	74.8	1,294	275	17.5	530	144	199	26	161
25 years and over	2,530	60.0	2,253	277	10.9	1,687	598	85	263	741
Men who maintain families	2,214	75.7	2,021	192	8.7	711	53	36	95	527
Relatives in families maintained by men	1,762	59.9	1,582	180	10.2	1,178	387	412	80	300
16 to 19 years	322	49.7	256	66	20.5	325	20	289	4	12
20 to 24 years	477	77.0	431	45	9.5	142	20	91	6	25
25 years and over	964	57.6	895	69	7.2	711	347	32	70	263

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	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
Total, 16 years and over	4,693	4,136	7.2	6.3	3,432	2,955	6.5	5.5
Married, spouse present	1,943	1,615	4.7	3.9	1,309	1,189	4.5	4.0
Widowed, divorced, or separated	579	495	8.9	7.4	759	613	7.4	5.9
Single (never married)	2,170	2,026	12.6	11.6	1,364	1,153	10.1	8.5
White, 16 years and over	3,678	3,141	6.4	5.5	2,427	2,044	5.4	4.5
Married, spouse present	1,654	1,333	4.4	3.6	1,064	942	4.1	3.6
Widowed, divorced, or separated	463	372	8.5	6.7	537	416	6.5	5.0
Single (never married)	1,561	1,436	10.8	9.8	827	686	7.6	6.3
Black, 16 years and over	855	853	13.5	13.3	905	806	14.2	12.4
Married, spouse present	222	215	7.0	6.7	198	190	8.2	7.9
Widowed, divorced, or separated	98	109	10.6	11.3	199	188	11.4	10.3
Single (never married)	536	529	23.9	23.3	508	428	23.3	19.0
Total, 25 years and over	3,070	2,683	5.7	4.9	2,147	1,817	5.1	4.2
Married, spouse present	1,800	1,502	4.5	3.8	1,087	944	4.0	3.4
Widowed, divorced, or separated	548	485	8.7	7.5	682	556	7.0	5.5
Single (never married)	721	698	9.2	8.5	377	317	6.7	5.3
White, 25 years and over	2,462	2,061	5.2	4.3	1,551	1,266	4.3	3.4
Married, spouse present	1,528	1,235	4.3	3.5	875	747	3.7	3.1
Widowed, divorced, or separated	443	363	8.5	6.8	476	374	6.1	4.7
Single (never married)	491	464	7.7	6.8	199	146	4.6	3.2
Black, 25 years and over	495	508	9.8	9.8	525	478	10.3	9.1
Married, spouse present	207	200	6.7	6.5	169	144	7.5	6.5
Widowed, divorced, or separated	87	108	9.6	11.4	185	172	10.9	9.7
Single (never married)	202	200	18.4	17.6	169	162	15.2	13.1

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
Total, 16 years and over	8,124	7,090	6.9	5.9	7.2	6.3	6.5	5.5
Managerial and professional specialty	638	473	2.3	1.6	2.3	1.6	2.1	1.6
Executive, administrative, and managerial	349	284	2.6	2.0	2.6	1.9	2.7	2.1
Professional specialty	289	189	1.9	1.2	2.1	1.3	1.8	1.2
Technical, sales, and administrative support	1,730	1,524	4.8	4.1	4.2	3.5	5.1	4.5
Technicians and related support	97	83	2.9	2.3	3.4	2.1	2.4	2.6
Sales occupations	764	726	5.5	5.1	4.1	3.6	6.9	6.6
Administrative support, including clerical	869	715	4.6	3.7	4.7	4.0	4.5	3.7
Service occupations	1,290	1,118	8.0	7.0	7.5	6.8	8.3	7.1
Private household	44	38	4.4	4.2	(¹)	(¹)	4.7	3.9
Protective service	67	75	3.4	3.9	3.4	3.4	3.8	6.9
Service, except private household and protective	1,179	1,005	8.9	7.6	9.0	8.0	8.9	7.4
Precision production, craft, and repair	1,033	970	7.3	6.8	7.4	6.8	6.6	6.9
Mechanics and repairers	200	186	4.3	4.0	4.4	3.9	.6	5.1
Construction trades	592	546	11.1	10.3	11.0	10.3	17.6	9.0
Other precision production, craft, and repair	242	238	5.7	5.6	5.5	5.2	6.6	6.9
Operators, fabricators, and laborers	2,179	1,888	11.5	9.8	11.6	10.0	11.2	9.4
Machine operators, assemblers, and inspectors	869	706	10.1	8.1	8.8	7.9	11.9	8.4
Transportation and material moving occupations	459	440	9.2	8.6	9.7	8.8	4.4	6.9
Handlers, equipment cleaners, helpers, and laborers	851	742	15.9	13.9	16.6	13.6	11.8	15.0
Construction laborers	255	227	29.5	25.0	29.6	25.0	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	596	515	13.2	11.6	13.7	10.9	11.3	14.7
Farming, forestry, and fishing	339	283	9.7	8.6	9.9	8.8	8.9	7.7
No previous work experience	862	794						
16 to 19 years	565	526						
20 to 24 years	154	153						
25 years and over	143	115						

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	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
Total, 16 years and over	8,124	7,090	6.9	5.9	7.2	6.3	6.5	5.5
Nonagricultural private wage and salary workers	6,210	5,407	7.0	6.0	7.5	6.4	6.5	5.6
Mining	92	71	10.6	8.9	12.0	10.3	2.2	2.7
Construction	984	856	16.5	14.3	17.2	15.1	9.5	6.5
Manufacturing	1,566	1,233	7.2	5.6	6.3	5.2	9.1	6.4
Durable goods	875	703	6.9	5.4	6.3	5.2	8.3	6.0
Lumber and wood products	89	58	11.9	7.4	12.9	8.3	7.9	2.8
Furniture and fixtures	36	38	5.4	5.9	4.7	5.2	7.4	7.5
Stone, clay, and glass products	38	48	6.5	7.6	6.4	9.1	7.1	1.8
Primary metal industries	80	36	9.2	4.6	8.6	3.6	12.9	9.9
Fabricated metal products	108	75	8.0	5.4	7.2	6.0	10.4	3.2
Machinery, except electrical	147	104	6.2	4.0	6.1	3.9	6.8	4.2
Electrical machinery, equipment, and supplies	139	122	6.0	5.5	5.5	4.0	6.8	7.7
Transportation equipment	143	168	5.3	6.4	4.4	5.8	8.4	8.7
Automobiles	78	88	6.3	7.3	4.6	6.6	12.2	10.2
Other transportation equipment	65	81	4.4	5.7	4.2	5.0	5.1	7.6
Professional and photographic equipment	43	10	6.8	1.5	6.1	2.1	7.9	.5
Other durable goods industries	52	43	9.9	7.7	6.7	6.5	13.7	8.9
Nondurable goods	690	530	7.8	5.9	6.3	5.3	9.9	6.9
Food and kindred products	187	181	10.2	9.8	8.6	9.7	13.2	10.1
Textile mill products	54	40	7.3	5.5	5.5	4.2	9.4	7.0
Apparel and other textile products	152	100	11.7	8.1	9.2	8.6	12.4	7.9
Paper and allied products	39	25	5.1	3.3	4.7	3.4	6.6	2.9
Printing and publishing	110	73	6.2	3.9	5.8	2.9	6.8	5.2
Chemicals and allied products	59	34	4.8	2.7	4.8	2.4	4.6	3.5
Rubber and miscellaneous plastics products	52	55	6.7	6.5	5.1	5.8	9.6	7.7
Other nondurable goods industries	36	21	8.8	5.6	5.3	3.8	13.9	9.4
Transportation and public utilities	289	281	4.7	4.4	5.0	4.4	4.0	4.3
Transportation	224	209	6.4	5.8	6.7	6.1	5.2	4.5
Communications and other public utilities	66	72	2.5	2.6	2.2	1.7	3.1	4.1
Wholesale and retail trade	1,741	1,622	7.6	7.1	7.1	6.3	8.2	8.0
Wholesale trade	230	217	5.2	5.0	5.1	4.6	5.5	5.9
Retail trade	1,511	1,404	8.2	7.6	7.8	6.9	8.6	8.3
Finance, insurance, and real estate	217	210	3.1	2.9	3.4	2.5	3.0	3.1
Service industries	1,322	1,134	5.5	4.6	6.0	5.0	5.2	4.3
Professional services	503	397	3.7	2.8	3.7	2.7	3.6	2.9
Other service industries	819	737	7.9	6.9	7.8	6.9	8.0	6.9
Agricultural wage and salary workers	234	232	13.5	13.6	13.9	14.6	12.3	10.6
Government, self-employed, and unpaid family workers	818	657	3.0	2.4	3.3	2.6	2.7	2.1
No previous work experience	862	794	-	-	-	-	-	-

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	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
NUMBER OF UNEMPLOYED												
Total unemployed	8,124	7,090	3,941	3,432	2,843	2,425	1,341	1,234	6,105	5,185	1,780	1,659
Job losers	4,227	3,506	2,800	2,341	1,176	936	252	228	3,291	2,667	814	747
On layoff	1,208	1,083	833	797	315	229	58	57	1,035	925	159	137
Other job losers	3,021	2,423	1,967	1,544	861	707	194	171	2,256	1,742	655	610
Job leavers	934	1,012	401	434	416	419	116	159	775	772	133	209
Reentrants	2,107	1,784	656	537	1,040	921	411	326	1,474	1,211	559	494
New entrants	857	789	84	119	211	149	562	521	566	535	253	208
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	52.0	49.5	71.0	68.2	41.4	38.7	18.7	18.5	53.6	51.4	46.2	45.0
On layoff	14.8	15.3	21.1	23.2	11.1	9.5	4.3	4.6	16.9	17.8	9.0	8.3
Other job losers	37.2	34.2	49.9	45.0	30.3	29.2	14.4	13.9	36.9	33.6	37.2	36.8
Job leavers	11.5	14.3	10.2	12.7	14.6	17.3	8.7	12.9	12.7	14.9	7.6	12.6
Reentrants	25.9	25.2	16.6	15.7	36.6	38.0	30.6	26.4	24.1	23.4	31.8	29.8
New entrants	10.5	11.1	2.1	3.5	7.4	6.2	41.9	42.2	9.3	10.3	14.4	12.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	3.6	2.9	4.6	3.8	2.3	1.9	3.5	3.2	3.2	2.6	6.4	5.8
Job leavers .....	.8	.8	.7	.7	.8	.8	1.6	2.2	.8	.7	1.0	1.6
Reentrants	1.8	1.5	1.1	.9	2.1	1.8	5.6	4.5	1.4	1.2	4.4	3.8
New entrants .....	.7	.7	.1	.2	.4	.3	7.7	7.2	.6	.5	2.0	1.6

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	March 1988						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	7,090	100.0	38.9	32.9	28.2	15.6	12.6
Job losers	3,506	100.0	28.9	35.5	35.6	21.3	14.3
On layoff	1,083	100.0	39.9	33.8	26.3	22.2	4.1
Other job losers	2,423	100.0	24.0	36.2	39.8	20.9	18.9
Job leavers	1,012	100.0	49.0	31.1	19.9	10.2	9.8
Reentrants	1,784	100.0	47.5	30.0	22.5	10.3	12.2
New entrants	789	100.0	51.2	30.2	18.6	9.6	9.1
Men, 20 years and over	3,432	100.0	31.7	33.5	34.8	19.4	15.4
Job losers	2,341	100.0	28.1	33.8	38.1	22.8	15.3
On layoff	797	100.0	36.7	34.1	29.2	24.8	4.4
Other job losers	1,544	100.0	23.6	33.7	42.7	21.8	20.9
Job leavers	434	100.0	45.5	29.5	25.0	11.8	13.2
Reentrants	537	100.0	37.6	33.9	28.5	12.6	15.9
New entrants	119	100.0	25.6	39.9	34.4	10.5	24.0
Women, 20 years and over	2,425	100.0	40.5	33.4	26.0	14.0	12.0
Job losers	936	100.0	28.3	37.3	34.4	19.8	14.6
On layoff	229	100.0	44.0	34.4	21.6	17.6	4.0
Other job losers	707	100.0	23.2	38.2	38.6	20.5	18.1
Job leavers	419	100.0	48.7	33.8	17.4	8.8	8.6
Reentrants	921	100.0	48.2	29.6	22.2	11.0	11.2
New entrants	149	100.0	47.0	31.3	21.7	11.3	10.4
Both sexes, 16 to 19 years	1,234	100.0	55.8	30.1	14.0	8.3	5.8
Job losers	228	100.0	39.9	45.0	15.1	11.5	3.6
On layoff	57	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	171	100.0	30.4	50.8	18.7	13.9	4.8
Job leavers	159	100.0	59.2	28.4	12.4	9.2	3.2
Reentrants	326	100.0	61.6	24.7	13.7	4.6	9.1
New entrants	521	100.0	58.2	27.6	14.2	8.8	5.3

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	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
Total, 16 years and over	8,124	7,090	100.0	100.0	6,485	5,693	100.0	100.0
Less than 5 weeks	3,068	2,759	37.8	38.9	2,112	1,920	32.6	33.7
5 to 14 weeks	2,672	2,332	32.9	32.9	2,190	1,944	33.8	34.1
5 to 10 weeks	1,809	1,559	22.3	22.0	1,445	1,256	22.3	22.1
11 to 14 weeks	864	773	10.6	10.9	744	688	11.5	12.1
15 weeks and over	2,384	1,999	29.3	28.2	2,183	1,829	33.7	32.1
15 to 26 weeks	1,196	1,108	14.7	15.6	1,065	1,003	16.4	17.6
27 weeks and over	1,188	891	14.6	12.6	1,118	827	17.2	14.5
27 to 51 weeks	498	403	6.1	5.7	464	366	7.2	6.4
52 weeks and over	690	489	8.5	6.9	654	461	10.1	8.1
Average (mean) duration, in weeks	15.6	14.3			17.6	15.9		
Median duration, in weeks	8.2	8.0			9.7	9.5		

**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	
								Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
	March 1988										
Total, 16 years and over	7,090	2,759	2,332	1,108	891	14.3	8.0	37.8	38.9	29.3	28.2
16 to 19 years	1,234	689	372	102	71	8.2	4.5	54.9	55.8	13.3	14.0
20 to 24 years	1,356	593	485	164	114	11.2	6.7	39.7	43.7	24.2	20.5
25 to 34 years	2,074	758	668	370	278	15.3	8.7	34.4	36.6	32.2	31.2
35 to 44 years	1,278	397	436	234	211	16.9	9.9	32.2	31.1	36.2	34.8
45 to 54 years	644	180	193	139	132	20.1	12.7	29.3	27.9	40.3	42.2
55 to 64 years	419	110	148	90	71	19.4	11.6	29.0	26.2	38.5	38.4
65 years and over	86	33	30	9	15	16.7	7.5	52.1	38.2	22.7	27.1
Men, 16 years and over	4,136	1,451	1,390	721	574	15.5	9.2	33.0	35.1	33.4	31.3
16 to 19 years	704	363	240	56	45	8.8	4.8	52.3	51.6	15.6	14.3
20 to 24 years	748	312	254	112	71	12.3	7.5	35.1	41.6	24.4	24.4
25 to 34 years	1,212	391	409	237	176	16.2	9.8	30.0	32.2	36.2	34.0
35 to 44 years	729	209	254	142	123	18.2	10.8	25.6	28.7	40.9	36.4
45 to 54 years	398	89	116	99	94	21.9	14.5	24.5	22.5	46.9	48.4
55 to 64 years	293	69	97	71	56	21.5	13.0	24.2	23.5	47.0	43.4
65 years and over	52	17	20	4	10	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	2,955	1,309	942	386	317	12.6	6.4	44.3	44.3	23.8	23.8
16 to 19 years	530	326	132	46	26	7.5	4.1	58.2	61.5	10.4	13.6
20 to 24 years	608	281	231	53	43	10.0	5.8	45.5	46.3	23.9	15.7
25 to 34 years	862	367	259	133	102	14.2	6.9	40.2	42.6	26.8	27.3
35 to 44 years	550	188	182	92	88	15.3	8.5	40.6	34.2	30.2	32.7
45 to 54 years	246	90	77	40	39	17.1	9.6	38.1	36.7	28.3	32.2
55 to 64 years	126	41	51	18	15	14.5	9.4	37.4	32.6	23.5	26.8
65 years and over	33	15	10	4	4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,185	2,024	1,704	849	608	13.9	7.9	38.4	39.0	28.4	28.1
Men	3,141	1,118	1,037	576	411	15.4	9.0	33.1	35.6	33.0	31.4
Women	2,044	906	667	274	197	11.7	6.3	46.3	44.3	21.5	23.0
Black, 16 years and over	1,659	633	550	223	252	15.7	8.6	35.6	38.2	31.8	28.6
Men	853	293	307	115	138	15.9	9.5	31.9	34.3	34.3	29.7
Women	806	341	243	108	114	15.6	7.6	39.1	42.3	29.5	27.5
Men, 16 years and over:											
Married, spouse present	1,615	445	520	367	283	18.9	11.8	26.2	27.5	40.5	40.3
Widowed, divorced, or separated	495	156	157	72	110	19.5	10.0	27.9	31.5	42.1	36.7
Single (never married)	2,026	850	712	282	182	11.8	7.5	40.5	42.0	24.6	22.9
Women, 16 years and over:											
Married, spouse present	1,189	508	397	169	114	12.0	6.7	43.0	42.8	24.2	23.8
Widowed, divorced, or separated	613	237	198	90	88	15.3	8.4	40.2	38.7	28.2	29.0
Single (never married)	1,153	564	347	127	115	11.8	5.3	47.9	48.9	21.0	21.0

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-18. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
	March 1988										
OCCUPATION											
Managerial and professional specialty	473	129	176	97	72	16.9	10.5	30.1	27.2	35.6	35.7
Technical, sales, and administrative support	1,524	623	532	191	178	13.3	7.1	42.0	40.9	24.7	24.2
Service occupations	1,118	463	346	140	168	14.6	7.7	42.4	41.5	24.1	27.6
Precision production, craft, and repair	970	353	317	190	110	14.8	8.9	32.2	36.4	32.1	30.9
Operators, fabricators, and laborers	1,888	664	840	326	259	15.1	9.2	32.9	35.2	35.2	31.0
Farming, forestry, and fishing	283	91	77	87	28	18.5	10.8	38.4	32.1	36.3	40.6
INDUSTRY¹											
Agriculture	232	74	81	56	21	14.8	10.2	38.5	32.0	36.9	33.2
Construction	882	297	319	205	60	12.9	9.8	30.8	33.7	30.5	30.1
Manufacturing	1,240	400	408	238	195	17.4	9.7	33.5	32.2	35.6	34.9
Durable goods	710	195	239	141	135	19.7	11.2	30.7	27.4	39.0	38.9
Nondurable goods	530	205	169	97	59	14.2	7.7	37.1	38.7	31.4	29.5
Transportation and public utilities	322	117	112	38	55	14.5	8.8	32.6	36.4	32.8	28.7
Wholesale and retail trade	1,627	704	588	156	178	11.8	6.7	40.6	43.3	24.2	20.5
Finance and service industries	1,572	585	480	267	239	15.7	9.2	39.0	37.2	28.5	32.1
Public administration	165	62	51	24	28	16.1	7.0	32.2	37.7	33.5	31.5
No previous work experience	794	409	238	75	72	10.9	4.9	47.9	51.5	21.2	18.5

¹ Includes wage and salary workers only.

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

Sex, age, and race	March 1988								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	7,090	5,865	21.3	6.4	74.4	35.6	18.1	5.3	1.61
16 to 19 years	1,234	1,153	12.8	3.9	81.6	25.6	13.9	2.3	1.40
20 to 24 years	1,356	1,143	20.9	4.6	75.6	37.4	16.7	3.7	1.59
25 to 34 years	2,074	1,681	24.6	8.2	73.2	41.7	19.7	5.4	1.73
35 to 44 years	1,278	1,021	26.6	6.4	72.6	35.3	17.7	8.1	1.67
45 to 54 years	644	486	22.6	10.1	68.7	33.7	22.0	8.2	1.65
55 to 64 years	419	310	19.0	8.1	64.2	39.0	23.5	9.4	1.63
65 years and over	86	71	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	4,136	3,230	22.8	5.8	75.7	34.3	20.1	6.1	1.65
16 to 19 years	704	658	12.2	3.6	83.6	25.1	14.1	2.1	1.41
20 to 24 years	748	603	20.4	4.6	78.4	39.5	21.2	2.0	1.66
25 to 34 years	1,212	901	29.1	7.2	75.7	39.0	24.9	6.1	1.82
35 to 44 years	729	538	29.2	4.5	72.1	33.8	17.3	11.5	1.68
45 to 54 years	398	279	21.1	8.6	68.5	31.2	22.2	9.7	1.61
55 to 64 years	293	206	23.3	9.7	63.1	36.9	18.0	13.1	1.64
65 years and over	52	44	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	2,955	2,635	19.4	7.2	72.8	37.2	15.6	4.3	1.56
16 to 19 years	530	495	13.7	4.4	79.0	26.3	13.5	2.6	1.40
20 to 24 years	608	540	21.5	4.4	72.4	34.8	11.7	5.4	1.50
25 to 34 years	862	780	19.4	9.4	70.4	44.9	13.7	4.6	1.62
35 to 44 years	550	483	23.8	8.5	73.1	37.1	18.2	4.1	1.65
45 to 54 years	246	207	24.6	11.6	69.1	37.2	21.7	6.3	1.71
55 to 64 years	126	104	10.6	4.8	66.3	43.3	34.6	1.9	1.62
65 years and over	33	27	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	5,185	4,141	20.9	6.8	74.1	37.1	18.3	5.5	1.63
Men	3,141	2,349	22.9	6.3	75.0	34.7	20.1	6.3	1.65
Women	2,044	1,792	18.3	7.5	72.9	40.3	15.9	4.4	1.59
Black, 16 years and over	1,659	1,510	23.0	5.2	76.8	30.7	16.2	4.8	1.57
Men	853	760	23.4	4.3	79.1	32.2	19.2	5.3	1.64
Women	806	750	22.4	6.1	74.5	28.9	13.1	4.3	1.49

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	March 1988								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	7,090	5,865	21.3	6.4	74.4	35.6	18.1	5.3	1.61
Job losers ¹	3,506	2,397	26.2	6.7	76.3	36.5	19.9	6.6	1.72
Job leavers	1,012	993	23.6	7.8	71.2	46.2	15.5	4.2	1.68
Reentrants	1,784	1,697	16.7	6.2	71.2	33.0	17.8	4.9	1.50
New entrants	789	779	13.6	4.4	79.6	24.6	16.0	3.6	1.42
Men, 16 years and over	4,136	3,230	22.8	5.8	75.7	34.3	20.1	6.1	1.65
Job losers ¹	2,485	1,638	26.4	6.0	75.6	36.3	20.2	7.8	1.72
Job leavers	523	517	24.4	7.2	73.9	41.8	19.0	3.9	1.70
Reentrants	726	677	16.8	5.0	73.6	29.5	20.8	6.4	1.52
New entrants	402	398	16.3	4.3	81.9	24.1	19.6	2.0	1.48
Women, 16 years and over	2,955	2,635	19.4	7.2	72.8	37.2	15.6	4.3	1.56
Job losers ¹	1,020	759	25.7	8.0	77.6	37.0	19.4	4.0	1.72
Job leavers	489	476	22.7	8.4	68.1	51.1	11.8	4.6	1.67
Reentrants	1,058	1,020	16.7	7.0	69.6	35.3	15.8	4.0	1.48
New entrants	387	381	10.5	4.5	77.2	25.2	12.3	5.2	1.35

¹ Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry and age	Total		Men		Women	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
All industries	110,229	112,867	60,716	61,812	49,513	51,055
16 to 19 years	5,946	6,009	2,964	3,005	2,982	3,004
16 to 17 years	2,375	2,364	1,177	1,192	1,197	1,173
18 to 19 years	3,572	3,645	1,787	1,813	1,785	1,831
20 to 24 years	13,254	12,961	6,878	6,736	6,376	6,225
25 to 54 years	76,675	79,365	42,394	43,627	34,281	35,737
25 to 34 years	32,677	33,283	18,168	18,391	14,509	14,892
35 to 44 years	26,725	27,830	14,597	15,118	12,128	12,712
45 to 54 years	17,274	18,251	9,629	10,118	7,644	8,134
55 to 64 years	11,371	11,354	6,685	6,566	4,686	4,787
55 to 59 years	6,856	6,841	4,007	3,959	2,849	2,882
60 to 64 years	4,515	4,513	2,678	2,608	1,837	1,906
65 years and over	2,983	3,178	1,796	1,877	1,188	1,301
Agriculture	2,932	2,902	2,363	2,273	569	630
16 to 19 years	202	218	163	163	39	55
16 to 17 years	84	94	71	70	13	24
18 to 19 years	118	124	92	94	26	31
20 to 24 years	395	328	357	262	38	66
25 to 54 years	1,639	1,697	1,258	1,298	381	398
25 to 34 years	715	738	576	583	139	155
35 to 44 years	502	501	377	396	125	106
45 to 54 years	421	458	305	320	117	137
55 to 64 years	430	396	349	316	81	80
55 to 59 years	213	211	166	165	47	46
60 to 64 years	217	185	183	152	34	33
65 years and over	267	263	236	232	31	31
Nonagricultural industries	107,297	109,964	58,353	59,539	48,944	50,425
16 to 19 years	5,745	5,791	2,801	2,842	2,943	2,949
16 to 17 years	2,291	2,271	1,107	1,122	1,184	1,148
18 to 19 years	3,454	3,520	1,695	1,720	1,759	1,801
20 to 24 years	12,859	12,632	6,520	6,474	6,338	6,159
25 to 54 years	75,036	77,668	41,136	42,329	33,900	35,339
25 to 34 years	31,961	32,545	17,591	17,809	14,370	14,737
35 to 44 years	26,223	27,329	14,220	14,723	12,003	12,607
45 to 54 years	16,852	17,794	9,325	9,798	7,528	7,996
55 to 64 years	10,941	10,958	6,336	6,250	4,605	4,708
55 to 59 years	6,643	6,630	3,841	3,794	2,802	2,836
60 to 64 years	4,298	4,328	2,495	2,456	1,803	1,872
65 years and over	2,716	2,915	1,559	1,645	1,157	1,270

**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	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
Total	110,229	112,867	60,716	61,812	57,752	58,807	49,513	51,055	46,531	48,051
Managerial and professional specialty	27,674	28,928	15,408	16,103	15,338	16,004	12,267	12,825	12,172	12,736
Executive, administrative, and managerial	13,002	13,860	8,136	8,487	8,100	8,442	4,865	5,373	4,827	5,333
Officials and administrators, public administration	525	549	309	316	309	317	216	233	215	230
Other executive, administrative, and managerial	8,924	9,601	5,939	6,322	5,901	6,276	2,986	3,279	2,957	3,248
Management-related occupations	3,553	3,710	1,889	1,849	1,890	1,850	1,664	1,861	1,656	1,855
Professional specialty	14,673	15,068	7,272	7,616	7,239	7,561	7,401	7,452	7,345	7,403
Engineers	1,694	1,806	1,569	1,664	1,568	1,663	125	141	125	141
Mathematical and computer scientists	742	738	484	506	483	504	259	232	257	231
Natural scientists	400	386	305	311	305	311	96	75	96	75
Health diagnosing occupations	789	783	666	648	664	648	123	135	123	135
Health assessment and treating occupations	2,138	2,159	289	344	289	343	1,849	1,815	1,848	1,813
Teachers, college and university	729	748	479	471	478	465	250	277	245	274
Teachers, except college and university	3,851	3,983	996	1,110	993	1,103	2,855	2,873	2,828	2,848
Lawyers and judges	682	771	558	622	558	622	124	149	124	149
Other professional specialty occupations	3,647	3,695	1,926	1,940	1,901	1,901	1,721	1,755	1,698	1,737
Technical, sales, and administrative support	34,594	35,449	12,178	12,381	11,641	11,793	22,416	23,068	20,784	21,440
Technicians and related support	3,254	3,498	1,627	1,813	1,599	1,793	1,626	1,685	1,613	1,662
Health technologists and technicians	1,103	1,184	166	198	166	195	937	985	935	975
Engineering and science technicians	1,039	1,169	823	901	808	889	217	269	213	262
Technicians, except health, engineering, and science	1,111	1,145	638	714	624	709	473	432	464	425
Sales occupations	13,207	13,575	6,916	7,025	6,590	6,657	6,291	6,550	5,349	5,630
Supervisors and proprietors	3,531	3,790	2,450	2,571	2,436	2,539	1,082	1,219	1,048	1,191
Sales representatives, finance and business services	2,245	2,322	1,361	1,374	1,353	1,356	883	948	857	914
Sales representatives, commodities, except retail	1,510	1,573	1,261	1,262	1,256	1,260	249	311	249	299
Sales workers, retail and personal services	5,876	5,825	1,834	1,801	1,534	1,486	4,043	4,024	3,161	3,182
Sales-related occupations	44	64	10	16	10	16	34	47	34	43
Administrative support, including clerical	18,134	18,376	3,634	3,543	3,452	3,343	14,499	14,833	13,822	14,148
Supervisors	697	758	290	317	290	317	407	442	404	440
Computer equipment operators	860	883	300	300	280	280	560	583	521	555
Secretaries, stenographers, and typists	4,990	4,978	77	84	68	78	4,914	4,895	4,670	4,687
Financial records processing	2,479	2,364	206	174	203	159	2,273	2,190	2,232	2,151
Mail and message distributing	946	940	632	619	601	606	314	321	301	305
Other administrative support, including clerical	8,161	8,453	2,131	2,049	2,010	1,902	6,031	6,403	5,695	6,011
Service occupations	14,882	14,893	5,981	5,872	5,064	5,066	8,901	9,021	7,868	8,038
Private household	939	855	34	34	17	31	905	821	709	679
Protective service	1,897	1,855	1,630	1,607	1,598	1,577	267	248	250	223
Service, except private household and protective	12,046	12,183	4,316	4,231	3,449	3,458	7,729	7,952	6,910	7,137
Food service	5,129	5,095	1,953	1,986	1,338	1,385	3,176	3,109	2,581	2,532
Health service	1,858	1,970	210	217	191	204	1,648	1,753	1,575	1,674
Cleaning and building service	2,885	2,834	1,719	1,623	1,535	1,497	1,166	1,211	1,097	1,144
Personal service	2,174	2,283	435	404	386	372	1,740	1,879	1,656	1,785
Precision production, craft, and repair	13,145	13,307	12,036	12,142	11,785	11,865	1,109	1,164	1,088	1,128
Mechanics and repairers	4,429	4,511	4,271	4,349	4,200	4,254	158	161	153	158
Construction trades	4,746	4,758	4,679	4,656	4,545	4,547	68	102	64	99
Other precision production, craft, and repair	3,970	4,038	3,086	3,137	3,040	3,065	884	901	872	870
Operators, fabricators, and laborers	16,785	17,278	12,447	12,789	11,456	11,741	4,338	4,489	4,169	4,269
Machine operators, assemblers, and inspectors	7,732	7,996	4,578	4,685	4,425	4,517	3,154	3,311	3,081	3,208
Manufacturing industries	6,395	6,655	3,725	3,884	3,622	3,747	2,670	2,771	2,618	2,705
Durable goods	3,534	3,633	2,408	2,440	2,354	2,369	1,126	1,192	1,107	1,169
Nondurable goods	2,861	3,022	1,316	1,444	1,268	1,378	1,544	1,579	1,511	1,536
Nonmanufacturing industries	1,337	1,341	853	801	803	770	484	540	463	503
Transportation and material moving occupations	4,534	4,673	4,109	4,247	3,974	4,131	425	425	412	406
Motor vehicle operators	3,438	3,449	3,058	3,092	2,929	2,989	380	357	367	341
Other transportation and material moving occupations	1,096	1,224	1,051	1,156	1,045	1,142	45	68	45	65
Handlers, equipment cleaners, helpers, and laborers	4,519	4,610	3,761	3,857	3,057	3,093	758	752	676	655
Construction laborers	610	681	589	661	529	605	21	20	20	12
Other handlers, equipment cleaners, helpers, and laborers	3,909	3,929	3,172	3,196	2,528	2,488	737	732	656	643
Farming, forestry, and fishing	3,149	3,012	2,667	2,525	2,468	2,337	482	487	449	440
Farm operators and managers	1,281	1,243	1,117	1,077	1,110	1,071	164	166	161	164
Other farming, forestry, and fishing occupations	1,867	1,769	1,549	1,448	1,359	1,266	318	321	288	276

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
TOTAL						
Total, 16 years and over (thousands)	110,229	112,867	60,716	61,812	49,513	51,055
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.1	25.6	25.4	26.1	24.8	25.1
Executive, administrative, and managerial	11.8	12.3	13.4	13.7	9.8	10.5
Professional specialty	13.3	13.4	12.0	12.3	14.9	14.6
Technical, sales, and administrative support	31.4	31.4	20.1	20.0	45.3	45.2
Technicians and related support	3.0	3.1	2.7	2.9	3.3	3.3
Sales occupations	12.0	12.0	11.4	11.4	12.7	12.8
Administrative support, including clerical	16.5	16.3	6.0	5.7	29.3	29.1
Service occupations	13.5	13.2	9.9	9.5	18.0	17.7
Private household .....	.9	.8	.1	.1	1.8	1.6
Protective service	1.7	1.6	2.7	2.6	.5	.5
Service, except private household and protective	10.9	10.8	7.1	6.8	15.6	15.6
Precision production, craft, and repair	11.9	11.8	19.8	19.6	2.2	2.3
Operators, fabricators, and laborers	15.2	15.3	20.5	20.7	8.8	8.8
Machine operators, assemblers, and inspectors	7.0	7.1	7.5	7.6	6.4	6.5
Transportation and material moving occupations	4.1	4.1	6.8	6.9	.9	.8
Handlers, equipment cleaners, helpers, and laborers	4.1	4.1	6.2	6.2	1.5	1.5
Farming, forestry, and fishing	2.9	2.7	4.4	4.1	1.0	1.0
White						
Total, 16 years and over (thousands)	96,032	98,202	53,508	54,429	42,525	43,774
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.1	26.6	26.4	27.1	25.8	26.0
Executive, administrative, and managerial	12.5	12.9	14.1	14.4	10.4	11.0
Professional specialty	13.7	13.7	12.4	12.7	15.3	15.0
Technical, sales, and administrative support	31.8	31.8	20.2	20.2	46.2	46.2
Technicians and related support	3.0	3.1	2.7	3.0	3.3	3.2
Sales occupations	12.5	12.6	12.0	12.0	13.2	13.4
Administrative support, including clerical	16.3	16.1	5.5	5.3	29.8	29.6
Service occupations	12.4	12.0	8.9	8.4	16.7	16.4
Private household .....	.7	.7	.1	(¹)	1.6	1.4
Protective service	1.6	1.5	2.5	2.4	.5	.4
Service, except private household and protective	10.0	9.8	6.3	6.0	14.7	14.5
Precision production, craft, and repair	12.4	12.3	20.5	20.3	2.2	2.2
Operators, fabricators, and laborers	14.4	14.5	19.4	19.6	8.0	8.1
Machine operators, assemblers, and inspectors	6.5	6.6	7.1	7.3	5.7	5.8
Transportation and material moving occupations	4.0	4.0	6.5	6.5	.8	.8
Handlers, equipment cleaners, helpers, and laborers	3.9	3.8	5.8	5.8	1.5	1.4
Farming, forestry, and fishing	3.0	2.9	4.6	4.3	1.1	1.1
Black						
Total, 16 years and over (thousands)	10,927	11,273	5,480	5,577	5,447	5,696
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	15.0	16.0	13.4	14.2	16.6	17.8
Executive, administrative, and managerial	6.2	6.9	7.1	7.1	5.3	6.7
Professional specialty	8.8	9.1	6.3	7.1	11.3	11.1
Technical, sales, and administrative support	28.5	27.5	17.3	16.4	39.7	38.3
Technicians and related support	2.2	2.9	1.8	2.1	2.6	3.7
Sales occupations	7.6	6.8	5.7	5.0	9.6	8.6
Administrative support, including clerical	18.6	17.8	9.8	9.3	27.4	26.1
Service occupations	22.5	23.4	17.8	18.6	27.3	28.1
Private household	2.0	1.8	.1	.3	3.9	3.3
Protective service	2.8	2.7	4.5	4.5	1.2	.9
Service, except private household and protective	17.7	18.9	13.2	13.8	22.3	23.9
Precision production, craft, and repair	9.0	8.7	15.6	15.3	2.3	2.2
Operators, fabricators, and laborers	23.3	23.0	32.7	32.9	13.8	13.2
Machine operators, assemblers, and inspectors	10.8	10.4	11.2	10.3	10.4	10.4
Transportation and material moving occupations	6.1	6.0	10.8	11.2	1.5	1.0
Handlers, equipment cleaners, helpers, and laborers	6.4	6.6	10.7	11.4	1.9	1.8
Farming, forestry, and fishing	1.8	1.4	3.2	2.6	.3	.3

¹ Less than 0.05 percent.

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

(In thousands)

Age and sex	March 1988								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	101,514	1,086	17,195	83,233	8,190	261	1,467	1,309	126
16 to 19 years	5,756	161	266	5,330	33	2	172	20	27
16 to 17 years	2,254	105	57	2,092	16	-	65	17	11
18 to 19 years	3,502	55	209	3,238	16	1	106	2	16
20 to 24 years	12,313	102	1,142	11,070	308	11	261	55	13
25 to 34 years	30,557	195	4,439	25,923	1,922	66	441	275	22
35 to 44 years	24,891	163	5,311	19,417	2,368	71	239	246	16
45 to 54 years	16,016	184	3,537	12,295	1,716	61	176	257	25
55 to 64 years	9,657	150	2,057	7,450	1,268	33	129	255	12
55 to 59 years	5,889	89	1,266	4,534	717	24	59	142	9
60 to 64 years	3,768	61	790	2,916	551	9	69	113	3
65 years and over	2,324	131	444	1,749	574	17	51	201	11
Men, 16 years and over	54,137	131	8,049	45,957	5,367	35	1,110	1,108	54
16 to 19 years	2,828	14	104	2,710	13	1	127	18	18
16 to 17 years	1,117	8	22	1,087	5	-	45	15	9
18 to 19 years	1,711	6	82	1,622	7	2	82	2	9
20 to 24 years	6,258	23	485	5,750	207	8	206	46	11
25 to 34 years	16,567	30	2,073	14,464	1,233	9	335	242	6
35 to 44 years	13,230	25	2,466	10,739	1,489	4	187	208	-
45 to 54 years	8,652	11	1,652	6,990	1,138	8	117	198	5
55 to 64 years	5,361	14	1,057	4,291	885	3	96	216	4
55 to 59 years	3,292	11	655	2,626	499	3	44	119	2
60 to 64 years	2,070	3	401	1,665	386	-	52	98	2
65 years and over	1,241	14	213	1,014	402	2	42	180	10
Women, 16 years and over	47,377	955	9,146	37,276	2,822	226	357	201	71
16 to 19 years	2,929	146	162	2,621	20	-	44	2	8
16 to 17 years	1,137	97	35	1,005	11	1	20	2	2
18 to 19 years	1,792	49	127	1,616	9	-	24	-	7
20 to 24 years	6,055	78	657	5,320	100	3	55	9	2
25 to 34 years	13,990	165	2,367	11,459	689	57	106	33	16
35 to 44 years	11,661	138	2,845	8,678	879	66	51	38	16
45 to 54 years	7,364	174	1,885	5,305	578	54	59	58	20
55 to 64 years	4,295	136	1,000	3,159	383	30	33	39	8
55 to 59 years	2,597	78	611	1,908	217	21	15	24	7
60 to 64 years	1,698	58	389	1,251	165	9	18	15	-
65 years and over	1,083	117	231	734	173	15	8	21	1

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	March 1988												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	2,902	85	77	17	12	94		12	31	19	35	16	2,503
Mining	753	115	77	39	13	91		4	248	32	106	27	1
Construction	6,883	997	111	45	60	400		17	3,934	85	473	740	21
Manufacturing	21,223	2,339	1,830	710	783	2,444		301	4,031	6,655	870	1,174	86
Durable goods	12,595	1,454	1,256	455	336	1,337		169	2,822	3,633	436	616	81
Nondurable goods	8,629	886	573	255	447	1,107		133	1,210	3,022	433	557	5
Transportation and public utilities	7,969	871	485	283	298	2,128		288	1,324	107	1,741	440	5
Wholesale and retail trade	23,144	1,950	394	99	9,707	2,305		4,199	1,520	260	894	1,786	28
Wholesale trade	4,512	505	56	34	1,831	775		39	303	108	464	382	14
Retail trade	18,632	1,445	338	65	7,876	1,530		4,161	1,217	152	430	1,404	14
Finance, insurance, and real estate	7,849	1,943	201	141	1,857	3,147	-	284	162	24	18	20	52
Services	36,772	4,423	11,118	1,919	818	6,251	855	7,639	1,834	768	493	361	291
Private households	1,094	2	12	9	-	9	855	120	14	-	7	25	42
Other service industries	35,678	4,421	11,106	1,910	819	6,242	-	7,519	1,820	768	486	336	250
Professional services	24,082	2,437	9,917	1,566	148	4,581		4,331	392	239	310	104	57
Public administration	5,369	1,135	774	245	26	1,516		1,292	221	46	42	47	25

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					
	Mar. 1987	Mar. 1988	Total		Wage and salary workers ¹			
			Mar. 1987	Mar. 1988	Paid absences		Unpaid absences	
					Mar. 1987	Mar. 1988	Mar. 1987	Mar. 1988
Total, 16 years and over	4,413	4,389	4,279	4,225	1,960	1,860	1,808	1,792
Vacation	1,871	1,710	1,827	1,662	1,182	1,008	476	459
Illness	1,357	1,506	1,339	1,471	529	604	689	737
Bad weather	123	150	90	116	(²)	(²)	(²)	(²)
Industrial dispute	19	37	19	37	(²)	(²)	(²)	(²)
All other reasons	1,043	985	1,003	939	248	248	644	596
Men, 16 years and over	2,208	2,313	2,107	2,194	982	997	817	832
Vacation	959	925	921	894	625	572	198	217
Illness	696	791	684	762	287	326	332	360
All other reasons ³	553	597	502	538	70	98	287	254
Women, 16 years and over	2,206	2,076	2,172	2,031	978	862	990	962
Vacation	912	785	906	767	557	435	278	241
Illness	661	715	655	710	242	278	357	377
All other reasons ³	632	575	611	554	179	148	356	343

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	March 1988					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	108,478	2,739	105,739	100.0	100.0	100.0
1 to 34 hours	25,664	817	24,848	23.7	29.8	23.5
1 to 4 hours	806	42	764	.7	1.5	.7
5 to 14 hours	4,689	195	4,495	4.3	7.1	4.3
15 to 29 hours	12,900	382	12,518	11.9	13.9	11.8
30 to 34 hours	7,269	198	7,071	6.7	7.2	6.7
35 hours and over	82,813	1,922	80,892	76.3	70.2	76.5
35 to 39 hours	7,212	145	7,068	6.6	5.3	6.7
40 hours	43,431	594	42,837	40.0	21.7	40.5
41 hours and over	32,170	1,183	30,987	29.7	43.2	29.3
41 to 48 hours	11,671	241	11,430	10.8	8.8	10.8
49 to 59 hours	11,705	343	11,362	10.8	12.5	10.7
60 hours and over	8,794	599	8,195	8.1	21.9	7.8
Average hours, total at work	39.3	42.6	39.2			
Average hours, workers on full-time schedules	43.8	49.7	43.6			

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

(Numbers in thousands)

Reason for working less than 35 hours	March 1988					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	25,664	6,770	18,895	24,848	6,482	18,367
Economic reasons	5,129	1,801	3,328	4,932	1,696	3,236
Slack work	2,520	1,539	981	2,371	1,442	929
Material shortages or repairs to plant and equipment	64	64	-	63	63	-
New job started during week	143	143	-	139	139	-
Job terminated during week	54	54	-	51	51	-
Could find only part-time work	2,347	-	2,347	2,307	-	2,307
Other reasons	20,534	4,967	15,567	19,914	4,783	15,131
Does not want, or unavailable for, full-time work	13,346	-	13,346	13,012	-	13,012
Vacation	1,106	1,106	-	1,092	1,092	-
Illness	1,793	1,635	158	1,751	1,598	153
Bad weather	380	380	-	326	326	-
Industrial dispute	-	-	-	-	-	-
Legal or religious holiday	90	90	-	90	90	-
Full time for this job	1,454	-	1,454	1,415	-	1,415
All other reasons	2,368	1,758	610	2,229	1,678	551
Average hours:						
Economic reasons	22.6	24.8	21.4	22.7	24.9	21.5
Other reasons	20.8	25.8	19.2	20.9	25.9	19.3
Worked 30 to 34 hours:						
Economic reasons	1,775	877	898	1,719	834	885
Other reasons	5,494	2,533	2,961	5,352	2,458	2,894

**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	March 1988								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	105,739	4,932	15,131	85,676	54,689	11,430	19,557	39.2	43.6
Wage and salary workers	97,817	4,244	13,877	79,896	52,175	10,814	16,907	39.1	43.3
Mining	892	16	19	657	343	111	203	45.0	48.3
Construction	5,329	422	241	4,686	3,259	564	843	39.8	42.4
Manufacturing	20,134	525	693	18,916	12,015	3,194	3,707	42.1	43.3
Durable goods	11,955	220	297	11,438	7,168	1,908	2,364	42.6	43.5
Nondurable goods	8,179	305	398	7,478	4,848	1,288	1,342	41.2	43.0
Transportation and public utilities	7,287	232	399	6,656	4,300	882	1,474	42.1	44.0
Wholesale and retail trade	20,519	1,289	5,012	14,218	8,430	2,207	3,581	36.8	44.0
Finance, insurance, and real estate	7,037	138	673	6,226	4,387	687	1,152	39.8	42.3
Service industries	31,839	1,548	6,324	23,767	15,828	2,712	5,227	37.3	43.3
Private households	1,046	180	479	387	222	56	109	26.2	47.0
All other industries	30,593	1,388	5,845	23,380	15,606	2,656	5,118	37.7	43.2
Public administration	5,179	72	318	4,789	3,612	457	720	40.4	42.1
Self-employed workers	7,662	663	1,358	5,641	2,439	601	2,601	40.6	48.5
Unpaid family workers	261	25	96	140	74	16	50	35.2	46.2

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	March 1988							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Total, 16 years and over	105,739	4,932	15,131	85,676	54,689	30,987	39.2	43.6
16 to 19 years	5,600	346	3,575	1,679	1,381	298	23.6	39.3
16 to 17 years	2,192	78	1,927	187	162	25	17.2	34.6
18 to 19 years	3,408	269	1,647	1,492	1,219	273	27.7	39.9
20 years and over	100,139	4,586	11,556	83,997	53,308	30,689	40.1	43.7
20 to 24 years	12,254	901	2,256	9,097	6,299	2,798	36.7	42.4
25 years and over	87,885	3,684	9,299	74,902	47,012	27,890	40.5	43.9
25 to 44 years	57,862	2,401	5,157	50,304	31,125	19,179	41.1	44.0
45 to 64 years	27,343	1,136	2,917	23,290	14,960	8,330	40.3	43.7
65 years and over	2,681	145	1,226	1,310	928	382	29.8	42.4
Men, 16 years and over	57,345	2,293	4,443	50,609	28,663	21,946	42.2	45.2
16 to 19 years	2,759	170	1,681	908	729	179	24.8	39.8
16 to 17 years	1,085	41	923	121	110	11	18.3	33.6
18 to 19 years	1,674	129	758	787	619	168	29.1	40.7
20 years and over	54,586	2,123	2,762	49,701	27,933	21,768	43.1	45.3
20 to 24 years	6,289	448	972	4,869	3,101	1,768	38.4	43.7
25 years and over	48,296	1,673	1,790	44,833	24,835	19,998	43.7	45.5
25 to 44 years	31,528	1,102	689	29,737	16,054	13,683	44.4	45.7
45 to 64 years	15,267	501	514	14,252	8,205	6,047	43.4	45.0
65 years and over	1,502	72	587	843	574	269	32.0	43.2
Women, 16 years and over	48,394	2,639	10,688	35,067	26,027	9,040	35.6	41.4
16 to 19 years	2,841	177	1,894	770	651	119	22.4	38.6
16 to 17 years	1,107	36	1,005	66	53	13	16.0	(¹)
18 to 19 years	1,734	140	889	705	600	105	26.5	38.9
20 years and over	45,553	2,462	8,794	34,297	25,375	8,922	36.4	41.5
20 to 24 years	5,965	453	1,284	4,228	3,197	1,031	34.9	41.0
25 years and over	39,588	2,011	7,510	30,067	22,177	7,890	36.6	41.6
25 to 44 years	26,335	1,300	4,468	20,567	15,072	5,495	37.2	41.5
45 to 64 years	12,075	637	2,403	9,035	6,753	2,282	36.5	41.6
65 years and over	1,178	73	639	466	355	111	26.9	41.2
RACE								
White, 16 years and over	91,771	3,999	13,613	74,159	46,006	28,153	39.3	43.9
Men	50,364	1,877	3,900	44,587	24,486	20,101	42.5	45.4
Women	41,408	2,121	9,714	29,573	21,521	8,052	35.4	41.6
Black, 16 years and over	10,729	789	1,068	8,872	6,848	2,024	38.1	41.6
Men	5,258	368	360	4,530	3,236	1,294	39.7	42.8
Women	5,472	423	708	4,341	3,611	730	36.5	40.4
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,266	984	1,288	34,994	19,026	15,968	44.1	45.6
Widowed, divorced, or separated	5,640	325	240	5,075	2,828	2,247	43.0	45.4
Single (never married)	14,438	985	2,915	10,538	6,808	3,730	37.1	43.7
Women, 16 years and over:								
Married, spouse present	27,088	1,388	6,233	19,467	14,659	4,808	35.4	41.2
Widowed, divorced, or separated	9,368	568	1,206	7,594	5,445	2,149	38.1	42.0
Single (never married)	11,938	682	3,249	8,007	5,924	2,083	33.9	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	March 1988								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over ¹	105,636	4,912	15,121	85,603	54,544	11,450	19,609	39.2	43.7
Managerial and professional specialty	27,915	542	2,582	24,791	13,363	3,290	8,138	42.6	45.5
Executive, administrative, and managerial	13,416	162	730	12,524	6,304	1,662	4,558	44.6	46.2
Professional specialty	14,498	380	1,852	12,267	7,059	1,628	3,580	40.8	44.7
Technical, sales, and administrative support	34,232	1,239	6,408	26,585	18,125	3,330	5,130	37.7	42.8
Technicians and related support	3,392	61	417	2,914	1,971	392	551	39.8	42.9
Sales occupations	13,106	655	2,747	9,704	4,979	1,379	3,346	39.1	45.9
Administrative support, including clerical	17,734	524	3,244	13,967	11,175	1,559	1,233	36.2	40.5
Service occupations	14,218	1,359	4,202	8,656	6,345	937	1,374	33.4	42.4
Private household	827	133	423	271	173	36	63	23.9	44.8
Protective service	1,750	55	166	1,528	969	199	360	41.6	44.8
Service, except private household and protective	11,642	1,171	3,614	6,857	5,204	702	951	32.8	41.8
Precision production, craft, and repair	12,765	720	427	11,618	7,461	1,750	2,407	41.6	43.5
Operators, fabricators, and laborers	16,506	1,051	1,503	13,953	9,250	2,143	2,560	39.7	43.1
Machine operators, assemblers, and inspectors	7,676	370	340	6,965	4,877	1,119	970	40.5	42.2
Transportation and material moving occupations	4,413	256	375	3,781	2,027	550	1,205	42.4	45.9
Handlers, equipment cleaners, helpers, and laborers	4,418	425	787	3,206	2,346	474	385	35.8	41.6
Men, 16 years and over ¹	57,114	2,259	4,388	50,467	28,487	7,231	14,748	42.3	45.2
Managerial and professional specialty	15,631	257	713	14,661	6,770	1,891	6,000	45.6	47.3
Executive, administrative, and managerial	8,250	98	250	7,902	3,389	972	3,541	46.8	47.9
Professional specialty	7,380	159	463	6,759	3,381	919	2,458	44.2	46.5
Technical, sales, and administrative support	11,989	251	1,196	10,542	5,550	1,560	3,433	42.6	45.8
Technicians and related support	1,762	25	114	1,624	1,003	231	389	42.1	44.0
Sales occupations	6,805	148	659	5,998	2,460	922	2,616	44.7	48.1
Administrative support, including clerical	3,421	78	422	2,921	2,087	407	427	38.8	42.1
Service occupations	5,648	400	1,136	4,112	2,862	465	785	37.0	43.8
Private household	31	10	15	6	-	-	6	(²)	(²)
Protective service	1,528	42	93	1,393	865	185	342	42.9	45.1
Service, except private household and protective	4,089	347	1,029	2,713	1,996	280	437	35.0	43.1
Precision production, craft, and repair	11,637	642	324	10,671	6,756	1,633	2,282	41.9	43.6
Operators, fabricators, and laborers	12,210	709	1,020	10,482	6,549	1,683	2,249	40.6	43.8
Machine operators, assemblers, and inspectors	4,504	153	138	4,213	2,741	740	732	41.8	43.1
Transportation and material moving occupations	4,016	212	244	3,560	1,856	534	1,170	43.3	46.2
Handlers, equipment cleaners, helpers, and laborers	3,690	343	638	2,709	1,953	409	348	36.0	41.8
Women, 16 years and over ¹	48,522	2,653	10,733	35,136	26,057	4,219	4,861	35.6	41.5
Managerial and professional specialty	12,284	285	1,869	10,130	6,592	1,399	2,139	38.9	42.9
Executive, administrative, and managerial	5,166	64	480	4,622	2,915	690	1,017	41.1	43.3
Professional specialty	7,118	221	1,389	5,509	3,678	709	1,122	37.3	42.5
Technical, sales, and administrative support	22,244	989	5,212	16,043	12,576	1,770	1,698	35.0	40.7
Technicians and related support	1,630	36	303	1,291	968	161	162	37.3	41.6
Sales occupations	6,300	506	2,088	3,706	2,519	457	730	33.1	42.4
Administrative support, including clerical	14,313	446	2,821	11,047	9,088	1,152	806	35.6	40.1
Service occupations	8,570	960	3,066	4,545	3,484	472	589	31.0	41.2
Private household	796	122	408	265	172	36	57	24.0	44.5
Protective service	222	13	73	135	103	14	18	32.8	42.0
Service, except private household and protective	7,553	824	2,585	4,144	3,208	422	514	31.7	41.0
Precision production, craft, and repair	1,128	78	103	947	705	117	125	38.7	41.6
Operators, fabricators, and laborers	4,296	342	483	3,471	2,700	460	311	37.3	40.9
Machine operators, assemblers, and inspectors	3,172	217	203	2,753	2,136	379	238	38.5	40.8
Transportation and material moving occupations	397	44	131	222	171	15	35	33.1	41.9
Handlers, equipment cleaners, helpers, and laborers	727	81	149	496	393	66	38	34.3	40.9

¹ Excludes farming, forestry, and fishing occupations.

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-32. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Employment status and sex	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
TOTAL													
Noninstitutional population ¹	183,915	184,079	184,259	184,421	184,605	184,738	184,904	185,052	185,225	185,370	185,571	185,705	185,847
Labor force ¹	120,982	121,098	121,633	121,326	121,610	122,042	121,706	122,128	122,349	122,472	122,924	123,084	122,639
Percent of population ²	65.8	65.8	66.0	65.8	65.9	66.1	65.8	66.0	66.1	66.1	66.2	66.3	66.0
Total employed ¹	113,191	113,541	114,060	114,018	114,359	114,786	114,615	114,951	115,259	115,494	115,878	116,145	115,839
Employment-population ratio ³	61.5	61.7	61.9	61.8	61.9	62.1	62.0	62.1	62.2	62.3	62.4	62.5	62.3
Resident Armed Forces	1,736	1,735	1,726	1,718	1,720	1,736	1,743	1,741	1,755	1,750	1,749	1,736	1,736
Civilian employed	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103
Agriculture	3,237	3,250	3,269	3,192	3,212	3,143	3,184	3,249	3,172	3,215	3,293	3,228	3,234
Nonagricultural industries	108,218	108,556	109,065	109,108	109,427	109,907	109,688	109,961	110,332	110,529	110,836	111,182	110,899
Unemployed	7,791	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801
Unemployment rate ⁴	6.4	6.2	6.2	6.0	6.0	5.9	5.8	5.9	5.8	5.7	5.7	5.6	5.5
Not in labor force	62,933	62,981	62,626	63,095	62,995	62,696	63,198	62,924	62,876	62,898	62,647	62,621	63,208
Men													
Noninstitutional population ¹	88,186	88,271	88,361	88,442	88,534	88,598	88,683	88,756	88,849	88,924	89,033	89,099	89,168
Labor force ¹	67,590	67,604	67,802	67,623	67,671	67,937	67,776	67,947	68,019	68,030	68,243	68,343	68,148
Percent of population ²	76.6	76.6	76.7	76.5	76.4	76.7	76.4	76.6	76.6	76.5	76.6	76.7	76.4
Total employed ¹	63,263	63,390	63,543	63,543	63,711	63,916	63,949	64,048	64,174	64,245	64,396	64,636	64,332
Employment-population ratio ³	71.7	71.8	71.9	71.8	72.0	72.1	72.1	72.2	72.2	72.2	72.3	72.5	72.1
Resident Armed Forces	1,575	1,575	1,566	1,559	1,561	1,575	1,581	1,580	1,593	1,589	1,588	1,577	1,573
Civilian employed	61,688	61,815	61,977	61,984	62,150	62,341	62,368	62,468	62,581	62,656	62,808	63,059	62,759
Unemployed	4,327	4,214	4,259	4,080	3,960	4,021	3,827	3,899	3,845	3,785	3,847	3,707	3,816
Unemployment rate ⁴	6.4	6.2	6.3	6.0	5.9	5.9	5.6	5.7	5.7	5.6	5.6	5.4	5.6
Not in labor force	20,596	20,667	20,559	20,819	20,863	20,661	20,907	20,809	20,830	20,894	20,790	20,756	21,020
Women													
Noninstitutional population ¹	95,729	95,808	95,898	95,979	96,071	96,140	96,221	96,295	96,376	96,446	96,538	96,606	96,679
Labor force ¹	53,392	53,494	53,831	53,703	53,939	54,105	53,930	54,181	54,330	54,442	54,681	54,740	54,491
Percent of population ²	55.8	55.8	56.1	56.0	56.1	56.3	56.0	56.3	56.4	56.4	56.6	56.7	56.4
Total employed ¹	49,928	50,151	50,517	50,475	50,648	50,870	50,666	50,903	51,085	51,249	51,482	51,509	51,507
Employment-population ratio ³	52.2	52.3	52.7	52.6	52.7	52.9	52.7	52.9	53.0	53.1	53.3	53.3	53.3
Resident Armed Forces	161	160	160	159	159	161	162	161	162	161	161	159	163
Civilian employed	49,767	49,991	50,357	50,316	50,489	50,709	50,504	50,742	50,923	51,088	51,321	51,350	51,344
Unemployed	3,464	3,343	3,314	3,228	3,291	3,235	3,264	3,278	3,245	3,193	3,200	3,231	2,985
Unemployment rate ⁴	6.5	6.2	6.2	6.0	6.1	6.0	6.1	6.1	6.0	5.9	5.9	5.9	5.5
Not in labor force	42,337	42,314	42,067	42,276	42,132	42,035	42,291	42,114	42,046	42,004	41,857	41,866	42,188

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

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ Unemployment as a percent of the labor force (including the resident

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-33. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
TOTAL													
Civilian noninstitutional population ¹	182,179	182,344	182,533	182,703	182,885	183,002	183,161	183,311	183,470	183,620	183,822	183,969	184,111
Civilian labor force	119,246	119,363	119,907	119,608	119,890	120,306	119,963	120,387	120,594	120,722	121,175	121,348	120,903
Percent of population	65.5	65.5	65.7	65.5	65.6	65.7	65.5	65.7	65.7	65.7	65.9	66.0	65.7
Employed	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103
Employment-population ratio ²	61.2	61.3	61.5	61.5	61.6	61.8	61.6	61.8	61.9	61.9	62.1	62.2	62.0
Unemployed	7,791	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801
Unemployment rate	6.5	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6
Men, 20 years and over													
Civilian noninstitutional population ¹	79,303	79,387	79,474	79,536	79,625	79,668	79,740	79,807	79,885	80,002	80,120	80,203	80,260
Civilian labor force	61,933	61,970	62,129	62,054	62,106	62,083	62,085	62,211	62,299	62,248	62,440	62,696	62,497
Percent of population	78.1	78.1	78.2	78.0	78.0	77.9	77.9	78.0	78.0	77.8	77.9	78.2	77.9
Employed	58,380	58,516	58,673	58,632	58,783	58,825	58,967	59,037	59,164	59,185	59,287	59,625	59,407
Employment-population ratio ²	73.6	73.7	73.8	73.7	73.8	73.8	73.9	74.0	74.1	74.0	74.0	74.3	74.0
Agriculture	2,361	2,378	2,383	2,316	2,333	2,289	2,345	2,343	2,297	2,298	2,323	2,280	2,253
Nonagricultural industries	56,019	56,138	56,290	56,316	56,450	56,536	56,622	56,694	56,867	56,887	56,964	57,344	57,154
Unemployed	3,553	3,454	3,456	3,422	3,323	3,258	3,118	3,174	3,135	3,063	3,154	3,071	3,089
Unemployment rate	5.7	5.6	5.6	5.5	5.4	5.2	5.0	5.1	5.0	4.9	5.1	4.9	4.9
Not in labor force	17,370	17,417	17,345	17,482	17,519	17,585	17,655	17,596	17,586	17,754	17,680	17,507	17,763
Women, 20 years and over													
Civilian noninstitutional population ¹	88,321	88,395	88,464	88,546	88,632	88,685	88,785	88,843	88,923	89,010	89,110	89,178	89,261
Civilian labor force	49,414	49,494	49,728	49,722	49,886	49,969	49,922	50,095	50,254	50,361	50,558	50,640	50,542
Percent of population	55.9	56.0	56.2	56.2	56.3	56.3	56.2	56.4	56.5	56.6	56.7	56.8	56.6
Employed	46,582	46,761	47,028	47,088	47,206	47,308	47,251	47,480	47,634	47,750	47,977	48,005	48,132
Employment-population ratio ²	52.7	52.9	53.2	53.2	53.3	53.3	53.2	53.4	53.6	53.6	53.8	53.8	53.9
Agriculture	602	603	629	619	620	609	600	636	636	643	646	654	656
Nonagricultural industries	45,980	46,158	46,399	46,469	46,586	46,699	46,651	46,844	46,998	47,107	47,331	47,351	47,476
Unemployed	2,832	2,733	2,700	2,634	2,680	2,661	2,671	2,615	2,620	2,611	2,581	2,635	2,411
Unemployment rate	5.7	5.5	5.4	5.3	5.4	5.3	5.4	5.2	5.2	5.2	5.1	5.2	4.8
Not in labor force	38,907	38,901	38,736	38,824	38,746	38,716	38,863	38,748	38,669	38,649	38,552	38,538	38,719
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,555	14,562	14,595	14,621	14,628	14,649	14,637	14,661	14,663	14,609	14,592	14,588	14,591
Civilian labor force	7,899	7,899	8,050	7,832	7,898	8,254	7,956	8,081	8,041	8,113	8,177	8,011	7,865
Percent of population	54.3	54.2	55.2	53.6	54.0	56.3	54.4	55.1	54.8	55.5	56.0	54.9	53.9
Employed	6,493	6,529	6,633	6,580	6,650	6,917	6,654	6,693	6,706	6,809	6,865	6,779	6,564
Employment-population ratio ²	44.6	44.8	45.4	45.0	45.5	47.2	45.5	45.7	45.7	46.6	47.0	46.5	45.0
Agriculture	274	269	257	257	259	245	239	270	239	274	323	293	295
Nonagricultural industries	6,219	6,260	6,376	6,323	6,391	6,672	6,415	6,423	6,467	6,535	6,542	6,486	6,269
Unemployed	1,406	1,370	1,417	1,252	1,248	1,337	1,302	1,388	1,335	1,304	1,312	1,232	1,301
Unemployment rate	17.8	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5
Not in labor force	6,656	6,663	6,545	6,789	6,730	6,395	6,681	6,580	6,622	6,496	6,415	6,577	6,726

¹ The population figures are not adjusted for seasonal variation.

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

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
WHITE													
Civilian noninstitutional population ¹	156,561	156,676	156,811	156,930	157,058	157,134	157,242	157,342	157,449	157,552	157,676	157,773	157,868
Civilian labor force	102,836	102,972	103,416	103,150	103,248	103,516	103,357	103,669	103,731	103,907	104,252	104,530	104,171
Percent of population	65.7	65.7	65.9	65.7	65.7	65.9	65.7	65.9	65.9	66.0	66.1	66.3	66.0
Employed	97,074	97,338	97,829	97,698	97,917	98,181	98,069	98,317	98,492	98,779	99,044	99,474	99,274
Employment-population ratio ²	62.0	62.1	62.4	62.3	62.3	62.5	62.4	62.5	62.6	62.7	62.8	63.0	62.9
Unemployed	5,762	5,634	5,587	5,452	5,331	5,335	5,288	5,352	5,239	5,128	5,208	5,058	4,897
Unemployment rate	5.6	5.5	5.4	5.3	5.2	5.2	5.1	5.2	5.1	4.9	5.0	4.8	4.7
Men, 20 years and over													
Civilian labor force	54,097	54,124	54,238	54,227	54,198	54,183	54,213	54,375	54,381	54,368	54,455	54,650	54,522
Percent of population	78.4	78.4	78.5	78.4	78.3	78.2	78.2	78.4	78.3	78.2	78.3	78.5	78.2
Employed	51,371	51,460	51,626	51,591	51,670	51,715	51,803	51,864	51,969	52,046	52,053	52,389	52,245
Employment-population ratio ²	74.5	74.5	74.7	74.6	74.7	74.7	74.7	74.8	74.9	74.9	74.8	75.2	75.0
Unemployed	2,726	2,664	2,612	2,636	2,528	2,468	2,410	2,511	2,412	2,322	2,402	2,260	2,277
Unemployment rate	5.0	4.9	4.8	4.9	4.7	4.6	4.4	4.6	4.4	4.3	4.4	4.1	4.2
Women, 20 years and over													
Civilian labor force	41,877	41,984	42,182	42,137	42,241	42,332	42,308	42,379	42,464	42,569	42,710	42,915	42,841
Percent of population	55.4	55.5	55.7	55.6	55.7	55.8	55.7	55.7	55.8	55.9	56.1	56.3	56.2
Employed	39,890	40,032	40,268	40,265	40,343	40,449	40,409	40,538	40,606	40,712	40,896	40,985	41,183
Employment-population ratio ²	52.7	52.9	53.1	53.1	53.2	53.3	53.2	53.3	53.4	53.5	53.7	53.8	54.0
Unemployed	1,987	1,952	1,914	1,872	1,898	1,883	1,899	1,841	1,858	1,857	1,813	1,930	1,658
Unemployment rate	4.7	4.6	4.5	4.4	4.5	4.4	4.5	4.3	4.4	4.4	4.2	4.5	3.9
Both sexes, 16 to 19 years													
Civilian labor force	6,862	6,864	6,996	6,786	6,809	7,001	6,836	6,915	6,886	6,970	7,087	6,965	6,807
Percent of population	57.5	57.5	58.5	56.7	56.9	58.5	57.2	57.9	57.7	58.6	59.6	58.6	57.2
Employed	5,813	5,846	5,935	5,842	5,904	6,017	5,857	5,915	5,917	6,021	6,095	6,100	5,845
Employment-population ratio ²	48.7	48.9	49.7	48.8	49.3	50.3	49.0	49.5	49.6	50.6	51.2	51.3	49.1
Unemployed	1,049	1,018	1,061	944	905	984	979	1,000	969	949	992	865	962
Unemployment rate	15.3	14.8	15.2	13.9	13.3	14.1	14.3	14.5	14.1	13.6	14.0	12.4	14.1
Men	16.8	16.3	17.0	14.8	13.5	15.2	15.1	15.1	14.8	14.9	14.4	12.2	15.7
Women	13.7	13.3	13.3	13.0	13.1	12.9	13.4	13.8	13.3	12.3	13.6	12.7	12.4
BLACK													
Civilian noninstitutional population ¹	20,249	20,279	20,312	20,341	20,373	20,396	20,426	20,453	20,482	20,508	20,539	20,569	20,596
Civilian labor force	12,853	12,778	12,889	12,892	13,039	13,150	13,028	13,152	13,193	13,215	13,222	13,168	13,098
Percent of population	63.5	63.0	63.5	63.4	64.0	64.5	63.8	64.3	64.4	64.4	64.4	64.0	63.6
Employed	11,072	11,114	11,129	11,238	11,381	11,513	11,421	11,556	11,589	11,605	11,608	11,504	11,420
Employment-population ratio ²	54.7	54.8	54.8	55.2	55.9	56.4	55.9	56.5	56.6	56.6	56.5	55.9	55.4
Unemployed	1,781	1,664	1,760	1,654	1,658	1,637	1,607	1,596	1,604	1,610	1,614	1,663	1,678
Unemployment rate	13.9	13.0	13.7	12.8	12.7	12.4	12.3	12.1	12.2	12.2	12.2	12.6	12.8
Men, 20 years and over													
Civilian labor force	5,995	5,980	6,037	6,003	6,061	6,054	6,032	6,023	6,045	6,043	6,115	6,166	6,127
Percent of population	74.8	74.4	75.0	74.5	75.1	74.9	74.5	74.3	74.5	74.3	75.0	75.6	75.0
Employed	5,298	5,322	5,296	5,319	5,384	5,407	5,421	5,431	5,430	5,430	5,497	5,472	5,429
Employment-population ratio ²	66.1	66.3	65.8	66.0	66.7	66.9	67.0	67.0	66.9	66.8	67.5	67.1	66.4
Unemployed	697	658	741	684	677	647	611	592	615	613	618	694	699
Unemployment rate	11.6	11.0	12.3	11.4	11.2	10.7	10.1	9.8	10.2	10.1	10.1	11.3	11.4
Women, 20 years and over													
Civilian labor force	5,994	5,943	5,987	6,033	6,116	6,122	6,067	6,177	6,207	6,224	6,244	6,131	6,136
Percent of population	59.5	58.9	59.3	59.6	60.4	60.3	59.7	60.7	60.9	61.0	61.1	59.9	59.9
Employed	5,230	5,254	5,292	5,349	5,417	5,430	5,357	5,495	5,537	5,544	5,550	5,495	5,465
Employment-population ratio ²	51.9	52.1	52.4	52.9	53.5	53.5	52.7	54.0	54.3	54.3	54.3	53.7	53.3
Unemployed	764	689	695	684	699	692	710	682	670	680	694	636	671
Unemployment rate	12.7	11.6	11.6	11.3	11.4	11.3	11.7	11.0	10.8	10.9	11.1	10.4	10.9

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	864	855	865	856	862	974	929	952	941	948	863	870	834
Percent of population	40.1	39.6	40.0	39.5	39.8	44.9	42.8	43.8	43.3	43.7	39.8	40.0	38.3
Employed	544	538	541	570	580	676	643	630	622	631	561	537	526
Employment-population ratio ²	25.2	24.9	25.0	26.3	26.8	31.2	29.6	29.0	28.6	29.1	25.8	24.7	24.2
Unemployed	320	317	324	286	282	298	286	322	319	317	302	333	308
Unemployment rate	37.0	37.1	37.5	33.4	32.7	30.6	30.8	33.8	33.9	33.4	35.0	38.3	36.9
Men	36.1	37.8	38.3	31.4	32.4	33.7	31.5	32.5	32.2	33.5	35.1	42.0	39.0
Women	38.0	36.3	36.6	35.4	33.1	27.1	30.0	35.2	35.8	33.4	34.9	34.7	35.0
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,732	12,770	12,809	12,848	12,887	12,925	12,965	13,003	13,043	13,082	13,115	13,153	13,192
Civilian labor force	8,395	8,468	8,549	8,468	8,447	8,549	8,581	8,654	8,763	8,772	8,879	9,017	8,803
Percent of population	65.9	66.3	66.7	65.9	65.5	66.1	66.2	66.6	67.2	67.1	67.7	68.6	66.7
Employed	7,632	7,686	7,797	7,738	7,762	7,856	7,877	7,935	7,978	8,058	8,238	8,268	8,079
Employment-population ratio ²	59.9	60.2	60.9	60.2	60.2	60.8	60.8	61.0	61.2	61.6	62.8	62.9	61.2
Unemployed	763	782	752	730	685	693	704	719	785	714	642	749	724
Unemployment rate	9.1	9.2	8.8	8.6	8.1	8.1	8.2	8.3	9.0	8.1	7.2	8.3	8.2

¹ The population figures are not adjusted for seasonal variation.

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

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

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

(In thousands)

Category	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
CHARACTERISTIC													
Total	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103
Married men, spouse present	40,054	40,021	40,075	40,120	40,262	40,308	40,404	40,556	40,645	40,711	40,404	40,475	40,481
Married women, spouse present	27,966	28,130	28,314	28,282	28,283	28,189	28,069	28,099	28,175	28,249	28,441	28,707	28,805
Women who maintain families	5,946	5,971	5,963	6,011	6,033	6,107	6,151	6,178	6,237	6,227	6,168	6,157	6,160
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,689	1,599	1,672	1,622	1,625	1,591	1,624	1,705	1,595	1,599	1,666	1,677	1,648
Self-employed workers	1,416	1,488	1,429	1,403	1,424	1,393	1,415	1,430	1,407	1,450	1,454	1,414	1,423
Unpaid family workers	152	170	165	162	153	155	139	140	155	156	138	114	142
Nonagricultural industries:													
Wage and salary workers	99,863	100,106	100,634	100,510	100,825	101,241	101,282	101,522	101,943	101,997	102,507	102,683	102,279
Government	16,594	16,518	16,708	16,920	16,876	16,794	16,928	17,033	17,118	17,064	17,197	16,948	16,908
Private industries	83,269	83,588	83,926	83,590	83,949	84,447	84,354	84,489	84,825	84,933	85,310	85,735	85,371
Private households	1,227	1,234	1,240	1,163	1,212	1,175	1,100	1,222	1,286	1,200	1,147	1,170	1,175
Other industries	82,042	82,354	82,686	82,427	82,737	83,272	83,254	83,267	83,539	83,733	84,163	84,565	84,196
Self-employed workers	8,082	8,139	8,157	8,293	8,216	8,214	8,204	8,274	8,222	8,280	8,150	8,312	8,366
Unpaid family workers	270	268	276	274	266	248	297	242	235	248	237	228	248
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,459	5,394	5,333	5,254	5,428	5,283	5,261	5,353	5,534	5,262	5,367	5,566	5,343
Slack work	2,438	2,345	2,292	2,345	2,429	2,468	2,213	2,377	2,408	2,284	2,396	2,478	2,520
Could only find part-time work	2,707	2,725	2,677	2,623	2,683	2,526	2,683	2,655	2,696	2,638	2,640	2,598	2,535
Voluntary part time	14,201	13,940	14,498	14,836	14,437	14,573	14,415	14,488	14,523	14,711	14,571	14,572	14,603
Nonagricultural industries:													
Part time for economic reasons	5,180	5,104	5,058	4,979	5,154	5,016	4,986	5,067	5,241	5,004	5,145	5,254	5,106
Slack work	2,234	2,163	2,126	2,176	2,261	2,265	2,034	2,196	2,209	2,111	2,260	2,327	2,325
Could only find part-time work	2,612	2,648	2,603	2,530	2,599	2,463	2,603	2,557	2,597	2,552	2,566	2,457	2,475
Voluntary part time	13,717	13,544	13,995	14,334	13,953	14,099	13,987	14,011	14,064	14,222	14,096	14,123	14,141

¹ Excludes persons "with a job but not at work" during the survey

period for such reasons as vacation, illness, or industrial dispute.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total, 16 years and over	111,455	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103
16 to 24 years	20,148	20,109	20,208	20,069	20,184	20,475	20,116	20,096	20,065	20,112	20,312	20,271	19,916
16 to 19 years	6,493	6,529	6,633	6,580	6,650	6,917	6,654	6,693	6,706	6,809	6,865	6,779	6,564
16 to 17 years	2,670	2,655	2,702	2,694	2,760	2,849	2,754	2,768	2,734	2,826	2,776	2,752	2,657
18 to 19 years	3,834	3,872	3,930	3,871	3,875	3,996	3,911	3,936	3,985	3,994	4,061	4,045	3,906
20 to 24 years	13,655	13,580	13,575	13,489	13,534	13,558	13,462	13,403	13,359	13,303	13,447	13,491	13,353
25 years and over	91,343	91,675	92,087	92,234	92,551	92,606	92,735	93,071	93,424	93,625	93,778	94,118	94,239
25 to 54 years	76,900	77,294	77,621	77,726	78,015	78,202	78,307	78,477	78,731	78,916	79,170	79,351	79,588
55 years and over	14,391	14,373	14,452	14,537	14,497	14,498	14,491	14,641	14,663	14,716	14,581	14,673	14,566
Men, 16 years and over	61,688	61,815	61,977	61,984	62,150	62,341	62,368	62,468	62,581	62,656	62,808	63,059	62,759
16 to 24 years	10,463	10,423	10,392	10,366	10,441	10,586	10,448	10,403	10,370	10,369	10,456	10,444	10,349
16 to 19 years	3,308	3,299	3,304	3,352	3,367	3,516	3,401	3,431	3,417	3,471	3,521	3,434	3,352
16 to 17 years	1,362	1,353	1,362	1,373	1,417	1,410	1,391	1,409	1,390	1,451	1,444	1,406	1,376
18 to 19 years	1,953	1,948	1,940	1,960	1,938	2,046	2,021	2,034	2,040	2,035	2,053	2,046	1,982
20 to 24 years	7,155	7,124	7,088	7,014	7,074	7,070	7,047	6,972	6,953	6,898	6,935	7,010	6,998
25 years and over	51,261	51,385	51,554	51,601	51,733	51,781	51,900	52,047	52,210	52,299	52,338	52,623	52,469
25 to 54 years	42,743	42,904	43,002	43,071	43,203	43,289	43,408	43,488	43,592	43,690	43,848	43,992	43,975
55 years and over	8,507	8,480	8,544	8,561	8,524	8,503	8,514	8,580	8,605	8,629	8,470	8,567	8,467
Women, 16 years and over	49,767	49,991	50,357	50,316	50,489	50,709	50,504	50,742	50,923	51,088	51,321	51,350	51,344
16 to 24 years	9,685	9,686	9,816	9,703	9,743	9,889	9,668	9,693	9,695	9,743	9,857	9,826	9,567
16 to 19 years	3,185	3,230	3,329	3,228	3,283	3,401	3,253	3,262	3,289	3,338	3,344	3,345	3,212
16 to 17 years	1,308	1,302	1,340	1,321	1,343	1,439	1,363	1,359	1,344	1,375	1,332	1,346	1,281
18 to 19 years	1,881	1,924	1,990	1,911	1,937	1,950	1,890	1,902	1,945	1,959	2,008	1,999	1,924
20 to 24 years	6,500	6,456	6,487	6,475	6,460	6,488	6,415	6,431	6,406	6,405	6,513	6,481	6,355
25 years and over	40,082	40,290	40,533	40,633	40,818	40,825	40,835	41,024	41,214	41,326	41,440	41,495	41,770
25 to 54 years	34,157	34,390	34,619	34,655	34,812	34,913	34,899	34,989	35,139	35,226	35,322	35,359	35,613
55 years and over	5,884	5,893	5,908	5,976	5,973	5,995	5,977	6,061	6,058	6,087	6,111	6,106	6,099

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

(In thousands)

Sex and age	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total, 16 years and over	7,791	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801
16 to 24 years	2,951	2,902	2,895	2,756	2,701	2,736	2,692	2,689	2,641	2,547	2,659	2,525	2,637
16 to 19 years	1,406	1,370	1,417	1,252	1,248	1,337	1,302	1,388	1,335	1,304	1,312	1,232	1,301
16 to 17 years	665	620	717	623	586	638	618	710	649	613	638	580	568
18 to 19 years	741	733	702	657	624	688	701	679	691	688	689	655	732
20 to 24 years	1,545	1,532	1,478	1,504	1,453	1,399	1,390	1,301	1,306	1,243	1,347	1,293	1,336
25 years and over	4,838	4,667	4,657	4,502	4,538	4,544	4,445	4,482	4,442	4,412	4,393	4,416	4,161
25 to 54 years	4,339	4,143	4,134	4,042	4,078	4,050	3,931	3,993	3,909	3,939	3,896	3,926	3,730
55 years and over	503	505	532	475	462	483	499	474	513	488	527	499	441
Men, 16 years and over	4,327	4,214	4,259	4,080	3,960	4,021	3,827	3,899	3,845	3,785	3,847	3,707	3,816
16 to 24 years	1,586	1,576	1,586	1,474	1,415	1,518	1,435	1,432	1,414	1,378	1,456	1,333	1,423
16 to 19 years	774	760	803	658	637	763	709	725	710	722	693	636	727
16 to 17 years	347	360	401	325	292	363	341	372	356	347	348	285	313
18 to 19 years	426	401	402	357	307	387	382	354	355	367	360	354	414
20 to 24 years	812	816	783	816	778	755	726	707	704	656	763	697	696
25 years and over	2,735	2,651	2,648	2,585	2,535	2,528	2,427	2,462	2,419	2,390	2,391	2,390	2,385
25 to 54 years	2,413	2,304	2,310	2,271	2,238	2,215	2,139	2,182	2,109	2,112	2,070	2,095	2,089
55 years and over	318	327	348	301	300	302	283	277	313	282	351	305	299
Women, 16 years and over	3,464	3,343	3,314	3,228	3,291	3,235	3,264	3,278	3,245	3,193	3,200	3,231	2,985
16 to 24 years	1,365	1,326	1,309	1,282	1,286	1,218	1,257	1,257	1,227	1,169	1,203	1,192	1,214
16 to 19 years	632	610	614	594	611	574	593	663	625	582	619	596	574
16 to 17 years	318	260	316	298	294	275	277	338	293	266	290	295	255
18 to 19 years	315	332	300	300	317	301	319	325	336	321	329	301	318
20 to 24 years	733	716	695	688	675	644	664	594	602	587	584	596	640
25 years and over	2,103	2,016	2,009	1,917	2,003	2,016	2,018	2,020	2,023	2,022	2,002	2,026	1,776
25 to 54 years	1,926	1,839	1,824	1,771	1,840	1,835	1,792	1,811	1,800	1,827	1,826	1,831	1,641
55 years and over	185	178	184	174	162	181	216	197	200	206	175	194	142

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total, 16 years and over	6.5	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6
16 to 24 years	12.8	12.6	12.5	12.1	11.8	11.8	11.8	11.6	11.6	11.2	11.6	11.1	11.7
16 to 19 years	17.8	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5
16 to 17 years	19.9	18.9	21.0	16.8	17.5	18.3	18.3	20.4	19.2	17.8	18.7	17.4	17.6
18 to 19 years	16.2	15.9	15.2	14.5	13.9	14.7	15.2	14.7	14.8	14.7	14.5	13.9	15.8
20 to 24 years	10.2	10.1	9.8	10.0	9.7	9.4	9.4	8.8	8.9	8.5	9.1	8.7	9.1
25 years and over	5.0	4.8	4.8	4.7	4.7	4.7	4.6	4.6	4.5	4.5	4.5	4.5	4.2
25 to 54 years	5.3	5.1	5.1	4.9	5.0	4.9	4.8	4.8	4.7	4.8	4.7	4.7	4.5
55 years and over	3.4	3.4	3.6	3.2	3.1	3.2	3.3	3.1	3.4	3.2	3.5	3.3	2.9
Men, 16 years and over	6.6	6.4	6.4	6.2	6.0	6.1	5.8	5.9	5.8	5.7	5.8	5.6	5.7
16 to 24 years	13.2	13.1	13.2	12.4	11.9	12.5	12.1	12.1	12.0	11.7	12.2	11.3	12.1
16 to 19 years	19.0	18.7	19.6	16.4	15.9	17.8	17.3	17.4	17.2	17.2	16.4	15.6	17.8
16 to 17 years	20.3	21.0	22.7	19.1	17.1	20.5	19.7	20.9	20.4	19.3	19.4	16.9	18.5
18 to 19 years	17.9	17.1	17.2	15.4	13.7	15.9	15.9	14.8	14.8	15.3	14.9	14.7	17.3
20 to 24 years	10.2	10.3	9.9	10.4	9.9	9.6	9.3	9.2	9.2	8.7	9.9	9.0	9.1
25 years and over	5.1	4.9	4.9	4.8	4.7	4.7	4.5	4.5	4.4	4.4	4.4	4.3	4.3
25 to 54 years	5.3	5.1	5.1	5.0	4.9	4.9	4.7	4.8	4.6	4.6	4.5	4.5	4.5
55 years and over	3.6	3.7	3.9	3.4	3.4	3.4	3.2	3.1	3.5	3.2	4.0	3.4	3.4
Women, 16 years and over	6.5	6.3	6.2	6.0	6.1	6.0	6.1	6.1	6.0	5.9	5.9	5.9	5.5
16 to 24 years	12.4	12.0	11.8	11.7	11.7	11.0	11.5	11.5	11.2	10.7	10.9	10.8	11.3
16 to 19 years	16.6	15.9	15.6	15.5	15.7	14.4	15.4	16.9	16.0	14.8	15.6	15.1	15.2
16 to 17 years	19.6	16.6	19.1	18.4	18.0	16.0	16.9	19.9	17.9	16.2	17.9	18.0	16.6
18 to 19 years	14.3	14.7	13.1	13.6	14.1	13.4	14.4	14.6	14.7	14.1	14.1	13.1	14.2
20 to 24 years	10.1	10.0	9.7	9.6	9.5	9.0	9.4	8.5	8.6	8.4	8.2	8.4	9.1
25 years and over	5.0	4.8	4.7	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.7	4.1
25 to 54 years	5.3	5.1	5.0	4.9	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.4
55 years and over	3.0	2.9	3.0	2.8	2.6	2.9	3.5	3.1	3.2	3.3	2.8	3.1	2.3

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
CHARACTERISTIC													
Total (all civilian workers)	6.5	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6
Men, 20 years and over	5.7	5.6	5.6	5.5	5.4	5.2	5.0	5.1	5.0	4.9	5.1	4.9	4.9
Women, 20 years and over	5.7	5.5	5.4	5.3	5.4	5.3	5.4	5.2	5.2	5.2	5.1	5.2	4.8
Both sexes, 16 to 19 years	17.8	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5
White	5.6	5.5	5.4	5.3	5.2	5.2	5.1	5.2	5.1	4.9	5.0	4.8	4.7
Black and other	12.4	11.8	12.1	11.5	11.4	11.3	10.9	10.8	11.0	10.9	10.9	11.3	11.5
Black	13.9	13.0	13.7	12.8	12.7	12.4	12.3	12.1	12.2	12.2	12.2	12.6	12.8
Hispanic origin	9.1	9.2	8.8	8.6	8.1	8.1	8.2	8.3	9.0	8.1	7.2	8.3	8.2
Married men, spouse present	4.1	4.1	4.0	4.0	3.8	3.7	3.7	3.7	3.5	3.4	3.6	3.4	3.4
Married women, spouse present	4.5	4.4	4.2	4.0	4.2	4.3	4.2	4.2	4.2	4.3	4.2	4.1	4.0
Women who maintain families	9.7	9.4	9.5	9.5	9.3	9.0	8.8	8.9	8.5	8.4	8.9	8.3	7.5
Full-time workers	8.1	5.9	5.9	5.9	5.7	5.6	5.5	5.6	5.5	5.4	5.4	5.3	5.3
Part-time workers	9.1	8.6	8.7	7.3	8.1	8.2	8.4	8.3	8.2	8.0	8.3	7.9	7.7
Unemployed 15 weeks and over ¹	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4
Labor force time lost ²	7.4	7.3	7.2	7.1	6.9	6.9	6.8	6.8	6.8	6.6	6.6	6.8	6.5
INDUSTRY													
Nonagricultural private wage and salary workers	6.5	6.3	6.3	6.1	6.1	6.0	5.9	5.9	5.8	5.7	5.8	5.7	5.6
Goods-producing industries	8.0	7.7	7.7	7.1	7.1	6.9	7.0	7.0	6.5	6.4	7.1	6.9	6.5
Mining	9.5	11.2	13.0	9.5	7.9	8.8	7.4	8.3	7.0	8.0	7.7	7.8	7.9
Construction	12.4	12.0	12.1	11.7	10.8	11.3	11.9	11.2	10.6	10.6	12.2	11.0	10.7
Manufacturing	6.7	6.3	6.3	5.7	6.0	5.6	5.6	5.7	5.3	5.1	5.6	5.6	5.2
Durable goods	6.8	6.2	6.2	5.4	6.0	5.5	5.4	5.2	4.8	4.8	5.5	5.9	5.2
Nondurable goods	7.0	6.4	6.5	6.1	5.9	5.8	5.9	6.5	5.9	5.6	5.8	5.3	5.3
Service-producing industries	5.8	5.7	5.8	5.7	5.8	5.6	5.3	5.4	5.5	5.3	5.3	5.1	5.2
Transportation and public utilities	4.5	4.7	4.4	4.8	4.4	4.4	4.1	4.4	4.5	4.6	3.6	3.6	4.2
Wholesale and retail trade	7.3	7.1	7.0	7.1	6.8	7.0	6.4	6.5	6.8	6.2	6.1	6.4	6.8
Finance and service industries	4.9	4.8	4.9	4.9	5.1	4.7	4.8	4.7	4.8	4.8	4.9	4.5	4.2
Government workers	3.5	3.5	3.4	3.4	3.4	3.7	3.4	3.3	3.4	3.2	3.0	2.6	2.8
Agricultural wage and salary workers	10.8	9.5	9.4	9.3	10.9	10.6	8.6	10.6	11.1	10.9	11.5	10.2	11.0

¹ Unemployment as a percent of the civilian labor force.

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

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

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

(Numbers in thousands)

Weeks of unemployment	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
DURATION													
Less than 5 weeks	3,352	3,195	3,308	3,138	3,186	3,203	3,220	3,223	3,218	3,229	3,089	3,084	3,009
5 to 14 weeks	2,411	2,256	2,165	2,151	2,144	2,142	1,949	2,093	2,029	1,968	2,263	2,145	2,101
15 weeks and over	2,055	2,060	2,067	2,029	1,920	1,896	1,904	1,801	1,834	1,791	1,733	1,740	1,722
15 to 26 weeks	944	984	974	973	945	834	917	844	899	892	839	841	887
27 weeks and over	1,111	1,076	1,093	1,056	975	1,062	987	957	935	899	894	899	835
Average (mean) duration, in weeks	14.9	14.8	14.8	14.7	14.2	14.3	14.2	14.1	14.0	14.2	14.4	14.4	13.7
Median duration, in weeks	6.7	6.9	6.6	6.6	6.6	6.4	5.8	6.2	6.1	6.0	6.4	6.4	6.6
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.9	42.5	43.9	42.9	43.9	44.2	45.5	45.3	45.4	46.2	43.6	44.3	44.0
5 to 14 weeks	30.8	30.0	28.7	29.4	29.6	29.6	27.6	29.4	28.7	28.2	31.9	30.8	30.8
15 weeks and over	26.3	27.4	27.4	27.7	26.5	26.2	26.9	25.3	25.9	25.6	24.5	25.0	25.2
15 to 26 weeks	12.1	13.1	12.9	13.3	13.0	11.5	13.0	11.9	12.7	12.8	11.8	12.1	13.0
27 weeks and over	14.2	14.3	14.5	14.4	13.4	14.7	14.0	13.4	13.2	12.9	12.6	12.9	12.2

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

(Numbers in thousands)

Reasons for unemployment	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
NUMBER OF UNEMPLOYED													
Job losers	3,791	3,705	3,612	3,554	3,529	3,389	3,313	3,388	3,307	3,200	3,209	3,207	3,139
On layoff	1,003	963	924	919	916	874	820	944	878	856	888	884	899
Other job losers	2,788	2,742	2,688	2,635	2,613	2,515	2,493	2,444	2,429	2,344	2,320	2,323	2,240
Job leavers	996	955	931	959	989	992	981	960	926	946	1,082	961	1,075
Reentrants	2,078	1,965	1,995	1,980	1,930	1,969	1,908	1,845	1,974	1,945	1,917	1,951	1,756
New entrants	952	918	999	854	844	855	882	914	855	909	885	864	887
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	48.5	49.1	47.9	48.4	48.4	47.0	46.8	47.7	46.8	45.7	45.2	45.9	45.8
On layoff	12.8	12.8	12.3	12.5	12.6	12.1	11.6	13.3	12.4	12.2	12.5	12.7	13.1
Other job losers	35.7	36.4	35.7	35.9	35.8	34.9	35.2	34.4	34.4	33.5	32.7	33.3	32.7
Job leavers	12.7	12.7	12.4	13.1	13.6	13.8	13.8	13.5	13.1	13.5	15.3	13.8	15.7
Reentrants	26.6	26.1	26.5	26.9	26.5	27.3	26.9	26.0	28.0	27.8	27.0	27.9	25.6
New entrants	12.2	12.2	13.3	11.6	11.6	11.9	12.5	12.9	12.1	13.0	12.5	12.4	12.9
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.2	3.1	3.0	3.0	2.9	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9	.8	.9
Reentrants	1.7	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.5
New entrants .....	.8	.8	.8	.7	.7	.7	.7	.8	.7	.8	.7	.7	.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status and sex	1985				1986				1987				1988	
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	
TOTAL														
Noninstitutional population ¹	179,222	179,649	180,135	180,641	181,517	182,008	182,530	183,115	183,743	184,253	184,749	185,216	185,707	
Labor force ¹	116,692	116,893	117,214	117,887	118,653	119,330	119,898	120,307	120,893	121,352	121,786	122,316	122,882	
Percent of population ²	65.1	65.1	65.1	65.3	65.4	65.6	65.7	65.7	65.8	65.9	65.9	66.0	66.2	
Total employed ¹	108,320	108,522	108,910	109,684	110,452	110,910	111,668	112,186	113,012	113,873	114,587	115,235	115,954	
Employment-population ratio ³	60.4	60.4	60.5	60.7	60.8	60.9	61.2	61.3	61.5	61.8	62.0	62.2	62.4	
Resident Armed Forces	1,700	1,703	1,721	1,700	1,692	1,687	1,695	1,750	1,741	1,726	1,733	1,749	1,740	
Civilian employed	106,620	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214	
Agriculture	3,305	3,235	3,111	3,093	3,206	3,148	3,132	3,176	3,212	3,237	3,180	3,212	3,241	
Nonagricultural industries	103,314	103,584	104,078	104,891	105,555	106,075	106,841	107,260	108,059	108,910	109,674	110,274	110,972	
Unemployed	8,372	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928	
Unemployment rate ⁴	7.2	7.2	7.1	7.0	6.9	7.1	6.9	6.8	6.5	6.2	5.9	5.8	5.6	
Not in labor force	62,531	62,756	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899	62,825	
Men														
Noninstitutional population ¹	85,695	85,899	86,133	86,376	86,957	87,201	87,463	87,775	88,101	88,358	88,605	88,843	89,100	
Labor force ¹	65,729	65,905	66,036	66,217	66,670	66,873	67,055	67,319	67,616	67,676	67,795	67,999	68,245	
Percent of population ²	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.6	76.5	76.5	76.6	
Total employed ¹	61,177	61,368	61,526	61,735	62,222	62,271	62,492	62,790	63,232	63,492	63,859	64,156	64,455	
Employment-population ratio ³	71.4	71.4	71.4	71.5	71.6	71.4	71.4	71.5	71.8	71.9	72.1	72.2	72.3	
Resident Armed Forces	1,552	1,554	1,569	1,551	1,539	1,533	1,540	1,592	1,583	1,567	1,572	1,587	1,579	
Civilian employed	59,625	59,814	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568	62,875	
Unemployed	4,552	4,537	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843	3,790	
Unemployment rate ⁴	6.9	6.9	6.8	6.8	6.7	6.9	6.8	6.7	6.5	6.2	5.8	5.7	5.6	
Not in labor force	19,966	19,994	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845	20,856	
Women														
Noninstitutional population ¹	93,527	93,751	94,000	94,265	94,560	94,807	95,067	95,341	95,642	95,896	96,144	96,372	96,608	
Labor force ¹	50,962	50,988	51,178	51,669	51,983	52,456	52,844	52,988	53,277	53,676	53,991	54,318	54,638	
Percent of population ²	54.5	54.4	54.4	54.8	55.0	55.3	55.6	55.6	55.7	56.0	56.2	56.4	56.6	
Total employed ¹	47,143	47,154	47,384	47,948	48,230	48,640	49,176	49,396	49,780	50,381	50,728	51,079	51,499	
Employment-population ratio ³	50.4	50.3	50.4	50.9	51.0	51.3	51.7	51.8	52.0	52.5	52.8	53.0	53.3	
Resident Armed Forces	148	149	151	149	152	154	155	158	158	160	161	161	161	
Civilian employed	46,995	47,004	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918	51,338	
Unemployed	3,819	3,835	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239	3,138	
Unemployment rate ⁴	7.5	7.5	7.4	7.2	7.2	7.3	6.9	6.8	6.6	6.1	6.0	6.0	5.7	
Not in labor force	42,565	42,763	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055	41,970	

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

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ Unemployment as a percent of the labor force (including the resident

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-42 through A-53 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, and age	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
TOTAL													
Civilian noninstitutional population ¹	177,522	177,946	178,414	178,941	179,825	180,321	180,835	181,365	182,002	182,527	183,016	183,467	183,967
Civilian labor force	114,991	115,190	115,494	116,187	116,962	117,642	118,203	118,557	119,151	119,626	120,053	120,568	121,142
Percent of population	64.8	64.7	64.7	64.9	65.0	65.2	65.4	65.4	65.5	65.5	65.6	65.7	65.8
Employed	106,620	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214
Employment-population ratio ²	60.1	60.0	60.1	60.3	60.5	60.6	60.8	60.9	61.1	61.4	61.7	61.9	62.1
Unemployed	8,372	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928
Unemployment rate	7.3	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7
Men, 20 years and over													
Civilian noninstitutional population ¹	76,831	77,064	77,313	77,571	78,169	78,393	78,647	78,883	79,217	79,466	79,678	79,898	80,194
Civilian labor force	59,997	60,190	60,347	60,586	61,109	61,183	61,369	61,657	61,925	62,051	62,091	62,253	62,544
Percent of population	78.1	78.1	78.1	78.1	78.2	78.0	78.0	78.2	78.2	78.1	77.9	77.9	78.0
Employed	56,244	56,428	56,658	56,936	57,420	57,399	57,599	57,873	58,308	58,607	58,858	59,129	59,440
Employment-population ratio ²	73.2	73.2	73.3	73.4	73.5	73.2	73.2	73.4	73.6	73.8	73.9	74.0	74.1
Agriculture	2,366	2,300	2,230	2,236	2,332	2,282	2,259	2,308	2,322	2,359	2,322	2,313	2,286
Nonagricultural industries	53,878	54,128	54,428	54,700	55,088	55,117	55,340	55,566	55,986	56,248	56,536	56,816	57,154
Unemployed	3,753	3,762	3,689	3,650	3,688	3,784	3,771	3,784	3,617	3,444	3,233	3,124	3,105
Unemployment rate	6.3	6.2	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0	5.0
Not in labor force	16,834	16,874	16,966	16,985	17,060	17,210	17,278	17,226	17,292	17,415	17,587	17,645	17,650
Women, 20 years and over													
Civilian noninstitutional population ¹	86,094	86,377	86,651	86,900	87,187	87,449	87,699	87,935	88,236	88,468	88,701	88,925	89,183
Civilian labor force	46,959	47,137	47,290	47,736	48,000	48,448	48,893	49,005	49,308	49,648	49,926	50,237	50,580
Percent of population	54.5	54.6	54.6	54.9	55.1	55.4	55.8	55.7	55.9	56.1	56.3	56.5	56.7
Employed	43,821	43,956	44,139	44,686	44,931	45,331	45,886	46,070	46,452	46,959	47,255	47,621	48,038
Employment-population ratio ²	50.9	50.9	50.9	51.4	51.5	51.8	52.3	52.4	52.6	53.1	53.3	53.6	53.9
Agriculture	603	611	582	590	620	595	620	622	620	617	610	638	652
Nonagricultural industries	43,218	43,345	43,557	44,096	44,311	44,736	45,266	45,448	45,832	46,342	46,645	46,983	47,386
Unemployed	3,138	3,181	3,152	3,050	3,070	3,117	3,007	2,935	2,856	2,689	2,671	2,615	2,542
Unemployment rate	6.7	6.7	6.7	6.4	6.4	6.4	6.2	6.0	5.8	5.4	5.3	5.2	5.0
Not in labor force	39,135	39,240	39,361	39,164	39,187	39,001	38,806	38,930	38,928	38,820	38,775	38,688	38,603
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,597	14,506	14,450	14,470	14,469	14,479	14,489	14,547	14,548	14,593	14,638	14,644	14,590
Civilian labor force	8,035	7,863	7,856	7,865	7,853	8,012	7,941	7,895	7,919	7,927	8,036	8,078	8,018
Percent of population	55.0	54.2	54.4	54.4	54.3	55.3	54.8	54.3	54.4	54.3	54.9	55.2	55.0
Employed	6,554	6,435	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736	6,736
Employment-population ratio ²	44.9	44.4	44.2	44.0	44.3	44.8	44.8	44.6	44.8	45.1	46.0	46.0	46.2
Agriculture	336	324	299	267	254	271	253	246	270	261	248	261	304
Nonagricultural industries	6,218	6,111	6,094	6,095	6,156	6,222	6,235	6,246	6,241	6,320	6,493	6,475	6,432
Unemployed	1,481	1,428	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342	1,282
Unemployment rate	18.4	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0
Not in labor force	6,562	6,643	6,594	6,605	6,616	6,467	6,548	6,652	6,629	6,666	6,602	6,566	6,572

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional

population.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
WHITE													
Civilian noninstitutional population ¹	153,196	153,491	153,825	154,204	154,893	155,245	155,609	155,982	156,435	156,806	157,145	157,448	157,772
Civilian labor force	99,574	99,688	99,911	100,538	101,100	101,580	102,125	102,425	102,777	103,179	103,374	103,769	104,317
Percent of population	65.0	64.9	65.0	65.2	65.3	65.4	65.6	65.7	65.7	65.8	65.8	65.9	66.1
Employed	93,354	93,399	93,701	94,491	94,977	95,314	96,005	96,350	96,941	97,622	98,056	98,529	99,264
Employment-population ratio ²	60.9	60.8	60.9	61.3	61.3	61.4	61.7	61.8	62.0	62.3	62.4	62.6	62.9
Unemployed	6,220	6,289	6,210	6,047	6,123	6,266	6,120	6,075	5,835	5,558	5,318	5,240	5,053
Unemployment rate	6.2	6.3	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8
Men, 20 years and over													
Civilian labor force	52,657	52,844	52,952	53,136	53,509	53,554	53,699	53,970	54,111	54,196	54,198	54,375	54,542
Percent of population	78.4	78.5	78.5	78.5	78.5	78.4	78.4	78.6	78.5	78.4	78.3	78.3	78.3
Employed	49,817	49,947	50,099	50,390	50,705	50,660	50,843	51,074	51,344	51,559	51,729	51,960	52,229
Employment-population ratio ²	74.2	74.2	74.3	74.5	74.4	74.2	74.4	74.5	74.5	74.6	74.7	74.8	75.0
Unemployed	2,840	2,898	2,853	2,746	2,805	2,894	2,856	2,896	2,766	2,637	2,469	2,415	2,313
Unemployment rate	5.4	5.5	5.4	5.2	5.2	5.4	5.3	5.4	5.1	4.9	4.6	4.4	4.2
Women, 20 years and over													
Civilian labor force	39,946	40,035	40,186	40,580	40,783	41,128	41,560	41,574	41,778	42,101	42,294	42,471	42,822
Percent of population	53.9	53.9	53.9	54.3	54.5	54.8	55.2	55.1	55.3	55.6	55.7	55.8	56.2
Employed	37,646	37,704	37,889	38,375	38,505	38,863	39,367	39,458	39,753	40,188	40,400	40,619	41,022
Employment-population ratio ²	50.8	50.7	50.9	51.4	51.4	51.8	52.3	52.3	52.6	53.0	53.2	53.4	53.8
Unemployed	2,300	2,331	2,297	2,206	2,278	2,265	2,193	2,115	2,025	1,913	1,893	1,852	1,801
Unemployment rate	5.8	5.8	5.7	5.4	5.6	5.5	5.3	5.1	4.8	4.5	4.5	4.4	4.2
Both sexes, 16 to 19 years													
Civilian labor force	6,970	6,809	6,773	6,822	6,808	6,899	6,865	6,881	6,888	6,882	6,882	6,924	6,953
Percent of population	58.2	57.2	57.1	57.5	57.4	58.1	57.8	57.8	57.8	57.6	57.5	58.1	58.5
Employed	5,891	5,749	5,713	5,727	5,767	5,791	5,795	5,817	5,844	5,874	5,926	5,951	6,013
Employment-population ratio ²	49.2	48.3	48.2	48.3	48.6	48.8	48.8	48.9	49.0	49.1	49.6	49.9	50.6
Unemployed	1,080	1,060	1,060	1,095	1,040	1,107	1,071	1,064	1,044	1,008	956	973	940
Unemployment rate	15.5	15.6	15.6	16.1	15.3	16.1	15.6	15.5	15.2	14.6	13.9	14.0	13.5
Men	16.3	16.0	16.8	17.1	15.7	17.0	16.4	16.0	16.3	16.0	14.6	14.9	14.1
Women	14.6	15.0	14.4	14.9	14.8	15.1	14.8	14.9	13.9	13.2	13.1	13.1	12.9
BLACK													
Civilian noninstitutional population ¹	19,543	19,620	19,701	19,790	19,863	19,945	20,028	20,120	20,218	20,310	20,398	20,481	20,568
Civilian labor force	12,295	12,328	12,363	12,477	12,569	12,734	12,597	12,719	12,851	12,853	13,072	13,187	13,162
Percent of population	62.9	62.8	62.8	63.0	63.3	63.8	62.9	63.2	63.6	63.3	64.1	64.4	64.0
Employed	10,401	10,487	10,529	10,588	10,733	10,846	10,759	10,918	11,051	11,160	11,438	11,583	11,511
Employment-population ratio ²	53.2	53.4	53.4	53.5	54.0	54.4	53.7	54.3	54.7	54.9	56.1	56.6	56.0
Unemployed	1,894	1,842	1,834	1,889	1,836	1,888	1,838	1,800	1,800	1,693	1,634	1,603	1,652
Unemployment rate	15.4	14.9	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2	12.5
Men, 20 years and over													
Civilian labor force	5,716	5,718	5,760	5,802	5,883	5,928	5,901	5,949	5,993	6,007	6,049	6,037	6,136
Percent of population	74.5	74.2	74.3	74.5	75.0	75.2	74.5	74.7	74.8	74.7	74.8	74.4	75.2
Employed	4,942	4,970	5,032	5,025	5,122	5,162	5,122	5,195	5,281	5,312	5,404	5,430	5,466
Employment-population ratio ²	64.4	64.5	64.9	64.5	65.3	65.4	64.6	65.2	65.9	66.0	66.9	66.9	67.0
Unemployed	774	748	728	778	761	766	779	754	712	694	645	607	670
Unemployment rate	13.5	13.1	12.6	13.4	12.9	12.9	13.2	12.7	11.9	11.6	10.7	10.0	10.9
Women, 20 years and over													
Civilian labor force	5,688	5,731	5,712	5,778	5,779	5,875	5,849	5,917	5,989	5,988	6,102	6,203	6,170
Percent of population	58.6	58.8	58.3	58.7	58.5	59.2	58.7	59.1	59.5	59.3	60.1	60.9	60.3
Employed	4,935	4,979	4,957	5,038	5,074	5,126	5,130	5,179	5,232	5,298	5,401	5,525	5,503
Employment-population ratio ²	50.9	51.1	50.6	51.2	51.4	51.7	51.5	51.7	52.0	52.4	53.2	54.2	53.8
Unemployed	753	752	755	740	705	749	719	738	757	689	700	677	667
Unemployment rate	13.2	13.1	13.2	12.8	12.2	12.7	12.3	12.5	12.6	11.5	11.5	10.9	10.8

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	891	879	891	896	908	931	846	853	869	859	922	947	856
Percent of population	41.0	40.7	41.4	41.7	42.5	43.6	39.6	39.8	40.4	39.7	42.5	43.6	39.4
Employed	524	538	540	525	537	557	507	544	538	550	633	628	541
Employment-population ratio ²	24.1	24.9	25.1	24.4	25.1	26.1	23.7	25.4	25.1	25.4	29.2	28.9	24.9
Unemployed	367	341	352	372	371	373	339	308	331	309	289	319	314
Unemployment rate	41.2	38.8	39.5	41.5	40.8	40.1	40.1	36.2	38.1	36.0	31.3	33.7	36.7
Men	41.7	39.4	40.4	42.7	40.9	39.6	40.2	36.7	36.9	35.9	32.6	32.7	38.6
Women	40.7	38.2	38.3	40.1	40.7	40.7	40.0	35.6	39.3	36.1	30.0	34.8	34.8
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	11,753	11,862	11,969	12,075	12,184	12,290	12,397	12,504	12,692	12,809	12,926	13,043	13,153
Civilian labor force	7,559	7,617	7,806	7,809	7,862	8,010	8,171	8,256	8,402	8,495	8,526	8,730	8,900
Percent of population	64.3	64.2	65.2	64.7	64.5	65.2	65.9	66.0	66.2	66.3	66.0	66.9	67.7
Employed	6,789	6,808	6,976	6,973	7,015	7,150	7,280	7,425	7,593	7,740	7,832	7,990	8,195
Employment-population ratio ²	57.8	57.4	58.3	57.7	57.6	58.2	58.7	59.4	59.8	60.4	60.6	61.3	62.3
Unemployed	771	809	830	836	847	860	891	831	809	755	694	739	705
Unemployment rate	10.2	10.6	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5	7.9

¹ The population figures are not adjusted for seasonal variation.

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-45. Employed and unemployed full- and part-time workers by sex, and age, seasonally adjusted

(In thousands)

Full- and part- time status, sex, and age	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
EMPLOYED													
Full-time workers	88,057	88,462	88,406	89,252	89,807	90,133	90,870	91,279	92,039	92,561	93,298	93,903	94,565
Men, 16 years and over	53,569	53,860	53,868	54,163	54,528	54,521	54,758	54,945	55,356	55,552	55,927	56,159	56,414
Men, 20 years and over	52,128	52,334	52,478	52,765	53,177	53,100	53,392	53,608	54,026	54,239	54,507	54,752	55,040
Women, 16 years and over	34,440	34,601	34,539	35,102	35,253	35,628	36,119	36,367	36,625	37,035	37,432	37,742	38,031
Women, 20 years and over	33,354	33,544	33,469	34,038	34,236	34,552	35,090	35,351	35,587	35,989	36,288	36,605	36,948
Both sexes, 16 to 19 years	2,575	2,584	2,460	2,449	2,395	2,481	2,388	2,320	2,427	2,333	2,503	2,546	2,577
Part-time workers	18,614	18,339	18,729	18,782	18,994	19,048	19,021	19,208	19,280	19,536	19,439	19,678	19,705
Men, 16 years and over	6,027	5,951	6,078	6,054	6,151	6,205	6,176	6,295	6,275	6,360	6,350	6,454	6,424
Men, 20 years and over	4,113	4,081	4,159	4,198	4,245	4,278	4,183	4,297	4,286	4,347	4,337	4,410	4,407
Women, 16 years and over	12,570	12,370	12,672	12,741	12,824	12,832	12,871	12,925	12,981	13,173	13,109	13,237	13,256
Women, 20 years and over	10,491	10,392	10,644	10,673	10,710	10,767	10,754	10,749	10,882	10,971	10,912	11,050	11,086
Both sexes, 16 to 19 years	4,010	3,865	3,925	3,911	4,039	4,003	4,084	4,163	4,111	4,219	4,190	4,218	4,212
UNEMPLOYED													
Looking for full-time work	6,862	6,792	6,802	6,714	6,711	6,844	6,679	6,619	6,373	6,045	5,767	5,670	5,550
Men, 16 years and over	3,939	3,936	3,933	3,885	3,861	3,987	3,913	3,899	3,769	3,609	3,399	3,302	3,152
Men, 20 years and over	3,521	3,502	3,459	3,426	3,472	3,527	3,514	3,533	3,373	3,215	3,015	2,930	2,881
Women, 16 years and over	2,892	2,882	2,880	2,824	2,831	2,875	2,764	2,701	2,590	2,455	2,393	2,393	2,315
Women, 20 years and over	2,549	2,561	2,555	2,486	2,495	2,541	2,440	2,400	2,297	2,179	2,133	2,100	2,035
Both sexes, 16 to 19 years	792	728	788	802	744	776	725	686	703	652	619	639	634
Looking for part-time work	1,511	1,563	1,507	1,497	1,497	1,555	1,557	1,513	1,519	1,419	1,424	1,417	1,391
Men, 16 years and over	586	623	579	597	573	629	637	617	613	590	563	554	571
Men, 20 years and over	234	254	232	226	221	249	252	254	252	222	214	197	231
Women, 16 years and over	932	939	918	906	926	925	902	907	910	833	851	871	823
Women, 20 years and over	588	609	595	577	574	562	574	551	558	499	531	528	508
Both sexes, 16 to 19 years	690	700	680	694	702	745	732	708	709	698	679	692	652

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

or part time; unemployed persons are classified according to whether they are seeking full- or part-time jobs.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Category	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
CHARACTERISTIC													
Total	106,620	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214
Married men, spouse present	39,381	39,190	39,149	39,278	39,424	39,605	39,704	39,899	40,020	40,072	40,325	40,637	40,453
Married women, spouse present	26,141	26,053	26,350	26,784	26,818	26,973	27,336	27,450	27,839	28,242	28,180	28,174	28,651
Women who maintain families	5,559	5,662	5,605	5,560	5,726	5,780	5,862	5,977	5,943	5,982	6,097	6,214	6,161
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,572	1,576	1,492	1,520	1,587	1,508	1,524	1,594	1,655	1,631	1,613	1,633	1,664
Self-employed workers	1,507	1,471	1,448	1,411	1,460	1,475	1,433	1,420	1,416	1,440	1,411	1,429	1,430
Unpaid family workers	230	187	175	165	169	167	168	170	142	166	149	150	131
Nonagricultural industries:													
Wage and salary workers	95,289	95,493	95,964	96,747	97,666	98,042	98,523	98,964	99,731	100,417	101,116	101,821	102,489
Government	15,945	15,972	16,026	16,169	16,249	16,312	16,434	16,371	16,546	16,715	16,866	17,072	17,017
Private industries	79,344	79,521	79,937	80,579	81,417	81,730	82,088	82,594	83,184	83,701	84,250	84,749	85,472
Private households	1,292	1,215	1,271	1,220	1,221	1,269	1,245	1,206	1,228	1,212	1,162	1,236	1,164
Other industries	78,051	78,306	78,666	79,358	80,196	80,461	80,844	81,387	81,956	82,489	83,088	83,513	84,308
Self-employed workers	7,767	7,752	7,791	7,921	7,691	7,754	7,985	8,076	8,128	8,196	8,211	8,259	8,276
Unpaid family workers	327	297	277	255	257	241	265	256	256	273	270	242	237
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,575	5,682	5,628	5,469	5,509	5,783	5,479	5,601	5,578	5,327	5,324	5,383	5,425
Slack work	2,432	2,566	2,436	2,294	2,356	2,565	2,440	2,469	2,469	2,327	2,370	2,356	2,464
Could only find part-time work	2,790	2,780	2,830	2,877	2,830	2,872	2,722	2,796	2,734	2,675	2,631	2,663	2,591
Voluntary part time	13,464	13,250	13,568	13,678	13,833	13,909	13,952	14,058	14,153	14,425	14,475	14,574	14,582
Nonagricultural industries:													
Part time for economic reasons	5,321	5,392	5,365	5,250	5,272	5,515	5,258	5,344	5,283	5,047	5,052	5,104	5,168
Slack work	2,264	2,383	2,280	2,167	2,203	2,426	2,289	2,310	2,276	2,155	2,187	2,172	2,304
Could only find part-time work	2,705	2,704	2,732	2,777	2,749	2,776	2,661	2,699	2,642	2,594	2,555	2,569	2,499
Voluntary part time	12,989	12,831	13,108	13,224	13,372	13,506	13,536	13,605	13,686	13,958	14,013	14,099	14,120

¹ Excludes persons "with a job but not at work" during the survey

period for such reasons as vacation, illness, or industrial dispute.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-47. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
Total, 16 years and over	106,620	106,819	107,190	107,984	108,760	109,223	109,973	110,436	111,271	112,147	112,854	113,486	114,214
16 to 24 years	20,620	20,435	20,319	20,305	20,371	20,276	20,224	20,182	20,193	20,129	20,258	20,091	20,166
16 to 19 years	6,554	6,435	6,393	6,362	6,409	6,493	6,488	6,492	6,511	6,581	6,740	6,736	6,736
16 to 17 years	2,536	2,472	2,484	2,482	2,551	2,638	2,612	2,691	2,696	2,684	2,788	2,776	2,728
18 to 19 years	4,023	3,959	3,896	3,892	3,886	3,850	3,846	3,819	3,828	3,891	3,927	3,972	4,004
20 to 24 years	14,066	14,000	13,926	13,943	13,961	13,783	13,736	13,689	13,683	13,548	13,518	13,355	13,430
25 years and over	86,023	86,364	86,882	87,670	88,411	88,927	89,768	90,237	91,091	91,999	92,631	93,373	94,045
25 to 54 years	71,655	72,075	72,672	73,385	74,146	74,549	75,398	75,949	76,645	77,547	78,175	78,708	79,370
55 years and over	14,332	14,280	14,234	14,303	14,219	14,372	14,403	14,302	14,397	14,454	14,495	14,673	14,607
Men, 16 years and over	59,625	59,814	59,957	60,185	60,682	60,738	60,952	61,198	61,649	61,925	62,286	62,568	62,875
16 to 24 years	10,755	10,746	10,615	10,562	10,660	10,554	10,552	10,522	10,504	10,394	10,492	10,381	10,417
16 to 19 years	3,381	3,386	3,299	3,249	3,262	3,339	3,354	3,325	3,341	3,318	3,428	3,440	3,436
16 to 17 years	1,312	1,304	1,287	1,299	1,313	1,371	1,352	1,373	1,385	1,363	1,406	1,417	1,409
18 to 19 years	2,063	2,083	2,008	1,961	1,968	1,964	1,984	1,967	1,965	1,949	2,002	2,036	2,027
20 to 24 years	7,374	7,359	7,316	7,313	7,398	7,215	7,199	7,198	7,163	7,075	7,064	6,941	6,981
25 years and over	48,891	49,052	49,341	49,622	50,045	50,165	50,402	50,677	51,163	51,513	51,805	52,185	52,477
25 to 54 years	40,412	40,625	40,891	41,172	41,620	41,731	42,034	42,267	42,659	42,992	43,300	43,590	43,938
55 years and over	8,453	8,429	8,450	8,464	8,400	8,437	8,374	8,422	8,481	8,528	8,514	8,605	8,501
Women, 16 years and over	46,995	47,004	47,233	47,799	48,078	48,485	49,021	49,238	49,622	50,221	50,567	50,918	51,338
16 to 24 years	9,865	9,689	9,703	9,743	9,711	9,722	9,672	9,659	9,689	9,735	9,767	9,710	9,750
16 to 19 years	3,173	3,049	3,094	3,113	3,147	3,154	3,134	3,168	3,170	3,262	3,312	3,296	3,300
16 to 17 years	1,224	1,168	1,197	1,183	1,238	1,267	1,260	1,317	1,311	1,321	1,382	1,359	1,320
18 to 19 years	1,960	1,876	1,888	1,931	1,918	1,886	1,862	1,852	1,863	1,942	1,926	1,935	1,977
20 to 24 years	6,692	6,641	6,609	6,630	6,563	6,568	6,538	6,492	6,520	6,473	6,454	6,414	6,450
25 years and over	37,133	37,312	37,541	38,048	38,366	38,763	39,366	39,561	39,928	40,485	40,826	41,188	41,568
25 to 54 years	31,243	31,450	31,781	32,213	32,526	32,817	33,364	33,682	33,986	34,555	34,875	35,118	35,431
55 years and over	5,878	5,852	5,784	5,839	5,820	5,935	6,029	5,880	5,916	5,926	5,982	6,069	6,105

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

(In thousands)

Sex and age	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
Total, 16 years and over	8,372	8,371	8,304	8,203	8,201	8,419	8,230	8,121	7,880	7,479	7,199	7,082	6,928
16 to 24 years	3,250	3,178	3,183	3,216	3,111	3,198	3,110	3,007	2,998	2,851	2,710	2,626	2,607
16 to 19 years	1,481	1,428	1,463	1,503	1,443	1,519	1,453	1,402	1,408	1,346	1,296	1,342	1,282
16 to 17 years	659	654	652	685	660	681	668	652	669	653	614	657	595
18 to 19 years	829	780	795	822	789	843	772	754	744	697	671	686	692
20 to 24 years	1,769	1,749	1,720	1,712	1,667	1,680	1,657	1,604	1,590	1,505	1,414	1,283	1,326
25 years and over	5,121	5,181	5,136	4,984	5,091	5,207	5,143	5,108	4,886	4,609	4,509	4,445	4,324
25 to 54 years	4,526	4,556	4,515	4,390	4,487	4,653	4,561	4,536	4,413	4,106	4,020	3,947	3,850
55 years and over	608	635	625	574	617	563	576	561	486	504	481	492	489
Men, 16 years and over	4,552	4,537	4,510	4,482	4,449	4,603	4,563	4,530	4,383	4,184	3,936	3,843	3,790
16 to 24 years	1,774	1,735	1,746	1,744	1,652	1,735	1,704	1,625	1,618	1,545	1,456	1,408	1,404
16 to 19 years	800	775	820	832	760	819	792	746	787	740	703	719	685
16 to 17 years	358	371	360	367	355	356	367	342	360	362	332	358	315
18 to 19 years	448	411	446	465	411	470	412	404	413	387	359	359	376
20 to 24 years	975	960	926	912	892	916	912	879	851	805	753	689	719
25 years and over	2,779	2,791	2,779	2,729	2,798	2,859	2,878	2,893	2,769	2,628	2,497	2,424	2,389
25 to 54 years	2,425	2,423	2,414	2,374	2,443	2,510	2,513	2,532	2,466	2,295	2,197	2,134	2,085
55 years and over	362	370	366	347	367	347	360	359	313	325	295	291	318
Women, 16 years and over	3,819	3,835	3,794	3,721	3,753	3,817	3,668	3,591	3,497	3,295	3,263	3,239	3,138
16 to 24 years	1,476	1,442	1,437	1,472	1,458	1,463	1,405	1,382	1,381	1,306	1,254	1,218	1,203
16 to 19 years	681	653	643	671	683	700	661	657	641	606	593	623	596
16 to 17 years	302	283	292	318	305	324	301	310	309	291	282	299	280
18 to 19 years	381	368	349	356	378	372	360	350	332	311	312	327	316
20 to 24 years	795	789	794	801	775	764	745	725	739	700	661	594	607
25 years and over	2,342	2,391	2,356	2,255	2,293	2,348	2,265	2,214	2,118	1,981	2,012	2,022	1,935
25 to 54 years	2,100	2,133	2,101	2,016	2,044	2,144	2,048	2,005	1,947	1,811	1,822	1,813	1,766
55 years and over	246	265	260	228	250	216	216	202	173	179	186	201	170

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Civilian workers)

Sex and age	1985				1986				1987				1988
	i	II	III	IV	i	II	III	IV	i	II	III	IV	i
Total, 16 years and over	7.3	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7
16 to 24 years	13.6	13.5	13.5	13.7	13.2	13.6	13.3	13.0	12.9	12.4	11.8	11.6	11.4
16 to 19 years	18.4	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0
16 to 17 years	20.6	20.9	20.8	21.6	20.6	20.5	20.4	19.5	19.9	19.6	18.0	19.1	17.9
18 to 19 years	17.1	16.5	17.0	17.4	16.9	18.0	16.7	16.5	16.3	15.2	14.6	14.7	14.7
20 to 24 years	11.2	11.1	11.0	10.9	10.7	10.9	10.8	10.5	10.4	10.0	9.5	8.8	9.0
25 years and over	5.6	5.7	5.6	5.4	5.4	5.5	5.4	5.4	5.1	4.8	4.6	4.5	4.4
25 to 54 years	5.9	5.9	5.8	5.6	5.7	5.9	5.7	5.6	5.4	5.0	4.9	4.8	4.6
55 years and over	4.1	4.3	4.2	3.9	4.2	3.8	3.8	3.8	3.3	3.4	3.2	3.2	3.2
Men, 16 years and over	7.1	7.0	7.0	6.9	6.8	7.0	7.0	6.9	6.6	6.3	5.9	5.8	5.7
16 to 24 years	14.2	13.9	14.1	14.2	13.4	14.1	13.9	13.4	13.3	12.9	12.2	11.9	11.9
16 to 19 years	19.1	18.6	19.9	20.4	18.9	19.7	19.1	18.3	18.7	18.2	17.0	17.3	16.6
16 to 17 years	21.4	22.1	21.9	22.0	21.3	20.6	21.3	20.0	20.6	21.0	19.1	20.2	18.3
18 to 19 years	17.8	16.5	18.2	19.2	17.3	19.3	17.2	17.0	17.4	16.6	15.2	15.0	15.6
20 to 24 years	11.7	11.5	11.2	11.1	10.8	11.3	11.2	10.9	10.6	10.2	9.6	9.0	9.3
25 years and over	5.4	5.4	5.3	5.2	5.3	5.4	5.4	5.4	5.1	4.9	4.6	4.4	4.4
25 to 54 years	5.7	5.6	5.6	5.5	5.5	5.7	5.6	5.7	5.5	5.1	4.8	4.7	4.5
55 years and over	4.1	4.2	4.1	3.9	4.2	4.0	4.1	4.1	3.6	3.7	3.3	3.3	3.6
Women, 16 years and over	7.5	7.5	7.4	7.2	7.2	7.3	7.0	6.8	6.6	6.2	6.1	6.0	5.8
16 to 24 years	13.0	13.0	12.9	13.1	13.1	13.1	12.7	12.5	12.5	11.8	11.4	11.1	11.0
16 to 19 years	17.7	17.6	17.2	17.7	17.8	18.2	17.4	17.2	16.8	15.7	15.2	15.9	15.3
16 to 17 years	19.8	19.5	19.6	21.2	19.8	20.4	19.3	19.0	19.1	18.1	17.0	18.0	17.5
18 to 19 years	16.3	16.4	15.6	15.6	16.5	16.5	16.2	15.9	15.1	13.8	14.0	14.5	13.8
20 to 24 years	10.6	10.6	10.7	10.8	10.6	10.4	10.2	10.1	10.2	9.8	9.3	8.5	8.6
25 years and over	5.9	6.0	5.9	5.6	5.6	5.7	5.4	5.3	5.0	4.7	4.7	4.7	4.4
25 to 54 years	6.3	6.4	6.2	5.9	5.9	6.1	5.8	5.6	5.4	5.0	5.0	4.9	4.7
55 years and over	4.0	4.3	4.3	3.7	4.1	3.5	3.5	3.3	2.8	2.9	3.0	3.2	2.7

A-50. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1985				1986				1987				1988
	i	II	III	IV	i	II	III	IV	i	II	III	IV	i
CHARACTERISTIC													
Total (all civilian workers)	7.3	7.3	7.2	7.1	7.0	7.2	7.0	6.8	6.6	6.3	6.0	5.9	5.7
Men, 20 years and over	6.3	6.2	6.1	6.0	6.0	6.2	6.1	6.1	5.8	5.6	5.2	5.0	5.0
Women, 20 years and over	6.7	6.7	6.7	6.4	6.4	6.4	6.2	6.0	5.8	5.4	5.3	5.2	5.0
Both sexes, 16 to 19 years	18.4	18.2	18.6	19.1	18.4	19.0	18.3	17.8	17.8	17.0	16.1	16.6	16.0
White	6.2	6.3	6.2	6.0	6.1	6.2	6.0	5.9	5.7	5.4	5.1	5.0	4.8
Black and other	14.0	13.5	13.4	13.7	13.1	13.5	13.1	12.6	12.5	11.8	11.2	10.9	11.2
Black	15.4	14.9	14.8	15.1	14.6	14.8	14.6	14.2	14.0	13.2	12.5	12.2	12.5
Hispanic origin	10.2	10.6	10.6	10.7	10.8	10.7	10.9	10.1	9.6	8.9	8.1	8.5	7.9
Married men, spouse present	4.4	4.3	4.3	4.2	4.4	4.4	4.3	4.4	4.2	4.0	3.7	3.5	3.5
Married women, spouse present	5.6	5.8	5.6	5.4	5.3	5.3	5.2	4.9	4.6	4.2	4.2	4.2	4.1
Women who maintain families	10.4	10.4	10.7	10.1	10.0	9.8	9.8	9.6	9.7	9.5	9.1	8.6	8.2
Full-time workers	7.0	6.9	6.9	6.7	6.7	6.8	6.6	6.5	6.2	5.9	5.6	5.5	5.4
Part-time workers	9.3	9.7	9.2	9.1	9.0	9.3	9.2	9.0	8.9	8.2	8.2	8.2	8.0
Unemployed 15 weeks and over ¹	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.4
Labor force time lost ²	8.2	8.2	8.2	7.9	8.0	8.1	7.9	7.7	7.5	7.2	6.9	6.7	6.6
INDUSTRY													
Nonagricultural private wage and salary workers	7.2	7.2	7.2	7.1	7.0	7.2	7.0	6.9	6.6	6.2	6.0	5.8	5.7
Mining	10.9	9.2	9.2	8.7	10.5	13.9	15.7	14.7	12.2	11.2	8.0	7.8	7.8
Construction	13.4	12.7	13.5	13.0	13.0	12.6	12.7	14.0	12.2	11.9	11.3	10.8	11.3
Manufacturing	7.6	7.8	7.8	7.5	7.1	7.2	7.0	7.1	6.8	6.1	5.7	5.4	5.5
Durable goods	7.3	7.7	7.8	7.5	7.1	7.0	6.7	6.8	6.7	5.9	5.6	4.9	5.5
Nondurable goods	8.0	7.9	7.9	7.5	7.2	7.4	7.4	7.5	6.9	6.4	5.9	6.0	5.5
Transportation and public utilities	5.1	5.2	5.2	5.2	5.2	5.3	5.1	4.7	4.4	4.6	4.3	4.5	3.8
Wholesale and retail trade	7.6	7.6	7.7	7.7	7.5	7.9	7.6	7.3	7.3	7.0	6.8	6.5	6.4
Finance and service industries	5.7	5.8	5.5	5.4	5.6	5.6	5.6	5.3	5.1	4.8	4.9	4.8	4.6
Agricultural wage and salary workers	14.0	12.9	13.3	12.2	12.3	14.8	12.4	10.9	11.1	9.4	10.0	10.9	10.9

¹ Unemployment as a percent of the civilian labor force.

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Weeks of unemployment	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
DURATION													
Less than 5 weeks	3,543	3,513	3,498	3,437	3,454	3,551	3,431	3,376	3,353	3,214	3,203	3,223	3,061
5 to 14 weeks	2,496	2,533	2,529	2,489	2,550	2,695	2,498	2,513	2,448	2,191	2,078	2,030	2,170
15 weeks and over	2,365	2,309	2,284	2,250	2,229	2,199	2,303	2,211	2,124	2,052	1,907	1,809	1,732
15 to 26 weeks	1,024	1,014	1,045	1,016	1,075	1,001	1,090	1,031	990	977	899	878	856
27 weeks and over	1,341	1,295	1,239	1,234	1,153	1,199	1,213	1,180	1,133	1,075	1,008	930	876
Average (mean) duration, in weeks	16.0	15.7	15.4	15.4	15.0	14.8	15.4	15.1	14.9	14.8	14.2	14.1	14.1
Median duration, in weeks	7.0	6.8	7.0	6.9	6.9	6.8	7.1	7.0	6.8	6.7	6.3	6.1	6.5
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	42.2	42.0	42.1	42.0	42.0	42.0	41.7	41.7	42.3	43.1	44.6	45.6	44.0
5 to 14 weeks	29.7	30.3	30.4	30.4	31.0	31.9	30.3	31.0	30.9	29.4	28.9	28.7	31.2
15 weeks and over	28.1	27.6	27.5	27.5	27.1	26.0	28.0	27.3	26.8	27.5	26.5	25.6	24.9
15 to 26 weeks	12.2	12.1	12.6	12.4	13.1	11.8	13.2	12.7	12.5	13.1	12.5	12.4	12.3
27 weeks and over	16.0	15.5	14.9	15.1	14.0	14.2	14.7	14.6	14.3	14.4	14.0	13.2	12.6

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

(Numbers in thousands)

Reasons for unemployment	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
NUMBER OF UNEMPLOYED													
Job losers	4,218	4,070	4,215	4,044	4,043	4,160	4,006	3,938	3,866	3,624	3,410	3,298	3,185
On layoff	1,171	1,143	1,167	1,145	1,132	1,095	1,058	1,061	1,030	935	870	893	890
Other job losers	3,047	2,928	3,048	2,899	2,911	3,066	2,948	2,877	2,835	2,688	2,540	2,406	2,294
Job leavers	859	906	870	877	985	1,041	1,005	1,032	979	948	987	944	1,040
Reentrants	2,253	2,306	2,234	2,231	2,172	2,167	2,186	2,112	2,058	1,980	1,936	1,921	1,874
New entrants	1,042	1,066	1,018	1,035	1,017	1,058	1,042	1,002	1,002	924	860	893	879
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	50.4	48.8	50.6	49.4	49.2	49.4	48.6	48.7	48.9	48.5	47.4	46.7	45.6
On layoff	14.0	13.7	14.0	14.0	13.8	13.0	12.8	13.1	13.0	12.5	12.1	12.7	12.8
Other job losers	36.4	35.1	36.6	35.4	35.4	36.4	35.8	35.6	35.9	36.0	35.3	34.1	32.9
Job leavers	10.3	10.8	10.4	10.7	12.0	12.4	12.2	12.8	12.4	12.7	13.7	13.4	14.9
Reentrants	26.9	27.6	26.8	27.3	26.4	25.7	26.5	26.1	26.0	26.5	26.9	27.2	26.9
New entrants	12.4	12.8	12.2	12.6	12.4	12.6	12.7	12.4	12.7	12.4	12.0	12.7	12.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.7	3.5	3.6	3.5	3.5	3.5	3.4	3.3	3.2	3.0	2.8	2.7	2.6
Job leavers .....	.7	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.8	.9
Reentrants	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5
New entrants .....	.9	.9	.9	.9	.9	.9	.9	.8	.8	.8	.7	.7	.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason, sex, and race	1985				1986				1987				1988
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
TOTAL													
Total not in labor force	62,531	62,756	62,920	62,754	62,863	62,679	62,632	62,808	62,851	62,901	62,963	62,899	62,825
Do not want a job now	56,729	56,870	56,789	56,756	57,135	56,831	56,802	57,026	56,983	57,008	57,490	57,408	57,414
Current activity:													
Going to school	6,275	6,185	6,293	6,321	6,225	6,483	6,172	6,333	6,394	6,403	6,388	6,414	6,325
Ill, disabled	4,018	3,842	3,835	3,990	4,154	4,057	4,079	3,957	4,111	4,193	4,426	4,467	4,254
Keeping house	27,351	27,303	27,032	26,857	26,724	26,538	26,183	26,024	26,182	25,550	25,646	25,513	25,289
Retired	14,394	14,711	15,088	15,225	15,208	15,316	15,818	16,055	15,872	16,250	16,317	16,508	16,862
Other activity	4,690	4,829	4,541	4,364	4,824	4,437	4,550	4,657	4,424	4,611	4,713	4,507	4,684
Want a job now	5,864	5,782	5,995	6,002	5,722	5,842	5,943	5,861	5,780	5,871	5,802	5,462	5,510
Reason not looking:													
School attendance	1,455	1,456	1,389	1,481	1,428	1,378	1,535	1,425	1,348	1,470	1,556	1,389	1,310
Ill health, disability	769	793	785	862	841	869	912	763	848	914	847	834	850
Home responsibilities	1,237	1,254	1,397	1,366	1,375	1,293	1,208	1,356	1,231	1,325	1,274	1,234	1,182
Think cannot get a job	1,235	1,179	1,221	1,175	1,081	1,129	1,138	1,147	1,135	1,048	992	910	1,027
Job-market factors	862	825	818	775	771	767	742	824	762	694	635	581	700
Personal factors	373	354	403	400	310	362	396	323	373	354	357	329	327
Other reasons ¹	1,168	1,100	1,204	1,117	1,047	1,174	1,150	1,170	1,218	1,114	1,132	1,094	1,141
Men													
Total not in labor force	19,966	19,994	20,097	20,158	20,287	20,328	20,408	20,455	20,486	20,681	20,811	20,845	20,856
Do not want a job now	18,089	17,928	18,044	18,138	18,391	18,393	18,320	18,444	18,459	18,585	18,945	18,878	18,997
Want a job now	1,939	2,005	2,004	1,980	1,945	1,941	2,084	2,008	1,994	2,062	2,064	1,918	1,971
Reason not looking:													
School attendance	701	721	660	705	741	654	812	676	661	750	773	737	633
Ill health, disability	368	339	365	398	373	453	448	360	408	463	416	414	406
Think cannot get a job	499	524	500	490	424	406	425	493	469	428	431	358	462
Other reasons ¹	371	421	479	387	408	428	399	479	456	421	444	409	471
Women													
Total not in labor force	42,565	42,763	42,822	42,596	42,577	42,351	42,224	42,354	42,365	42,220	42,152	42,055	41,970
Do not want a job now	38,640	38,942	38,745	38,618	38,744	38,438	38,482	38,582	38,524	38,423	38,545	38,530	38,417
Want a job now	3,925	3,777	3,991	4,022	3,827	3,901	3,860	3,853	3,786	3,809	3,738	3,545	3,539
Reason not looking:													
School attendance	754	736	729	776	688	723	723	749	687	720	784	653	677
Ill health, disability	401	453	419	464	469	416	464	403	440	451	431	421	444
Home responsibilities	1,237	1,254	1,397	1,366	1,375	1,293	1,208	1,356	1,231	1,325	1,274	1,234	1,182
Think cannot get a job	736	655	721	685	657	723	713	654	666	619	561	552	566
Other reasons ¹	797	679	725	731	639	746	751	691	762	693	688	685	670
White													
Total not in labor force	53,622	53,803	53,914	53,666	53,793	53,665	53,484	53,557	53,658	53,627	53,771	53,679	53,455
Do not want a job now	49,232	49,646	49,429	49,294	49,514	49,403	49,214	49,336	49,437	49,284	49,536	49,564	49,536
Want a job now	4,372	4,208	4,419	4,396	4,283	4,311	4,270	4,238	4,198	4,344	4,252	4,045	4,020
Reason not looking:													
School attendance	1,069	1,001	991	1,051	1,013	964	1,017	972	951	1,093	1,062	986	945
Ill health, disability	556	550	592	602	633	606	634	541	617	683	648	646	644
Home responsibilities	947	980	1,038	1,023	1,028	1,005	900	992	912	959	948	909	837
Think cannot get a job	854	772	810	803	731	756	797	806	771	714	643	620	697
Other reasons ¹	946	904	988	918	877	981	921	927	946	896	951	884	897
Black													
Total not in labor force	7,248	7,292	7,338	7,313	7,294	7,211	7,431	7,401	7,367	7,457	7,326	7,294	7,406
Do not want a job now	5,906	5,919	5,949	5,940	5,957	5,913	6,028	6,034	5,962	6,169	6,088	6,083	6,094
Want a job now	1,342	1,387	1,351	1,380	1,329	1,303	1,430	1,389	1,402	1,294	1,237	1,210	1,320
Reason not looking:													
School attendance	368	404	317	343	382	342	428	374	346	315	333	341	351
Ill health, disability	215	209	191	234	210	216	256	190	225	193	168	165	195
Home responsibilities	255	260	306	289	291	266	270	308	291	313	275	304	310
Think cannot get a job	343	357	359	348	307	295	284	292	327	298	315	237	266
Other reasons ¹	162	157	177	166	139	184	191	225	212	175	145	163	198

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-54. Persons not in the labor force by reason, sex, and age

(In thousands)

Reason and sex	Total		Age							
	| 1987	| 1988	16 to 19 years		20 to 24 years		25 to 59 years		60 years and over	
			| 1987	| 1988	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988
TOTAL										
Total not in labor force	63,994	64,087	7,313	7,268	4,256	4,186	21,350	21,248	31,075	31,385
Do not want a job now	58,063	58,441	6,020	6,030	3,421	3,404	18,236	18,165	30,384	30,846
Current activity:										
Going to school	8,098	8,012	5,358	5,341	1,700	1,762	1,026	895	12	14
Ill, disabled	4,187	4,329	40	46	109	136	1,960	2,140	2,080	2,007
Keeping house	26,168	25,277	331	317	1,239	1,114	12,402	12,220	12,195	11,626
Retired	15,828	16,798	-	-	-	-	448	442	15,379	16,356
Other activity	3,783	4,027	291	328	373	392	2,400	2,468	718	843
Want a job now	5,932	5,645	1,294	1,235	834	784	3,110	3,085	692	539
Reason for not looking:										
School attendance	1,557	1,518	1,016	1,018	220	241	311	253	12	6
Ill health, disability	804	800	13	12	36	46	562	589	192	152
Home responsibilities	1,225	1,176	72	70	250	212	864	851	38	42
Think cannot get a job	1,217	1,099	110	57	169	142	708	741	229	158
Job-market factors	805	738	60	27	121	107	527	533	97	72
Personal factors	411	361	49	31	50	35	180	207	132	87
Other reasons ¹	1,129	1,053	83	78	159	143	665	651	221	181
Men										
Total not in labor force	21,181	21,629	3,574	3,592	1,499	1,523	4,111	4,343	11,997	12,170
Do not want a job now	19,114	19,602	2,942	2,944	1,193	1,293	3,302	3,424	11,674	11,938
Current activity:										
Going to school	4,166	4,112	2,769	2,735	909	978	481	397	5	2
Ill, disabled	2,127	2,109	26	15	59	100	1,087	1,098	956	895
Keeping house	398	435	8	17	22	17	132	177	236	222
Retired	10,319	10,621	-	-	-	-	339	346	9,979	10,275
Other activity	2,104	2,325	139	179	203	198	1,263	1,406	498	544
Want a job now	2,068	2,026	632	645	304	229	807	919	319	231
Reason for not looking:										
School attendance	767	736	525	561	122	84	117	91	4	-
Ill health, disability	377	369	3	8	23	24	257	275	93	62
Think cannot get a job	501	488	72	33	93	73	241	314	94	67
Other reasons ¹	422	433	32	43	66	48	192	239	131	102
Women										
Total not in labor force	42,813	42,458	3,739	3,675	2,757	2,663	17,239	16,905	19,078	19,214
Do not want a job now	38,949	38,840	3,080	3,086	2,226	2,110	14,934	14,737	18,708	18,905
Current activity:										
Going to school	3,932	3,900	2,590	2,607	789	784	545	497	6	11
Ill, disabled	2,059	2,220	14	31	50	36	872	1,041	1,124	1,111
Keeping house	25,770	24,842	324	300	1,218	1,097	12,271	12,041	11,959	11,404
Retired	5,509	6,177	-	-	-	-	109	95	5,399	6,082
Other activity	1,679	1,702	152	148	169	193	1,137	1,063	220	297
Want a job now	3,864	3,618	660	590	529	552	2,304	2,168	369	307
Reason not looking:										
School attendance	790	782	490	456	98	157	194	161	8	6
Ill health, disability	427	431	10	4	12	22	305	315	99	90
Home responsibilities	1,225	1,176	72	70	250	212	864	851	38	42
Think cannot get a job	716	611	37	25	76	68	468	427	134	91
Other reasons	707	620	51	35	93	93	473	414	90	78

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-55. Persons not in the labor force by reason, race, Hispanic origin, age, and sex

(In thousands)

Reason, race, and Hispanic origin	Total		Age						Sex			
	1987	1988	16 to 24 years		25 to 59 years		60 years and over		Men		Women	
			1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
WHITE												
Total not in labor force	54,566	54,470	8,855	8,731	17,856	17,614	27,854	28,124	17,781	18,121	36,785	36,350
Do not want a job now	50,290	50,394	7,389	7,365	15,620	15,361	27,280	27,686	16,334	16,625	33,956	33,770
Current activity:												
Going to school	6,286	6,212	5,487	5,511	786	690	11	10	3,242	3,150	3,044	3,062
Ill, disabled	3,337	3,418	112	136	1,522	1,660	1,704	1,620	1,711	1,691	1,626	1,727
Keeping house	23,332	22,467	1,326	1,178	10,925	10,689	11,080	10,800	321	341	23,011	22,126
Retired	14,268	15,071	-	-	420	399	13,847	14,670	9,330	9,569	4,938	5,502
Other activity	3,067	3,227	464	540	1,967	1,923	638	766	1,730	1,874	1,337	1,353
Want a job now	4,275	4,077	1,469	1,365	2,235	2,256	572	457	1,447	1,496	2,829	2,580
Reason for not looking:												
School attendance	1,058	1,050	836	875	212	175	10	1	505	542	553	507
Ill health, disability	579	604	33	31	401	457	147	119	297	281	282	323
Home responsibilities	913	837	224	180	661	622	28	34	-	-	913	837
Think cannot get a job	843	756	181	119	476	498	185	138	334	346	509	410
Other reasons ¹	883	830	195	160	485	504	202	165	311	327	572	503
BLACK												
Total not in labor force	7,571	7,613	2,194	2,182	2,670	2,735	2,707	2,697	2,747	2,795	4,824	4,818
Do not want a job now	6,116	6,249	1,594	1,597	1,924	2,027	2,600	2,627	2,227	2,359	3,889	3,890
Current activity:												
Going to school	1,295	1,308	1,156	1,209	141	98	-	4	636	673	660	634
Ill, disabled	771	816	35	42	402	427	336	348	379	372	392	445
Keeping house	2,156	2,027	222	208	995	1,025	940	793	62	79	2,095	1,948
Retired	1,298	1,486	-	-	25	37	1,272	1,449	828	884	469	602
Other activity	596	612	181	138	361	440	52	33	322	351	273	261
Want a job now	1,454	1,365	599	585	747	708	106	75	518	437	934	928
Reason for not looking:												
School attendance	414	423	348	355	63	66	2	4	208	161	205	263
Ill health, disability	208	169	19	22	144	116	44	31	71	75	137	93
Home responsibilities	289	306	92	91	187	205	11	9	-	-	289	306
Think cannot get a job	344	283	92	67	216	203	35	13	154	110	190	173
Other reasons ¹	198	184	48	50	137	118	14	18	85	91	113	93
HISPANIC ORIGIN												
Total not in labor force	4,371	4,357	1,258	1,189	2,030	2,077	1,083	1,091	1,200	1,247	3,171	3,110
Do not want a job now	3,768	3,804	1,026	979	1,707	1,769	1,034	1,062	998	1,036	2,771	2,769
Current activity:												
Going to school	730	690	638	616	89	76	3	-	353	336	378	354
Ill, disabled	299	351	18	30	175	221	105	100	158	187	141	164
Keeping house	2,020	1,996	331	243	1,281	1,307	407	448	42	32	1,978	1,964
Retired	495	490	-	-	5	11	490	479	306	309	189	182
Other activity	224	277	39	90	157	154	29	35	139	172	85	105
Want a job now	602	552	232	212	322	311	49	27	202	212	400	341
Reason for not looking:												
School attendance	130	128	99	104	30	23	-	-	60	55	70	73
Ill health, disability	67	66	-	7	51	52	16	7	36	43	31	23
Home responsibilities	158	141	57	45	101	97	1	-	-	-	158	141
Think cannot get a job	159	136	46	25	92	102	21	9	83	64	76	73
Other reasons ¹	88	81	30	31	48	37	11	11	23	50	65	31

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

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(In thousands)

Reason and sex	1st Quarter 1988							
	Total	Age				Race and Hispanic origin		
		16 to 19 years	20 to 24 years	25 to 59 years	60 years and over	White	Black	Hispanic origin
TOTAL								
Personal factors:								
Employers think too young or old	100	3	3	21	73	84	9	2
Lacks education or training	156	20	16	115	3	107	43	33
Other personal handicap	105	8	16	71	11	68	30	16
Job-market factors:								
Could not find work	394	21	54	289	30	226	153	66
Thinks no job available	344	6	53	244	42	272	47	20
Men								
Personal factors:								
Employers think too young or old	35	1	3	3	28	27	5	-
Lacks education or training	58	15	5	38	-	49	6	18
Other personal handicap	43	-	9	30	2	32	6	5
Job-market factors:								
Could not find work	193	11	32	139	12	125	65	36
Thinks no job available	159	6	25	103	25	114	28	4
Women								
Personal factors:								
Employers think too young or old	64	2	-	18	45	57	4	2
Lacks education or training	98	5	13	77	3	58	37	15
Other personal handicap	62	8	7	39	9	36	24	11
Job-market factors:								
Could not find work	201	10	22	152	18	101	88	29
Thinks no job available	185	-	27	141	17	158	20	16

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			
	1987	1988	16 to 24 years		25 to 59 years		60 years and over		White		Black	
			1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
TOTAL												
Do not intend to seek work	53,700	54,065	6,010	5,957	17,250	17,229	30,441	30,878	46,597	46,673	5,634	5,787
Intend to seek work in the next 12 months	10,292	10,021	5,557	5,497	4,101	4,018	634	508	7,968	7,796	1,936	1,826
Never worked	1,961	1,787	1,775	1,608	176	172	9	7	1,346	1,216	533	480
Last worked over 5 years ago	1,239	1,179	72	54	983	946	185	178	904	868	310	271
Last worked 1 to 5 years ago	2,197	2,108	629	662	1,359	1,284	209	163	1,696	1,643	410	388
Worked during previous 12 months	4,896	4,947	3,082	3,171	1,584	1,616	231	159	4,023	4,070	664	686
Men												
Do not intend to seek work	17,065	17,566	2,359	2,417	3,018	3,222	11,689	11,928	14,610	14,938	1,982	2,114
Intend to seek work in the next 12 months	4,115	4,062	2,714	2,699	1,092	1,122	308	242	3,170	3,182	764	681
Never worked	954	793	898	755	53	38	3	-	615	545	292	197
Last worked over 5 years ago	284	248	27	17	181	166	76	65	169	177	100	58
Last worked 1 to 5 years ago	647	723	221	269	320	356	105	98	509	571	100	119
Worked during previous 12 months	2,230	2,298	1,568	1,658	538	561	124	79	1,877	1,889	272	307
Women												
Do not intend to seek work	36,635	36,498	3,652	3,540	14,230	14,008	18,751	18,950	31,987	31,735	3,652	3,673
Intend to seek work in the next 12 months	6,177	5,959	2,844	2,798	3,008	2,897	325	264	4,798	4,614	1,172	1,145
Never worked	1,006	994	877	853	123	134	6	7	731	671	241	283
Last worked over 5 years ago	955	930	45	36	801	780	109	113	735	691	209	213
Last worked 1 to 5 years ago	1,550	1,386	410	394	1,039	926	104	65	1,187	1,072	310	270
Worked during previous 12 months	2,666	2,649	1,515	1,514	1,046	1,057	107	80	2,146	2,181	412	379

**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	
	1987	1988	1987	1988	1987	1988	1987	1988
TOTAL								
Civilian noninstitutional population	182,002	183,967	156,435	157,772	20,218	20,588	12,892	13,153
Civilian labor force	118,008	119,881	101,869	103,302	12,647	12,955	8,322	8,796
Percent of population	84.8	65.2	85.1	65.5	82.6	63.0	65.6	66.9
Employed	109,592	112,489	95,482	97,778	10,870	11,326	7,450	8,039
Agriculture	2,800	2,817	2,834	2,659	118	124	369	384
Nonagricultural industries	106,792	109,672	92,648	95,118	10,752	11,202	7,081	7,654
Unemployed	8,416	7,392	6,387	5,524	1,777	1,629	872	758
Unemployment rate	7.1	6.2	8.3	5.3	14.1	12.6	10.5	8.8
Not in labor force	63,994	64,087	54,568	54,470	7,571	7,813	4,371	4,357
Men, 18 years and over								
Civilian noninstitutional population	86,518	87,521	74,917	75,626	9,065	9,230	6,282	6,517
Civilian labor force	65,337	65,892	57,136	57,505	6,317	6,435	5,082	5,269
Percent of population	75.5	75.3	78.3	78.0	89.7	89.7	80.9	80.9
Employed	60,430	61,648	53,269	54,241	5,434	5,596	4,530	4,798
Agriculture	2,242	2,220	2,104	2,086	102	109	328	335
Nonagricultural industries	58,188	59,428	51,165	52,155	5,331	5,486	4,202	4,484
Unemployed	4,907	4,244	3,867	3,284	884	840	552	471
Unemployment rate	7.5	8.4	6.8	5.7	14.0	13.0	10.9	8.9
Not in labor force	21,181	21,629	17,761	18,121	2,747	2,795	1,200	1,247
Men, 20 years and over								
Civilian noninstitutional population	79,217	80,194	68,920	69,636	8,009	8,160	5,615	5,838
Civilian labor force	61,610	62,158	53,888	54,237	5,929	6,068	4,783	4,927
Percent of population	77.8	77.5	78.2	77.9	74.0	74.4	84.8	84.4
Employed	57,466	58,597	50,622	51,498	5,190	5,373	4,292	4,529
Agriculture	2,102	2,071	1,969	1,941	99	107	305	313
Nonagricultural industries	55,364	56,525	48,653	49,558	5,091	5,265	3,986	4,216
Unemployed	4,143	3,562	3,266	2,738	739	695	471	398
Unemployment rate	6.7	5.7	6.1	5.0	12.5	11.5	9.9	8.1
Not in labor force	17,607	18,036	15,031	15,399	2,080	2,092	853	911
Women, 16 years and over								
Civilian noninstitutional population	95,484	96,447	81,518	82,147	11,153	11,398	6,411	6,637
Civilian labor force	52,671	53,989	44,733	45,797	6,330	6,520	3,240	3,527
Percent of population	55.2	56.0	54.9	55.8	56.7	57.5	50.5	53.1
Employed	49,162	50,841	42,213	43,537	5,436	5,730	2,920	3,240
Agriculture	559	597	529	573	16	15	41	49
Nonagricultural industries	48,603	50,244	41,683	42,963	5,421	5,716	2,879	3,191
Unemployed	3,509	3,148	2,520	2,261	893	789	320	287
Unemployment rate	6.7	5.8	5.6	4.9	14.1	12.1	9.9	8.1
Not in labor force	42,813	42,458	36,785	36,350	4,824	4,818	3,171	3,110
Women, 20 years and over								
Civilian noninstitutional population	88,236	89,183	75,599	76,245	10,060	10,234	5,754	5,969
Civilian labor force	49,183	50,400	41,669	42,687	5,958	6,138	3,003	3,258
Percent of population	55.7	56.5	55.1	56.0	59.2	60.0	52.2	54.6
Employed	46,244	47,799	39,582	40,830	5,208	5,478	2,740	3,031
Agriculture	528	555	499	533	15	14	41	49
Nonagricultural industries	45,716	47,244	39,083	40,297	5,192	5,464	2,699	2,983
Unemployed	2,918	2,601	2,087	1,857	750	661	263	227
Unemployment rate	5.9	5.2	5.0	4.4	12.6	10.8	8.8	7.0
Not in labor force	39,074	38,783	33,929	33,558	4,102	4,096	2,750	2,711
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,548	14,590	11,917	11,891	2,149	2,174	1,323	1,347
Civilian labor force	7,236	7,322	6,312	6,378	760	749	556	611
Percent of population	49.7	50.2	53.0	53.6	35.4	34.5	42.0	45.4
Employed	5,882	6,093	5,278	5,449	472	475	418	478
Agriculture	170	191	166	185	4	3	22	23
Nonagricultural industries	5,711	5,902	5,112	5,264	468	473	396	455
Unemployed	1,354	1,230	1,034	929	288	273	138	134
Unemployment rate	18.7	16.8	16.4	14.6	37.9	36.5	24.8	21.9
Not in labor force	7,313	7,268	5,605	5,513	1,389	1,425	768	736

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	
	1987	1988	1987	1988	1987	1988	1987	1988
TOTAL								
Civilian noninstitutional population	12,692	13,153	7,381	7,839	1,541	1,594	818	853
Civilian labor force	8,322	8,796	4,985	5,372	827	873	537	573
Percent of population	65.6	66.9	67.5	68.5	53.7	54.8	65.6	67.2
Employed	7,450	8,039	4,382	4,838	733	796	512	548
Agriculture	369	384	325	349	6	4	5	7
Nonagricultural industries	7,081	7,654	4,057	4,489	727	791	508	541
Unemployed	872	758	603	534	94	77	24	25
Unemployment rate	10.5	8.6	12.1	9.9	11.4	8.8	4.5	4.4
Not in labor force	4,371	4,357	2,396	2,467	714	722	282	280
Men, 16 years and over								
Civilian noninstitutional population	6,282	6,517	3,813	4,052	677	705	419	427
Civilian labor force	5,082	5,269	3,150	3,346	502	503	327	338
Percent of population	80.9	80.9	82.6	82.6	74.2	71.3	78.0	79.2
Employed	4,530	4,798	2,771	3,010	438	460	311	321
Agriculture	328	335	293	308	5	4	5	6
Nonagricultural industries	4,202	4,464	2,477	2,702	433	456	306	315
Unemployed	552	471	379	336	63	44	16	17
Unemployment rate	10.9	8.9	12.0	10.0	12.5	8.7	4.9	5.0
Not in labor force	1,200	1,247	663	706	175	201	92	89
Men, 20 years and over								
Civilian noninstitutional population	5,615	5,838	3,371	3,593	588	632	389	400
Civilian labor force	4,763	4,927	2,924	3,106	464	475	317	328
Percent of population	84.8	84.4	86.7	86.4	78.9	75.2	81.5	82.0
Employed	4,292	4,529	2,605	2,825	413	439	301	312
Agriculture	305	313	273	288	5	4	5	6
Nonagricultural industries	3,986	4,216	2,332	2,537	408	435	296	307
Unemployed	471	398	319	281	51	36	16	16
Unemployment rate	9.9	8.1	10.9	9.0	11.0	7.6	5.1	4.9
Not in labor force	853	911	446	486	124	157	72	71
Women, 16 years and over								
Civilian noninstitutional population	6,411	6,637	3,568	3,787	865	889	400	426
Civilian labor force	3,240	3,527	1,835	2,026	526	369	210	235
Percent of population	50.5	53.1	51.4	53.5	60.8	41.5	52.5	55.2
Employed	2,920	3,240	1,611	1,828	295	336	202	227
Agriculture	41	49	32	40	1	-	-	1
Nonagricultural industries	2,879	3,191	1,580	1,787	293	336	202	226
Unemployed	320	287	224	198	31	33	8	8
Unemployment rate	9.9	8.1	12.2	9.8	9.5	9.0	3.8	3.5
Not in labor force	3,171	3,110	1,733	1,762	539	520	190	191
Women, 20 years and over								
Civilian noninstitutional population	5,754	5,969	3,150	3,357	765	798	384	406
Civilian labor force	3,003	3,258	1,680	1,846	303	341	201	225
Percent of population	52.2	54.6	53.3	55.0	39.6	42.7	52.3	55.4
Employed	2,740	3,031	1,497	1,693	278	315	194	219
Agriculture	41	49	32	40	1	-	-	1
Nonagricultural industries	2,699	2,983	1,465	1,653	277	315	194	218
Unemployed	263	227	183	153	25	26	7	6
Unemployment rate	8.8	7.0	10.9	8.3	8.3	7.7	3.5	2.7
Not in labor force	2,750	2,711	1,470	1,511	461	457	182	181
Both sexes, 16 to 19 years								
Civilian noninstitutional population	1,323	1,347	860	890	188	164	46	47
Civilian labor force	556	611	380	420	59	56	18	20
Percent of population	42.0	45.4	44.2	47.2	31.4	34.1	(²)	(²)
Employed	418	478	280	319	42	42	17	17
Agriculture	22	23	19	20	-	-	-	-
Nonagricultural industries	396	455	260	300	41	42	17	17
Unemployed	138	134	101	101	18	15	1	3
Unemployment rate	24.8	21.9	26.5	24.0	(²)	(²)	(²)	(²)
Not in labor force	768	736	480	469	129	108	28	27

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	
	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988
CHARACTERISTIC								
Total (all civilian workers)	109,592	112,489	95,482	97,778	10,870	11,326	7,450	8,039
Men	60,430	61,648	53,269	54,241	5,434	5,596	4,530	4,798
Women	49,162	50,841	42,213	43,537	5,436	5,730	2,920	3,240
OCCUPATION								
Managerial and professional specialty	27,360	28,684	24,821	25,906	1,628	1,789	958	1,110
Executive, administrative, and managerial	12,851	13,733	11,803	12,552	687	768	454	547
Professional specialty	14,509	14,952	13,018	13,354	941	1,021	504	563
Technical, sales, and administrative support	34,500	35,290	30,441	31,031	3,083	3,158	1,899	2,055
Technicians and related support	3,217	3,448	2,820	2,985	261	304	141	136
Sales occupations	13,154	13,406	12,000	12,194	798	797	679	741
Administrative support, including clerical	18,130	18,436	15,621	15,853	2,023	2,057	1,078	1,179
Service occupations	14,836	15,066	11,802	11,927	2,492	2,629	1,398	1,467
Private household	939	872	724	653	200	203	137	141
Protective service	1,872	1,888	1,539	1,555	300	298	118	117
Service, except private household and protective	12,025	12,306	9,539	9,719	1,992	2,128	1,143	1,208
Precision production, craft, and repair	13,219	13,291	11,941	12,018	973	993	1,030	1,111
Mechanics and repairers	4,439	4,455	4,003	4,098	345	264	308	320
Construction trades	4,755	4,771	4,372	4,329	317	372	362	391
Other precision production, craft, and repair	4,024	4,064	3,565	3,591	311	356	360	399
Operators, fabricators, and laborers	16,777	17,241	13,817	14,189	2,508	2,595	1,751	1,859
Machine operators, assemblers, and inspectors	7,662	7,946	6,223	6,512	1,141	1,160	876	1,026
Transportation and material moving occupations	4,570	4,671	3,846	3,900	656	698	357	355
Handlers, equipment cleaners, helpers, and laborers	4,545	4,624	3,747	3,777	710	738	518	478
Construction laborers	599	674	480	549	107	113	92	95
Other handlers, equipment cleaners, helpers, and laborers	3,946	3,950	3,267	3,228	604	625	426	383
Farming, forestry, and fishing	2,900	2,917	2,660	2,707	187	162	414	437
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,401	1,414	1,282	1,286	93	106	320	338
Self-employed workers	1,290	1,303	1,245	1,276	25	18	45	40
Unpaid family workers	109	100	106	98			4	5
Nonagricultural industries:								
Wage and salary workers	98,549	101,307	85,227	87,387	10,372	10,831	6,657	7,249
Government	16,757	17,226	13,721	14,004	2,515	2,647	921	1,042
Private industries	81,792	84,080	71,506	73,383	7,857	8,184	5,735	6,208
Private households	1,141	1,081	874	802	244	260	157	168
Other industries	80,651	82,999	70,632	72,580	7,613	7,924	5,578	6,040
Self-employed workers	7,991	8,132	7,395	7,516	374	365	408	385
Unpaid family workers	252	233	225	215	5	6	16	19
FULL- AND PART-TIME STATUS¹								
Full-time schedules	88,174	90,629	76,608	78,535	8,889	9,354	6,135	6,611
Part time for economic reasons	5,451	5,300	4,437	4,322	857	818	547	627
Part time for noneconomic reasons	15,967	16,559	14,437	14,921	1,124	1,154	767	801

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	
	1987	1988	1987	1988	1987	1988	1987	1988
CHARACTERISTIC								
Total (all civilian workers)	7,450	8,039	4,382	4,838	733	796	512	548
Men	4,530	4,798	2,771	3,010	438	460	311	321
Women	2,920	3,240	1,611	1,828	295	336	202	227
OCCUPATION								
Managerial and professional specialty	958	1,110	489	519	101	130	109	123
Executive, administrative, and managerial	454	547	227	253	46	68	56	72
Professional specialty	504	563	263	266	55	62	53	51
Technical, sales, and administrative support	1,899	2,055	980	1,093	225	238	170	193
Technicians and related support	141	136	72	72	11	9	12	14
Sales occupations	679	741	345	384	63	61	77	77
Administrative support, including clerical	1,078	1,179	563	637	151	168	81	103
Service occupations	1,398	1,467	795	881	134	130	62	62
Private household	137	141	64	75	3	2	4	4
Protective service	118	117	76	74	19	10	6	7
Service, except private household and protective	1,143	1,208	655	733	112	118	52	50
Precision production, craft, and repair	1,030	1,111	664	727	96	103	70	59
Mechanics and repairers	308	320	187	200	38	43	28	18
Construction trades	362	391	250	269	32	24	22	25
Other precision production, craft, and repair	360	399	227	259	27	36	20	17
Operators, fabricators, and laborers	1,751	1,859	1,086	1,224	170	189	96	106
Machine operators, assemblers, and inspectors	876	1,026	517	660	75	98	48	61
Transportation and material moving occupations	357	355	214	229	39	42	31	22
Handlers, equipment cleaners, helpers, and laborers	518	478	355	335	56	49	18	23
Construction laborers	92	95	77	78	4	6	2	1
Other handlers, equipment cleaners, helpers, and laborers	426	383	277	257	52	44	16	22
Farming, forestry, and fishing	414	437	367	394	6	5	6	5
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	320	338	291	313	6	3	1	5
Self-employed workers	45	40	31	32		1	3	2
Unpaid family workers	4	5	3	3				
Nonagricultural industries:								
Wage and salary workers	6,657	7,249	3,835	4,279	694	762	471	487
Government	921	1,042	599	672	116	119	43	50
Private industries	5,735	6,208	3,236	3,605	578	643	428	437
Private households	157	168	79	93	3	2	4	4
Other industries	5,578	6,040	3,157	3,512	575	641	424	433
Self-employed workers	408	385	211	197	33	29	35	52
Unpaid family workers	16	19	11	15	-	-	2	2
FULL- AND PART-TIME STATUS²								
Full-time schedules	6,135	6,611	3,546	3,861	630	689	443	483
Part time for economic reasons	547	627	395	463	30	36	17	13
Part time for noneconomic reasons	767	801	440	474	73	71	52	52

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	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over	109,592	112,489	95,482	97,778	10,870	11,326	7,450	8,039
16 to 19 years	5,882	6,093	5,278	5,449	472	475	418	478
16 to 17 years	2,347	2,382	2,140	2,144	149	173	133	141
18 to 19 years	3,535	3,711	3,137	3,305	323	303	285	336
20 to 24 years	13,254	13,012	11,567	11,251	1,350	1,419	1,239	1,298
25 years and over	90,457	93,384	78,638	81,077	9,048	9,432	5,793	6,264
25 to 54 years	76,206	78,925	65,897	68,207	7,845	8,157	5,248	5,570
55 years and over	14,251	14,459	12,740	12,870	1,203	1,276	545	694
Men, 16 years and over	60,430	61,648	53,269	54,241	5,434	5,596	4,530	4,798
16 to 19 years	2,964	3,052	2,647	2,743	244	223	238	269
16 to 17 years	1,173	1,198	1,064	1,067	78	95	75	79
18 to 19 years	1,791	1,854	1,584	1,676	166	128	163	190
20 to 24 years	6,852	6,688	5,998	5,807	689	710	762	748
25 years and over	50,614	51,909	44,624	45,691	4,501	4,663	3,529	3,782
25 to 54 years	42,222	43,496	37,040	38,115	3,868	4,005	3,187	3,370
55 years and over	8,392	8,414	7,584	7,576	634	659	343	412
Women, 16 years and over	49,162	50,841	42,213	43,537	5,436	5,730	2,920	3,240
16 to 19 years	2,918	3,041	2,630	2,706	228	253	180	209
16 to 17 years	1,174	1,184	1,077	1,077	71	78	58	62
18 to 19 years	1,744	1,858	1,554	1,630	157	175	122	146
20 to 24 years	6,402	6,325	5,569	5,444	661	709	477	549
25 years and over	39,843	41,474	34,014	35,386	4,547	4,769	2,262	2,482
25 to 54 years	33,985	35,429	28,857	30,092	3,977	4,152	2,061	2,200
55 years and over	5,858	6,045	5,156	5,294	569	617	202	282

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	
	1987	1988	1987	1988	1987	1988	1987	1988
Total, 16 years and over	7.1	6.2	6.3	5.3	14.1	12.6	10.5	8.6
16 to 19 years	18.7	16.8	16.4	14.6	37.9	36.5	24.8	21.9
16 to 17 years	20.7	18.5	18.5	16.7	43.9	35.5	28.8	24.9
18 to 19 years	17.3	15.6	14.8	13.1	34.7	37.0	22.8	20.5
20 to 24 years	11.3	9.7	9.4	8.1	24.7	20.7	12.8	11.0
25 years and over	5.6	4.8	5.0	4.3	10.4	9.5	8.7	6.9
25 to 54 years	6.0	5.1	5.3	4.4	11.0	10.0	8.6	7.1
55 years and over	3.6	3.6	3.3	3.3	6.2	5.5	9.2	5.7
Men, 16 years and over	7.5	6.4	6.8	5.7	14.0	13.0	10.9	8.9
16 to 19 years	20.5	18.3	18.5	16.1	37.3	39.3	25.5	21.4
16 to 17 years	22.4	19.8	20.6	18.6	43.7	31.0	26.2	24.2
18 to 19 years	19.1	17.3	17.0	14.4	33.8	44.3	25.2	20.2
20 to 24 years	12.2	10.8	10.7	9.1	23.2	22.2	12.7	10.9
25 years and over	5.9	5.0	5.4	4.5	10.6	9.6	9.3	7.5
25 to 54 years	6.3	5.2	5.8	4.6	11.0	10.1	9.2	7.6
55 years and over	4.0	4.1	3.6	3.8	7.7	6.1	9.2	6.6
Women, 16 years and over	6.7	5.8	5.6	4.9	14.1	12.1	9.9	8.1
16 to 19 years	16.8	15.2	14.1	13.0	38.5	33.8	23.8	22.5
16 to 17 years	18.9	17.2	16.4	14.6	44.1	40.2	31.9	25.9
18 to 19 years	15.4	14.0	12.5	11.9	35.6	30.4	19.3	20.9
20 to 24 years	10.2	8.6	8.0	7.1	26.3	19.2	12.9	11.1
25 years and over	5.2	4.6	4.5	3.9	10.2	9.4	7.9	6.0
25 to 54 years	5.6	4.9	4.8	4.1	10.9	10.0	7.8	6.2
55 years and over	3.0	2.9	2.7	2.6	4.4	4.8	8.6	4.4

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

(Numbers in thousands)

Weeks of unemployment	Total		White		Black		Hispanic origin	
	1987	1988	1987	1988	1987	1988	1987	1988
DURATION								
Total, 16 years and over	8,416	7,392	6,387	5,524	1,777	1,629	872	758
Less than 5 weeks	3,326	3,042	2,595	2,331	640	612	363	331
5 to 14 weeks	2,756	2,444	2,098	1,818	584	548	291	246
15 weeks and over	2,334	1,906	1,694	1,375	554	469	219	181
15 to 26 weeks	1,156	996	873	746	239	217	127	110
27 weeks and over	1,178	910	822	630	314	252	91	71
Average (mean) duration, in weeks	14.9	14.1	14.2	13.5	17.1	16.3	12.6	12.1
Median duration, in weeks	7.4	7.0	7.0	6.7	8.7	8.2	7.0	6.4
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	39.5	41.2	40.6	42.2	36.0	37.6	41.6	43.7
5 to 14 weeks	32.7	33.1	32.8	32.9	32.9	33.6	33.4	32.5
15 weeks and over	27.7	25.8	26.5	24.9	31.2	28.8	25.1	23.9
15 to 26 weeks	13.7	13.5	13.7	13.5	13.5	13.3	14.6	14.5
27 weeks and over	14.0	12.3	12.9	11.4	17.7	15.5	10.5	9.4

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	
	1987	1988	1987	1988	1987	1988	1987	1988
NUMBER OF UNEMPLOYED								
Total, 16 years and over	8,416	7,392	6,387	5,524	1,777	1,629	872	758
Job losers	4,453	3,672	3,471	2,817	852	759	517	401
On layoff	1,364	1,179	1,172	994	172	161	117	91
Other job losers	3,089	2,493	2,299	1,823	679	598	400	310
Job leavers	981	1,044	804	821	147	191	78	88
Reentrants	2,084	1,899	1,513	1,370	511	454	183	178
New entrants	898	777	600	517	268	224	94	91
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	52.9	49.7	54.3	51.0	47.9	46.6	59.3	52.9
On layoff	16.2	15.9	18.3	18.0	9.7	9.9	13.5	12.0
Other job losers	36.7	33.7	36.0	33.0	38.2	36.7	45.9	40.9
Job leavers	11.7	14.1	12.6	14.9	8.3	11.8	9.0	11.7
Reentrants	24.8	25.7	23.7	24.8	28.7	27.9	21.0	23.4
New entrants	10.7	10.5	9.4	9.4	15.1	13.8	10.7	12.0
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	3.8	3.1	3.4	2.7	6.7	5.9	6.2	4.6
Job leavers .....	.8	.9	.8	.8	1.2	1.5	.9	1.0
Reentrants	1.8	1.6	1.5	1.3	4.0	3.5	2.2	2.0
New entrants .....	.8	.6	.6	.5	2.1	1.7	1.1	1.0

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

**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							
	| 1987	| 1988	Total		Employed		Unemployed			
			| 1987	| 1988	| 1987	| 1988	Number		Percent of labor force	
							| 1987	| 1988	| 1987	| 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,804	7,876	7,221	7,240	6,815	6,872	406	368	5.6	5.1
30 to 44 years	6,275	6,032	6,001	5,728	5,656	5,419	345	309	5.7	5.4
30 to 34 years	1,007	780	947	735	853	678	94	57	9.9	7.7
35 to 39 years	2,781	2,329	2,672	2,220	2,524	2,079	148	141	5.6	6.4
40 to 44 years	2,487	2,923	2,382	2,773	2,279	2,662	103	112	4.3	4.0
45 years and over	1,529	1,844	1,220	1,512	1,159	1,453	61	59	5.0	3.9
NONVETERANS										
Total, 30 to 44 years	19,074	20,065	18,060	18,855	16,980	17,924	1,080	931	6.0	4.9
30 to 34 years	8,712	8,991	8,284	8,499	7,761	8,023	523	476	6.3	5.6
35 to 39 years	6,043	6,636	5,722	6,232	5,385	5,944	336	289	5.9	4.6
40 to 44 years	4,319	4,438	4,054	4,124	3,834	3,957	220	167	5.4	4.0

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

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

A-67. Employment status of male Vietnam-era veterans and nonveterans by age, race, and Hispanic origin

(Numbers in thousands)

Employment status and age	Veterans						Nonveterans					
	White		Black		Hispanic origin		White		Black		Hispanic origin	
	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988	| 1987	| 1988
TOTAL, 30 to 44 years												
Civilian noninstitutional population	5,559	5,370	599	565	310	291	16,418	17,239	1,922	2,028	1,685	1,768
Civilian labor force	5,340	5,140	551	496	284	265	15,707	16,371	1,703	1,771	1,575	1,641
Employed	5,048	4,881	512	460	261	241	14,880	15,669	1,496	1,584	1,450	1,529
Unemployed	292	258	39	36	23	24	827	702	207	187	124	112
Unemployment rate	5.5	5.0	7.1	7.3	8.2	9.2	5.3	4.3	12.2	10.6	7.9	6.8
30 to 34 years												
Civilian noninstitutional population	851	677	130	88	65	57	7,532	7,751	885	937	759	779
Civilian labor force	808	640	117	79	54	49	7,229	7,396	802	831	710	731
Employed	733	597	103	71	48	43	6,824	7,037	704	734	660	684
Unemployed	74	43	15	8	7	7	405	359	98	97	50	46
Unemployment rate	9.2	6.8	12.6	10.2	(¹)	(¹)	5.6	4.9	12.2	11.7	7.0	6.4
35 to 39 years												
Civilian noninstitutional population	2,459	2,061	280	225	163	132	5,180	5,647	586	673	524	565
Civilian labor force	2,368	1,988	262	193	156	123	4,966	5,350	508	597	488	511
Employed	2,239	1,859	245	184	144	109	4,710	5,146	439	530	441	470
Unemployed	129	128	17	9	12	14	256	204	69	67	47	41
Unemployment rate	5.4	6.4	6.5	4.8	7.9	11.5	5.2	3.8	13.6	11.3	9.6	8.1
40 to 44 years												
Civilian noninstitutional population	2,250	2,633	189	252	82	102	3,706	3,841	451	419	402	425
Civilian labor force	2,165	2,512	171	224	74	93	3,512	3,625	394	343	377	399
Employed	2,076	2,425	164	205	69	90	3,346	3,486	353	320	349	375
Unemployed	89	87	7	19	5	4	166	139	41	22	28	24
Unemployment rate	4.1	3.5	4.1	8.5	6.2	3.8	4.7	3.8	10.3	6.5	7.4	6.0

¹ Data not shown where base is less than 60,000.

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Type of family, race, and Hispanic origin	1987					1988				
	Total families	With unemployment:				Total families	With unemployment:			
		Total	Percent of families:				Total	With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
			With no employed person in family	With at least one employed person in family	With at least one person in family employed full time					
TOTAL										
Total families	63,778	6,230	30.9	69.1	58.7	64,246	5,452	28.7	71.3	61.4
With children under 18 years of age	31,647	3,627	33.6	66.4	56.2	31,531	3,190	32.1	67.9	58.7
Married-couple families	50,542	4,399	22.4	77.6	67.2	50,707	3,802	19.6	80.4	70.5
With children under 18 years of age	24,145	2,605	21.5	78.5	67.5	23,959	2,266	19.5	80.5	71.0
Families maintained by women	10,553	1,457	53.4	46.6	35.7	10,714	1,307	52.4	47.6	37.7
With children under 18 years of age	6,458	880	64.8	35.2	25.9	6,467	788	62.4	37.6	28.4
Families maintained by men	2,683	374	43.3	56.7	48.1	2,824	343	40.4	59.6	51.8
With children under 18 years of age	1,043	141	60.6	39.4	35.9	1,104	136	65.4	34.6	30.1
White										
Total families	55,043	4,817	28.4	71.6	60.9	55,332	4,140	25.4	74.6	64.9
With children under 18 years of age	26,507	2,776	30.1	69.9	59.2	26,339	2,396	27.9	72.1	63.0
Married-couple families	45,650	3,714	23.0	77.0	66.6	45,791	3,179	19.3	80.7	71.1
With children under 18 years of age	21,440	2,189	22.3	77.7	66.8	21,246	1,876	19.5	80.5	71.4
Families maintained by women	7,238	815	48.2	51.8	39.1	7,303	719	47.3	52.7	41.9
With children under 18 years of age	4,225	477	59.3	40.7	29.6	4,207	412	57.3	42.7	32.5
Families maintained by men	2,156	288	41.7	58.3	49.7	2,239	242	40.5	59.5	52.5
With children under 18 years of age	841	110	58.2	41.8	37.3	886	108	63.0	37.0	32.4
Black										
Total families	7,028	1,230	41.7	58.3	48.6	7,101	1,131	41.0	59.0	48.4
With children under 18 years of age	4,149	740	48.0	52.0	43.4	4,158	685	46.7	53.3	43.9
Married-couple families	3,540	541	19.6	80.4	69.3	3,487	481	19.8	80.2	68.0
With children under 18 years of age	1,887	322	17.7	82.3	71.1	1,868	298	18.5	81.5	70.5
Families maintained by women	3,049	610	60.3	39.7	31.0	3,145	560	59.0	41.0	31.9
With children under 18 years of age	2,089	389	71.5	28.5	21.3	2,105	361	68.1	31.9	23.5
Families maintained by men	439	79	49.4	50.6	43.0	468	89	41.6	58.4	47.2
With children under 18 years of age	173	29	(¹)	(¹)	(¹)	185	26	(¹)	(¹)	(¹)
Hispanic origin										
Total families	4,369	650	33.7	66.3	56.6	4,483	558	31.8	68.2	56.2
With children under 18 years of age	2,840	424	37.7	62.3	52.8	2,901	360	34.9	65.1	53.5
Married-couple families	3,072	456	27.4	72.6	62.9	3,111	404	25.2	74.8	62.0
With children under 18 years of age	2,030	317	28.9	71.1	60.7	2,033	276	26.1	73.9	61.6
Families maintained by women	1,007	132	51.5	48.5	37.9	1,068	123	48.0	52.0	39.8
With children under 18 years of age	706	78	64.6	35.4	26.6	755	69	59.4	40.6	29.0
Families maintained by men	290	62	41.0	59.0	50.8	304	30	(¹)	(¹)	(¹)
With children under 18 years of age	104	28	(¹)	(¹)	(¹)	113	15	(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	1987				1988			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Total unemployed in families ¹	6,942	32.9	67.1	56.8	5,990	30.7	69.3	59.5
Husbands	1,842	40.3	59.7	44.0	1,533	37.5	62.5	48.7
With children under 18 years of age	1,129	44.1	55.9	38.9	938	42.0	58.0	44.1
Wives	1,292	19.5	80.5	72.2	1,152	18.1	83.9	75.2
With children under 18 years of age	839	17.9	82.1	73.5	758	13.8	86.2	77.9
Relatives in married-couple families	1,758	12.5	87.5	81.5	1,473	11.2	88.8	82.1
Women who maintain families	644	85.3	14.7	8.4	559	81.8	18.4	12.2
With children under 18 years of age	543	91.7	8.3	2.5	461	89.2	10.8	5.7
Relatives in families maintained by women	1,008	33.7	66.3	52.5	909	33.6	66.4	54.0
Men who maintain families	180	63.8	36.2	27.3	167	64.9	35.1	26.4
With children under 18 years of age	89	90.5	9.5	7.1	91	92.8	7.2	2.2
Relatives in families maintained by men	218	30.5	69.5	61.4	198	22.4	77.8	69.6
White								
Total unemployed in families ¹	5,275	30.6	69.4	58.9	4,454	27.7	72.3	62.6
Husbands	1,588	41.4	58.6	42.5	1,291	37.4	62.6	48.1
With children under 18 years of age	960	45.8	54.2	36.6	765	43.0	57.0	42.1
Wives	1,075	19.6	80.4	72.6	950	15.0	85.0	77.6
With children under 18 years of age	693	17.7	82.3	74.2	624	12.0	88.0	81.0
Relatives in married-couple families	1,434	12.3	87.7	82.2	1,194	10.7	89.3	82.7
Women who maintain families	343	81.6	18.4	10.6	287	78.7	23.3	15.6
With children under 18 years of age	279	89.8	10.2	3.0	227	88.3	13.7	7.1
Relatives in families maintained by women	534	28.9	71.1	55.1	476	31.2	68.8	56.9
Men who maintain families	138	83.8	38.2	27.0	119	86.3	33.7	24.1
With children under 18 years of age	68	90.6	9.2	6.0	66	93.9	6.1	1.5
Relatives in families maintained by men	165	27.3	72.7	64.4	138	22.4	77.6	71.8
Black								
Total unemployed in families ¹	1,463	42.0	58.0	46.3	1,335	41.4	58.6	48.5
Husbands	189	34.9	65.1	51.8	178	37.5	62.5	52.0
With children under 18 years of age	121	35.7	64.3	50.1	125	38.0	64.0	54.1
Wives	180	18.9	81.1	69.7	154	23.5	76.5	59.9
With children under 18 years of age	122	20.0	80.0	69.5	107	25.0	75.0	60.3
Relatives in married-couple families	271	14.1	85.9	78.6	230	12.3	87.7	81.1
Women who maintain families	288	89.7	10.3	5.3	262	86.9	13.1	8.6
With children under 18 years of age	255	93.7	6.3	2.1	227	91.9	8.1	4.8
Relatives in families maintained by women	448	38.7	61.3	50.1	417	38.7	63.3	50.1
Men who maintain families	38	(²)	(²)	(²)	41	(²)	(²)	(²)
With children under 18 years of age	20	(²)	(²)	(²)	20	(²)	(²)	(²)
Relatives in families maintained by men	49	(²)	(²)	(²)	52	(²)	(²)	(²)
Hispanic origin								
Total unemployed in families ¹	748	35.7	64.3	54.6	628	33.4	66.6	54.9
Husbands	217	46.6	53.4	41.1	185	46.6	53.4	38.7
With children under 18 years of age	166	49.2	50.8	37.2	135	49.0	51.0	33.2
Wives	127	24.7	75.3	64.1	108	18.7	81.3	71.5
With children under 18 years of age	83	27.1	72.9	61.8	77	15.8	84.2	71.9
Relatives in married-couple families	191	13.9	86.1	80.6	165	13.1	86.9	78.3
Women who maintain families	54	(²)	(²)	(²)	48	(²)	(²)	(²)
With children under 18 years of age	47	(²)	(²)	(²)	36	(²)	(²)	(²)
Relatives in families maintained by women	92	36.4	63.6	49.9	90	33.7	66.3	52.6
Men who maintain families	33	(²)	(²)	(²)	19	(²)	(²)	(²)
With children under 18 years of age	17	(²)	(²)	(²)	13	(²)	(²)	(²)
Relatives in families maintained by men	35	(²)	(²)	(²)	13	(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 80,000.

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	1987				1988			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Total employed in families ¹	89,373	23.7	76.3	64.5	91,109	23.2	76.8	65.1
Husbands	37,711	30.9	69.1	50.3	38,161	30.2	69.8	51.1
With children under 18 years of age	21,950	32.6	67.4	45.2	21,936	31.8	68.2	46.2
Wives	26,748	9.6	90.4	85.1	27,499	9.3	90.7	85.4
With children under 18 years of age	14,572	5.8	94.2	89.6	14,817	5.5	94.5	90.3
Relatives in married-couple families	11,333	6.9	93.1	88.7	11,323	7.4	92.6	87.9
White								
Women who maintain families	5,883	64.6	35.4	23.1	6,045	63.1	36.9	24.7
With children under 18 years of age	3,891	80.1	19.9	9.3	3,944	79.6	20.4	9.0
Relatives in families maintained by women	4,357	24.7	75.3	64.6	4,575	23.8	76.2	66.9
Men who maintain families	1,900	55.3	44.7	34.3	1,958	53.9	46.1	35.1
With children under 18 years of age	862	82.0	18.0	9.2	881	80.7	19.3	10.2
Relatives in families maintained by men	1,441	18.3	81.7	74.1	1,549	18.0	82.0	73.6
Black								
Total employed in families ¹	78,268	23.1	76.9	64.7	79,572	22.6	77.4	65.3
Husbands	34,159	31.4	68.6	49.2	34,547	30.6	69.4	49.9
With children under 18 years of age	19,665	33.3	66.7	43.4	19,651	32.4	67.6	44.4
Wives	23,861	9.2	90.8	85.5	24,489	8.9	91.1	85.9
With children under 18 years of age	12,774	5.2	94.8	90.3	12,984	4.9	95.1	91.0
Relatives in married-couple families	10,019	6.7	93.3	88.9	10,007	7.3	92.7	88.2
Women who maintain families	4,255	62.3	37.7	24.2	4,315	60.5	39.5	25.6
With children under 18 years of age	2,781	78.7	21.3	9.4	2,776	77.7	22.3	8.9
Relatives in families maintained by women	3,229	24.3	75.7	64.5	3,371	24.4	75.6	66.1
Men who maintain families	1,567	55.0	45.0	34.2	1,593	52.9	47.1	35.5
With children under 18 years of age	715	81.0	19.0	9.8	724	80.1	19.9	10.2
Relatives in families maintained by men	1,178	17.1	82.9	75.6	1,250	17.0	83.0	74.6
Hispanic origin								
Total employed in families ¹	6,066	27.0	73.0	62.5	6,344	25.8	74.2	64.7
Husbands	2,422	38.6	61.4	46.3	2,481	37.0	63.0	49.7
With children under 18 years of age	1,752	40.6	59.4	43.1	1,763	39.7	60.3	46.3
Wives	1,471	8.8	91.2	85.5	1,616	8.7	91.3	85.8
With children under 18 years of age	999	8.1	91.9	86.2	1,050	7.9	92.1	87.2
Relatives in married-couple families	891	7.6	92.4	84.9	888	7.1	92.9	87.5
Women who maintain families	445	63.0	37.0	26.4	502	59.6	40.4	27.7
With children under 18 years of age	297	77.7	22.3	13.3	341	74.5	25.5	13.1
Relatives in families maintained by women	421	24.3	75.7	64.8	444	21.5	78.5	70.4
Men who maintain families	213	48.4	51.6	47.3	231	48.8	51.2	43.2
With children under 18 years of age	75	75.7	24.3	22.1	85	84.5	15.5	14.4
Relatives in families maintained by men	203	10.9	89.1	81.7	181	5.4	94.6	87.5

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

used in aggregating the data.

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family, number of earners, race, and Hispanic origin	Number of families (in thousands)		Median weekly earnings	
	1 1987	1 1988	1 1987	1 1988
TOTAL				
Total families with earners ¹	42,209	42,930	\$557	\$580
Married-couple families	33,527	33,953	620	648
One earner	12,825	12,695	395	409
Husband	9,739	9,627	469	480
Wife	2,378	2,364	219	236
Other family member	707	704	207	211
Two or more earners	20,702	21,259	763	790
Husband and wife	18,076	18,709	779	805
Husband and other family member(s)	1,889	1,793	725	753
Wife and other family member(s)	592	599	453	470
Other family members only	146	158	515	474
Families maintained by women	6,857	7,023	309	323
One earner	4,686	4,832	248	260
Householder	3,726	3,784	257	267
Other family member	960	1,048	215	233
Two or more earners	2,170	2,190	489	534
Families maintained by men	1,826	1,954	461	468
One earner	1,124	1,195	353	375
Two or more earners	701	759	654	654
White				
Total families with earners ¹	36,267	36,748	578	597
Married-couple families	29,858	30,211	630	655
One earner	11,553	11,450	406	420
Husband	8,906	8,829	480	487
Wife	2,034	2,000	220	244
Two or more earners	18,304	18,761	774	797
Husband and wife	15,967	16,531	790	812
Families maintained by women	4,905	5,015	321	337
Families maintained by men	1,504	1,523	483	483
Black ¹				
Total families with earners ¹	4,715	4,884	399	421
Married-couple families	2,687	2,701	503	575
One earner	910	867	270	268
Husband	550	525	319	318
Wife	285	280	202	196
Two or more earners	1,777	1,834	647	701
Husband and wife	1,574	1,615	670	723
Families maintained by women	1,754	1,837	273	289
Families maintained by men	273	346	380	393
Hispanic origin				
Total families with earners ¹	3,124	3,308	412	432
Married-couple families	2,355	2,434	449	477
One earner	1,060	1,022	271	301
Husband	883	834	295	320
Wife	110	123	199	218
Two or more earners	1,295	1,412	609	639
Husband and wife	1,004	1,186	624	658
Families maintained by women	526	658	270	297
Families maintained by men	243	216	415	438

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Type of family and relationship of unemployed members to wage and salary earners	Number of families (in thousands)		Median weekly earnings	
	1987	1988	1987	1988
Married-couple families ¹	2,926	2,670	\$400	\$411
Husband unemployed	1,002	916	228	257
Wife only earner	744	721	211	234
Wife and other earner(s)	155	130	386	440
Other earner(s) only	103	66	178	(²)
Wife unemployed	905	884	395	420
Husband only earner	773	747	384	403
Husband and other earner(s)	113	112	590	681
Other earner(s) only	20	25	(²)	(²)
Other member(s) unemployed	1,019	869	645	662
Husband or wife earner	397	338	543	495
Both husband and wife earners	590	491	745	820
Other combinations of earners	32	40	(²)	(²)
Families maintained by women ¹	617	520	272	306
Householder unemployed	73	81	(²)	(²)
Other member(s) unemployed	545	440	286	329
Families maintained by men ¹	199	197	345	424

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	
	I 1987	I 1988	I 1987	I 1988
SEX AND AGE				
Total, 16 years and over	78,190	80,178	\$369	\$385
Men, 16 years and over	45,599	46,606	434	450
16 to 24 years	6,100	5,916	257	263
25 years and over	39,499	40,690	477	483
Women, 16 years and over	32,591	33,572	299	312
16 to 24 years	5,139	5,132	227	240
25 years and over	27,452	28,440	315	329
FAMILY RELATIONSHIP				
Husbands	30,371	30,871	486	494
Wives	17,042	17,517	309	319
Women who maintain families	4,610	4,760	294	310
Men who maintain families	1,383	1,480	393	424
Other persons in families:				
Men	5,779	5,589	263	273
Women	4,137	4,224	237	253
All other men ¹	8,062	8,662	408	416
All other women ¹	6,805	7,075	318	339
RACE AND HISPANIC ORIGIN				
White	67,236	68,661	381	394
Men	39,855	40,667	453	464
Women	27,381	27,993	303	317
Black	8,633	9,106	295	310
Men	4,508	4,626	320	356
Women	4,125	4,480	271	279
Hispanic origin	5,692	6,212	286	297
Men	3,666	3,909	304	316
Women	2,026	2,303	255	267

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

Characteristic	Number of workers (in thousands)		Median weekly earnings	
	1987	1988	1987	1988
SEX AND AGE				
Total, 16 years and over	18,731	19,402	\$98	\$103
Men, 16 years and over	5,902	6,050	92	98
16 to 24 years	3,344	3,472	71	81
25 years and over	2,558	2,578	130	130
Women, 16 years and over	12,829	13,352	101	106
16 to 24 years	4,003	4,069	68	75
25 years and over	8,826	9,283	117	121
FAMILY RELATIONSHIP				
Husbands	1,614	1,593	135	134
Wives	6,788	7,024	119	124
Women who maintain families	1,031	973	104	111
Men who maintain families	117	143	117	118
Other persons in families:				
Men	3,147	3,261	72	79
Women	3,359	3,516	65	71
All other men ¹	1,023	1,053	113	116
All other women ¹	1,652	1,839	104	107
RACE AND HISPANIC ORIGIN				
White	16,417	17,016	99	103
Men	5,076	5,118	92	96
Women	11,341	11,898	102	106
Black	1,773	1,761	92	101
Men	585	667	88	104
Women	1,189	1,114	95	100
Hispanic origin	1,188	1,252	101	106
Men	478	496	104	109
Women	709	753	98	103

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	
	1987	1988	1987	1988
TOTAL				
Managerial and professional specialty	20,696	21,293	\$522	\$546
Executive, administrative, and managerial	9,880	10,311	523	548
Professional specialty	10,816	10,982	521	544
Technical, sales, and administrative support	23,969	24,409	325	345
Technicians and related support	2,692	2,812	423	445
Sales occupations	7,418	7,414	370	384
Administrative support, including clerical	13,859	14,184	304	318
Service occupations	8,078	8,433	234	251
Private household	300	289	137	142
Protective service	1,616	1,677	419	440
Service, except private household and protective	6,162	6,468	215	229
Precision production, craft, and repair	10,613	11,001	415	428
Mechanics and repairers	3,693	3,735	419	435
Construction trades	3,373	3,568	411	420
Other precision production, craft, and repair	3,548	3,699	414	429
Operators, fabricators, and laborers	13,843	13,942	303	310
Machine operators, assemblers, and inspectors	6,935	7,009	294	295
Transportation and material moving occupations	3,605	3,693	367	385
Handlers, equipment cleaners, helpers, and laborers	3,303	3,239	267	277
Farming, forestry, and fishing	991	1,099	217	233
Men				
Managerial and professional specialty	11,597	11,795	631	659
Executive, administrative, and managerial	5,877	6,070	637	671
Professional specialty	5,720	5,725	627	649
Technical, sales, and administrative support	9,038	9,194	451	466
Technicians and related support	1,445	1,529	507	511
Sales occupations	4,433	4,470	475	479
Administrative support, including clerical	3,160	3,196	400	419
Service occupations	4,067	4,252	292	315
Private household	16	6	(¹)	(¹)
Protective service	1,450	1,519	429	446
Service, except private household and protective	2,601	2,727	247	277
Precision production, craft, and repair	9,757	10,129	426	442
Mechanics and repairers	3,572	3,615	418	435
Construction trades	3,346	3,495	412	421
Other precision production, craft, and repair	2,838	3,019	466	478
Operators, fabricators, and laborers	10,268	10,269	336	351
Machine operators, assemblers, and inspectors	4,152	4,116	348	362
Transportation and material moving occupations	3,403	3,443	371	394
Handlers, equipment cleaners, helpers, and laborers	2,713	2,710	282	286
Farming, forestry, and fishing	872	967	221	240
Women				
Managerial and professional specialty	9,099	9,499	433	456
Executive, administrative, and managerial	4,003	4,242	411	430
Professional specialty	5,095	5,257	448	471
Technical, sales, and administrative support	14,931	15,215	288	303
Technicians and related support	1,248	1,283	354	374
Sales occupations	2,985	2,944	247	262
Administrative support, including clerical	10,699	10,988	289	303
Service occupations	4,011	4,181	198	207
Private household	284	283	131	141
Protective service	166	158	312	378
Service, except private household and protective	3,561	3,740	199	208
Precision production, craft, and repair	856	872	304	304
Mechanics and repairers	121	119	451	445
Construction trades	26	73	(¹)	(¹)
Other precision production, craft, and repair	710	680	290	273
Operators, fabricators, and laborers	3,575	3,673	224	233
Machine operators, assemblers, and inspectors	2,783	2,893	223	228
Transportation and material moving occupations	203	250	290	287
Handlers, equipment cleaners, helpers, and laborers	589	529	216	240
Farming, forestry, and fishing	119	132	170	194

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					
	1987	1988	Total		Central cities		Suburbs	
			1987	1988	1987	1988	1987	1988
TOTAL								
Civilian noninstitutional population	182,002	183,967	141,257	143,445	56,673	57,151	84,584	86,295
Civilian labor force	118,008	119,881	93,152	95,061	36,252	36,663	56,900	58,398
Percent of population	64.8	65.2	65.9	66.3	64.0	64.2	67.3	67.7
Employed	109,592	112,489	86,904	89,492	33,218	34,026	53,685	55,466
Unemployed	8,416	7,392	6,249	5,569	3,034	2,637	3,215	2,932
Unemployment rate	7.1	6.2	6.7	5.9	8.4	7.2	5.6	5.0
Not in labor force	63,994	64,087	48,104	48,384	20,421	20,487	27,684	27,896
Men, 20 years and over								
Civilian noninstitutional population	79,217	80,194	61,450	62,457	24,359	24,666	37,091	37,791
Civilian labor force	61,610	62,158	48,539	49,085	18,749	18,788	29,790	30,296
Percent of population	77.8	77.5	79.0	78.6	77.0	76.2	80.3	80.2
Employed	57,466	58,597	45,480	46,434	17,254	17,534	28,225	28,900
Unemployed	4,143	3,562	3,059	2,651	1,495	1,254	1,564	1,397
Unemployment rate	6.7	5.7	6.3	5.4	8.0	6.7	5.3	4.6
Not in labor force	17,607	18,036	12,911	13,373	5,610	5,877	7,301	7,495
Women, 20 years and over								
Civilian noninstitutional population	88,236	89,183	68,621	69,609	28,127	28,251	40,494	41,358
Civilian labor force	49,163	50,400	38,972	40,163	15,563	15,881	23,409	24,282
Percent of population	55.7	56.5	56.8	57.7	55.3	56.2	57.8	58.7
Employed	46,244	47,799	36,799	38,197	14,452	14,909	22,347	23,289
Unemployed	2,918	2,601	2,172	1,965	1,110	973	1,062	993
Unemployment rate	5.9	5.2	5.6	4.9	7.1	6.1	4.5	4.1
Not in labor force	39,074	38,783	29,649	29,446	12,564	12,370	17,085	17,077
Both sexes, 16 to 19 years								
Civilian noninstitutional population	14,548	14,590	11,186	11,379	4,187	4,234	6,999	7,145
Civilian labor force	7,236	7,322	5,641	5,814	1,940	1,994	3,701	3,820
Percent of population	49.7	50.2	50.4	51.1	46.3	47.1	52.9	53.5
Employed	5,882	6,093	4,624	4,861	1,512	1,583	3,113	3,278
Unemployed	1,354	1,230	1,017	953	428	410	588	543
Unemployment rate	18.7	16.8	18.0	16.4	22.1	20.6	15.9	14.2
Not in labor force	7,313	7,268	5,545	5,565	2,247	2,240	3,298	3,325
White								
Civilian noninstitutional population	156,435	157,772	119,953	121,487	42,500	42,815	77,453	78,672
Civilian labor force	101,869	103,302	79,467	80,858	27,527	27,763	51,940	53,095
Percent of population	65.1	65.5	66.2	66.6	64.8	64.8	67.1	67.5
Employed	95,482	97,778	74,867	76,819	25,689	26,208	49,178	50,611
Unemployed	6,387	5,524	4,600	4,039	1,838	1,555	2,763	2,484
Unemployment rate	6.3	5.3	5.8	5.0	6.7	5.6	5.3	4.7
Not in labor force	54,566	54,470	40,486	40,629	14,974	15,052	25,513	25,577
Black								
Civilian noninstitutional population	20,218	20,568	16,676	17,058	11,798	11,879	4,878	5,179
Civilian labor force	12,647	12,955	10,594	10,979	7,192	7,323	3,402	3,656
Percent of population	62.6	63.0	63.5	64.4	61.0	61.6	69.7	70.6
Employed	10,870	11,326	9,133	9,639	6,092	6,349	3,042	3,291
Unemployed	1,777	1,629	1,461	1,340	1,100	974	360	366
Unemployment rate	14.1	12.6	13.8	12.2	15.3	13.3	10.6	10.0
Not in labor force	7,571	7,613	6,082	6,079	4,606	4,556	1,476	1,523
Hispanic origin								
Civilian noninstitutional population	12,692	13,153	11,792	12,267	6,763	7,040	5,028	5,227
Civilian labor force	8,322	8,796	7,751	8,219	4,272	4,524	3,479	3,695
Percent of population	65.6	66.9	65.7	67.0	63.2	64.3	69.2	70.7
Employed	7,450	8,039	6,972	7,545	3,791	4,132	3,181	3,413
Unemployed	872	758	779	674	481	393	298	282
Unemployment rate	10.5	8.6	10.0	8.2	11.3	8.7	8.6	7.6
Not in labor force	4,371	4,357	4,041	4,048	2,491	2,516	1,549	1,532

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status, sex, age, race, and Hispanic origin	Nonmetropolitan areas						Urban areas		Rural areas	
	Total		Farm		Nonfarm		1987	1988	1987	1988
	1987	1988	1987	1988	1987	1988				
TOTAL										
Civilian noninstitutional population	40,745	40,522	2,920	2,807	37,825	37,715	134,061	135,468	47,941	48,499
Civilian labor force	24,856	24,819	1,942	1,920	22,913	22,899	87,677	88,889	30,331	30,992
Percent of population	61.0	61.2	66.5	68.4	60.6	60.7	65.4	65.8	63.3	63.9
Employed	22,688	22,996	1,876	1,873	20,813	21,123	81,513	83,389	28,079	29,100
Unemployed	2,167	1,823	67	47	2,100	1,776	6,164	5,500	2,252	1,892
Unemployment rate	8.7	7.3	3.4	2.4	9.2	7.8	7.0	6.2	7.4	6.1
Not in labor force	15,889	15,703	978	887	14,911	14,818	46,384	46,579	17,610	17,507
Men, 20 years and over										
Civilian noninstitutional population	17,755	17,728	1,390	1,346	16,365	16,383	57,732	58,444	21,473	21,742
Civilian labor force	13,067	13,067	1,153	1,129	11,913	11,938	45,222	45,499	16,383	16,653
Percent of population	73.6	73.7	83.0	83.9	72.8	72.9	78.3	77.9	76.3	76.6
Employed	11,983	12,156	1,124	1,110	10,859	11,046	42,240	42,889	15,223	15,701
Unemployed	1,084	911	29	19	1,055	892	2,982	2,610	1,161	952
Unemployment rate	8.3	7.0	2.5	1.7	8.9	7.5	6.6	5.7	7.1	5.7
Not in labor force	4,688	4,661	237	216	4,451	4,445	12,509	12,945	5,090	5,089
Women, 20 years and over										
Civilian noninstitutional population	19,628	19,582	1,284	1,227	18,343	18,355	65,853	66,547	22,395	22,645
Civilian labor force	10,195	10,243	685	671	9,530	9,572	37,170	38,085	11,997	12,321
Percent of population	51.9	52.3	51.7	54.7	52.0	52.2	56.4	57.2	53.6	54.4
Employed	9,448	9,608	640	653	8,809	8,955	35,000	36,107	11,248	11,699
Unemployed	746	635	25	18	721	618	2,170	1,979	748	622
Unemployment rate	7.3	6.2	3.7	2.6	7.6	6.5	5.8	5.2	6.2	5.0
Not in labor force	9,433	9,339	620	556	8,813	8,783	28,683	28,462	10,398	10,324
Both sexes, 16 to 19 years										
Civilian noninstitutional population	3,363	3,211	248	234	3,117	2,977	10,478	10,477	4,072	4,113
Civilian labor force	1,594	1,509	125	120	1,470	1,388	5,285	5,304	1,951	2,018
Percent of population	47.4	47.0	50.7	51.2	47.2	46.6	50.4	50.8	47.9	49.1
Employed	1,257	1,232	112	110	1,145	1,122	4,273	4,392	1,606	1,700
Unemployed	337	277	13	10	324	267	1,012	912	342	318
Unemployment rate	21.2	18.3	10.3	8.3	22.1	19.2	19.1	17.2	17.6	15.7
Not in labor force	1,768	1,703	121	114	1,647	1,589	5,191	5,173	2,122	2,095
White										
Civilian noninstitutional population	36,482	36,286	2,830	2,741	33,652	33,545	112,115	112,784	44,320	44,989
Civilian labor force	22,402	22,444	1,893	1,881	20,509	20,583	73,644	74,371	28,225	28,931
Percent of population	61.4	61.9	66.9	66.8	60.9	61.3	65.7	65.9	63.7	64.3
Employed	20,615	20,959	1,835	1,838	18,780	19,121	69,207	70,489	26,275	27,289
Unemployed	1,787	1,488	58	43	1,729	1,462	4,437	3,883	1,950	1,642
Unemployment rate	8.0	8.6	3.1	2.3	8.4	7.0	8.0	5.2	8.9	5.7
Not in labor force	14,079	13,842	938	860	13,143	12,962	38,471	38,412	16,095	16,058
Black										
Civilian noninstitutional population	3,542	3,510	82	58	3,460	3,452	17,300	17,717	2,917	2,851
Civilian labor force	2,053	1,975	43	35	2,010	1,941	10,958	11,266	1,889	1,886
Percent of population	58.0	56.3	52.8	60.0	58.1	56.2	63.3	63.6	57.9	59.2
Employed	1,736	1,887	34	32	1,702	1,655	9,419	9,848	1,451	1,480
Unemployed	317	289	9	3	308	286	1,539	1,420	238	208
Unemployment rate	15.4	14.6	(¹)	(¹)	15.3	14.7	14.0	12.6	14.1	12.3
Not in labor force	1,489	1,534	39	23	1,450	1,511	6,342	6,450	1,228	1,163
Hispanic origin										
Civilian noninstitutional population	901	866	44	35	856	851	11,732	12,103	961	1,051
Civilian labor force	571	577	30	24	541	554	7,894	8,086	827	710
Percent of population	63.4	65.1	(¹)	(¹)	63.2	65.0	68.6	68.8	85.3	67.8
Employed	478	493	28	22	449	472	8,892	7,403	557	636
Unemployed	93	84	2	2	92	82	802	883	70	74
Unemployment rate	18.4	14.5	(¹)	(¹)	17.0	14.8	10.4	8.5	11.1	10.5
Not in labor force	330	309	15	11	315	298	4,037	4,018	334	341

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	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
TOTAL												
Civilian noninstitutional population	27,735	27,377	154,267	156,590	18,444	18,079	122,812	125,366	9,291	9,298	31,454	31,224
Civilian labor force	15,517	15,361	102,491	104,520	10,255	10,115	82,897	84,946	5,262	5,246	19,593	19,574
Percent of population	55.9	56.1	66.4	66.7	55.6	55.9	67.5	67.8	56.6	56.4	62.3	62.7
Employed	13,495	13,557	96,097	98,931	8,863	8,822	78,040	80,671	4,632	4,735	18,057	18,261
Unemployed	2,022	1,803	6,394	5,589	1,391	1,293	4,857	4,276	631	510	1,537	1,313
Unemployment rate	13.0	11.7	6.2	5.3	13.6	12.8	5.9	5.0	12.0	9.7	7.8	6.7
Men, 20 years and over	12.8	10.9	5.8	5.0	13.7	12.0	5.4	4.6	11.0	8.9	7.5	6.4
Women, 20 years and over	10.9	10.2	5.2	4.4	10.8	10.9	4.9	4.2	11.1	8.6	6.3	5.6
Both sexes, 16 to 19 years	30.1	29.1	17.0	14.9	31.4	30.1	16.3	14.6	27.5	26.7	19.7	16.4
Men	31.3	31.2	18.8	16.2	33.6	33.5	17.8	15.9	26.9	26.2	22.3	17.1
Women	28.7	26.7	15.2	13.7	28.9	26.4	14.8	13.2	28.3	27.3	16.7	15.6
Not in labor force	12,218	12,017	51,776	52,070	8,189	7,964	39,915	40,420	4,028	4,053	11,861	11,650
White												
Civilian noninstitutional population	16,897	16,626	139,538	141,146	10,081	9,833	109,872	111,654	6,815	6,793	29,666	29,493
Civilian labor force	9,632	9,573	92,237	93,729	5,731	5,648	73,736	75,209	3,901	3,925	18,501	18,520
Percent of population	57.0	57.6	66.1	66.4	56.8	57.4	67.1	67.4	57.2	57.8	62.4	62.8
Employed	8,611	8,724	86,871	89,054	5,090	5,097	69,777	71,722	3,521	3,627	17,093	17,332
Unemployed	1,021	850	5,366	4,675	641	551	3,959	3,487	380	298	1,408	1,187
Unemployment rate	10.6	8.9	5.8	5.0	11.2	9.8	5.4	4.6	9.7	7.6	7.6	6.4
Men, 20 years and over	10.6	8.3	5.6	4.7	11.4	9.3	5.1	4.3	9.5	6.8	7.4	6.3
Women, 20 years and over	8.5	7.5	4.7	4.1	8.5	8.2	4.3	3.8	8.6	6.4	6.0	5.2
Both sexes, 16 to 19 years	23.9	22.6	15.6	13.7	26.0	22.0	14.6	13.3	20.3	23.5	19.3	15.3
Men	26.4	23.3	17.7	15.3	30.8	23.2	16.5	15.0	18.5	23.4	21.6	16.1
Women	20.9	21.7	13.5	12.2	20.1	20.7	12.7	11.6	22.2	23.7	16.6	14.4
Not in labor force	7,265	7,053	47,301	47,417	4,351	4,185	36,136	36,444	2,914	2,868	11,165	10,973
Black												
Civilian noninstitutional population	9,913	9,784	10,305	10,784	7,737	7,581	8,939	9,477	2,176	2,203	1,366	1,307
Civilian labor force	5,397	5,270	7,250	7,684	4,198	4,102	6,396	6,877	1,199	1,168	854	807
Percent of population	54.4	53.9	70.4	71.3	54.3	54.1	71.5	72.6	55.1	53.0	62.5	61.7
Employed	4,455	4,387	6,414	6,939	3,476	3,402	5,657	6,237	979	985	757	702
Unemployed	942	883	836	746	722	700	738	640	220	184	97	105
Unemployment rate	17.5	16.8	11.5	9.7	17.2	17.1	11.5	9.3	18.3	15.7	11.4	13.0
Men, 20 years and over	17.3	16.2	9.0	8.4	17.8	16.5	8.9	8.2	15.6	15.2	9.4	9.7
Women, 20 years and over	14.5	14.1	11.2	8.4	13.7	14.2	11.2	7.9	17.5	13.7	11.3	12.2
Both sexes, 16 to 19 years	40.5	41.4	35.8	32.6	39.5	41.5	37.2	31.2	43.5	(¹)	(¹)	(¹)
Men	39.0	47.0	35.8	32.6	39.0	49.2	35.3	30.1	(¹)	(¹)	(¹)	(¹)
Women	42.1	35.3	35.7	32.6	40.1	33.8	39.0	32.1	(¹)	(¹)	(¹)	(¹)
Not in labor force	4,516	4,514	3,055	3,100	3,538	3,479	2,543	2,600	977	1,034	512	500
Hispanic origin												
Civilian noninstitutional population	4,418	4,437	8,275	8,716	4,080	4,103	7,711	8,164	337	334	564	552
Civilian labor force	2,524	2,586	5,797	6,210	2,332	2,383	5,419	5,836	192	203	379	374
Percent of population	57.1	58.3	70.1	71.3	57.2	58.1	70.3	71.5	57.0	60.7	67.2	67.8
Employed	2,171	2,274	5,278	5,765	2,024	2,099	4,948	5,446	147	175	330	319
Unemployed	353	312	519	446	308	284	470	390	45	28	49	55
Unemployment rate	14.0	12.1	9.0	7.2	13.2	11.9	8.7	6.7	23.3	14.0	12.8	14.8
Men, 20 years and over	14.1	11.5	7.9	6.6	13.5	11.2	7.5	6.0	21.0	15.5	14.1	15.8
Women, 20 years and over	10.9	10.0	8.0	5.8	9.9	10.4	8.0	5.5	22.2	6.1	7.1	10.7
Both sexes, 16 to 19 years	27.3	24.8	23.6	20.3	25.5	24.1	22.9	19.6	(¹)	(¹)	(¹)	(¹)
Men	27.4	22.9	24.5	20.5	27.2	19.9	24.2	19.9	(¹)	(¹)	(¹)	(¹)
Women	27.1	27.5	22.3	20.1	22.6	30.2	21.2	19.3	(¹)	(¹)	(¹)	(¹)
Not in labor force	1,893	1,851	2,478	2,506	1,748	1,720	2,293	2,328	145	131	185	178

¹ Data not shown where base is less than 60,000.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and

Hispanics are included in both the white and black population groups. These data are based on 1980 census designations and are not comparable to data published through the first quarter of 1984.

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employees on nonagricultural payrolls by major industry, 1936 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1936	29,068	25,400	11,933	946	1,160	9,827	17,135	2,973	(¹)	(¹)	1,373	3,312	(¹)	(¹)	(¹)
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	(¹)	(¹)	1,417	3,503	(¹)	(¹)	(¹)
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	(¹)	(¹)	1,410	3,458	(¹)	(¹)	(¹)
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	1,762	4,664	1,447	3,502	905	(¹)	(¹)
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,835	4,914	1,485	3,665	996	(¹)	(¹)
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	(¹)	(¹)
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,906	5,212	1,509	4,066	2,213	(¹)	(¹)
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	(¹)	(¹)
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	(¹)	(¹)
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	(¹)	(¹)
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	(¹)	(¹)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	(¹)	(¹)
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,605	6,667	1,800	5,181	1,863	(¹)	(¹)
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	(¹)	(¹)
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,635	6,751	1,888	5,357	1,928	(¹)	(¹)
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,727	7,015	1,956	5,547	2,302	(¹)	(¹)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,699	2,420	(¹)	(¹)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	(¹)	(¹)
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	(¹)	(¹)
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,389	6,497	2,209	1,250	3,819
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,980	7,770	2,481	6,765	2,191	1,415	4,232
1959 ²	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,597	9,648	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,868	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	19,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,610	82,900	24,681	783	4,904	18,994	74,930	5,244	5,735	17,845	6,297	23,099	2,899	3,888	9,923
1987	102,112	85,049	24,884	741	5,031	19,112	77,228	5,378	5,797	18,264	6,589	24,137	2,943	3,952	10,167
Monthly data, seasonally adjusted															
1987:															
March	101,329	84,352	24,749	722	5,032	18,995	76,580	5,333	5,766	18,136	6,526	23,842	2,922	3,930	10,125
April	101,598	84,560	24,759	729	5,019	19,011	76,839	5,348	5,772	18,197	6,558	23,926	2,933	3,943	10,162
May	101,708	84,677	24,752	735	4,999	19,018	76,956	5,344	5,775	18,205	6,576	24,025	2,935	3,947	10,149
June	101,818	84,787	24,761	738	5,008	19,015	77,057	5,350	5,781	18,226	6,586	24,083	2,935	3,932	10,164
July	102,126	85,106	24,850	744	5,002	19,104	77,276	5,363	5,797	18,274	6,608	24,214	2,936	3,952	10,132
August	102,275	85,229	24,886	751	5,006	19,129	77,389	5,377	5,807	18,256	6,624	24,279	2,940	3,964	10,142
September	102,434	85,386	24,917	759	4,989	19,169	77,517	5,416	5,815	18,314	6,629	24,295	2,962	3,957	10,129
October	102,983	85,795	25,064	764	5,053	19,247	77,919	5,436	5,831	18,408	6,650	24,406	2,965	3,973	10,250
November	103,285	86,072	25,169	759	5,074	19,336	78,116	5,459	5,851	18,443	6,657	24,493	2,977	3,978	10,258
December	103,612	86,341	25,259	756	5,121	19,382	78,353	5,473	5,871	18,458	6,668	24,612	2,981	3,996	10,294
1988:															
January	103,827	86,560	25,205	746	5,058	19,401	78,622	5,485	5,884	18,619	6,684	24,683	2,977	3,996	10,294
February ¹	104,344	87,040	25,342	749	5,175	19,418	79,002	5,504	5,903	18,720	6,687	24,884	2,979	4,004	10,321
March ¹	104,606	87,253	25,426	755	5,254	19,417	79,180	5,522	5,920	18,724	6,694	24,967	2,972	4,019	10,362

¹ Not available.

² Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

¹ = preliminary.

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

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonagricultural payrolls by detailed industry

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Total		99,792	100,462	102,388	102,951	103,698					
Total private		82,587	83,152	85,136	85,376	86,009	66,596	67,102	68,609	68,820	69,377
Mining		713	718	744	743	750	502	506	533	534	538
Metal mining	10	41.9	42.3	45.2	46.4		31.5	32.0	34.3	35.5	
Iron ores	101	8.9	8.9	9.5	9.6		6.8	6.8	7.3	7.4	
Copper ores	102	12.3	12.4	13.5	13.6		9.8	9.9	10.6	10.7	
Coal mining	11,12	163.1	163.0	159.5	159.2		133.1	133.0	130.0	129.7	
Bituminous coal and lignite mining	12	160.7	160.6	157.5	157.1		131.0	131.0	128.3	127.9	
Oil and gas extraction	13	409.0	408.5	438.0	436.1	437.8	262.5	262.0	293.7	293.1	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	204.8	204.2	201.7	200.4	-	100.7	100.1	99.7	99.3	
Oil and gas field services	138	204.2	204.3	236.3	235.7		161.8	161.9	194.0	193.8	
Nonmetallic minerals, except fuels	14	98.9	104.0	100.9	101.2		74.4	78.8	75.1	75.8	
Crushed and broken stone	142	34.6	36.9	35.9	36.0		26.9	29.2	27.2	27.4	
Sand and gravel	144	28.8	30.5	28.4	28.6		-	-	-	-	
Chemical and fertilizer minerals	147	17.5	17.7	18.2	18.2		-	-	-	-	
Construction		4,506	4,599	4,643	4,632	4,802	3,437	3,522	3,530	3,522	3,676
General building contractors	15	1,183.9	1,196.4	1,214.1	1,196.4	1,221.0	846.6	858.5	867.0	851.9	
Residential building construction	152	604.0	614.9	636.2	626.4	-	418.1	427.1	441.4	433.6	
Operative builders	153	53.4	53.9	50.1	50.0		26.7	27.3	22.8	22.7	
Nonresidential building construction	154	526.5	527.6	527.8	520.0		401.8	404.1	402.8	395.6	
Heavy construction contractors	16	645.0	676.1	641.5	659.9		522.7	552.0	516.5	535.1	
Highway and street construction	161	207.2	223.2	209.6	218.5		163.2	177.8	160.7	170.0	
Heavy construction, except highway	162	437.8	452.9	431.9	441.4		359.5	374.2	355.8	365.1	
Special trade contractors	17	2,677.5	2,726.2	2,787.1	2,775.2		2,067.6	2,111.0	2,146.8	2,135.1	
Plumbing, heating, and air conditioning	171	622.2	624.9	655.4	648.0		455.0	456.1	479.7	472.3	
Painting, paper hanging, and decorating	172	148.6	151.5	149.7	144.8		121.5	124.5	122.3	117.4	
Electrical work	173	517.8	518.8	558.9	551.0		396.4	396.9	431.1	423.7	
Masonry, stonework, and plastering	174	437.4	446.6	439.7	440.7		366.8	376.2	368.9	370.5	
Carpentering and flooring	175	167.5	169.1	160.0	155.7		128.0	129.1	122.4	118.6	
Roofing and sheet metal work	176	186.6	191.3	185.5	186.1		145.0	149.4	140.9	142.4	
Manufacturing		18,853	18,897	19,252	19,287	19,319	12,801	12,846	13,122	13,164	13,199
Durable goods		11,121	11,145	11,337	11,354	11,383	7,353	7,382	7,538	7,561	7,593
Lumber and wood products	24	708.5	713.5	726.5	727.8	726.8	590.9	595.3	604.3	605.2	603.9
Logging camps and logging contractors	241	76.6	74.5	77.6	78.8	-	63.8	61.4	65.1	65.8	-
Sawmills and planing mills	242	195.0	196.5	200.9	202.5		171.9	173.4	176.5	178.4	
Sawmills and planing mills, general	2421	158.2	159.3	162.0	163.5		139.6	140.7	142.4	144.1	
Hardwood dimension and flooring	2426	34.1	34.3	36.2	36.2		29.9	30.1	31.9	31.8	
Millwork, plywood, and structural members	243	250.4	253.8	259.4	256.7		206.1	209.2	213.2	210.4	
Millwork	2431	95.9	97.8	100.3	99.0		77.3	79.1	80.3	78.9	
Wood kitchen cabinets	2434	68.5	69.4	70.6	69.3		54.8	55.6	56.6	55.2	
Hardwood veneer and plywood	2435	24.0	23.9	25.3	25.3		21.0	21.0	22.3	22.2	
Softwood veneer and plywood	2436	37.9	38.2	39.0	38.8		34.6	34.8	35.4	35.3	
Wood containers	244	39.6	40.2	40.0	40.9		33.3	34.0	33.7	34.6	
Wood buildings and mobile homes	245	67.8	68.5	67.8	67.5		50.8	51.2	50.2	49.6	
Mobile homes	2451	46.2	46.4	46.2	46.2		37.1	36.9	36.7	36.4	
Miscellaneous wood products	249	79.1	80.0	80.8	81.4		65.0	66.1	65.6	66.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Durable goods—Continued											
Furniture and fixtures	25	501.8	503.2	534.0	532.1	531.2	401.7	403.4	428.0	426.5	425.9
Household furniture	251	301.6	302.5	321.3	321.4	-	254.5	255.7	272.1	272.1	-
Wood household furniture	2511	134.3	134.6	142.2	142.5		117.4	117.8	124.1	124.5	
Upholstered household furniture	2512	96.5	96.4	103.5	104.0		80.4	80.5	86.8	87.3	
Metal household furniture	2514	28.2	28.4	30.6	30.5		23.4	23.5	25.4	25.3	
Mattresses and bedsprings	2515	29.6	30.1	31.4	31.7		22.5	22.9	24.3	24.4	
Office furniture	252	65.5	65.5	69.4	68.5		49.9	50.0	52.1	51.7	
Public building and related furniture	253	27.9	27.9	29.4	29.5		21.5	21.5	22.6	22.8	
Partitions and fixtures	254	70.6	71.3	75.8	75.2		50.5	51.0	54.8	54.3	
Miscellaneous furniture and fixtures	259	36.2	36.0	38.1	37.5		25.3	25.2	26.4	25.6	
Stone, clay, and glass products	32	563.7	569.9	564.7	563.1	571.2	431.9	438.1	434.0	433.3	441.2
Flat glass	321	15.1	15.1	15.0	14.7	-	11.8	11.9	11.7	11.4	-
Glass and glassware, pressed or blown	322	87.9	87.9	85.4	85.7		74.9	74.8	73.4	73.8	
Glass containers	3221	44.1	43.9	42.6	42.2		39.5	39.3	38.3	38.0	
Pressed and blown glass, nec	3229	43.8	44.0	42.8	43.5		35.4	35.5	35.1	35.8	
Products of purchased glass	323	50.0	50.5	51.9	52.1		34.9	35.4	37.6	38.0	
Cement, hydraulic	324	21.5	21.5	20.9	20.7		16.6	16.7	16.0	15.7	
Structural clay products	325	36.9	37.4	38.6	38.0		28.8	29.3	30.0	29.7	
Pottery and related products	326	35.9	36.2	36.8	36.9		28.6	28.9	29.2	29.6	
Concrete, gypsum, and plaster products	327	194.5	199.2	192.5	191.9		148.4	152.6	145.1	144.6	
Concrete block and brick	3271	18.9	19.4	19.4	19.3		12.6	12.8	12.6	12.4	
Concrete products, nec	3272	66.0	67.0	66.5	66.7		49.4	50.5	49.7	50.0	
Ready-mixed concrete	3273	90.2	93.4	87.6	87.1		71.5	74.4	68.2	67.7	
Misc. nonmetallic mineral products	329	109.2	109.1	111.1	110.3		78.0	78.0	81.2	80.6	
Abrasive products	3291	20.6	20.5	20.6	20.6		13.8	13.7	14.1	14.2	
Asbestos products	3292	9.1	9.2	9.3	9.2		7.0	7.1	7.1	6.9	
Mineral wool	3296	24.9	24.4	23.9	23.4						
Primary metal industries	33	734.5	742.2	768.7	771.4	772.5	547.5	556.4	584.6	587.0	590.2
Blast furnaces and basic steel products	331	260.9	267.0	284.5	285.2	284.0	193.6	199.8	218.0	219.2	219.2
Blast furnaces and steel mills	3312	195.4	201.0	216.4	216.5	-	145.5	151.2	167.1	167.6	-
Steel pipe and tubes	3317	22.5	22.7	24.1	24.3		16.2	16.4	18.0	18.4	
Iron and steel foundries	332	128.7	129.9	135.7	136.4		100.8	102.2	107.8	108.5	
Gray iron foundries	3321	80.5	80.9	83.8	84.0		65.1	65.6	68.1	68.3	
Malleable iron foundries	3322	8.7	8.7	8.9	8.9		6.3	6.3	6.6	6.7	
Steel foundries, nec	3325	25.7	26.4	28.7	29.1		19.0	19.7	21.9	22.3	
Primary nonferrous metals	333	39.4	39.6	41.9	42.0		27.1	27.5	30.5	30.5	
Primary aluminum	3334	22.0	22.1	23.5	23.5		15.0	15.2	17.4	17.4	
Nonferrous rolling and drawing	335	177.9	178.0	176.7	177.1		126.6	127.4	126.8	126.9	
Copper rolling and drawing	3351	22.5	22.7	23.4	23.5		17.5	17.8	18.1	18.1	
Aluminum sheet, plate, and foil	3353	27.7	27.6	27.4	27.3		20.2	20.2	19.3	19.1	
Nonferrous wire drawing and insulating	3357	75.7	75.8	74.4	75.1		53.1	53.4	53.3	53.8	
Nonferrous foundries	336	86.2	86.2	87.1	87.5		69.3	69.2	69.9	70.0	
Aluminum foundries	3361	53.0	53.2	53.0	53.1		43.3	43.4	43.3	43.3	
Fabricated metal products	34	1,411.9	1,414.5	1,445.9	1,447.7	1,451.3	1,043.6	1,047.4	1,073.5	1,076.7	1,082.1
Metal cans and shipping containers	341	56.3	56.2	54.8	55.2	-	48.1	48.2	46.4	47.1	-
Metal cans	3411	45.6	45.4	43.9	44.0		39.7	39.7	37.6	38.0	
Cutlery, hand tools, and hardware	342	133.7	133.6	134.6	134.7		98.4	98.7	99.5	99.7	
Hand and edge tools, and hand saws and blades	3423,5	46.5	46.6	49.3	49.4		33.8	34.1	36.2	36.4	
Hardware, nec	3429	76.0	75.9	74.4	74.4		57.1	57.2	56.0	55.9	
Plumbing and heating, except electric	343	60.4	60.6	62.9	63.0		43.0	43.4	45.0	45.1	
Plumbing fittings and brass goods	3432	24.3	24.5	25.3	25.5		17.7	18.0	18.5	18.7	
Heating equipment, except electric	3433	25.4	25.4	26.2	26.0		17.1	17.2	17.8	17.6	
Fabricated structural metal products	344	425.7	427.5	438.0	435.3		297.3	299.5	312.3	310.0	
Fabricated structural metal	3441	76.5	76.1	77.5	77.2		53.8	53.7	55.3	55.1	
Metal doors, sash, and trim	3442	88.2	89.7	94.5	92.7		64.8	65.8	69.6	67.5	
Fabricated plate work (boiler shops)	3443	92.9	92.6	92.6	93.2		57.6	57.4	60.2	61.1	
Sheet metal work	3444	108.1	108.5	111.4	110.8		80.1	80.9	83.8	83.3	
Architectural metal work	3446	29.0	28.8	29.0	28.8		21.1	21.0	21.7	21.7	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	93.5	93.9	97.0	97.7		71.6	72.0	74.6	75.1	
Screw machine products	3451	44.7	44.7	47.2	47.7		36.5	36.7	39.0	39.3	
Bolts, nuts, rivets, and washers	3452	48.8	49.2	49.8	50.0		35.1	35.3	35.6	35.8	
Metal forgings and stampings	346	241.2	240.6	235.0	235.3		193.4	192.5	187.1	187.8	
Iron and steel forgings	3462	31.1	31.1	30.5	30.5		23.9	24.0	23.4	23.3	
Automotive stampings	3465	103.2	102.8	95.9	95.7		88.0	87.6	81.5	81.7	
Metal stampings, nec	3469	96.6	96.3	98.0	98.4		73.9	73.3	74.5	75.0	
Metal services, nec	347	113.0	113.8	120.3	121.7		90.4	91.1	96.7	98.4	
Plating and polishing	3471	73.4	73.4	77.3	78.2		59.2	59.3	62.7	63.7	
Metal coating and allied services	3479	39.6	40.4	43.0	43.5		31.2	31.8	34.0	34.7	
Ordnance and accessories, nec	348	78.8	79.3	82.3	82.0		50.0	50.4	50.7	50.8	
Ammunition, except for small arms, nec	3483	46.3	46.5	46.9	46.6		28.7	28.7	25.8	26.0	
Misc. fabricated metal products	349	209.3	209.0	221.0	222.8		151.4	151.6	161.2	162.7	
Valves and pipe fittings	3494	75.9	75.9	80.9	81.6		50.4	50.7	55.2	56.1	
Misc. fabricated wire products	3496	51.0	51.1	53.6	53.8		38.4	38.7	40.9	41.0	
Machinery, except electrical	35	2,022.4	2,025.1	2,097.1	2,106.1	2,122.8	1,196.3	1,200.8	1,261.8	1,268.5	1,283.8
Engines and turbines	351	99.2	99.2	100.2	98.5	-	62.0	62.1	66.3	65.6	-
Turbines and turbine generator sets	3511	30.7	30.6	27.3	26.8		16.3	16.2	15.8	15.4	
Internal combustion engines, nec	3519	68.5	68.6	72.9	71.7		45.7	45.9	50.5	50.2	
Farm and garden machinery	352	97.6	99.9	112.2	114.2		63.9	65.9	78.3	80.1	
Farm machinery and equipment	3523	69.1	71.3	80.4	80.7		41.7	43.6	53.4	53.9	
Construction and related machinery	353	216.6	215.7	228.1	230.7		127.0	126.5	138.8	140.9	
Construction machinery	3531	79.4	78.8	81.9	83.4		46.3	46.0	50.3	51.5	
Mining machinery	3532	19.6	19.5	20.7	20.9		11.7	11.6	12.7	12.8	
Oil field machinery	3533	40.3	40.3	44.7	45.5		22.9	23.0	27.5	28.3	
Conveyors and conveying equipment	3535	29.6	29.3	30.2	29.9		15.2	15.0	16.0	15.8	
Industrial trucks and tractors	3537	25.2	25.3	26.5	26.5		17.7	17.8	18.4	18.3	
Metalworking machinery	354	299.2	299.0	302.2	303.0		213.6	213.5	217.1	217.3	
Machine tools, metal cutting types	3541	46.5	46.4	45.6	45.7		29.2	29.1	28.9	28.9	
Machine tools, metal forming types	3542	19.2	19.2	19.1	19.1		11.9	11.9	12.4	12.4	
Special dies, tools, jigs, and fixtures	3544	142.3	142.5	144.7	144.7		109.2	109.2	110.6	110.5	
Machine tool accessories	3545	53.0	52.9	55.4	55.9		37.2	37.2	39.6	39.9	
Power driven hand tools	3546	21.2	21.2	21.0	21.0		15.6	15.6	15.7	15.6	
Special industry machinery	355	157.0	157.5	164.7	165.8		93.4	93.6	98.8	99.2	
Food products machinery	3551	37.3	37.6	39.1	39.6		22.7	22.8	23.6	23.9	
Textile machinery	3552	19.5	19.7	21.1	21.2		13.1	13.2	14.3	14.2	
Printing trades machinery	3555	26.7	26.8	27.6	27.8		15.7	15.7	16.4	16.5	
General industrial machinery	356	252.5	251.8	259.2	260.1		160.5	160.5	167.5	168.6	
Pumps and pumping equipment	3561	42.9	43.6	45.2	45.1		24.5	25.0	26.1	26.0	
Ball and roller bearings	3562	43.7	43.1	44.0	44.6		32.9	32.7	34.1	34.8	
Air and gas compressors	3563	21.6	21.6	21.8	21.8		12.1	12.2	12.8	12.9	
Blowers and fans	3564	30.9	30.2	31.4	31.4		19.9	19.3	20.3	20.4	
Speed changers, drives, and gears	3566	19.5	19.5	20.4	20.5		13.3	13.4	14.0	14.1	
Power transmission equipment, nec	3568	16.3	16.2	17.2	17.3		10.6	10.6	11.5	11.7	
Office and computing machines	357	457.7	455.7	469.3	470.9		147.8	147.7	152.9	152.7	
Electronic computing equipment	3573	401.4	399.7	412.1	413.0		124.1	123.8	127.9	127.3	
Refrigeration and service machinery	358	172.7	173.9	177.6	178.8		123.3	124.1	127.1	128.5	
Refrigeration and heating equipment	3585	123.9	124.6	127.4	128.9		90.5	90.8	93.7	95.3	
Misc. machinery, except electrical	359	269.9	272.4	283.6	284.1		204.8	206.9	215.0	215.6	
Carburetors, pistons, rings, and valves	3592	34.9	35.3	35.6	35.5		28.7	29.1	28.5	28.5	
Machinery, except electrical, nec	3599	235.0	237.1	248.0	248.6		176.1	177.8	186.5	187.1	
Electrical and electronic equipment	36	2,101.4	2,092.6	2,128.1	2,123.3	2,124.9	1,223.2	1,217.1	1,250.6	1,249.6	1,250.8
Electric distributing equipment	361	105.9	105.3	106.9	107.4	-	77.4	76.8	77.2	77.8	-
Transformers	3612	50.1	50.1	50.8	51.2		37.4	37.4	37.1	37.3	
Switchgear and switchboard apparatus	3613	55.8	55.2	56.1	56.2		40.0	39.4	40.1	40.5	
Electrical industrial apparatus	362	186.6	185.8	187.0	186.5		128.1	127.6	129.5	129.3	
Motors and generators	3621	91.3	90.8	91.6	91.3		69.4	69.2	70.6	70.6	
Industrial controls	3622	59.5	59.2	59.1	58.9		34.4	34.1	34.4	34.2	
Household appliances	363	136.6	135.4	138.5	135.8		107.9	107.1	111.3	108.4	
Household refrigerators and freezers	3632	28.7	28.6	29.5	28.8		23.4	23.3	24.2	23.3	
Household laundry equipment	3633	23.5	23.4	21.9	22.1		18.3	18.3	17.5	17.7	
Electric housewares and fans	3634	33.7	33.1	36.5	36.7		25.6	25.1	28.4	28.6	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	192.8	192.5	192.6	192.3		139.1	139.1	141.4	141.5	
Electric lamps	3641	27.3	27.2	26.9	27.2		23.3	23.2	23.0	23.3	
Current-carrying wiring devices	3643	74.5	74.1	73.8	73.9		48.4	48.3	49.6	50.1	
Noncurrent-carrying wiring devices	3644	16.5	16.7	16.7	16.6		11.7	11.8	12.2	12.1	
Residential lighting fixtures	3645	28.3	27.9	27.4	27.5		21.6	21.3	20.6	20.4	
Radio and TV receiving equipment	365	80.1	79.4	78.7	77.9		54.0	53.4	53.4	52.8	
Radio and TV receiving sets	3651	61.4	60.7	60.9	60.0		40.7	40.0	40.5	39.7	
Communication equipment	366	622.1	617.4	611.9	610.7		262.6	258.5	256.8	258.6	
Telephone and telegraph apparatus	3661	121.3	118.4	114.1	114.7		71.2	68.3	66.4	67.8	
Radio and TV communication equipment	3662	500.8	499.0	497.8	496.0		191.4	190.2	190.4	190.8	
Electronic components and accessories	367	624.8	625.1	659.7	660.6		348.4	349.7	372.8	373.4	
Electronic tubes	3671-3	38.4	38.7	37.9	38.2		23.8	24.1	24.2	24.6	
Semiconductors and related devices	3674	264.2	263.5	277.5	279.0		102.2	102.3	108.5	108.9	
Electronic components, nec	3679	251.8	252.4	270.0	268.7		169.5	170.4	184.1	183.3	
Misc. electrical equipment and supplies	369	152.5	151.7	152.8	152.1		105.7	104.9	108.2	107.8	
Storage batteries	3691	29.1	29.1	31.9	32.1		22.4	22.4	24.7	24.6	
Engine electrical equipment	3694	66.2	65.7	65.6	64.9		50.3	50.0	50.1	49.8	
Transportation equipment	37	2,025.9	2,025.8	2,003.2	2,006.8	2,003.9	1,282.3	1,281.9	1,251.4	1,256.0	1,254.0
Motor vehicles and equipment	371	859.4	857.2	814.5	819.3	824.9	669.3	668.4	634.7	639.6	644.3
Motor vehicles and car bodies	3711	389.6	385.7	337.5	342.3	-	294.5	291.7	254.3	259.5	-
Truck and bus bodies	3713	41.1	42.0	43.5	45.2		32.3	33.1	33.6	35.2	
Motor vehicle parts and accessories	3714	384.9	384.4	386.3	383.5		308.8	308.7	310.0	307.2	
Truck trailers	3715	28.0	28.8	30.3	31.2		21.4	22.1	23.7	24.4	
Aircraft and parts	372	689.1	689.3	698.6	694.2		345.4	345.9	347.0	343.7	
Aircraft	3721	349.4	349.9	371.0	370.3		157.0	157.4	167.6	166.6	
Aircraft engines and engine parts	3724	156.2	156.2	154.4	152.2		80.2	80.2	78.9	77.2	
Aircraft equipment, nec	3728	183.5	183.2	173.2	171.7		108.2	108.3	100.5	99.9	
Ship and boat building and repairing	373	185.6	186.2	191.7	194.1		139.4	139.2	145.9	149.4	
Ship building and repairing	3731	128.4	128.2	129.8	131.2		93.0	92.2	95.5	98.2	
Boat building and repairing	3732	57.2	58.0	61.9	62.9		46.4	47.0	50.4	51.2	
Railroad equipment	374	23.7	23.3	22.8	23.0		15.8	15.5	16.0	16.2	
Guided missiles, space vehicles, and parts	376	206.0	206.4	214.4	214.0		70.1	69.9	66.2	65.0	
Guided missiles and space vehicles	3761	156.0	156.1	161.0	160.7		50.5	50.2	48.3	47.0	
Miscellaneous transportation equipment	379	50.6	51.3	49.1	49.7		34.4	34.7	32.9	33.1	
Travel trailers and campers	3792	20.1	20.5	19.9	20.3		15.7	16.0	15.4	15.6	
Instruments and related products	38	693.7	694.3	701.0	703.0	703.3	376.2	377.2	384.6	387.0	389.0
Engineering and scientific instruments	381	82.9	83.1	84.3	84.4	-	37.1	37.3	38.8	38.6	-
Measuring and controlling devices	382	239.2	239.5	235.2	235.6		133.9	134.1	132.2	133.0	
Environmental controls	3822	41.1	41.2	41.3	41.3		25.9	26.0	26.5	26.4	
Process control instruments	3823	52.2	52.0	50.9	51.0		26.8	26.9	27.4	27.9	
Instruments to measure electricity	3825	101.0	101.3	98.8	99.0		51.3	51.1	48.4	48.4	
Optical instruments and lenses	383	31.9	32.3	32.3	32.3		15.6	15.7	15.6	16.0	
Medical instruments and supplies	384	179.8	179.1	185.7	186.8		107.7	107.4	112.8	113.9	
Surgical and medical instruments	3841	85.8	85.6	87.5	87.8		49.1	49.3	50.4	50.8	
Surgical appliances and supplies	3842	79.8	79.4	83.5	84.2		50.7	50.2	54.1	54.7	
Ophthalmic goods	385	40.5	40.9	43.8	44.2		27.1	27.5	30.1	30.5	
Photographic equipment and supplies	386	108.2	108.0	108.4	108.6		47.0	47.1	46.7	46.8	
Watches, clocks, and watchcases	387	11.2	11.4	11.3	11.1		7.8	8.1	8.4	8.2	
Miscellaneous manufacturing	39	357.4	363.8	367.8	372.9	375.5	259.2	264.6	264.7	270.7	271.6
Jewelry, silverware, and plated ware	391	52.8	53.0	54.1	54.0	-	36.4	36.7	37.4	37.3	-
Jewelry, precious metal	3911	36.7	36.9	37.4	37.3		25.0	25.3	25.6	25.5	
Musical instruments	393	12.4	12.5	12.9	13.0		10.2	10.2	10.8	10.8	
Toys and sporting goods	394	93.5	96.7	102.0	105.5		69.4	72.0	75.4	79.4	
Dolls, games, toys, and children's vehicles	3942,4	42.4	44.2	46.9	49.6		30.3	31.6	32.9	36.0	
Sporting and athletic goods, nec	3949	51.1	52.5	55.1	55.9		39.1	40.4	42.5	43.4	
Pens, pencils, office, and art supplies	395	32.7	33.1	33.6	34.1		22.7	22.6	23.3	23.7	
Costume jewelry and notions	396	40.4	42.1	38.9	40.0		31.2	33.0	28.7	30.2	
Costume jewelry	3961	24.1	25.5	21.7	22.5		18.7	20.1	16.2	17.2	
Miscellaneous manufactures	399	125.6	126.4	126.3	126.3		89.3	90.1	89.1	89.3	
Signs and advertising displays	3993	54.8	55.0	55.8	55.8		38.2	38.4	38.4	38.6	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Nondurable goods		7,732	7,752	7,915	7,933	7,936	5,448	5,464	5,584	5,603	5,606
Food and kindred products	20	1,572.6	1,576.2	1,607.9	1,601.6	1,593.8	1,095.3	1,098.7	1,125.0	1,120.1	1,113.0
Meat products	201	371.5	373.5	389.2	387.5	-	313.9	315.9	330.0	328.9	-
Meat packing plants	2011	135.0	136.0	141.8	141.3	-	112.4	113.3	119.2	118.8	-
Sausages and other prepared meats	2013	74.8	74.7	75.8	75.1	-	55.0	54.9	55.7	55.1	-
Poultry dressing plants	2016	143.2	144.2	152.3	152.1	-	129.4	130.6	137.5	137.7	-
Dairy products	202	160.4	162.2	164.4	164.1	-	96.8	98.2	98.2	97.6	-
Cheese, natural and processed	2022	38.0	38.2	40.0	39.5	-	29.7	29.8	30.6	30.1	-
Fluid milk	2026	84.6	85.1	85.4	85.6	-	42.4	42.8	42.3	42.1	-
Preserved fruits and vegetables	203	211.0	214.8	211.0	211.9	-	169.0	172.1	167.8	168.5	-
Canned specialties	2032	24.8	24.8	25.4	24.9	-	17.7	17.5	17.6	17.1	-
Canned fruits and vegetables	2033	65.5	66.5	67.1	66.4	-	51.6	52.7	53.0	52.4	-
Frozen fruits and vegetables	2037	41.0	42.3	34.0	36.8	-	35.6	36.6	28.9	31.5	-
Grain mill products	204	119.9	118.6	123.3	123.5	-	82.3	81.0	85.0	85.2	-
Flour and other grain mill products	2041	21.9	21.7	23.5	23.4	-	14.7	14.4	16.2	16.1	-
Prepared feeds, nec	2048	41.9	41.8	42.6	42.9	-	26.5	26.6	26.8	27.1	-
Bakery products	205	207.2	208.5	211.4	210.0	-	124.3	125.3	127.9	126.8	-
Bread, cake, and related products	2051	163.8	164.0	164.9	164.0	-	89.1	89.1	91.8	91.1	-
Cookies and crackers	2052	43.4	44.5	46.5	46.0	-	35.2	36.2	36.1	35.7	-
Sugar and confectionery products	206	96.4	92.5	101.4	97.0	-	74.9	71.2	80.0	76.4	-
Cane and beet sugar	2061-3	25.1	22.1	27.0	24.6	-	19.7	16.6	21.1	19.3	-
Confectionery products	2065	51.9	51.5	54.4	53.1	-	42.2	42.0	45.2	44.0	-
Fats and oils	207	33.4	32.9	33.1	33.3	-	24.6	24.1	24.7	24.8	-
Beverages	208	208.2	208.3	204.0	203.4	-	88.2	89.0	85.6	85.3	-
Malt beverages	2082	40.0	40.0	38.9	38.4	-	25.0	25.0	24.7	24.7	-
Bottled and canned soft drinks	2086	124.0	123.4	122.1	122.1	-	40.1	40.0	39.7	39.5	-
Misc. food and kindred products	209	164.6	164.9	170.1	170.9	-	121.3	121.9	125.8	126.6	-
Tobacco manufactures	21	57.7	55.5	58.6	56.2	53.6	43.8	41.6	44.6	42.3	39.4
Cigarettes	211	41.1	40.5	39.2	39.1	-	30.8	30.2	29.0	28.9	-
Textile mill products	22	718.3	722.1	733.1	734.3	733.2	623.6	627.2	636.7	638.6	638.0
Weaving mills, cotton	221	105.1	105.2	110.2	109.7	-	94.7	94.9	99.4	99.2	-
Weaving mills, synthetics	222	85.6	86.1	90.5	90.5	-	76.3	76.7	80.6	80.6	-
Weaving and finishing mills, wool	223	17.8	17.9	19.2	19.2	-	14.7	14.8	15.7	15.7	-
Narrow fabric mills	224	22.6	22.7	23.9	24.2	-	19.6	19.7	20.8	21.1	-
Knitting mills	225	207.6	208.9	202.9	204.2	-	181.8	183.1	178.8	180.6	-
Women's hosiery, except socks	2251	35.2	35.3	33.7	34.0	-	31.5	31.5	30.1	30.5	-
Hosiery, nec	2252	36.3	36.4	35.9	36.8	-	32.6	32.7	32.2	33.1	-
Knit outerwear mills	2253	71.2	71.8	67.7	67.5	-	63.2	63.7	60.4	60.4	-
Knit underwear mills	2254	23.0	23.2	22.9	23.0	-	19.3	19.6	19.5	19.6	-
Circular knit fabric mills	2257	24.3	24.7	25.7	25.8	-	21.0	21.5	22.4	22.6	-
Textile finishing, except wool	226	60.2	60.3	60.7	60.3	-	50.5	50.7	50.6	50.2	-
Finishing plants, cotton	2261	23.5	23.6	24.0	23.8	-	20.0	20.1	20.0	19.8	-
Finishing plants, synthetics	2262	22.6	22.5	22.3	22.0	-	18.3	18.3	18.2	17.8	-
Floor covering mills	227	56.7	57.9	59.7	59.9	-	46.1	47.1	48.6	48.6	-
Yarn and thread mills	228	107.8	108.1	110.0	109.9	-	96.8	97.2	98.4	98.5	-
Yarn mills, except wool	2281	78.6	78.7	80.9	81.1	-	71.3	71.4	73.3	73.6	-
Throwing and winding mills	2282	16.3	16.2	15.6	15.3	-	14.5	14.5	13.5	13.5	-
Miscellaneous textile goods	229	54.9	55.0	56.0	56.4	-	43.1	43.0	43.8	44.1	-
Apparel and other textile products	23	1,103.1	1,105.2	1,108.4	1,117.5	1,117.2	926.5	928.3	930.5	940.5	940.2
Men's and boys' suits and coats	231	58.3	57.4	57.6	58.0	-	49.9	49.2	49.8	50.1	-
Men's and boys' furnishings	232	306.3	307.6	319.6	321.2	-	264.8	266.0	275.5	278.1	-
Men's and boys' shirts and nightwear	2321	84.9	85.3	85.4	86.4	-	72.7	73.1	72.7	74.2	-
Men's and boys' separate trousers	2327	54.5	54.2	55.4	55.3	-	48.0	47.5	48.4	48.2	-
Men's and boys' work clothing	2328	91.5	92.0	98.7	98.2	-	80.0	80.8	86.6	86.3	-
Women's and misses' outerwear	233	357.1	361.4	348.7	355.3	-	296.5	301.1	289.4	295.9	-
Women's and misses' blouses and waists	2331	50.4	51.0	48.4	48.8	-	41.8	42.4	39.6	40.6	-
Women's and misses' dresses	2335	85.2	88.4	80.5	84.0	-	71.3	74.1	66.0	68.9	-
Women's and misses' suits and coats	2337	42.0	40.7	40.8	42.4	-	34.0	32.8	32.7	34.2	-
Women's and misses' outerwear, nec	2339	179.5	181.3	179.0	180.1	-	149.4	151.8	151.1	152.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	74.0	71.6	71.5	72.0		61.4	59.0	59.0	59.5	
Women's and children's underwear	2341	60.1	57.7	58.4	58.7		51.3	48.9	50.0	50.4	
Brassieres and allied garments	2342	13.9	13.9	13.1	13.3		10.1	10.1	9.0	9.1	
Children's outerwear	236	58.6	56.8	57.7	56.6		49.2	47.6	48.2	47.4	
Children's dresses and blouses	2361	24.9	23.6	24.3	23.7		21.8	20.6	21.2	20.7	
Misc. apparel and accessories	238	40.7	41.7	39.8	41.1		34.3	34.9	32.9	34.1	
Misc. fabricated textile products	239	189.8	190.4	195.2	194.9		155.9	156.1	161.3	160.9	
Curtains and draperies	2391	26.2	26.6	26.9	26.7		21.1	21.4	22.1	22.0	
House furnishings, nec	2392	50.4	50.9	54.6	54.2		42.5	43.0	46.4	46.2	
Automotive and apparel trimmings	2396	40.7	40.2	39.3	38.6		34.4	33.8	32.5	31.8	
Paper and allied products	26	673.7	675.0	677.6	677.7	677.5	511.6	512.6	514.1	515.3	516.1
Paper and pulp mills	261,2,6	193.9	193.4	192.6	192.5	-	147.7	147.1	146.3	146.3	
Paper mills, except building paper	262	169.7	169.3	168.8	168.6		128.6	128.2	127.5	127.5	
Paperboard mills	263	52.9	52.9	52.8	52.8		39.9	39.7	40.2	40.2	
Misc. converted paper products	264	230.3	231.3	231.9	232.5		171.3	172.4	171.3	172.5	
Paper coating and glazing	2641	58.0	58.0	58.0	58.0		36.8	37.2	36.8	37.1	
Envelopes	2642	27.0	27.0	27.3	27.4		21.2	21.2	21.2	21.4	
Bags, except textile bags	2643	52.5	52.3	53.3	53.5		41.7	41.4	42.1	42.0	
Paperboard containers and boxes	265	196.6	197.4	200.3	199.9		152.7	153.4	156.3	156.3	
Folding paperboard boxes	2651	42.1	42.6	43.3	42.8		33.3	33.7	34.5	34.6	
Corrugated and solid fiber boxes	2653	104.6	104.8	106.0	106.2		79.4	79.6	80.4	80.4	
Sanitary food containers	2654	22.6	23.0	23.7	23.9		19.4	19.7	20.2	20.4	
Printing and publishing	27	1,482.0	1,486.5	1,528.7	1,538.1	1,544.4	831.0	832.3	859.2	866.0	871.2
Newspapers	271	457.7	457.0	467.2	466.9	-	169.4	168.3	171.8	171.0	-
Periodicals	272	119.1	120.0	126.4	128.0		43.2	42.9	46.6	46.5	
Books	273	113.3	114.2	114.6	115.1		62.2	62.5	61.3	62.3	
Book publishing	2731	84.2	84.8	84.9	85.1		39.2	39.3	38.0	38.5	
Book printing	2732	29.1	29.4	29.7	30.0		23.0	23.2	23.3	23.8	
Miscellaneous publishing	274	75.4	75.9	80.5	81.6		41.1	41.1	42.0	42.5	
Commercial printing	275	519.6	522.9	540.2	545.5		374.8	377.5	393.2	399.0	
Commercial printing, letterpress	2751	163.0	165.5	171.4	173.9		118.2	119.7	122.1	124.4	
Commercial printing, lithographic	2752	328.6	329.3	339.9	342.4		234.3	235.3	248.1	251.3	
Manifold business forms	276	49.3	49.0	49.3	49.6		34.6	34.3	34.4	34.6	
Blankbooks and bookbinding	278	72.9	73.1	75.7	75.8		58.5	58.8	60.3	60.0	
Printing trade services	279	52.8	52.6	54.5	55.0		39.5	39.3	40.6	40.6	
Chemicals and allied products	28	1,014.3	1,015.5	1,041.6	1,045.7	1,051.2	567.9	569.6	584.4	588.4	593.0
Industrial inorganic chemicals	281	133.0	132.6	135.5	135.5	-	68.0	68.2	67.1	67.6	-
Industrial inorganic chemicals, nec	2819	88.5	88.2	90.5	90.4		49.3	49.4	47.9	48.4	
Plastics materials and synthetics	282	165.2	164.7	168.3	168.1		110.5	110.1	110.4	110.0	
Plastics materials and resins	2821	75.0	75.1	77.9	77.8		44.6	44.7	45.5	45.3	
Organic fibers, noncellulosic	2824	61.2	60.9	60.5	60.5		44.3	44.0	42.4	42.4	
Drugs	283	208.1	208.7	217.9	220.0		96.6	96.8	100.7	101.9	
Pharmaceutical preparations	2834	166.4	166.8	174.6	176.3		76.3	76.3	79.6	80.8	
Soap, cleaners, and toilet goods	284	148.9	148.9	155.1	156.4		94.5	94.1	98.1	99.5	
Soap and other detergents	2841	41.6	41.8	42.6	42.3		26.4	26.3	26.5	26.5	
Polishing, sanitation, and finishing preparations	2842,3	40.2	39.8	41.7	41.9		21.6	21.3	23.2	23.6	
Toilet preparations	2844	67.1	67.3	70.8	72.2		46.5	46.5	48.4	49.4	
Paints and allied products	285	62.2	62.5	61.8	61.9		30.3	30.5	30.0	30.1	
Industrial organic chemicals	286	151.3	151.4	154.5	154.9		82.8	83.4	88.9	89.8	
Cyclic crudes and intermediates	2865	28.8	28.9	30.2	30.2		19.2	19.2	19.4	19.5	
Gum, wood, and industrial organic chemicals, nec	2861,9	122.5	122.5	124.3	124.7		63.6	64.2	69.5	70.3	
Agricultural chemicals	287	54.2	54.9	54.0	54.7		33.9	34.9	35.1	35.6	
Miscellaneous chemical products	289	91.4	91.8	94.5	94.2		51.3	51.6	54.1	53.9	
Petroleum and coal products	29	160.7	162.0	163.2	162.8	163.9	102.6	104.0	105.7	105.5	106.8
Petroleum refining	291	124.6	124.7	126.6	126.0	-	77.7	78.2	81.0	80.7	-
Paving and roofing materials	295	24.8	25.9	25.0	25.1		18.5	19.3	18.3	18.4	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	803.4	807.6	843.6	846.4	848.6	624.1	628.0	657.1	659.3	661.2
Tires and inner tubes	301	86.6	86.5	86.1	86.1	-	62.8	63.0	61.3	61.4	-
Rubber and plastics footwear	302	10.4	10.3	11.3	11.7	-	8.6	8.4	9.3	9.7	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	21.8	21.8	22.4	22.6	-	15.6	15.8	16.6	16.6	-
Fabricated rubber products, nec	306	103.7	103.9	107.6	107.5	-	79.7	80.0	83.1	83.1	-
Miscellaneous plastics products	307	580.9	585.1	616.2	618.5	-	457.4	460.8	486.8	488.5	-
Leather and leather products	31	145.8	146.4	152.3	152.8	153.0	121.4	121.7	126.5	126.7	126.9
Leather tanning and finishing	311	13.6	13.8	13.2	13.3	-	11.2	11.4	10.9	11.0	-
Footwear, except rubber	314	84.7	84.8	91.7	91.5	-	72.7	72.6	78.5	78.1	-
Men's footwear, except athletic	3143	37.4	37.5	42.0	41.9	-	30.1	30.1	34.4	34.2	-
Women's footwear, except athletic	3144	31.0	31.0	32.1	31.7	-	27.3	27.2	28.4	27.9	-
Luggage	316	10.4	10.6	11.8	12.0	-	7.5	7.6	8.5	8.6	-
Handbags and personal leather goods	317	18.5	18.9	17.7	17.9	-	14.9	15.2	14.0	14.3	-
Transportation and public utilities		5,252	5,275	5,425	5,438	5,462	4,345	4,366	4,493	4,504	4,532
Transportation		3,045	3,065	3,195	3,206	3,227	-	-	-	-	-
Railroad transportation	40	301.2	300.5	289.4	288.4	-	-	-	-	-	-
Class I railroads ²	4011	266.3	265.7	254.6	253.0	-	-	-	-	-	-
Local and interurban passenger transit	41	288.3	291.0	294.4	291.9	-	267.3	269.7	271.5	269.2	-
Local and suburban transportation	411	99.5	99.8	102.0	101.6	-	91.1	91.2	93.1	92.8	-
Taxicabs	412	36.1	35.9	34.1	33.9	-	-	-	-	-	-
Intercity highway transportation	413	30.3	30.9	31.8	31.5	-	27.4	27.9	29.0	28.7	-
School buses	415	100.0	100.8	101.2	98.5	-	-	-	-	-	-
Trucking and warehousing	42	1,385.1	1,399.3	1,500.2	1,505.2	-	1,201.8	1,213.5	1,304.9	1,309.0	-
Trucking and trucking terminals	421,3	1,284.1	1,298.4	1,388.3	1,393.7	-	1,117.3	1,129.0	1,210.7	1,215.5	-
Public warehousing	422	101.0	100.9	111.9	111.5	-	84.5	84.5	94.2	93.5	-
Water transportation	44	165.5	164.7	172.2	172.2	-	-	-	-	-	-
Local water transportation	445	24.3	24.7	25.0	25.3	-	-	-	-	-	-
Water transportation services	446	92.4	90.1	93.6	93.7	-	-	-	-	-	-
Transportation by air	45	593.9	595.9	611.0	615.0	-	-	-	-	-	-
Air transportation	451,2	526.5	527.7	537.4	541.4	-	-	-	-	-	-
Air transportation services	458	67.4	68.2	73.6	73.6	-	-	-	-	-	-
Pipe lines, except natural gas	46	17.5	17.6	17.8	17.6	-	12.7	12.7	12.9	12.7	-
Transportation services	47	293.0	295.8	310.2	315.9	-	-	-	-	-	-
Freight forwarding	471	68.6	69.4	75.8	77.4	-	-	-	-	-	-
Communication and public utilities		2,207	2,210	2,230	2,232	2,235	-	-	-	-	-
Communication	48	1,284.8	1,285.3	1,302.5	1,304.8	-	977.4	977.8	990.4	994.2	-
Telephone communication	481	886.6	885.5	888.7	886.5	-	656.6	655.6	658.9	658.6	-
Radio and television broadcasting	483	236.0	236.4	240.0	240.8	-	193.7	193.9	196.6	197.4	-
Radio broadcasting	4832	112.6	112.8	112.7	112.9	-	-	-	-	-	-
Television broadcasting	4833	123.4	123.6	127.3	127.9	-	-	-	-	-	-
Electric, gas, and sanitary services	49	922.1	924.7	927.0	927.2	-	730.5	732.7	729.4	729.0	-
Electric services	491	452.1	453.6	451.0	451.6	-	346.3	347.2	342.8	343.1	-
Gas production and distribution	492	165.0	165.1	165.7	165.0	-	130.7	130.8	130.4	130.0	-
Combination utility services	493	204.0	203.9	200.1	199.7	-	167.9	168.0	163.2	162.4	-
Sanitary services	495	73.9	74.8	81.8	82.3	-	64.0	64.8	70.6	71.0	-
Wholesale trade		5,707	5,725	5,843	5,853	5,878	4,563	4,575	4,667	4,677	4,702
Durable goods	50	3,370	3,380	3,464	3,473	3,492	2,667	2,672	2,736	2,746	-
Motor vehicles and automotive equipment	501	431.1	431.1	434.8	435.1	-	345.0	345.8	348.2	349.2	-
Automobiles and other motor vehicles	5012	111.7	111.0	113.3	113.9	-	-	-	-	-	-
Automotive parts and supplies	5013	288.9	289.3	290.4	290.5	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	134.7	135.7	140.6	140.4		108.0	109.1	113.1	112.9	
Furniture	5021	59.8	60.0	61.7	62.0		-	-	-	-	
Home furnishings	5023	74.9	75.7	78.9	78.4		-	-	-	-	
Lumber and construction materials	503	223.5	224.3	223.0	221.8		182.8	184.0	182.0	180.9	
Lumber, plywood, and millwork	5031	101.7	102.3	102.7	102.1		-	-	-	-	
Construction materials, nec	5039	121.8	122.0	120.3	119.7		-	-	-	-	
Sporting goods, toys, and hobby goods	504	78.3	79.2	80.2	81.0		64.2	65.2	65.9	66.3	
Metals and minerals, except petroleum	505	131.3	131.4	138.6	139.5		102.3	102.8	109.1	109.9	
Electrical goods	506	487.8	488.3	500.1	501.2		370.8	371.7	381.0	382.1	
Electrical apparatus and equipment	5063	268.7	268.7	277.9	279.8		-	-	-	-	
Electrical appliances, TV and radios	5064	72.2	72.8	71.7	71.9		-	-	-	-	
Electronic parts and equipment	5065	146.9	146.8	150.5	149.5		-	-	-	-	
Hardware, plumbing, and heating equipment	507	258.9	259.9	264.4	264.1		208.6	208.6	213.1	212.4	
Hardware	5072	89.8	90.1	92.0	91.4		-	-	-	-	
Plumbing and hydronic heating supplies	5074	107.7	108.2	110.0	110.1		-	-	-	-	
Machinery, equipment, and supplies	508	1,434.7	1,438.7	1,481.2	1,487.3		1,134.7	1,132.7	1,162.5	1,170.4	
Commercial machines and equipment	5081	531.9	532.5	550.7	554.1		-	-	-	-	
Construction and mining machinery	5082	80.3	80.1	83.0	83.2		-	-	-	-	
Farm machinery and equipment	5083	115.8	116.7	119.0	119.8		-	-	-	-	
Industrial machinery and equipment	5084	294.4	294.1	300.6	302.1		-	-	-	-	
Industrial supplies	5085	128.3	128.9	133.2	132.6		-	-	-	-	
Professional equipment and supplies	5086	173.8	174.2	180.4	181.0		-	-	-	-	
Miscellaneous durable goods	509	189.9	191.7	200.7	202.6		150.1	152.3	161.0	162.2	
Scrap and waste materials	5093	86.6	87.5	93.0	94.4		-	-	-	-	
Nondurable goods	51	2,337	2,345	2,379	2,380	2,386	1,896	1,903	1,931	1,931	
Paper and paper products	511	191.9	191.4	194.6	195.5	-	156.6	155.8	156.4	157.1	
Drugs, proprietaries, and sundries	512	171.0	172.9	182.4	182.7		141.6	143.1	151.8	152.4	
Apparel, piece goods, and notions	513	190.7	191.9	190.8	192.2		143.5	143.8	144.2	145.8	
Groceries and related products	514	753.4	753.3	762.0	759.0		637.2	636.6	643.2	640.3	
Groceries, general line	5141	246.5	246.9	251.4	251.8		-	-	-	-	
Meats and meat products	5147	63.9	63.6	63.8	63.2		-	-	-	-	
Fresh fruits and vegetables	5148	88.0	86.4	82.4	81.4		-	-	-	-	
Chemicals and allied products	516	131.1	130.9	134.6	134.4		94.4	95.4	99.8	100.2	
Petroleum and petroleum products	517	193.7	192.8	197.1	197.9		150.4	149.8	153.9	154.8	
Petroleum bulk stations and terminals	5171	78.5	77.9	80.8	80.9		-	-	-	-	
Petroleum products, nec	5172	115.2	114.9	116.3	117.0		-	-	-	-	
Beer, wine, and distilled beverages	518	149.5	150.4	153.0	152.6		122.9	123.6	125.5	125.2	
Beer and ale	5181	93.7	94.4	95.0	95.2		-	-	-	-	
Wines and distilled beverages	5182	55.8	56.0	58.0	57.4		-	-	-	-	
Miscellaneous nondurable goods	519	429.3	434.9	438.1	441.1		347.8	352.0	353.7	354.3	
Farm supplies	5191	138.5	143.6	142.6	144.3		-	-	-	-	
Retail trade		17,644	17,737	18,340	18,215	18,312	15,666	15,745	16,255	16,121	16,179
Building materials and garden supplies	52	677.7	695.2	699.1	697.4		558.3	574.6	575.0	573.0	
Lumber and other building materials	521	369.7	375.4	382.8	380.3		311.3	316.2	320.5	318.4	
Hardware stores	525	153.6	155.8	161.8	161.3		127.4	129.4	134.0	133.1	
General merchandise stores	53	2,290.4	2,278.5	2,544.4	2,444.6	2,408.0	2,148.8	2,139.0	2,378.6	2,272.2	
Department stores	531	1,914.5	1,902.9	2,140.3	2,051.6	-	1,814.8	1,804.7	2,018.5	1,922.5	
Variety stores	533	237.0	237.1	250.9	245.9		214.5	214.9	227.4	222.4	
Misc. general merchandise stores	539	138.9	138.5	153.2	147.1		119.5	119.4	132.7	127.3	
Food stores	54	2,914.7	2,906.0	3,006.9	3,004.4	3,008.7	2,685.9	2,678.9	2,761.9	2,761.2	
Grocery stores	541	2,560.7	2,554.9	2,652.6	2,650.5	-	2,370.0	2,365.2	2,447.3	2,447.2	
Meat markets and freezer provisioners	542	58.9	58.7	59.3	58.7		-	-	-	-	
Dairy products stores	545	34.3	34.5	34.1	31.8		-	-	-	-	
Retail bakeries	546	160.9	161.3	164.5	164.8		146.2	147.1	149.6	149.7	
Automotive dealers and service stations	55	1,951.2	1,958.8	2,002.9	2,011.2	2,034.4	1,633.6	1,641.5	1,673.8	1,681.3	
New and used car dealers	551,2	958.7	959.2	989.2	999.8	-	797.1	797.5	819.1	828.5	
Auto and home supply stores	553	302.2	305.4	314.4	308.2		243.0	245.6	254.2	248.2	
Gasoline service stations	554	602.1	601.1	611.3	614.0		523.7	524.0	531.2	534.3	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Retail trade—Continued											
Apparel and accessory stores	56	1,076.8	1,081.1	1,100.7	1,066.0		909.2	912.3	932.6	899.6	
Men's and boys' clothing and furnishings	561	107.1	106.4	106.1	103.2		88.3	87.0	87.0	84.2	
Women's ready-to-wear stores	562	384.7	386.8	389.6	380.0		327.2	329.3	329.7	319.0	
Family clothing stores	565	236.2	238.6	247.4	236.5		204.0	205.1	215.3	205.4	
Shoe stores	566	203.9	204.5	214.2	209.8		163.5	165.1	177.6	173.4	
Furniture and home furnishings stores	57	782.7	785.0	833.5	831.2		649.9	650.5	688.9	684.8	
Furniture and home furnishings stores	571	440.2	441.8	466.5	463.8		361.6	362.9	383.2	380.2	
Furniture stores	5712	277.7	279.8	293.4	292.8		-	-	-	-	
Household appliance stores	572	85.7	87.5	87.1	88.9		73.1	74.7	75.1	76.6	
Radio, television, and music stores	573	256.8	255.7	279.9	278.5		215.2	212.9	230.6	228.0	
Radio and television stores	5732	191.3	190.2	209.0	207.9		-	-	-	-	
Music stores	5733	65.5	65.5	70.9	70.6		-	-	-	-	
Eating and drinking places	58	5,687.2	5,789.3	5,797.5	5,823.1	5,943.4	5,173.8	5,263.0	5,260.3	5,286.5	
Miscellaneous retail	59	2,262.9	2,243.1	2,355.4	2,337.4		1,906.8	1,885.1	1,984.2	1,962.2	
Drug stores and proprietary stores	591	578.4	582.5	614.1	611.8		489.8	493.7	522.5	518.9	
Liquor stores	592	124.6	124.3	122.8	121.4		-	-	-	-	
Miscellaneous shopping goods stores	594	738.4	729.6	800.3	766.7		620.6	609.7	674.4	640.3	
Sporting goods and bicycle shops	5941	128.6	127.4	140.5	133.9		-	-	-	-	
Book stores	5942	78.9	78.5	79.7	80.8		-	-	-	-	
Stationery stores	5943	76.3	76.3	77.0	77.6		-	-	-	-	
Jewelry stores	5944	143.9	141.0	152.6	149.9		-	-	-	-	
Gift, novelty, and souvenir shops	5947	136.4	134.1	142.8	139.1		-	-	-	-	
Sewing, needlework, and piece goods	5949	64.0	63.5	64.9	65.1		-	-	-	-	
Nonstore retailers	596	254.3	254.9	255.9	256.0		229.3	229.5	229.0	228.7	
Mail order houses	5961	119.4	118.6	121.0	120.2		-	-	-	-	
Merchandising machine operators	5962	80.6	80.3	83.9	83.7		-	-	-	-	
Fuel and ice dealers	598	116.2	115.1	119.6	119.2		97.1	95.8	100.2	99.6	
Retail stores, nec	599	370.7	355.4	355.1	372.6		302.5	289.1	287.7	304.1	
Finance, insurance, and real estate³		6,438	6,478	6,626	6,623	6,644	4,742	4,775	4,825	4,813	4,827
Finance		3,227	3,246	3,296	3,284	3,285					
Banking	60	1,728.5	1,731.3	1,734.2	1,728.9		1,246.8	1,248.4	1,241.5	1,235.6	
Commercial and stock savings banks	602	1,554.0	1,555.3	1,558.7	1,553.5		1,116.4	1,116.6	1,112.2	1,107.1	
State banks, Federal Reserve	6022	341.8	341.7	348.0	347.8		-	-	-	-	
State banks, not Federal Reserve	6023,4	372.5	373.1	377.0	375.7		-	-	-	-	
Mutual savings banks	603	85.4	86.2	87.1	86.4		-	-	-	-	
Credit agencies other than banks	61	875.2	883.5	897.7	894.7		657.1	662.6	665.4	662.6	
Savings and loan associations	612	393.6	395.5	405.0	403.5		300.4	301.4	306.4	305.2	
Federal savings and loan associations	6122	217.8	219.2	224.0	224.2		-	-	-	-	
State associations, insured	6123	167.7	168.1	173.2	171.5		-	-	-	-	
Personal credit institutions	614	231.7	232.3	240.1	238.7		178.1	178.8	184.2	182.8	
Business credit institutions	615	51.5	52.6	58.8	59.9		-	-	-	-	
Mortgage bankers and brokers	616	173.2	177.7	171.2	169.6		-	-	-	-	
Security, commodity brokers, and services	62	418.6	425.3	452.1	448.3						
Security brokers and dealers	621	333.4	339.4	359.5	355.9						
Holding and other investment offices	67	204.7	206.2	212.3	212.4						
Insurance		2,013	2,020	2,082	2,091	2,094					
Insurance carriers	63	1,396.9	1,401.6	1,431.1	1,433.6		950.7	952.8	957.0	955.8	
Life insurance	631	580.5	581.2	595.9	597.0		363.8	363.0	359.4	358.0	
Medical service and health insurance	632	193.2	193.2	199.2	199.4		156.1	156.0	161.0	161.3	
Fire, marine, and casualty insurance	633	520.3	524.1	540.7	542.9		351.6	353.9	364.8	365.8	
Title insurance	636	61.7	61.5	53.3	52.3		-	-	-	-	
Insurance agents, brokers, and service	64	615.7	618.8	651.0	657.6						

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,198	1,212	1,248	1,248	1,265					
Real estate	65	1,185.9	1,199.4	1,235.5	1,235.3						
Real estate operators and lessors	651	501.3	509.4	504.2	501.0						
Real estate agents and managers	653	502.1	504.9	537.3	539.4						
Subdividers and developers	655	148.6	150.7	159.0	160.1						
Combined real estate, insurance, etc	66	12.4	12.2	12.2	12.2						
Services		23,474	23,723	24,263	24,585	24,842	20,540	20,767	21,184	21,485	21,724
Hotels and other lodging places	70	1,347.2	1,372.3	1,402.8	1,421.0		-	-	-	-	
Hotels, motels, and tourist courts	701	1,316.0	1,339.9	1,372.8	1,390.1		1,168.1	1,191.3	1,220.4	1,235.9	
Personal services	72	1,151.9	1,160.0	1,224.4	1,251.9		-	-	-	-	
Laundry, cleaning, and garment services	721	392.6	395.3	413.0	412.7		349.3	352.3	366.7	365.2	
Photographic studios, portrait	722	59.1	58.8	60.7	61.7		-	-	-	-	
Beauty shops	723	350.2	350.9	351.6	354.3		316.4	316.1	315.8	316.8	
Funeral service and crematories	726	78.7	78.4	78.8	78.5		-	-	-	-	
Business services	73	4,893.9	4,963.9	5,154.5	5,200.2	5,251.3	4,182.3	4,247.5	4,412.7	4,450.6	
Advertising	731	200.6	200.6	201.4	199.7	-	148.4	148.5	150.8	149.4	
Advertising agencies	7311	148.9	148.5	148.5	148.2		-	-	-	-	
Credit reporting and collection	732	101.7	103.5	101.5	100.4		-	-	-	-	
Mailing, reproduction, and stenographic	733	199.2	202.2	219.1	220.6		-	-	-	-	
Services to buildings	734	677.2	680.6	677.1	680.9		611.3	614.4	613.7	618.5	
Personnel supply services	736	1,071.6	1,110.4	1,206.2	1,230.7		-	-	-	-	
Employment agencies	7361	170.4	176.5	193.1	196.2		-	-	-	-	
Temporary help supply services	7362	847.7	879.6	947.7	967.4		-	-	-	-	
Computer and data processing services	737	616.7	622.2	681.3	688.8		486.7	489.6	533.4	538.4	
Computer programming and software	7372	224.9	228.6	257.7	260.2		-	-	-	-	
Data processing services	7374	293.5	295.2	315.4	318.9		-	-	-	-	
Miscellaneous business services	739	2,018.0	2,035.4	2,058.8	2,070.0		-	-	-	-	
Research development laboratories, nec	7391	196.4	196.2	199.9	200.9		-	-	-	-	
Management and public relations	7392	558.9	568.1	568.8	577.9		-	-	-	-	
Detective and protective services	7393	448.8	449.7	446.4	448.0		-	-	-	-	
Equipment rental and leasing	7394	207.3	210.1	218.1	216.6		-	-	-	-	
Photofinishing laboratories	7395	76.9	76.6	78.7	76.5		-	-	-	-	
Auto repair, services, and garages	75	777.1	783.6	800.0	811.7		651.3	653.1	661.2	674.5	
Automotive rentals, without drivers	751	167.8	171.7	168.2	174.0		-	-	-	-	
Automotive repair shops	753	457.0	460.7	480.5	481.3		380.5	379.3	393.8	397.1	
Miscellaneous repair services	76	315.2	319.4	328.2	330.6		261.5	265.3	272.4	274.0	
Electrical repair shops	762	106.4	106.9	103.7	104.4		-	-	-	-	
Motion pictures	78	226.5	229.2	234.6	231.3		189.5	192.4	198.8	194.3	
Motion picture production and services	781	115.5	116.5	123.0	121.1		92.1	93.7	101.2	97.8	
Motion picture theaters	783	98.5	100.3	97.3	95.9		-	-	-	-	
Amusement and recreation services	79	850.5	883.4	829.4	841.4		729.2	759.8	709.3	722.9	
Health services	80	6,728.6	6,762.1	7,071.1	7,109.5	7,149.5	5,980.7	6,009.4	6,269.9	6,306.0	
Offices of physicians	801	1,037.4	1,045.1	1,128.6	1,139.2	-	855.6	860.0	921.9	930.4	
Offices of dentists	802	470.6	473.8	491.3	492.8		415.8	418.3	432.7	434.0	
Nursing and personal care facilities	805	1,280.1	1,284.2	1,310.3	1,310.4		1,156.0	1,159.8	1,181.1	1,182.7	
Skilled nursing care facilities	8051	854.9	857.2	875.0	873.7		-	-	-	-	
Nursing and personal care, nec	8059	425.2	427.0	435.3	436.7		-	-	-	-	
Hospitals	806	3,091.0	3,101.1	3,234.0	3,251.6		2,818.8	2,828.2	2,950.5	2,968.0	
General medical and surgical hospitals	8062	2,893.3	2,903.4	3,026.3	3,041.6		-	-	-	-	
Psychiatric hospitals	8063	66.1	66.4	69.8	70.8		-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	131.6	131.3	137.9	139.2		-	-	-	-	
Medical and dental laboratories	807	135.1	136.8	147.3	149.1		-	-	-	-	
Outpatient care facilities	808	260.9	263.3	276.4	279.7		-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Services—Continued											
Legal services	81	775.9	778.7	797.7	801.1		652.3	654.6	667.8	670.0	
Educational services	82	1,522.8	1,531.3	1,412.7	1,524.7						
Elementary and secondary schools	821	372.7	375.1	372.8	376.9						
Colleges and universities	822	997.2	1,001.4	886.0	989.7						
Correspondence and vocational schools ..	824	72.6	73.6	72.0	73.7						
Social services	83	1,513.9	1,526.8	1,584.2	1,604.1						
Individual and family services	832	302.6	306.1	321.6	324.6						
Job training and related services	833	259.7	260.7	261.6	263.6						
Residential care	836	328.8	330.2	343.9	345.9						
Museums, botanical and zoological gardens	84	46.5	47.7	49.5	49.8						
Membership organizations	86	1,523.3	1,530.4	1,515.1	1,528.9						
Business associations	861	91.0	91.4	91.3	91.5						
Labor organizations	863	132.5	133.1	128.0	132.2						
Civic and social associations	864	343.9	347.0	338.2	347.8						
Miscellaneous services	89	1,289.1	1,299.6	1,341.9	1,356.8		1,051.0	1,061.0	1,087.5	1,101.0	
Engineering and architectural services	891	675.3	679.1	713.6	712.3		568.7	572.3	599.9	598.1	
Noncommercial research organizations	892	127.4	129.0	129.5	132.0		-	-	-	-	
Accounting, auditing, and bookkeeping ..	893	460.2	465.1	471.0	484.7		361.3	366.0	363.4	376.9	
Government		17,205	17,310	17,252	17,575	17,689					
Federal Government ⁴		2,897	2,916	2,953	2,958	2,966					
Executive, by agency ⁴		2,841.2	2,859.9	2,894.6							
Department of Defense		970.0	973.3	980.7							
Postal Service ⁵		807.8	811.8	822.6							
Other executive agencies		1,063.4	1,074.8	1,091.3							
Legislative		36.8	37.1	37.9							
Judicial		19.0	19.2	20.0							
Federal government, by industry:											
Manufacturing activities		123.0	123.3	125.9	124.0						
Shipbuilding and repairing	3731	73.9	74.5	77.2	76.0						
Transportation and public utilities, except Postal											
Service		39.2	39.9	39.8	41.1						
Services		403.9	405.2	410.5	411.5						
Hospitals	806	245.7	247.2	253.4	253.5						
State government		4,020	4,036	3,964	4,100	4,123					
Hospitals	806	445.0	446.7	454.3	457.3	-					
Education	82	1,684.0	1,702.2	1,593.8	1,719.9						
General administration, including executive,											
legislative, and judicial functions		1,329.7	1,326.4	1,347.0	1,353.8						
Local government		10,288	10,358	10,335	10,517	10,600					
Transportation and public utilities		488.2	488.2	495.0	494.0	-					
Hospitals	806	614.2	616.0	637.3	641.3						
Education	82	5,904.3	5,955.5	5,856.9	6,019.3						
General administration, including executive,											
legislative, and judicial functions		2,966.5	2,980.3	3,024.4	3,035.4						

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

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

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

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

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

⁵ Includes rural mail carriers.

- Data not available.

^p = preliminary.

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

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Dec. 1986	Jan. 1987	Nov. 1987	Dec. 1987	Jan. 1988
Total	47,035	46,216	48,502	48,777	47,906
Total private	38,229	37,523	39,418	39,699	38,969
Goods-producing	6,839	6,769	7,045	7,024	6,964
Mining	98	97	98	99	98
Construction	515	510	545	540	532
Manufacturing	6,226	6,162	6,402	6,385	6,334
Durable goods	2,990	2,966	3,058	3,060	3,044
Lumber and wood products	113	112	120	120	119
Furniture and fixtures	157	157	167	167	167
Stone, clay, and glass products	113	112	115	115	114
Primary metal industries	99	99	104	104	103
Fabricated metal products	322	319	329	329	328
Machinery, except electrical	442	441	455	459	461
Electrical and electronic equipment	887	878	887	890	887
Transportation equipment	389	387	396	397	392
Instruments and related products	301	300	305	305	305
Miscellaneous manufacturing	167	161	181	174	169
Nondurable goods	3,236	3,196	3,344	3,325	3,290
Food and kindred products	511	489	530	517	503
Tobacco manufactures	20	20	19	20	20
Textile mill products	349	347	357	355	351
Apparel and other textile products	886	876	902	892	882
Paper and allied products	165	162	168	168	166
Printing and publishing	632	631	658	661	660
Chemicals and allied products	286	287	301	303	302
Petroleum and coal products	24	24	24	24	24
Rubber and misc. plastics products	276	276	292	294	293
Leather and leather products	87	86	93	92	91
Service-producing	40,196	39,447	41,457	41,753	40,942
Transportation and public utilities	1,509	1,504	1,561	1,564	1,551
Wholesale trade	1,686	1,672	1,749	1,752	1,741
Retail trade	9,974	9,406	10,024	10,270	9,748
Finance, insurance, and real estate	4,013	4,016	4,141	4,157	4,149
Services	14,208	14,156	14,898	14,932	14,816
Government	8,806	8,693	9,084	9,078	8,937
Federal	1,028	1,027	1,053	1,057	1,051
State	1,913	1,874	1,983	1,979	1,927
Local	5,865	5,792	6,048	6,042	5,959

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

introduced, all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	Mar. ^P
Total	101,329	101,598	101,708	101,818	102,126	102,275	102,434	102,983	103,285	103,612	103,827	104,344	104,606
Total private	84,352	84,560	84,677	84,787	85,106	85,229	85,386	85,795	86,072	86,341	86,560	87,040	87,253
Goods-producing	24,749	24,759	24,752	24,761	24,850	24,886	24,917	25,064	25,169	25,259	25,205	25,342	25,426
Mining	722	729	735	738	744	751	759	764	759	756	746	749	755
Oil and gas extraction	408	416	420	425	430	434	439	443	439	436	430	432	437
Construction	5,032	5,019	4,999	5,008	5,002	5,006	4,989	5,053	5,074	5,121	5,058	5,175	5,254
General building contractors	1,291	1,272	1,267	1,266	1,261	1,262	1,280	1,279	1,280	1,290	1,303	1,322	1,321
Manufacturing	18,995	19,011	19,018	19,015	19,104	19,129	19,169	19,247	19,338	19,382	19,401	19,418	19,417
Durable goods	11,176	11,175	11,175	11,176	11,195	11,248	11,268	11,319	11,367	11,403	11,403	11,412	11,414
Lumber and wood products	734	736	738	735	740	736	740	741	750	753	753	759	748
Furniture and fixtures	502	504	509	510	518	518	520	524	526	530	533	531	530
Stone, clay, and glass products	588	588	584	582	582	582	581	583	588	590	585	588	587
Primary metal industries	739	743	742	748	750	754	764	768	771	771	768	770	769
Blast furnaces and basic steel products	288	272	272	275	277	278	283	286	287	285	284	285	283
Fabricated metal products	1,419	1,423	1,420	1,424	1,424	1,425	1,429	1,438	1,448	1,451	1,452	1,455	1,458
Machinery, except electrical	2,015	2,022	2,025	2,028	2,033	2,044	2,053	2,064	2,074	2,085	2,097	2,102	2,112
Electrical and electronic equipment	2,099	2,092	2,087	2,080	2,088	2,095	2,098	2,111	2,118	2,128	2,130	2,128	2,131
Transportation equipment	2,022	2,011	2,011	2,010	1,995	2,028	2,018	2,019	2,018	2,018	2,005	2,001	2,000
Motor vehicles and equipment	854	847	843	842	814	848	837	838	835	832	820	818	822
Instruments and related products	894	694	693	693	695	695	695	697	701	701	702	704	703
Miscellaneous manufacturing	386	364	368	388	370	371	372	374	377	376	378	380	378
Nondurable goods	7,819	7,836	7,843	7,839	7,909	7,881	7,901	7,928	7,969	7,979	7,998	8,006	8,003
Food and kindred products	1,635	1,642	1,633	1,634	1,644	1,632	1,631	1,635	1,645	1,645	1,661	1,660	1,653
Tobacco manufactures	57	56	57	57	57	56	55	55	56	58	57	56	55
Textile mill products	725	724	727	729	736	732	735	736	738	739	736	738	736
Apparel and other textile products	1,103	1,104	1,107	1,108	1,130	1,110	1,117	1,123	1,128	1,121	1,117	1,115	1,115
Paper and allied products	678	677	677	676	678	677	681	681	680	681	681	682	681
Printing and publishing	1,485	1,493	1,497	1,498	1,504	1,508	1,509	1,514	1,522	1,525	1,530	1,538	1,543
Chemicals and allied products	1,017	1,018	1,022	1,014	1,026	1,031	1,031	1,035	1,041	1,047	1,048	1,050	1,052
Petroleum and coal products	164	164	164	164	164	164	166	167	167	167	167	166	166
Rubber and misc. plastics products	807	809	809	810	815	819	824	833	840	845	847	847	848
Leather and leather products	148	149	150	149	155	152	152	152	152	153	154	154	154
Service-producing	76,580	76,839	76,956	77,057	77,276	77,389	77,517	77,919	78,116	78,353	78,622	79,002	79,180
Transportation and public utilities	5,333	5,348	5,344	5,350	5,363	5,377	5,416	5,436	5,459	5,473	5,485	5,504	5,522
Transportation	3,112	3,124	3,120	3,128	3,133	3,147	3,183	3,198	3,218	3,233	3,244	3,261	3,276
Communication and public utilities	2,221	2,224	2,224	2,222	2,230	2,230	2,233	2,238	2,241	2,240	2,241	2,243	2,246
Wholesale trade	5,766	5,772	5,775	5,781	5,797	5,807	5,815	5,831	5,851	5,871	5,884	5,903	5,920
Durable goods	3,397	3,397	3,401	3,405	3,416	3,422	3,431	3,444	3,456	3,473	3,481	3,494	3,510
Nondurable goods	2,369	2,375	2,374	2,376	2,379	2,385	2,384	2,387	2,395	2,398	2,403	2,409	2,410
Retail trade	18,136	18,197	18,205	18,226	18,274	18,256	18,314	18,408	18,443	18,458	18,619	18,720	18,724
General merchandise stores	2,380	2,385	2,390	2,387	2,407	2,411	2,415	2,459	2,454	2,453	2,490	2,533	2,503
Food stores	2,944	2,953	2,956	2,960	2,959	2,962	2,958	2,969	2,982	2,996	3,019	3,032	3,045
Automotive dealers and service stations	1,979	1,978	1,978	1,983	1,985	1,985	1,988	2,000	2,003	2,013	2,023	2,040	2,055
Eating and drinking places	5,964	5,962	5,976	5,982	5,985	5,992	6,018	6,032	6,047	6,064	6,083	6,097	6,115
Finance, insurance, and real estate	6,526	6,558	6,576	6,586	6,608	6,624	6,629	6,650	6,657	6,668	6,684	6,687	6,694
Finance	3,256	3,272	3,276	3,280	3,291	3,293	3,292	3,296	3,301	3,301	3,309	3,301	3,295
Insurance	2,022	2,032	2,037	2,037	2,043	2,050	2,054	2,068	2,069	2,082	2,086	2,093	2,096
Real estate	1,248	1,254	1,263	1,269	1,274	1,281	1,283	1,286	1,287	1,285	1,289	1,293	1,303
Services	23,842	23,926	24,025	24,083	24,214	24,279	24,295	24,406	24,493	24,612	24,683	24,884	24,967
Business services	5,020	5,044	5,083	5,086	5,105	5,133	5,152	5,194	5,195	5,217	5,228	5,296	5,310
Health services	6,773	6,800	6,822	6,853	6,887	6,923	6,943	6,987	7,023	7,063	7,085	7,131	7,157
Government	16,977	17,038	17,031	17,031	17,020	17,046	17,048	17,188	17,213	17,271	17,267	17,304	17,353
Federal	2,922	2,933	2,935	2,935	2,936	2,940	2,962	2,965	2,977	2,981	2,977	2,979	2,972
State	3,930	3,943	3,947	3,932	3,952	3,964	3,957	3,973	3,978	3,996	3,996	4,004	4,019
Local	10,125	10,162	10,149	10,164	10,132	10,142	10,129	10,250	10,258	10,294	10,294	10,321	10,362

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1986

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

**ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987												1988
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total	46,517	46,654	46,766	46,937	46,999	47,142	47,372	47,461	47,509	47,811	47,910	48,077	48,225
Total private	37,909	38,057	38,133	38,271	38,337	38,445	38,649	38,754	38,783	38,992	39,099	39,219	39,374
Goods-producing	6,838	6,843	6,846	6,863	6,869	6,876	6,923	6,915	6,936	6,976	7,010	7,024	7,036
Mining	97	97	96	97	97	98	98	98	99	99	98	99	98
Construction	522	524	526	530	533	534	536	536	537	540	543	544	545
Manufacturing	6,219	6,222	6,224	6,236	6,239	6,244	6,289	6,281	6,300	6,337	6,369	6,381	6,393
Durable goods	2,979	2,983	2,978	2,980	2,980	2,983	2,990	3,005	3,018	3,036	3,045	3,054	3,058
Lumber and wood products	115	117	117	117	118	118	119	118	119	120	120	121	122
Furniture and fixtures	156	156	157	157	159	160	163	162	163	165	165	166	166
Stone, clay, and glass products	114	113	113	114	114	114	113	114	113	114	115	116	116
Primary metal industries	99	100	100	100	99	100	100	102	103	103	104	104	104
Fabricated metal products	320	320	320	322	322	323	323	324	325	327	328	328	329
Machinery, except electrical	440	441	441	444	444	444	446	450	453	455	456	459	461
Electrical and electronic equipment	880	876	870	868	866	864	869	872	876	881	883	887	887
Transportation equipment	388	392	392	391	390	390	385	391	392	393	394	395	393
Instruments and related products	300	300	299	299	299	299	301	300	302	304	304	304	305
Miscellaneous manufacturing	167	168	169	168	169	171	171	172	172	174	176	174	175
Nondurable goods	3,240	3,239	3,246	3,256	3,259	3,261	3,299	3,276	3,282	3,301	3,324	3,327	3,335
Food and kindred products	514	514	517	518	515	515	521	513	513	518	521	520	529
Tobacco manufactures	19	19	19	18	19	18	17	17	17	17	18	19	19
Textile mill products	349	350	352	351	351	352	355	354	353	354	355	354	352
Apparel and other textile products	883	878	878	880	883	883	902	884	890	894	899	894	889
Paper and allied products	165	165	165	165	165	165	165	165	166	165	168	169	169
Printing and publishing	632	634	636	640	641	643	644	647	647	650	655	657	662
Chemicals and allied products	289	290	290	291	292	292	295	298	297	299	302	304	304
Petroleum and coal products	24	24	24	24	24	24	24	24	24	24	24	24	24
Rubber and misc. plastics products	278	278	278	281	280	280	282	283	284	288	291	294	295
Leather and leather products	87	87	87	88	89	89	94	91	91	92	91	92	92
Service-producing	39,679	39,811	39,920	40,074	40,130	40,266	40,449	40,546	40,573	40,835	40,900	41,053	41,189
Transportation and public utilities	1,507	1,510	1,517	1,520	1,524	1,531	1,531	1,539	1,544	1,554	1,555	1,555	1,554
Wholesale trade	1,682	1,691	1,695	1,695	1,693	1,703	1,712	1,721	1,718	1,724	1,733	1,742	1,752
Retail trade	9,547	9,607	9,603	9,636	9,629	9,642	9,679	9,712	9,720	9,762	9,780	9,790	9,896
Finance, insurance, and real estate	4,036	4,053	4,064	4,087	4,100	4,109	4,126	4,132	4,135	4,148	4,153	4,161	4,170
Services	14,299	14,353	14,408	14,470	14,522	14,584	14,678	14,735	14,730	14,828	14,868	14,947	14,966
Government	8,608	8,597	8,633	8,666	8,662	8,697	8,723	8,707	8,726	8,819	8,811	8,858	8,851
Federal	1,037	1,038	1,041	1,043	1,045	1,044	1,044	1,048	1,056	1,057	1,061	1,063	1,061
State	1,878	1,871	1,883	1,890	1,897	1,896	1,913	1,916	1,908	1,921	1,923	1,935	1,931
Local	5,693	5,688	5,709	5,733	5,720	5,757	5,766	5,743	5,762	5,841	5,827	5,860	5,859

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

**ESTABLISHMENT DATA
EMPLOYMENT
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^p	Mar. ^p
Total private	68,263	68,419	68,488	68,598	68,843	68,951	69,028	69,351	69,554	69,835	69,949	70,397	70,571
Goods-producing	17,380	17,375	17,360	17,377	17,441	17,476	17,498	17,620	17,698	17,787	17,700	17,864	17,936
Mining	511	518	525	528	534	539	545	551	548	545	536	539	543
Construction	3,944	3,918	3,889	3,891	3,887	3,899	3,881	3,940	3,953	4,001	3,914	4,048	4,121
Manufacturing	12,925	12,939	12,946	12,958	13,020	13,038	13,072	13,129	13,197	13,241	13,250	13,277	13,272
Durable goods	7,399	7,406	7,409	7,421	7,425	7,475	7,494	7,530	7,568	7,597	7,588	7,606	7,606
Lumber and wood products	615	617	618	615	619	615	618	618	627	630	628	629	624
Furniture and fixtures	402	403	407	408	416	415	416	420	422	425	426	425	425
Stone, clay, and glass products	453	453	452	451	449	450	451	453	456	459	454	455	455
Primary metal industries	553	559	557	561	565	569	578	582	586	586	583	586	586
Blast furnaces and basic steel products	199	205	205	207	209	211	214	217	219	218	218	220	219
Fabricated metal products	1,051	1,053	1,050	1,054	1,055	1,057	1,061	1,067	1,075	1,080	1,080	1,084	1,085
Machinery, except electrical	1,190	1,198	1,203	1,210	1,212	1,222	1,230	1,238	1,245	1,251	1,259	1,262	1,272
Electrical and electronic equipment	1,218	1,216	1,215	1,212	1,221	1,226	1,226	1,238	1,241	1,252	1,248	1,250	1,252
Transportation equipment	1,273	1,265	1,265	1,265	1,241	1,275	1,265	1,262	1,259	1,258	1,250	1,249	1,245
Motor vehicles and equipment	663	657	655	655	629	664	652	653	650	648	639	638	639
Instruments and related products	376	376	375	376	378	377	379	381	383	383	385	388	388
Miscellaneous manufacturing	268	266	267	269	269	269	270	271	274	273	275	278	274
Nondurable goods	5,526	5,533	5,537	5,537	5,595	5,563	5,578	5,599	5,629	5,644	5,662	5,671	5,666
Food and kindred products	1,154	1,158	1,153	1,150	1,159	1,146	1,144	1,150	1,159	1,160	1,174	1,175	1,169
Tobacco manufactures	44	43	44	42	43	42	41	40	41	42	43	42	41
Textile mill products	630	628	631	633	640	636	638	639	641	641	639	642	641
Apparel and other textile products	926	929	927	930	950	930	938	943	948	943	941	939	937
Paper and allied products	515	514	513	513	515	514	517	515	516	517	517	519	519
Printing and publishing	832	832	836	839	841	845	846	849	853	856	862	868	871
Chemicals and allied products	570	569	572	568	576	579	579	580	584	589	589	590	592
Petroleum and coal products	106	106	107	108	107	108	108	109	108	110	109	109	109
Rubber and misc. plastics products	626	629	629	629	633	636	639	647	652	658	660	659	659
Leather and leather products	123	125	125	125	131	127	128	127	127	128	128	128	128
Service-producing	50,883	51,044	51,128	51,221	51,402	51,475	51,530	51,731	51,856	52,048	52,249	52,533	52,635
Transportation and public utilities	4,419	4,428	4,429	4,439	4,449	4,465	4,497	4,514	4,532	4,533	4,548	4,563	4,582
Wholesale trade	4,617	4,622	4,623	4,632	4,641	4,642	4,644	4,653	4,673	4,690	4,709	4,724	4,745
Retail trade	16,132	16,189	16,193	16,195	16,246	16,242	16,257	16,346	16,360	16,384	16,519	16,602	16,577
Finance, insurance, and real estate	4,823	4,840	4,844	4,851	4,853	4,861	4,861	4,862	4,858	4,878	4,879	4,876	4,876
Services	20,892	20,965	21,039	21,104	21,213	21,265	21,271	21,356	21,433	21,563	21,594	21,768	21,855

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

^p = preliminary.

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

**ESTABLISHMENT DATA
INDEXES OF DIFFUSION
SEASONALLY ADJUSTED**

B-7. Indexes of diffusion: Percent of industries in which employment¹ increased, seasonally adjusted

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1986.....	53.2	48.1	48.1	53.5	52.4	46.8	52.4	56.2	55.1	53.2	59.7	59.7
	1987.....	53.5	56.8	58.6	58.4	58.6	55.7	68.6	54.6	65.4	65.4	71.9	63.2
	1988.....	60.0	^P 62.2	^P 55.7									
Over 3-month span	1986.....	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	60.3
	1987.....	58.6	59.5	61.1	61.6	61.4	67.3	66.2	75.1	69.7	77.8	75.9	70.5
	1988.....	^P 67.6	^P 64.1										
Over 6-month span	1986.....	47.6	47.6	43.0	43.2	45.4	48.4	47.3	53.0	59.2	58.9	57.8	58.9
	1987.....	61.9	62.7	58.9	67.3	67.6	71.1	76.2	78.6	80.3	75.7	^P 77.6	^P 74.3
	1988.....												
Over 12-month span	1986.....	43.2	44.1	46.2	45.7	47.8	49.5	49.5	51.6	54.9	52.2	55.1	56.5
	1987.....	62.2	63.5	67.3	68.9	73.8	72.4	76.2	^P 77.3	^P 77.3			
	1988.....												

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

^P = preliminary.

NOTE: Figures are the percent of industries with employment

rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1983 forward are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Alabama	1,467.9	1,507.1	1,510.8	11.3	11.5	11.5	69.3	70.9	71.9
Birmingham	381.3	394.9	395.6	5.8	5.6	5.7	21.9	23.4	23.6
Huntsville	118.7	124.0	124.4	.1	.1	.1	5.1	5.0	5.0
Mobile	157.7	160.4	161.3	.5	.4	.5	9.2	9.0	9.2
Montgomery	122.7	126.4	126.5	.1	.2	.2	7.7	7.8	7.8
Tuscaloosa	57.3	58.8	59.2	2.7	2.5	2.5	2.6	2.8	2.7
Alaska	199.3	196.5	198.2	7.9	8.3	8.6	8.7	7.6	7.4
Arizona	1,369.8	1,402.9	1,417.8	11.2	11.7	11.7	102.4	96.0	94.7
Phoenix	903.3	923.0	931.6	.6	.6	.6	70.4	64.2	63.3
Tucson	242.5	248.4	251.6	1.6	1.6	1.7	19.2	18.9	18.6
Arkansas	808.9	833.1	844.0	3.9	3.9	4.0	30.4	30.4	31.1
Fayetteville-Springdale	45.7	47.4	48.5	(¹)	(¹)	(¹)	1.7	1.6	1.7
Fort Smith	73.0	76.5	76.8	1.0	.9	.9	2.7	2.7	2.8
Little Rock-North Little Rock	223.6	229.3	231.3	.4	.4	.4	10.1	9.9	10.4
Pine Bluff	31.7	31.8	32.3	(¹)	(¹)	(¹)	1.5	1.2	1.3
California	11,417.1	11,819.9	11,875.0	39.7	40.3	40.6	537.2	587.3	586.6
Anaheim-Santa Ana	1,061.3	1,098.4	1,100.8	1.9	1.4	1.5	59.8	61.8	61.6
Bakersfield	154.4	159.2	159.1	12.5	13.3	13.3	8.9	8.8	8.9
Fresno	196.5	203.6	206.4	.6	.6	.7	11.5	11.6	11.5
Los Angeles-Long Beach	3,959.5	4,050.6	4,069.9	9.5	9.3	9.3	138.3	149.9	151.4
Modesto	98.8	105.9	106.1	(¹)	(¹)	(¹)	6.6	6.7	6.8
Oakland	797.8	816.9	819.5	3.1	3.2	3.2	43.7	47.5	47.1
Oxnard-Ventura	199.3	208.3	209.2	2.6	2.6	2.6	11.8	12.8	12.7
Riverside-San Bernardino	588.8	626.5	631.5	1.2	1.2	1.2	47.3	52.0	52.7
Sacramento	531.9	560.2	562.8	.7	.8	.8	30.0	32.3	32.7
Salinas-Seaside-Monterey	101.6	(²)	(²)	.4	(²)	(²)	4.2	(²)	(²)
San Diego	843.0	883.9	888.3	.8	.8	.8	52.2	56.1	57.0
San Francisco	918.1	937.0	936.7	1.0	.9	.9	33.0	33.8	33.8
San Jose	771.7	789.7	792.3	.2	.2	.2	29.8	31.2	31.1
Santa Barbara-Santa Maria-Lompoc	143.7	145.5	145.8	1.2	1.2	1.2	6.2	6.3	6.2
Santa Rosa-Petaluma	120.6	125.4	126.2	.7	.7	.7	7.2	7.8	7.8
Stockton	136.5	140.3	140.9	.1	.1	.1	7.5	7.6	7.7
Vallejo-Fairfield-Napa	119.6	125.9	126.4	.3	.3	.3	7.7	8.7	8.9
Colorado	1,395.9	1,392.6	1,393.0	21.5	20.8	20.9	66.2	59.1	58.2
Boulder-Longmont	103.2	104.1	105.5	.3	.3	.3	3.4	3.1	3.1
Denver	788.2	787.6	788.6	14.2	13.8	13.8	36.0	34.0	33.7
Connecticut	1,597.0	1,644.5	1,642.5	1.3	1.5	1.5	66.0	73.3	71.1
Bridgeport-Milford	189.2	197.6	197.5	(¹)	(¹)	(¹)	7.4	8.6	8.4
Hartford	461.6	481.9	479.6	.2	.2	.2	16.9	19.0	18.4
New Britain	64.2	(²)	(²)	(¹)	(²)	(²)	3.1	(²)	(²)
New Haven-Meriden	241.8	250.3	249.9	.2	.3	.2	11.3	12.4	12.2
Stamford	122.1	127.2	126.3	.6	.5	.5	4.8	5.3	5.1
Waterbury	84.2	86.6	86.5	(¹)	(¹)	(¹)	3.6	3.9	3.9
Delaware	304.4	321.0	323.0	.1	.1	.1	17.0	18.4	18.8
Wilmington	261.7	274.4	275.8	.2	.2	.2	13.7	15.4	15.5
District of Columbia	636.8	652.6	656.7	.1	.1	.1	14.7	15.4	15.8
Washington MSA	2,009.3	2,087.9	2,097.3	1.0	1.2	1.1	119.9	127.0	127.0
Florida	4,771.9	5,020.0	5,056.0	8.6	8.7	8.7	331.8	346.2	346.2
Daytona Beach	110.8	113.6	116.5	(¹)	(¹)	(¹)	7.9	8.6	8.5
Fort Lauderdale-Hollywood-Pompano Beach	462.2	480.5	484.5	.4	.4	.4	35.2	35.1	34.6
Fort Myers-Cape Coral	108.2	114.3	116.3	(¹)	(¹)	(¹)	12.0	12.8	12.8
Gainesville	91.5	(²)	(²)	(¹)	(²)	(²)	4.0	(²)	(²)
Jacksonville	384.6	405.3	406.4	.5	.4	.4	26.7	27.0	27.2
Lakeland-Winter Haven	139.6	(²)	(²)	3.7	(²)	(²)	8.3	(²)	(²)
Melbourne-Titusville-Palm Bay	139.1	147.1	147.2	(¹)	(¹)	(¹)	8.3	8.3	8.3
Miami-Hialeah	820.5	835.9	837.9	.9	.9	.9	40.6	40.9	40.8
Orlando	462.6	484.2	490.7	(¹)	(¹)	(¹)	32.4	33.8	34.1
Pensacola	120.4	124.0	124.3	.4	.3	.3	9.0	9.0	9.0
Sarasota	103.8	107.9	109.1	(¹)	(¹)	(¹)	10.6	10.7	10.7
Tallahassee	107.1	109.6	110.9	(¹)	(¹)	(¹)	5.5	5.9	5.9
Tampa-St. Petersburg-Clearwater	787.4	813.8	816.1	.7	.6	.6	57.6	59.4	59.3
West Palm Beach-Boca Raton-Delray Beach	324.8	345.7	348.3	(¹)	(¹)	(¹)	27.2	29.2	28.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Alabama	359.2	371.4	371.3	71.4	71.8	71.8	319.6	334.2	332.1
Birmingham	52.4	55.0	55.0	27.2	27.6	27.6	95.1	99.3	98.9
Huntsville	30.4	31.0	31.0	2.8	2.9	2.9	22.2	23.5	23.4
Mobile	26.1	26.1	26.0	9.1	9.2	9.3	42.2	43.2	43.3
Montgomery	18.5	19.4	19.4	4.8	5.0	5.0	27.6	28.6	28.4
Tuscaloosa	9.1	9.7	9.8	1.9	1.8	1.8	11.7	12.4	12.3
Alaska	9.6	10.9	11.4	16.4	16.6	16.6	38.4	38.7	38.3
Arizona	186.2	187.6	187.2	69.3	73.9	74.3	336.2	346.0	347.5
Phoenix	134.9	136.5	136.5	46.7	50.6	50.5	229.8	232.8	233.8
Tucson	30.7	30.9	30.6	9.3	9.7	9.8	54.4	57.2	57.4
Arkansas	212.2	222.5	223.4	48.9	51.2	51.4	180.8	188.5	190.1
Fayetteville-Springdale	10.8	11.9	12.0	4.0	4.4	4.5	10.5	10.8	10.9
Fort Smith	25.5	27.0	26.6	3.7	3.9	4.0	15.2	15.4	15.4
Little Rock-North Little Rock	31.0	32.6	32.8	16.0	16.6	16.8	54.0	55.4	55.1
Pine Bluff	6.0	6.4	6.4	2.5	2.4	2.4	6.8	6.7	6.7
California	2,068.9	2,110.1	2,122.2	574.0	574.1	573.8	2,871.3	2,830.8	2,819.1
Anaheim-Santa Ana	243.6	251.4	252.6	34.3	34.2	33.9	281.7	260.4	278.7
Bakersfield	10.4	11.1	10.8	7.8	7.8	7.8	36.8	38.2	37.8
Fresno	19.7	22.1	21.9	10.3	11.1	10.9	50.7	53.3	53.7
Los Angeles-Long Beach	900.9	908.2	914.3	204.1	208.3	208.1	892.7	923.8	917.9
Modesto	20.6	22.5	22.7	4.2	4.5	4.5	25.6	28.0	27.9
Oakland	101.8	104.5	104.7	56.1	55.6	55.6	196.3	204.9	203.3
Oxnard-Ventura	29.0	30.2	30.5	10.4	10.1	10.0	48.6	52.0	51.6
Riverside-San Bernardino	78.7	83.5	83.7	30.1	31.4	31.3	146.2	159.5	159.1
Sacramento	38.9	40.9	41.2	23.9	25.3	25.3	127.4	138.0	136.9
Salinas-Seaside-Monterey	8.8	(²)	(²)	4.8	(²)	(²)	26.5	(²)	(²)
San Diego	122.1	123.8	123.7	32.7	34.0	34.1	198.7	215.7	215.3
San Francisco	78.3	80.2	79.6	77.5	76.4	76.0	207.5	212.8	210.8
San Jose	258.5	260.9	261.0	21.0	21.7	21.6	148.2	154.7	154.3
Santa Barbara-Santa Maria-Lompoc	22.4	22.0	21.9	5.0	5.0	5.0	33.4	35.2	34.8
Santa Rosa-Petaluma	18.0	18.5	18.7	6.0	6.2	6.3	30.9	33.2	33.0
Stockton	21.5	21.6	21.7	7.6	8.1	8.2	31.3	33.6	33.1
Vallejo-Fairfield-Napa	11.0	11.5	11.6	4.5	4.5	4.4	28.1	30.6	30.2
Colorado	182.4	183.8	183.7	84.3	83.0	83.0	347.6	354.1	350.8
Boulder-Longmont	28.0	28.5	28.5	2.3	2.3	2.3	22.3	22.6	22.6
Denver	94.2	94.1	94.1	60.3	60.2	60.4	197.6	201.5	199.7
Connecticut	385.4	382.1	381.0	70.1	73.3	73.1	358.7	373.8	369.1
Bridgeport-Milford	57.2	58.0	58.0	8.5	9.3	9.3	43.8	46.0	45.5
Hartford	90.4	93.9	93.5	17.5	18.0	17.9	98.1	102.8	101.8
New Britain	21.2	(²)	(²)	3.0	(²)	(²)	13.0	(²)	(²)
New Haven-Meriden	46.2	46.5	46.3	17.6	18.1	18.1	55.4	57.5	56.8
Stamford	24.1	23.9	23.8	5.1	5.3	5.3	29.5	31.3	30.7
Waterbury	25.1	23.6	23.7	3.2	3.3	3.2	16.8	17.7	17.5
Delaware	69.2	66.9	68.1	12.9	14.0	13.9	65.4	71.5	70.7
Wilmington	59.6	56.1	57.4	14.0	15.0	15.2	54.5	59.2	58.4
District of Columbia	15.8	16.4	16.4	24.1	24.4	24.3	60.6	61.7	62.2
Washington MSA	85.5	87.1	87.4	97.8	102.3	102.0	402.8	419.4	419.3
Florida	525.6	543.0	543.3	250.4	258.8	259.3	1,295.2	1,373.0	1,379.5
Daytona Beach	11.5	12.1	12.1	3.3	3.5	3.5	32.7	33.8	34.6
Fort Lauderdale-Hollywood-Pompano Beach	44.9	46.1	46.2	21.4	23.0	22.9	139.5	144.6	145.7
Fort Myers-Cape Coral	5.4	5.6	5.7	4.7	5.1	5.2	32.8	34.3	35.0
Gainesville	5.4	(²)	(²)	1.7	(²)	(²)	20.6	(²)	(²)
Jacksonville	38.0	39.7	39.5	27.4	28.1	28.4	101.5	109.2	108.8
Lakeland-Winter Haven	22.8	(²)	(²)	6.0	(²)	(²)	38.6	(²)	(²)
Melbourne-Titusville-Palm Bay	27.5	28.8	28.9	5.6	6.0	6.0	32.4	34.7	34.7
Miami-Hialeah	93.7	96.6	97.1	69.0	68.2	68.0	217.5	224.5	224.3
Orlando	53.6	54.6	54.9	23.9	25.3	25.6	121.3	128.5	129.3
Pensacola	11.5	11.4	11.4	5.9	6.1	5.9	30.7	32.4	32.5
Sarasota	8.6	9.0	9.0	3.5	3.6	3.6	30.7	32.7	33.1
Tallahassee	4.6	4.5	4.6	3.0	3.1	3.1	22.5	23.0	23.1
Tampa-St. Petersburg-Clearwater	90.8	93.3	93.8	37.6	38.6	38.6	219.0	228.4	228.8
West Palm Beach-Boca Raton-DeLray Beach	36.3	37.2	36.9	11.8	12.1	12.2	87.9	95.3	96.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Alabama	69.7	69.5	69.6	266.8	276.1	278.3	300.6	301.7	304.3
Birmingham	29.0	29.0	29.1	90.2	93.4	93.9	59.7	61.6	61.8
Huntsville	3.4	3.6	3.6	26.0	28.2	28.4	28.7	29.7	30.0
Mobile	8.0	7.9	7.9	34.8	36.3	36.6	27.8	28.3	28.5
Montgomery	7.3	7.6	7.6	25.2	26.2	26.2	31.5	31.6	31.9
Tuscaloosa	2.0	2.1	2.1	8.0	8.3	8.4	19.3	19.2	19.6
Alaska	11.4	10.7	10.6	40.3	39.5	39.1	66.6	64.0	66.2
Arizona	92.3	94.8	94.5	335.9	354.3	358.4	236.3	238.6	249.5
Phoenix	73.1	75.2	74.9	226.5	238.3	241.3	121.0	124.8	130.7
Tucson	12.7	12.5	12.4	63.8	67.2	68.2	50.8	50.4	52.9
Arkansas	37.0	37.3	37.4	147.7	152.9	156.0	148.0	146.4	150.6
Fayetteville-Springdale	1.4	1.5	1.5	6.7	7.2	7.2	10.6	10.0	10.7
Fort Smith	2.7	2.6	2.7	14.8	16.4	16.4	7.4	7.6	8.0
Little Rock-North Little Rock	15.2	15.9	15.9	50.6	52.8	53.5	46.3	45.7	46.4
Pine Bluff	1.5	1.5	1.5	5.9	6.2	6.2	7.5	7.4	7.8
California	789.0	810.8	814.8	2,844.2	2,938.0	2,967.4	1,892.8	1,928.5	1,950.7
Anaheim-Santa Ana	89.9	90.5	90.2	253.7	263.4	264.3	116.4	115.3	118.0
Bakersfield	6.2	6.1	6.1	31.2	33.2	33.4	40.6	40.7	41.0
Fresno	13.5	12.9	13.0	45.6	47.3	47.7	44.6	44.7	47.0
Los Angeles-Long Beach	281.0	289.1	289.3	1,033.7	1,055.2	1,068.9	499.3	506.8	510.7
Modesto	4.4	4.6	4.4	20.3	21.7	21.9	17.1	17.9	17.9
Oakland	53.5	54.7	55.2	183.8	186.9	189.1	159.5	159.6	161.3
Oxnard-Ventura	10.3	10.3	10.8	46.1	49.8	50.0	40.5	40.5	41.0
Riverside-San Bernardino	25.7	26.6	26.7	139.5	148.0	149.3	120.1	124.3	127.5
Sacramento	32.3	33.8	33.8	112.9	121.9	123.3	165.8	167.2	168.8
Salinas-Seaside-Monterey	5.2	(²)	(²)	24.8	(²)	(²)	26.9	(²)	(²)
San Diego	59.5	61.4	61.6	220.6	233.0	234.6	156.4	159.3	161.2
San Francisco	112.6	113.2	113.2	274.4	284.6	286.6	133.8	135.3	135.6
San Jose	34.7	34.6	34.5	191.8	198.9	201.7	87.5	87.5	87.9
Santa Barbara-Santa Maria-Lompoc	8.5	8.6	8.7	39.4	39.9	40.0	27.6	27.3	28.0
Santa Rosa-Petaluma	8.2	8.4	8.4	27.0	28.3	28.2	22.6	22.3	23.1
Stockton	8.7	8.6	8.7	29.0	29.7	29.9	30.6	31.0	31.5
Vallejo-Fairfield-Napa	4.5	4.4	4.4	26.4	28.6	29.0	37.1	37.3	37.6
Colorado	98.8	98.1	97.4	331.5	330.7	330.8	263.6	263.0	268.2
Boulder-Longmont	4.1	4.1	4.1	21.1	21.7	21.8	21.7	21.5	22.8
Denver	66.4	66.0	65.7	194.2	193.1	194.3	125.3	124.9	126.9
Connecticut	146.4	150.7	150.2	369.5	387.4	389.8	201.6	202.4	206.7
Bridgeport-Milford	11.0	12.1	12.1	42.2	43.7	44.0	19.1	19.9	20.2
Hartford	75.5	78.9	78.4	103.3	107.6	107.8	59.7	61.5	61.6
New Britain	4.0	(²)	(²)	13.2	(²)	(²)	6.7	(²)	(²)
New Haven-Meriden	14.7	15.3	15.3	65.4	68.3	68.7	31.0	31.9	32.3
Stamford	12.7	13.3	13.3	34.7	36.9	36.9	10.6	10.7	10.7
Waterbury	4.2	4.4	4.5	19.1	20.8	20.8	12.2	12.9	12.9
Delaware	25.2	27.1	27.3	68.2	75.6	76.6	46.4	47.4	47.5
Wilmington	22.3	24.1	24.2	60.3	66.6	67.4	37.1	37.8	37.5
District of Columbia	36.7	37.4	37.5	223.3	233.2	236.6	261.5	264.0	263.8
Washington MSA	121.0	126.3	127.2	633.7	670.4	677.3	547.6	554.2	555.9
Florida	351.0	366.4	368.5	1,275.7	1,361.5	1,378.0	733.6	762.4	772.5
Daytona Beach	6.3	6.5	6.6	30.9	30.3	32.0	18.2	18.8	19.2
Fort Lauderdale-Hollywood-Pompano Beach	38.3	40.5	41.0	125.2	131.1	133.4	57.3	59.7	60.3
Fort Myers-Cape Coral	8.0	8.4	8.5	29.7	32.1	32.9	15.4	15.9	16.1
Gainesville	4.2	(²)	(²)	20.6	(²)	(²)	34.9	(²)	(²)
Jacksonville	36.9	38.3	38.5	96.4	103.8	104.5	57.2	58.8	59.1
Lakeland-Winter Haven	8.2	(²)	(²)	32.8	(²)	(²)	19.2	(²)	(²)
Melbourne-Titusville-Palm Bay	5.2	5.7	5.7	39.6	42.2	42.2	20.4	21.3	21.3
Miami-Hialeah	66.4	67.8	67.8	225.9	225.4	226.5	106.5	111.6	112.5
Orlando	31.9	34.1	34.3	145.4	151.9	155.7	54.0	55.9	56.6
Pensacola	5.5	5.6	5.6	28.9	30.5	30.5	28.5	28.7	29.1
Sarasota	8.3	8.7	8.7	30.0	30.8	31.5	12.1	12.3	12.4
Tallahassee	4.8	4.9	4.9	21.3	22.2	22.3	45.2	45.8	46.7
Tampa-St. Petersburg-Clearwater	64.4	66.0	66.3	216.5	223.4	223.7	100.8	104.1	105.0
West Palm Beach-Boca Raton-Delray Beach	27.8	29.4	29.5	94.7	101.5	103.1	39.0	40.9	41.2

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Georgia	2,708.2	2,764.6	2,778.3	8.3	8.4	8.4	145.5	144.7	146.2
Albany	48.6	(²)	(²)	(¹)	(²)	(²)	2.7	(²)	(²)
Athens	61.7	63.0	63.1	.2	.2	.2	2.3	2.2	2.2
Atlanta	1,341.1	1,369.0	1,374.8	1.4	1.4	1.4	71.0	68.0	69.5
Augusta	153.0	157.0	157.2	.5	.5	.5	8.9	9.5	9.5
Columbus	90.3	92.2	92.0	.1	.1	.1	4.8	5.1	5.1
Macon-Warner Robins	115.8	118.7	118.7	.1	.1	.1	4.7	4.7	4.7
Savannah	100.4	102.4	102.4	(¹)	(¹)	(¹)	7.5	6.9	6.7
Hawaii	451.6	463.3	466.2	(¹)	(¹)	(¹)	20.6	20.1	20.1
Honolulu	360.4	368.8	371.6	(¹)	(¹)	(¹)	16.4	15.7	15.7
Idaho	320.4	331.3	332.5	2.1	2.7	2.8	11.0	11.0	10.5
Boise City	83.9	86.8	87.0	(²)	(²)	(²)	3.8	4.0	3.7
Illinois	4,817.3	4,900.2	4,914.3	23.1	23.1	23.1	163.1	174.9	168.6
Aurora-Elgin	130.4	136.6	135.1	(¹)	(¹)	(¹)	5.1	6.0	5.8
Bloomington-Normal	55.8	56.0	55.4	(¹)	(¹)	(¹)	1.2	1.4	1.4
Champaign-Urbana-Rantoul	84.8	82.3	85.8	(¹)	(¹)	(¹)	2.2	2.2	2.2
Chicago	2,960.5	3,028.9	3,027.5	2.3	2.1	2.2	103.0	111.8	109.5
Davenport-Rock Island-Moline	154.0	154.9	154.5	(¹)	(¹)	(¹)	4.3	4.2	4.0
Decatur	49.7	49.7	49.9	(¹)	(¹)	(¹)	1.8	1.7	1.7
Joliet	95.0	96.8	96.6	(¹)	(¹)	(¹)	4.6	5.1	5.0
Kankakee	31.8	(²)	(²)	(¹)	(²)	(²)	1.0	(²)	(²)
Lake County	175.2	186.8	185.5	(¹)	(¹)	(¹)	6.6	8.0	7.8
Peoria	131.1	133.0	133.5	(¹)	(¹)	(¹)	4.4	4.2	4.2
Rockford	124.0	124.9	125.6	(¹)	(¹)	(¹)	3.3	4.0	3.9
Springfield	95.9	97.4	97.6	(¹)	(¹)	(¹)	2.3	2.9	2.8
Indiana	2,216.4	2,314.0	2,312.7	8.0	7.8	7.7	82.6	93.2	89.8
Anderson	47.4	47.8	47.5	(²)	(²)	(²)	1.2	1.3	1.2
Bloomington	50.0	51.1	52.2	(²)	(²)	(²)	1.6	1.8	1.7
Elkhart-Goshen	93.3	98.7	99.1	(²)	(²)	(²)	2.4	2.6	2.5
Evansville	121.3	125.0	124.8	2.1	2.1	2.1	6.5	6.7	6.4
Fort Wayne	177.9	188.3	187.9	(²)	(²)	(²)	7.8	9.3	8.9
Gary-Hammond	206.4	221.0	220.7	(²)	(²)	(²)	9.8	10.6	10.4
Indianapolis	577.0	606.8	605.7	.7	.7	.7	25.5	28.9	28.3
Kokomo	43.5	(²)	(²)	(²)	(²)	(²)	.9	(²)	(²)
Lafayette	62.8	64.2	64.9	(²)	(²)	(²)	1.8	2.5	2.4
Muncie	49.6	51.2	51.3	(²)	(²)	(²)	1.6	1.8	1.7
South Bend-Mishawaka	107.2	113.1	112.3	(²)	(²)	(²)	4.1	4.8	4.7
Terre Haute	51.8	53.0	53.1	.4	.3	.3	1.6	2.0	1.6
Iowa	1,071.9	1,108.3	1,117.4	1.6	1.9	1.8	26.8	27.6	26.7
Cedar Rapids	82.5	87.7	88.4	.1	.1	.1	2.6	2.7	2.8
Des Moines	197.3	210.4	210.7	(¹)	(¹)	(¹)	5.8	7.1	6.8
Dubuque	40.0	43.0	43.2	(¹)	(¹)	(¹)	.9	1.1	1.1
Iowa City	50.5	(²)	(²)	(¹)	(²)	(²)	1.0	(²)	(²)
Sioux City	45.5	51.2	50.9	(¹)	(¹)	(¹)	1.5	1.5	1.5
Waterloo-Cedar Falls	59.4	60.9	61.8	(¹)	(¹)	(¹)	1.3	1.3	1.3
Kansas	978.7	996.4	1,003.3	10.8	11.7	11.5	39.3	35.8	35.8
Lawrence	31.7	(²)	(²)	(¹)	(²)	(²)	1.2	(²)	(²)
Topeka	84.7	86.3	86.6	(¹)	(¹)	(¹)	3.2	3.2	2.9
Wichita	217.9	226.6	227.7	2.1	2.5	2.3	8.3	7.9	7.9
Kentucky	1,276.9	1,327.9	1,331.8	38.1	37.2	37.2	50.2	58.2	57.1
Lexington-Fayette	168.9	172.7	175.0	.7	.5	.5	8.6	9.0	8.8
Louisville	421.8	442.4	443.1	.6	.4	.4	18.9	23.7	22.6
Owensboro	32.1	33.7	33.4	.8	.7	.7	1.7	2.0	2.0
Louisiana	1,459.4	1,486.1	1,490.6	53.1	54.8	54.6	77.3	77.3	76.8
Alexandria	44.3	45.6	45.3	.2	.2	.2	2.2	2.2	2.2
Baton Rouge	208.1	212.0	212.7	.9	.8	.8	18.6	19.9	19.8
Houma-Thibodaux	50.5	51.9	52.1	5.6	5.7	5.8	1.5	1.5	1.5
Lafayette	80.7	81.5	82.6	10.2	10.5	10.5	3.0	3.0	2.9
Lake Charles	56.6	(²)	(²)	1.0	(²)	(²)	4.7	(²)	(²)
Monroe	54.3	52.2	53.2	.4	.3	.3	2.8	2.2	2.5
New Orleans	505.3	508.4	509.2	14.2	14.6	14.7	22.1	21.6	21.5
Shreveport	130.1	131.7	131.6	3.3	3.2	3.1	6.1	6.5	6.6
Maine	476.4	503.6	507.1	.1	.1	.1	25.2	28.9	28.4
Lewiston-Auburn	38.2	39.7	39.8	(¹)	(¹)	(¹)	1.8	2.1	2.0
Portland	116.6	122.5	122.8	(¹)	(¹)	(¹)	7.3	8.7	8.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Georgia	561.0	568.8	572.3	170.3	174.0	174.3	878.8	688.8	889.5
Albany	8.5	(^a)	(^a)	2.2	(^a)	(^a)	12.2	(^a)	(^a)
Athens	14.8	15.3	15.4	1.8	1.7	1.8	12.8	12.9	12.7
Atlanta	186.3	188.1	189.9	111.2	116.4	116.4	372.8	378.3	375.2
Augusta	35.1	36.4	36.3	5.1	5.2	5.2	32.8	33.4	33.4
Columbus	20.1	20.2	20.2	3.6	3.8	3.6	19.8	20.1	19.8
Macon-Warner Robins	18.1	18.3	18.1	5.0	4.8	4.8	25.7	26.8	28.8
Savannah	16.4	17.1	17.0	9.2	9.1	9.4	24.2	25.0	24.9
Hawaii	21.9	22.0	22.0	35.8	36.6	36.7	120.3	125.1	125.0
Honolulu	16.1	16.4	16.5	29.5	30.1	30.2	94.0	98.2	98.2
Idaho	52.1	54.4	53.8	17.2	17.7	17.6	80.7	84.2	83.5
Boise City	10.3	11.5	11.6	5.1	5.1	5.1	21.9	22.9	22.9
Illinois	928.8	938.1	938.0	289.2	298.9	301.2	1,193.1	1,230.6	1,228.6
Aurora-Elgin	35.5	36.8	36.5	3.1	2.9	2.9	36.5	38.4	37.6
Bloomington-Normal	4.9	5.3	4.2	2.7	2.6	2.6	12.7	12.8	12.8
Champaign-Urbana-Rantoul	7.8	7.8	7.8	2.4	2.3	2.3	18.9	19.2	19.2
Chicago	548.6	550.5	550.0	189.2	193.0	193.8	741.5	770.5	764.2
Davenport-Rock Island-Moline	32.6	33.0	32.6	8.2	8.2	8.2	42.1	42.3	42.3
Decatur	13.5	13.2	13.1	4.8	4.9	4.9	11.1	11.4	11.3
Joliet	19.2	19.5	19.5	8.2	8.3	8.3	22.7	23.0	22.9
Kankakee	4.9	(^a)	(^a)	1.3	(^a)	(^a)	8.1	(^a)	(^a)
Lake County	40.9	43.8	43.6	6.6	6.9	6.9	48.0	51.3	50.0
Peoria	30.7	32.7	33.1	6.6	6.8	6.7	32.8	33.9	32.8
Rockford	44.0	43.5	43.8	4.3	4.3	4.3	28.6	29.0	28.9
Springfield	4.2	3.9	3.9	4.7	4.9	4.9	21.6	22.0	22.0
Indiana	800.4	623.6	621.2	112.9	122.5	122.0	516.9	551.9	544.4
Anderson	17.5	16.5	16.3	1.3	1.5	1.5	10.6	11.2	11.1
Bloomington	8.3	9.1	9.0	1.6	1.7	1.7	10.9	11.4	11.5
Elkhart-Goshen	50.5	53.3	53.8	2.7	2.7	2.7	17.1	18.1	18.0
Evansville	30.4	30.3	30.3	6.3	6.6	6.6	31.4	33.4	33.1
Fort Wayne	49.3	51.1	51.1	11.6	12.0	12.0	43.8	47.3	46.8
Gary-Hammond	50.2	56.2	55.9	13.7	14.6	14.6	49.2	52.1	51.9
Indianapolis	108.2	105.9	105.2	34.5	36.9	36.9	146.7	158.8	156.7
Kokomo	19.2	(^a)	(^a)	1.3	(^a)	(^a)	9.0	(^a)	(^a)
Lafayette	11.5	12.0	12.0	1.9	1.9	2.0	12.5	13.0	12.8
Muncie	10.9	10.6	10.7	2.2	2.5	2.5	12.0	12.7	12.5
South Bend-Mishawaka	23.6	23.9	23.7	4.8	5.0	5.0	28.0	30.0	29.5
Terre Haute	10.4	9.9	10.0	2.5	2.8	2.8	13.5	14.5	14.3
Iowa	205.8	220.2	220.5	51.0	53.5	53.4	268.6	282.3	281.6
Cedar Rapids	21.6	23.3	23.3	5.4	6.2	6.2	19.9	21.4	21.3
Des Moines	23.0	25.5	25.6	11.7	12.4	12.5	51.2	55.3	55.0
Dubuque	12.0	12.9	12.9	1.5	1.6	1.6	9.0	9.8	9.6
Iowa City	3.9	(^a)	(^a)	1.0	(^a)	(^a)	9.6	(^a)	(^a)
Sioux City	6.6	10.2	10.0	3.0	3.1	3.1	12.4	13.4	13.3
Waterloo-Cedar Falls	12.9	14.7	14.6	1.6	1.7	1.7	13.8	14.4	14.4
Kansas	173.4	177.6	178.3	60.7	60.5	60.4	243.3	254.2	253.5
Lawrence	4.4	(^a)	(^a)	1.3	(^a)	(^a)	6.8	(^a)	(^a)
Topeka	8.9	8.7	8.8	6.7	6.5	6.4	18.8	19.9	20.1
Wichita	57.3	59.9	59.9	10.5	10.7	10.7	51.4	52.4	52.6
Kentucky	254.7	267.0	266.7	67.0	67.6	67.7	301.5	323.4	320.0
Lexington-Fayette	27.7	29.3	29.6	7.6	7.9	7.8	39.7	42.3	41.7
Louisville	86.3	86.6	86.5	26.4	28.9	28.8	103.5	111.0	110.9
Owensboro	5.3	5.9	5.8	2.1	2.1	2.1	8.2	8.6	8.3
Louisiana	158.6	165.5	166.0	103.1	104.2	104.0	355.4	364.8	364.4
Alexandria	3.4	3.5	3.5	2.1	2.2	2.2	10.8	11.0	10.8
Baton Rouge	18.1	18.6	18.7	10.3	10.3	10.4	49.6	50.8	50.5
Houma-Thibodaux	3.6	4.1	4.1	5.4	5.6	5.7	12.8	13.4	13.3
Lafayette	5.7	5.9	5.9	5.7	5.6	5.6	22.4	22.3	22.5
Lake Charles	9.7	(^a)	(^a)	3.7	(^a)	(^a)	13.7	(^a)	(^a)
Monroe	7.3	7.2	7.2	2.8	2.6	2.6	14.3	14.0	14.1
New Orleans	41.2	42.9	43.2	42.9	43.5	43.4	133.5	133.9	133.3
Shreveport	18.1	17.0	17.1	8.5	8.1	8.1	31.3	32.7	32.3
Maine	102.8	106.1	106.0	19.7	20.2	20.2	112.9	125.8	125.4
Lewiston-Auburn	9.9	10.4	10.5	1.4	1.4	1.4	9.2	9.7	9.6
Portland	16.1	16.2	16.2	5.8	6.0	6.0	34.4	35.5	35.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Georgia	151.4	155.4	155.3	521.6	541.5	545.4	473.1	483.0	486.9
Albany	2.3	(²)	(²)	7.9	(²)	(²)	12.8	(²)	(²)
Athens	1.9	1.9	1.9	9.2	9.6	9.8	18.8	19.1	19.2
Atlanta	95.5	98.4	98.3	311.5	320.9	324.0	191.4	197.5	200.1
Augusta	5.8	6.0	6.0	31.5	32.5	32.5	33.4	33.5	33.8
Columbus	6.1	6.2	6.2	15.3	16.4	16.4	20.6	20.6	20.7
Macon-Warner Robins	7.1	7.7	7.6	21.1	22.7	22.7	33.8	33.5	33.8
Savannah	4.4	4.4	4.4	23.3	23.6	23.8	15.6	16.2	16.1
Hawaii	33.5	34.2	34.2	123.5	129.0	129.5	96.0	96.3	98.7
Honolulu	28.1	28.6	28.6	95.2	99.0	99.4	81.1	80.8	83.0
Idaho	19.0	18.8	18.9	65.7	69.2	69.4	72.6	73.3	76.0
Boise City	7.5	7.3	7.4	18.4	18.8	18.9	16.9	17.2	17.4
Illinois	351.6	360.0	360.2	1,138.2	1,154.4	1,163.7	730.2	720.2	730.9
Aurora-Elgin	6.4	6.5	6.4	28.8	30.6	30.4	14.9	15.3	15.4
Bloomington-Normal	9.3	9.5	9.5	11.6	11.7	11.7	13.4	12.7	13.2
Champaign-Urbana-Rantoul	3.3	3.3	3.3	15.5	15.9	16.0	34.7	31.6	35.0
Chicago	252.3	259.8	259.5	762.2	783.7	786.5	361.4	357.5	361.8
Davenport-Rock Island-Moline	8.0	8.1	8.1	31.2	31.7	31.7	27.6	27.4	27.6
Decatur	2.7	2.7	2.7	10.3	10.5	10.6	5.5	5.3	5.6
Joliet	3.7	3.8	3.7	19.8	19.9	19.9	16.6	16.9	17.0
Kankakee	1.5	(²)	(²)	8.3	(²)	(²)	6.7	(²)	(²)
Lake County	6.7	6.9	6.8	37.9	39.7	39.9	27.9	29.6	29.7
Peoria	6.9	7.0	7.0	33.1	33.5	33.5	16.6	15.9	16.2
Rockford	5.2	5.4	5.4	26.3	26.4	26.8	12.3	12.3	12.5
Springfield	7.9	7.9	7.9	23.4	23.8	23.8	31.7	31.9	32.2
Indiana	111.5	116.8	116.5	430.2	448.8	453.8	353.9	349.4	357.3
Anderson	1.5	1.6	1.6	9.5	9.9	9.9	5.8	5.8	5.9
Bloomington	1.7	1.7	1.8	7.6	8.0	8.1	18.3	17.4	18.4
Elkhart-Goshen	2.4	2.6	2.6	12.5	13.5	13.5	5.8	5.8	5.9
Evansville	4.9	5.3	5.2	27.6	28.9	29.0	12.1	11.8	12.0
Fort Wayne	11.8	11.9	11.9	36.0	38.7	39.0	17.7	17.9	18.1
Gary-Hammond	7.9	8.3	8.3	44.8	47.6	48.0	30.7	31.6	31.7
Indianapolis	43.7	46.7	46.7	129.2	138.0	138.6	90.4	91.0	92.5
Kokomo	1.4	(²)	(²)	6.1	(²)	(²)	5.6	(²)	(²)
Lafayette	2.9	3.1	3.1	10.8	11.2	11.2	21.3	20.4	21.4
Muncie	1.6	1.7	1.6	9.8	10.5	10.5	11.4	11.5	11.8
South Bend-Mishawaka	6.1	6.3	6.3	29.5	31.4	31.4	11.3	11.6	11.6
Terre Haute	1.9	2.0	2.1	10.7	10.9	11.1	10.8	10.7	10.9
Iowa	63.0	65.3	65.2	240.9	246.1	248.7	214.2	211.4	219.5
Cedar Rapids	4.7	4.8	4.8	17.9	18.9	19.3	10.3	10.3	10.6
Des Moines	25.7	28.3	28.2	50.0	52.2	52.6	29.8	29.4	29.8
Dubuque	1.4	1.4	1.4	11.7	12.6	12.8	3.5	3.7	3.7
Iowa City	1.4	(²)	(²)	7.4	(²)	(²)	26.1	(²)	(²)
Sioux City	2.6	2.6	2.6	13.1	14.0	14.0	6.3	6.4	6.4
Waterloo-Cedar Falls	3.0	2.8	2.8	14.2	14.1	14.3	12.6	11.9	12.7
Kansas	55.3	56.4	56.3	196.7	201.7	204.3	199.2	198.5	203.2
Lawrence	1.1	(²)	(²)	5.6	(²)	(²)	11.3	(²)	(²)
Topeka	6.0	6.3	6.4	20.0	20.9	20.8	21.0	20.7	21.1
Wichita	11.1	11.2	11.1	51.7	54.9	55.7	25.5	27.1	27.5
Kentucky	59.7	61.1	61.1	264.6	275.7	277.6	241.1	237.7	244.4
Lexington-Fayette	9.0	9.1	9.2	40.2	40.8	41.2	35.4	33.8	36.2
Louisville	28.0	28.9	28.9	98.5	102.0	103.2	59.6	60.9	61.8
Owensboro	1.4	1.5	1.5	7.4	7.8	7.8	5.2	5.1	5.2
Louisiana	83.8	84.7	84.6	312.2	323.8	326.7	315.9	311.0	313.5
Alexandria	2.6	2.6	2.6	10.7	11.2	11.1	12.5	12.7	12.7
Baton Rouge	13.2	13.4	13.4	41.9	43.4	43.7	55.5	54.8	55.4
Houma-Thibodaux	2.3	2.3	2.3	8.5	8.6	8.8	10.8	10.5	10.6
Lafayette	4.0	3.8	3.7	16.5	18.2	18.4	13.2	12.2	13.1
Lake Charles	2.7	(²)	(²)	10.8	(²)	(²)	10.3	(²)	(²)
Monroe	4.4	4.6	4.5	11.4	11.4	11.4	10.9	9.9	10.6
New Orleans	33.5	34.2	34.2	131.5	132.8	134.3	86.4	84.9	84.6
Shreveport	7.5	7.4	7.3	30.1	31.8	32.1	25.2	25.0	25.0
Maine	23.9	25.1	24.9	101.8	108.2	109.0	90.0	89.2	93.1
Lewiston-Auburn	2.2	2.2	2.2	9.8	10.0	10.1	3.9	3.9	4.0
Portland	11.5	12.3	12.2	26.1	29.1	28.9	15.4	14.7	15.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Maryland	1,952.6	2,007.1	2,011.3	1.7	1.8	1.7	135.1	146.1	143.3
Baltimore MSA	1,053.5	1,075.5	1,077.4	.3	.3	.3	65.2	69.0	68.7
Baltimore City	447.7	453.4	455.0	(¹)	(¹)	(¹)	17.3	18.0	17.7
Suburban Maryland-D.C.	692.7	712.1	715.8	.5	.6	.5	57.6	59.7	60.2
Massachusetts	2,976.7	3,025.8	3,038.0	1.4	1.7	1.6	115.1	132.4	129.4
Boston	1,682.6	1,712.0	1,720.2	.7	.9	.9	59.2	66.8	65.2
Brockton	70.4	71.8	72.2	(¹)	(¹)	(¹)	3.2	3.5	3.5
Fall River	53.7	55.3	54.8	(¹)	(¹)	(¹)	1.8	2.1	1.9
Fitchburg-Leominster	38.8	39.0	39.2	(¹)	(¹)	(¹)	2.0	2.2	2.2
Lawrence-Haverhill	158.5	161.7	162.2	(¹)	(¹)	(¹)	7.3	7.5	7.4
Lowell	103.4	104.8	105.2	.2	.1	.1	4.5	5.0	4.9
New Bedford	65.2	67.0	66.9	(¹)	(¹)	(¹)	2.5	2.9	2.8
Pittsfield	40.7	(²)	(²)	.1	(²)	(²)	1.7	(²)	(²)
Springfield	232.1	238.4	240.1	.1	.1	.1	8.0	9.0	8.8
Worcester	193.3	200.5	202.5	.1	.1	.1	7.8	8.9	8.6
Michigan	3,668.1	3,686.8	3,682.0	9.1	9.3	9.4	101.4	111.1	107.0
Ann Arbor	162.7	167.2	168.1	(¹)	(¹)	(¹)	4.0	5.0	4.8
Battle Creek	56.2	56.7	56.9	(¹)	(¹)	(¹)	1.4	1.6	1.6
Benton Harbor	61.9	63.0	63.2	(¹)	(¹)	(¹)	1.2	1.0	1.0
Detroit	1,836.8	1,840.2	1,831.3	.8	.7	.7	51.4	53.7	51.6
Flint	174.5	165.9	164.8	(¹)	(¹)	(¹)	3.8	3.9	3.7
Grand Rapids	306.1	313.4	313.5	(¹)	(¹)	(¹)	12.4	13.2	12.7
Jackson	50.3	(²)	(²)	(²)	(²)	(²)	.9	(²)	(²)
Kalamazoo	102.8	104.7	105.0	(¹)	(¹)	(¹)	2.8	2.7	2.6
Lansing-East Lansing	203.4	203.2	203.4	(¹)	(¹)	(¹)	4.7	4.3	4.4
Muskegon	54.9	55.7	55.5	(¹)	(¹)	(¹)	1.8	2.0	1.8
Saginaw-Bay City-Midland	148.0	152.4	152.4	(¹)	(¹)	(¹)	5.1	5.8	5.4
Minnesota	1,893.0	1,951.0	1,955.1	4.5	6.0	6.0	63.6	65.7	62.7
Duluth	85.6	87.1	87.2	2.9	4.3	4.3	3.6	2.6	2.6
Minneapolis-St. Paul	1,245.4	1,285.9	1,285.5	(¹)	(¹)	(¹)	43.8	46.7	44.5
Rochester	54.8	57.0	56.8	(²)	(²)	(²)	1.4	1.5	1.5
St. Cloud	66.9	70.7	71.9	(²)	(²)	(²)	2.8	3.5	3.5
Mississippi	844.1	875.2	877.4	5.5	6.3	6.4	30.6	32.7	32.6
Jackson	171.4	178.2	178.7	1.0	1.2	1.2	7.5	8.3	8.3
Missouri	2,132.3	2,164.4	2,173.1	5.3	5.0	4.9	89.9	92.1	89.6
Kansas City	725.2	726.5	727.1	.5	.5	.5	34.2	34.1	34.1
St. Joseph	35.3	(²)	(²)	(¹)	(²)	(²)	1.1	(²)	(²)
St. Louis	1,095.1	1,111.2	1,114.2	3.4	3.4	3.5	52.2	52.8	50.1
Springfield	104.7	108.9	110.1	.1	.1	.1	4.3	4.7	4.7
Montana	265.7	268.7	268.3	5.0	5.6	5.6	6.5	7.0	6.7
Nebraska	645.5	656.6	658.9	1.5	1.4	1.4	20.9	20.7	20.4
Lincoln	108.9	109.4	110.6	(¹)	(¹)	(¹)	3.6	3.6	3.5
Omaha	293.2	299.0	299.1	.2	.2	.2	10.6	10.6	10.4
Nevada	478.1	508.2	511.0	6.8	9.0	9.0	26.9	29.2	29.3
Las Vegas	272.6	291.7	292.9	.3	.3	.3	17.0	18.4	18.5
Reno	126.3	132.6	133.7	.8	.9	.9	6.4	6.6	6.7
New Hampshire	494.5	520.3	516.3	.5	.7	.6	31.7	35.4	34.2
Nashua	89.5	94.0	93.9	.1	.1	.1	4.5	5.2	5.1
Portsmouth-Dover-Rochester,NH-ME	102.7	108.7	108.3	.1	.1	.1	5.2	5.9	5.7
New Jersey	3,481.0	3,573.9	3,575.9	2.0	2.3	2.2	141.8	163.0	158.1
Atlantic City	146.7	151.8	151.0	(¹)	(¹)	(¹)	8.9	9.6	9.5
Bergen-Passaic	651.4	673.0	671.7	.1	.1	.1	27.3	30.1	29.4
Camden	409.3	428.0	425.6	.1	.1	.1	19.6	25.0	23.8
Jersey City	234.6	239.9	242.1	(¹)	(¹)	(¹)	6.0	7.0	7.0
Middlesex-Somerset-Hunterdon	499.5	519.7	519.7	.5	.6	.6	19.7	22.3	21.9
Monmouth-Ocean	303.4	317.3	315.5	(¹)	(¹)	(¹)	18.3	20.9	20.5
Newark	936.5	951.2	955.0	.7	.7	.7	33.3	37.6	36.4
Trenton	189.7	196.0	195.8	(¹)	(¹)	(¹)	4.2	4.9	4.5
Vineland-Millville-Bridgeton	53.3	(²)	(²)	.3	(²)	(²)	1.7	(²)	(²)

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Maryland	206.1	205.6	205.3	90.1	92.4	90.9	496.5	515.6	515.6
Baltimore MSA	130.8	131.5	131.2	51.3	53.1	52.2	258.5	265.5	264.8
Baltimore City	44.5	44.9	44.4	27.4	28.1	27.5	96.9	97.2	97.7
Suburban Maryland-D.C.	34.5	35.6	35.5	25.9	27.6	26.8	187.4	192.2	192.3
Massachusetts	602.2	587.1	584.8	125.8	128.6	129.0	698.7	711.5	707.2
Boston	282.6	276.3	275.3	74.4	75.0	75.2	378.7	385.6	381.5
Brockton	11.3	11.2	11.3	5.0	5.0	5.1	21.2	22.4	22.3
Fall River	17.3	16.9	16.7	1.8	1.8	1.8	13.4	14.8	14.6
Fitchburg-Leominster	12.0	11.5	11.6	1.5	1.7	1.7	9.7	9.7	9.8
Lawrence-Haverhill	51.5	50.9	50.5	6.7	6.6	6.7	35.1	36.5	36.2
Lowell	35.8	36.1	36.0	3.4	3.6	3.6	22.5	22.4	22.6
New Bedford	20.0	19.3	19.1	2.6	2.8	2.8	15.7	16.5	16.5
Pittsfield	12.3	(^a)	(^a)	1.0	(^a)	(^a)	9.1	(^a)	(^a)
Springfield	50.7	51.2	51.0	9.7	9.8	9.9	53.8	56.5	56.4
Worcester	45.7	46.4	46.2	8.2	8.4	8.5	46.5	47.9	48.2
Michigan	983.5	935.1	924.8	148.6	148.1	148.3	821.6	861.1	849.2
Ann Arbor	40.2	38.8	38.2	4.1	4.4	4.4	26.7	28.5	28.4
Battle Creek	14.8	15.2	15.1	1.8	1.8	1.8	11.0	11.6	11.4
Benton Harbor	21.3	21.5	21.4	2.2	2.3	2.3	12.0	12.8	12.7
Detroit	481.0	448.6	443.0	83.9	85.0	84.9	422.3	443.1	436.4
Flint	62.7	49.5	48.3	4.7	4.4	4.3	42.7	45.8	45.5
Grand Rapids	95.2	96.8	97.0	11.0	11.1	11.1	77.1	80.7	79.8
Jackson	12.9	(^a)	(^a)	4.2	(^a)	(^a)	11.2	(^a)	(^a)
Kalamazoo	29.8	30.0	29.6	3.1	3.4	3.3	22.1	23.2	22.9
Lansing-East Lansing	36.6	32.9	31.9	5.9	5.6	5.6	40.4	42.2	41.8
Muskegon	17.3	17.3	17.3	2.4	2.3	2.3	11.9	12.2	12.1
Saginaw-Bay City-Midland	44.0	42.1	42.0	6.8	6.6	6.8	34.6	36.7	36.4
Minnesota	364.2	376.6	377.6	98.4	100.6	100.4	467.9	484.2	480.4
Duluth	7.1	7.6	7.6	5.6	5.5	5.5	21.1	21.6	21.3
Minneapolis-St. Paul	248.8	256.7	257.2	68.6	70.9	71.0	304.3	318.8	315.1
Rochester	10.3	10.8	10.7	1.6	1.7	1.7	11.1	11.4	11.1
St. Cloud	11.4	12.3	12.4	3.3	3.4	3.4	20.5	21.8	22.0
Mississippi	222.9	232.2	233.2	40.8	42.3	42.3	178.2	185.9	185.0
Jackson	19.7	20.7	20.7	12.0	12.7	12.7	41.1	42.3	42.1
Missouri	415.2	416.9	419.5	139.4	140.9	141.4	516.7	533.7	531.2
Kansas City	115.3	111.5	111.6	55.4	54.8	54.5	186.1	190.2	187.5
St. Joseph	8.4	(^a)	(^a)	2.4	(^a)	(^a)	8.8	(^a)	(^a)
St. Louis	216.6	215.2	218.0	71.8	73.3	73.5	264.9	272.0	270.6
Springfield	19.4	21.0	21.0	6.7	6.9	7.0	29.6	30.6	30.7
Montana	19.9	20.6	20.3	19.3	19.1	19.1	69.0	70.9	70.3
Nebraska	84.2	90.3	90.4	41.9	42.3	42.1	166.1	169.1	168.6
Lincoln	13.0	13.5	13.6	5.8	5.8	5.7	25.0	25.3	25.4
Omaha	33.0	34.9	34.9	22.3	22.5	22.6	74.9	76.5	76.2
Nevada	22.2	23.9	24.0	27.0	27.7	27.7	96.3	103.0	103.2
Las Vegas	8.2	8.9	8.9	15.0	15.6	15.6	57.0	61.1	61.5
Reno	8.4	8.2	8.2	8.9	9.2	9.2	27.9	30.0	29.9
New Hampshire	117.2	121.3	121.3	16.7	17.3	17.3	123.7	131.1	128.5
Nashua	35.6	36.8	37.0	2.2	2.1	2.1	20.7	21.3	21.0
Portsmouth-Dover-Rochester, NH-ME	20.3	20.7	20.9	2.8	2.9	2.9	25.8	27.7	27.5
New Jersey	677.0	660.0	665.0	233.4	239.3	240.8	830.7	861.1	853.7
Atlantic City	8.2	8.4	8.3	6.2	6.0	6.0	28.4	30.1	29.6
Bergen-Passaic	160.1	159.3	160.2	28.6	28.6	28.2	186.3	195.0	193.1
Camden	72.4	70.9	70.9	18.2	18.6	18.5	110.4	117.9	116.4
Jersey City	48.3	46.7	47.7	30.2	29.5	29.8	57.4	60.8	60.8
Middlesex-Somerset-Hunterdon	113.5	114.5	114.6	42.0	44.2	44.0	120.4	126.8	125.8
Monmouth-Ocean	30.9	30.2	30.0	15.6	16.5	16.4	81.6	86.0	84.8
Newark	182.5	176.7	180.2	80.1	81.1	81.8	193.9	195.8	194.4
Trenton	31.2	31.3	31.0	6.4	6.7	6.7	30.1	32.2	31.7
Vineland-Millville-Bridgeton	14.9	(^a)	(^a)	2.0	(^a)	(^a)	10.5	(^a)	(^a)

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Maryland	120.9	125.7	126.0	511.3	534.7	537.7	391.0	385.2	390.7
Baltimore MSA	73.2	74.7	74.8	271.6	280.8	283.9	202.6	200.5	201.4
Baltimore City	43.2	43.7	44.0	135.1	137.4	139.4	83.2	84.1	84.2
Suburban Maryland-D.C.	39.8	41.7	41.7	198.2	208.2	209.2	148.8	146.4	149.5
Massachusetts	210.0	222.5	222.9	828.0	843.6	859.9	395.5	398.4	403.2
Boston	145.4	152.8	153.5	542.0	548.0	560.3	199.6	206.6	208.3
Brockton	3.1	3.1	3.1	14.6	14.9	15.2	12.0	11.7	11.7
Fall River	2.9	3.1	3.2	9.8	10.2	10.1	6.7	6.4	6.5
Fitchburg-Leominster	1.7	1.8	1.8	7.2	7.8	7.8	4.7	4.3	4.3
Lawrence-Haverhill	6.0	6.4	6.4	31.4	32.9	33.4	20.5	20.9	21.6
Lowell	4.1	4.2	4.2	19.6	19.7	19.9	13.3	13.7	13.9
New Bedford	2.4	2.5	2.5	12.2	12.8	12.9	9.8	10.2	10.3
Pittsfield	2.0	([?])	([?])	9.7	([?])	([?])	4.8	([?])	([?])
Springfield	15.7	16.4	16.4	56.0	57.1	58.8	38.1	38.3	38.7
Worcester	13.0	14.6	14.6	48.2	49.2	50.4	23.8	25.0	25.9
Michigan	174.6	182.8	183.2	805.1	814.2	819.0	624.3	625.0	641.2
Ann Arbor	4.4	4.6	4.7	31.1	34.1	34.5	52.2	51.6	53.0
Battle Creek	3.8	3.3	3.3	11.9	12.1	12.1	11.3	11.2	11.5
Benton Harbor	2.5	2.6	2.6	14.0	14.4	14.4	8.5	8.3	8.7
Detroit	103.1	107.3	107.1	453.1	458.3	459.9	241.4	243.5	247.7
Flint	5.8	5.8	5.8	30.3	30.9	31.1	24.4	25.5	26.0
Grand Rapids	13.7	13.9	13.9	65.1	65.9	66.8	31.3	31.3	31.7
Jackson	1.8	([?])	([?])	9.3	([?])	([?])	9.8	([?])	([?])
Kalamazoo	4.5	4.9	5.0	22.7	23.2	23.3	17.6	17.3	18.2
Lansing-East Lansing	11.0	11.9	12.0	36.2	37.1	37.7	68.2	68.9	69.9
Muskegon	1.4	1.3	1.3	11.2	11.4	11.5	9.0	9.1	9.2
Saginaw-Bay City-Midland	5.9	6.1	6.1	30.9	33.1	33.4	20.6	21.8	22.2
Minnesota	117.5	121.5	121.7	457.0	476.2	478.5	319.8	320.2	327.8
Duluth	3.0	3.1	3.1	19.8	20.2	20.4	22.4	22.1	22.4
Minneapolis-St. Paul	91.4	95.1	95.4	312.2	322.8	323.2	175.8	174.5	178.6
Rochester	1.5	1.6	1.6	22.8	24.0	24.0	6.1	6.1	6.2
St. Cloud	2.4	2.4	2.4	13.9	14.3	14.6	12.6	13.2	13.7
Mississippi	37.9	38.6	38.8	135.0	139.4	140.3	193.1	197.8	198.9
Jackson	14.0	14.3	14.3	37.0	39.1	39.4	39.1	39.6	40.0
Missouri	131.9	133.6	133.4	485.1	497.8	500.3	348.8	344.4	352.8
Kansas City	57.5	58.0	57.9	164.4	167.7	168.6	111.8	109.7	112.4
St. Joseph	1.9	([?])	([?])	6.8	([?])	([?])	5.9	([?])	([?])
St. Louis	72.6	73.4	73.2	273.4	282.5	284.3	140.2	138.6	141.0
Springfield	4.8	4.7	4.7	26.2	27.3	27.8	13.6	13.6	14.1
Montana	13.0	12.6	12.6	62.2	63.6	64.0	70.8	69.3	69.7
Nebraska	47.4	47.7	47.8	147.8	148.0	148.7	135.7	137.1	139.5
Lincoln	7.9	8.4	8.4	22.9	22.9	23.0	30.7	29.9	31.0
Omaha	28.7	28.6	28.8	78.9	80.1	80.1	44.6	45.6	45.9
Nevada	22.6	23.7	23.8	212.3	226.6	227.0	64.0	65.1	67.0
Las Vegas	13.5	14.7	14.7	129.6	139.3	139.2	32.0	33.4	34.2
Reno	6.9	6.7	6.7	50.6	54.7	55.1	16.4	16.3	17.0
New Hampshire	30.4	33.4	33.3	109.0	115.4	115.1	65.3	65.7	66.0
Nashua	3.6	4.1	4.1	16.3	17.3	17.4	6.5	7.1	7.1
Portsmouth-Dover-Rochester,NH-ME	6.2	6.5	6.5	18.0	19.6	19.6	24.3	25.3	25.1
New Jersey	219.3	231.6	231.7	835.0	871.2	874.5	541.8	545.4	549.9
Atlantic City	6.7	7.0	7.0	64.1	66.4	66.2	24.1	24.2	24.3
Bergen-Passaic	36.1	38.9	38.8	146.4	153.7	154.3	66.5	67.3	67.6
Camden	23.4	25.7	25.6	94.9	98.6	99.3	70.3	71.2	71.0
Jersey City	12.0	13.0	13.0	40.7	42.2	42.8	40.0	40.7	41.0
Middlesex-Somerset-Hunterdon	35.0	35.9	35.9	98.9	105.4	106.2	69.5	70.0	70.7
Monmouth-Ocean	17.2	18.2	18.2	79.8	84.2	84.2	59.9	61.1	61.2
Newark	75.1	78.6	78.8	237.2	247.0	247.6	133.7	133.7	135.1
Trenton	9.3	9.5	9.5	54.5	56.1	56.9	54.0	55.3	55.5
Vineland-Millville-Bridgeton	2.9	([?])	([?])	9.6	([?])	([?])	11.4	([?])	([?])

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
New Mexico	519.1	525.8	528.2	14.4	15.5	15.4	30.0	28.3	27.8
Albuquerque	226.9	230.8	231.4	.2	.2	.2	15.4	14.6	14.4
Las Cruces	40.3	40.7	40.9	.1	.1	.1	2.1	2.0	2.0
Santa Fe	52.1	53.8	54.1	.1	.1	.1	2.3	2.2	2.2
New York	7,875.1	8,024.2	8,055.6	5.0	5.3	5.1	281.1	309.7	302.8
Albany-Schenectady-Troy	392.6	404.6	407.0	.2	.2	.2	14.8	17.9	17.0
Binghamton	117.8	120.5	120.8	(¹)	(¹)	(¹)	4.1	4.7	4.3
Buffalo	421.9	432.4	434.4	.3	.3	.3	12.7	14.4	13.8
Elmira	36.3	39.2	39.4	(¹)	(¹)	(¹)	1.2	1.3	1.2
Glens Falls	43.8	(²)	(²)	(¹)	(²)	(²)	1.6	(²)	(²)
Nassau-Suffolk	1,098.1	1,127.9	1,127.8	.2	.2	.2	51.2	57.8	56.4
New York PMSA	4,044.3	4,100.9	4,110.6	1.2	1.3	1.3	138.3	148.6	147.7
New York City	3,534.2	3,581.3	3,588.9	.7	.7	.7	109.5	117.4	117.3
Niagara Falls	77.3	79.3	79.9	(¹)	(¹)	(¹)	2.3	3.0	2.8
Orange County	98.5	102.0	102.1	(¹)	(¹)	(¹)	4.4	5.5	5.3
Poughkeepsie	113.8	116.3	117.5	(²)	(²)	(²)	5.5	5.6	5.4
Rochester	459.6	463.2	466.1	.7	.7	.7	15.2	17.4	17.2
Rockland County	94.3	97.7	97.7	(²)	(²)	(²)	4.4	5.1	5.0
Syracuse	291.7	300.1	300.7	.1	.2	.2	11.9	14.6	13.8
Utica-Rome	116.9	120.7	121.1	.1	.1	.1	2.6	3.2	3.0
Westchester County	398.3	403.4	405.6	.3	.3	.3	23.3	24.7	24.0
North Carolina	2,783.5	2,882.6	2,902.2	4.8	4.8	4.8	147.4	152.4	159.7
Asheville	74.2	76.8	77.1	.1	.1	.1	3.6	4.0	4.0
Charlotte-Gastonia-Rock Hill	559.8	586.4	592.3	.4	.4	.4	31.8	35.4	36.5
Greensboro-Winston-Salem-High Point	455.6	465.5	468.4	.3	.3	.3	23.3	23.4	24.0
Raleigh-Durham	372.5	382.4	387.5	.3	.4	.4	20.3	20.3	21.1
North Dakota	244.0	248.7	249.0	3.6	4.3	4.1	7.3	7.6	7.3
Bismarck	35.7	36.2	36.2	.2	.2	.2	1.2	1.2	1.1
Fargo-Moorhead	68.8	71.3	71.7	(¹)	(¹)	(¹)	2.5	2.7	2.6
Grand Forks	29.2	29.2	29.7	(¹)	(¹)	(¹)	1.2	1.1	1.0
Ohio	4,457.9	4,565.8	4,570.2	21.1	20.1	19.8	143.9	163.5	158.8
Akron	259.6	262.8	265.1	.5	.6	.6	7.3	7.9	7.7
Canton	151.8	(²)	(²)	1.0	(²)	(²)	4.5	(²)	(²)
Cincinnati	654.0	679.6	679.2	.3	.5	.5	25.1	28.5	28.0
Cleveland	868.5	889.8	889.4	1.0	1.0	1.0	23.2	25.9	25.1
Columbus	641.9	662.3	663.6	.9	.9	.9	23.0	25.9	25.6
Dayton-Springfield	419.5	427.4	426.9	.4	.3	.3	13.6	15.3	14.8
Toledo	271.5	281.5	281.6	.2	.2	.1	8.7	10.4	10.1
Youngstown-Warren	184.3	187.3	187.8	.7	.6	.6	5.4	6.2	6.0
Oklahoma	1,095.9	1,077.8	1,086.2	45.4	44.4	43.2	32.6	28.8	30.2
Enid	21.6	21.7	21.8	1.0	.9	1.0	.6	.6	.6
Lawton	33.7	33.3	33.2	.2	.2	.2	1.2	1.0	1.1
Oklahoma City	398.5	392.9	396.5	11.6	11.0	10.9	11.4	11.2	11.8
Tulsa	287.3	284.5	285.7	15.0	15.3	15.0	10.1	8.9	8.8
Oregon	1,057.8	1,094.6	1,105.1	1.3	1.3	1.3	29.4	31.0	31.4
Eugene-Springfield	101.5	104.7	105.3	.1	.1	.1	2.5	2.8	2.8
Portland	539.2	557.5	562.2	.5	.5	.5	16.8	18.1	18.3
Salem	91.4	93.6	95.0	.1	.1	.1	2.7	2.8	2.9
Pennsylvania	4,774.5	4,906.5	4,905.9	30.5	29.4	29.0	186.6	201.6	197.3
Allentown-Bethlehem	265.0	266.9	269.5	.5	.5	.5	10.8	12.9	12.4
Altoona	48.7	50.3	50.4	(²)	(²)	(²)	2.2	2.3	2.2
Beaver County	50.7	50.2	50.2	(²)	(²)	(²)	4.7	3.6	3.6
Erie	107.1	110.1	110.0	.2	.2	.2	2.6	2.8	2.6
Harrisburg-Lebanon-Carlisle	283.7	293.7	294.1	.3	.3	.3	11.1	11.7	11.8
Johnstown	75.6	77.3	77.0	3.6	3.6	3.6	2.1	2.2	2.1
Lancaster	173.4	179.1	179.2	.3	.3	.3	9.2	10.2	10.2
Philadelphia PMSA	2,091.9	2,161.8	2,160.9	1.0	1.0	1.0	88.6	100.6	98.8
Philadelphia City	761.8	778.9	778.0	(²)	(²)	(²)	16.0	15.8	15.4
Pittsburgh	828.1	847.1	846.2	5.7	5.8	5.6	35.7	35.7	35.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
New Mexico	36.4	39.1	39.1	28.5	28.6	28.7	122.6	127.2	126.6
Albuquerque	19.7	20.2	20.3	12.1	12.4	12.4	57.2	60.3	60.0
Las Cruces	3.7	4.1	3.9	1.4	1.3	1.3	7.7	8.5	8.5
Santa Fe	1.6	1.7	1.7	1.1	1.2	1.2	9.8	10.7	10.5
New York	1,220.5	1,204.4	1,213.7	400.6	402.5	402.8	1,647.4	1,682.2	1,668.9
Albany-Schenectady-Troy	49.2	48.2	48.3	16.0	16.2	16.1	83.6	87.2	86.8
Binghamton	37.6	38.3	38.4	4.3	4.5	4.5	25.8	26.3	26.4
Buffalo	75.9	78.6	76.6	20.8	21.1	21.0	105.5	108.6	108.6
Elmira	7.1	8.5	8.7	1.4	1.4	1.4	10.1	10.5	10.4
Glens Falls	10.2	(²)	(²)	1.2	(²)	(²)	10.0	(²)	(²)
Nassau-Suffolk	179.4	175.7	175.9	47.5	48.7	48.9	292.5	302.8	298.5
New York PMSA	461.6	447.5	457.3	238.9	239.7	239.7	747.0	757.7	751.6
New York City	378.4	367.6	374.3	213.6	213.9	213.9	625.6	632.8	628.2
Niagara Falls	24.3	23.7	23.4	3.3	3.6	3.5	17.5	18.6	18.5
Orange County	14.6	14.4	14.6	6.0	5.9	6.0	25.9	27.6	27.4
Poughkeepsie	30.8	29.6	29.7	3.2	3.3	3.3	20.8	24.1	23.8
Rochester	131.6	132.5	132.1	14.3	14.5	14.5	95.6	100.4	99.6
Rockland County	14.9	14.6	14.7	4.0	4.1	4.1	22.1	23.7	23.4
Syracuse	53.0	52.1	51.9	17.7	17.8	17.8	67.8	71.9	71.1
Utica-Rome	23.9	24.4	24.2	4.2	4.5	4.5	25.1	26.5	26.2
Westchester County	66.4	63.3	66.4	20.7	21.1	21.0	95.1	96.8	95.6
North Carolina	840.2	863.8	864.5	136.1	142.9	143.6	618.7	650.0	648.7
Asheville	19.2	19.5	19.5	3.6	3.7	3.7	17.6	18.5	18.4
Charlotte-Gastonia-Rock Hill	150.9	155.5	156.2	46.8	48.5	48.6	132.8	142.2	142.7
Greensboro-Winston-Salem-High Point	152.3	152.9	153.4	26.3	27.5	27.7	99.8	104.9	104.6
Raleigh-Durham	57.4	58.1	58.1	17.2	16.7	16.6	79.3	82.7	82.7
North Dakota	15.3	15.8	16.0	15.9	15.9	15.9	64.7	66.8	66.2
Bismarck	1.8	1.9	1.9	2.6	2.7	2.7	9.4	9.7	9.6
Fargo-Moorhead	4.8	4.8	4.8	4.3	4.7	4.7	20.0	20.7	20.6
Grand Forks	1.6	1.6	1.8	1.6	1.5	1.5	7.9	8.2	8.1
Ohio	1,088.3	1,094.5	1,094.1	201.7	203.3	202.4	1,054.7	1,097.1	1,088.7
Akron	66.3	66.8	66.9	12.8	12.7	12.8	63.8	65.3	64.8
Canton	43.3	(²)	(²)	5.5	(²)	(²)	38.0	(²)	(²)
Cincinnati	145.7	145.1	144.3	34.1	35.8	35.1	163.3	171.0	169.7
Cleveland	199.6	202.0	202.0	40.4	39.7	39.6	209.1	215.4	214.0
Columbus	103.2	102.1	101.5	27.2	27.8	27.9	161.2	169.9	169.0
Dayton-Springfield	103.0	102.4	101.8	15.1	15.1	15.1	93.3	97.5	96.6
Toledo	61.8	62.2	61.9	13.0	13.4	13.4	66.1	70.5	69.8
Youngstown-Warren	49.3	49.1	49.2	7.5	7.5	7.5	46.0	48.5	48.2
Oklahoma	154.3	154.6	154.3	62.8	61.0	61.1	264.9	261.6	259.8
Enid	1.6	1.6	1.6	2.1	2.0	2.1	6.3	6.3	6.1
Lawton	3.3	3.3	3.3	1.5	1.2	1.2	8.5	8.3	8.3
Oklahoma City	47.1	47.1	46.6	19.8	19.0	18.9	99.4	98.3	97.9
Tulsa	47.1	47.1	47.4	23.1	23.5	23.6	69.0	69.5	69.1
Oregon	194.3	203.4	205.2	57.0	58.3	58.4	262.5	279.6	278.6
Eugene-Springfield	18.7	19.2	19.4	4.1	4.2	4.2	25.5	26.6	26.3
Portland	90.6	95.7	96.4	33.9	34.8	34.9	139.8	146.6	146.5
Salem	11.9	11.9	12.3	2.8	2.9	2.9	20.3	21.6	21.5
Pennsylvania	1,025.2	1,046.4	1,044.1	240.6	243.5	242.5	1,080.3	1,122.6	1,108.5
Allentown-Bethlehem	77.7	75.2	75.5	14.0	13.7	13.8	58.5	60.4	60.0
Altoona	11.0	11.2	11.1	4.5	4.6	4.6	12.2	12.8	12.8
Beaver County	9.6	9.6	9.6	5.1	5.1	5.1	10.9	10.8	10.7
Erie	33.9	34.8	34.8	4.0	3.7	3.8	22.6	23.1	22.8
Harrisburg-Lebanon-Carlisle	50.7	52.7	52.5	17.7	18.0	17.8	63.6	67.1	67.2
Johnstown	12.5	13.0	12.9	5.1	5.1	5.1	15.5	15.9	15.9
Lancaster	59.5	59.2	59.4	6.9	6.8	6.6	41.0	43.1	42.6
Philadelphia PMSA	371.3	376.0	374.1	96.3	97.2	97.3	482.4	503.5	500.5
Philadelphia City	96.0	95.3	94.7	43.6	44.3	44.6	144.5	149.2	148.4
Pittsburgh	120.6	124.9	124.6	44.1	43.0	42.9	207.2	212.0	210.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
New Mexico	26.5	27.1	27.1	120.5	121.6	122.7	140.2	138.4	140.8
Albuquerque	14.3	14.7	14.6	62.9	63.6	64.1	45.1	44.6	45.4
Las Cruces	1.5	1.6	1.6	6.2	6.6	6.7	17.6	16.5	16.8
Santa Fe	2.0	2.0	1.9	13.4	14.1	14.3	21.8	21.8	22.2
New York	773.3	797.4	795.7	2,145.7	2,209.4	2,232.6	1,401.5	1,413.4	1,434.0
Albany-Schenectady-Troy	21.7	22.9	22.9	97.5	101.6	103.1	109.5	110.3	112.5
Binghamton	3.9	4.0	4.0	20.9	21.9	21.9	21.2	20.8	21.3
Buffalo	25.5	26.8	26.9	107.8	110.7	112.3	73.3	73.9	74.8
Elmira	1.3	1.4	1.4	8.9	9.9	9.9	6.3	6.3	6.3
Glens Falls	1.9	(²)	(²)	9.5	(²)	(²)	9.1	(²)	(²)
Nassau-Suffolk	73.0	76.7	76.9	273.2	283.2	284.7	181.1	182.8	186.4
New York PMSA	570.5	584.5	582.1	1,229.2	1,258.4	1,264.9	657.5	663.2	666.0
New York City	538.3	550.8	548.3	1,091.6	1,116.6	1,122.5	576.5	581.6	583.6
Niagara Falls	1.8	1.9	1.9	15.6	15.8	16.4	12.5	12.6	13.1
Orange County	4.0	4.0	3.9	21.2	22.1	22.1	22.2	22.5	22.7
Poughkeepsie	4.4	4.6	4.6	24.8	24.5	25.7	24.3	24.6	25.0
Rochester	21.2	21.5	21.6	109.6	111.3	113.5	65.4	64.9	67.0
Rockland County	4.8	5.3	5.3	23.2	23.9	24.0	20.9	21.0	21.2
Syracuse	18.9	19.4	19.3	71.8	73.1	75.1	50.4	51.0	51.5
Ulica-Rome	6.5	6.8	6.7	25.2	26.5	26.6	29.3	28.8	29.6
Westchester County	26.7	27.7	27.7	109.5	112.6	113.0	56.5	57.0	57.5
North Carolina	121.6	129.4	129.1	468.3	489.9	496.8	446.6	449.4	455.1
Asheville	2.7	2.5	2.5	16.0	16.9	17.0	11.4	11.7	11.8
Charlotte-Gastonia-Rock Hill	35.3	36.7	36.5	99.6	105.5	107.7	62.2	62.1	63.6
Greensboro-Winston-Salem-High Point	22.2	23.1	23.2	78.9	80.2	81.5	52.5	53.2	53.7
Raleigh-Durham	22.1	23.3	23.2	90.1	95.2	96.5	85.8	85.7	88.8
North Dakota	12.4	12.2	12.2	59.3	61.3	61.5	65.5	64.8	65.8
Bismarck	1.6	1.6	1.6	10.4	10.6	10.6	8.5	8.3	8.5
Fargo-Moorhead	4.3	4.5	4.6	18.6	19.3	19.5	14.3	14.6	14.9
Grand Forks	1.1	1.1	1.1	6.5	6.8	6.8	9.3	8.9	9.4
Ohio	237.5	245.9	246.4	1,013.5	1,047.8	1,055.8	697.2	693.6	704.1
Akron	10.4	10.6	10.7	54.9	57.6	57.9	43.5	41.5	43.9
Canton	6.4	(²)	(²)	34.2	(²)	(²)	18.7	(²)	(²)
Cincinnati	39.0	41.1	41.1	158.6	169.9	171.2	87.9	87.9	89.3
Cleveland	53.3	55.2	55.2	225.7	233.8	235.2	116.2	116.8	117.3
Columbus	56.1	58.1	58.4	150.1	156.1	157.8	120.2	121.5	122.5
Dayton-Springfield	17.4	17.7	17.7	102.0	105.4	106.3	74.8	73.6	74.2
Toledo	11.1	11.2	11.2	67.8	71.1	71.6	42.8	42.5	43.5
Youngstown-Warren	8.0	8.2	8.1	42.6	43.3	43.7	24.7	24.0	24.7
Oklahoma	59.3	57.2	57.0	225.4	226.2	228.3	251.2	244.0	252.3
Enid	1.0	1.0	1.0	5.4	5.7	5.8	3.6	3.6	3.6
Lawton	1.6	1.5	1.5	5.6	5.8	5.7	11.8	12.0	11.9
Oklahoma City	24.7	23.9	23.9	86.7	88.7	89.6	97.8	93.7	96.9
Tulsa	17.2	16.9	16.9	69.1	67.9	68.5	36.7	35.4	36.4
Oregon	70.2	71.6	72.0	236.7	241.5	246.2	206.4	207.9	212.0
Eugene-Springfield	4.7	4.7	4.7	23.0	24.0	24.2	22.9	23.1	23.6
Portland	45.9	47.0	47.2	133.8	136.4	138.8	77.9	78.4	79.6
Salem	5.4	5.5	5.5	18.5	19.2	19.6	29.7	29.6	30.2
Pennsylvania	285.9	291.5	291.4	1,237.2	1,285.9	1,298.4	688.2	685.6	694.7
Allentown-Bethlehem	11.2	11.7	11.5	62.6	64.8	65.7	29.7	29.7	30.1
Altoona	1.4	1.6	1.6	10.3	10.7	10.9	7.1	7.1	7.2
Beaver County	1.7	1.8	1.8	10.8	11.3	11.3	7.9	8.0	8.1
Erie	5.2	5.3	5.3	24.9	26.6	26.8	13.7	13.6	13.7
Harrisburg-Lebanon-Carlisle	16.5	17.3	17.3	58.6	60.5	60.4	65.2	66.1	66.8
Johnstown	4.7	4.8	4.7	19.4	20.1	20.1	12.7	12.6	12.6
Lancaster	6.4	6.8	6.8	34.8	36.9	37.2	15.3	15.8	16.1
Philadelphia PMSA	160.1	162.7	162.2	593.9	617.6	623.9	298.3	303.2	303.1
Philadelphia City	72.5	73.8	73.2	249.0	255.7	258.8	140.2	144.8	142.9
Pittsburgh	53.1	53.0	52.9	257.6	269.8	270.1	104.1	102.9	105.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Pennsylvania—Continued									
Reading	144.2	148.7	148.6	(²)	(²)	(²)	5.5	6.3	6.2
Scranton-Wilkes-Barre	280.8	288.1	288.8	0.7	0.6	0.6	9.0	9.8	9.5
Sharon	38.7	(²)	(²)	.2	(²)	(²)	.8	(²)	(²)
State College	53.0	(²)	(²)	.2	(²)	(²)	1.8	(²)	(²)
Williamsport	47.5	51.2	51.5	(²)	(²)	(²)	1.6	1.7	1.6
York	164.5	171.2	172.7	.4	.4	.3	8.4	9.4	9.6
Rhode Island									
Pawtucket-Woonsocket-Attleboro	438.3	446.7	445.6	.1	.1	.1	15.9	17.8	17.0
Providence	128.7	130.5	130.2	.1	.1	.1	4.1	4.7	4.4
Providence	309.4	317.1	315.7	.1	.1	.1	11.7	13.2	12.8
South Carolina									
Charleston	1,352.0	1,394.2	1,406.5	1.6	1.6	1.6	84.3	83.7	84.0
Columbia	180.1	186.1	189.2	(¹)	(¹)	(¹)	12.8	13.4	13.7
Greenville-Spartanburg	220.2	227.1	229.2	(¹)	(¹)	(¹)	13.0	13.2	13.5
Greenville-Spartanburg	299.9	309.1	309.8	(¹)	(¹)	(¹)	19.9	21.1	21.0
South Dakota									
Rapid City	247.1	250.3	250.4	2.4	2.4	2.4	7.5	7.8	7.5
Sioux Falls	33.0	33.8	33.7	.2	.2	.2	1.9	1.8	1.7
Sioux Falls	62.8	63.4	63.5	(¹)	(¹)	(¹)	2.0	2.2	2.2
Tennessee									
Chattanooga	1,944.6	2,019.8	2,027.7	6.6	6.2	6.3	86.1	92.8	93.7
Johnson City-Kingsport-Bristol	185.3	188.7	190.6	.7	.7	.7	7.4	8.0	8.4
Knoxville	156.0	160.9	163.2	.3	.2	.2	5.4	6.3	6.7
Memphis	242.3	245.5	245.7	1.9	1.8	1.9	11.1	10.4	10.6
Nashville	407.9	427.6	430.0	.1	.1	.1	18.0	19.9	19.9
Nashville	467.0	461.1	461.0	.6	.6	.5	26.9	25.8	25.9
Texas									
Abilene	6,442.0	6,493.1	6,519.2	179.8	182.6	181.6	348.6	318.0	318.5
Amarillo	49.0	49.1	49.0	2.2	2.0	2.0	2.4	2.0	2.0
Austin	76.9	77.9	77.6	1.4	1.3	1.3	3.5	3.6	3.5
Beaumont-Port Arthur	355.5	349.9	351.2	.8	.8	.8	17.8	16.0	15.6
Brazoria	129.5	127.2	126.2	1.6	1.4	1.4	9.2	7.4	7.4
Brownsville-Harlingen	56.4	57.3	57.3	1.8	1.9	1.9	5.5	5.7	5.6
Bryan-College Station	64.6	66.2	66.2	.1	.1	.1	2.4	2.1	2.1
Corpus Christi	47.1	44.8	48.0	.6	.7	.6	1.9	2.0	2.0
Dallas	123.2	124.2	124.6	4.6	3.8	3.8	7.0	5.9	5.9
El Paso	1,319.0	1,325.1	1,325.5	19.4	18.1	18.1	65.5	54.3	54.6
Ft. Worth-Arlington	183.7	187.3	186.0	.2	.1	.1	9.8	9.4	9.5
Galveston-Texas City	507.9	513.0	512.5	3.6	3.5	3.5	25.8	20.3	20.4
Houston	70.8	69.5	70.7	.5	.5	.6	4.8	3.3	3.4
Killeen-Temple	1,363.7	1,383.9	1,385.6	62.6	62.9	62.9	85.7	79.0	79.7
Laredo	68.7	69.5	69.9	.1	.1	.1	3.7	3.4	3.4
Longview-Marshall	34.6	36.1	36.1	1.7	2.1	2.0	1.4	1.3	1.3
Lubbock	63.5	64.6	65.0	3.5	3.5	3.5	2.8	3.0	3.1
McAllen-Edinburg-Mission	90.3	90.8	91.5	.4	.4	.4	3.4	3.1	3.1
Midland	89.0	91.1	90.7	.8	.9	.9	4.1	3.9	3.8
Odessa	43.1	43.8	43.7	9.4	10.0	9.8	1.2	1.2	1.1
San Angelo	41.2	(²)	(²)	5.7	(²)	(²)	1.9	(²)	(²)
San Antonio	36.4	36.5	36.6	.5	.4	.4	1.7	1.5	1.5
Sherman-Denison	498.7	500.4	501.8	2.6	2.6	2.6	29.7	28.8	28.3
Texarkana	36.9	37.7	38.0	.1	.1	.1	1.6	1.5	1.6
Tyler	45.0	45.4	45.3	.1	.1	.1	1.8	2.0	2.1
Victoria	60.3	(²)	(²)	1.9	(²)	(²)	2.4	(²)	(²)
Waco	26.7	(²)	(²)	1.6	(²)	(²)	1.7	(²)	(²)
Wichita Falls	77.1	77.4	78.0	.1	.1	.1	3.4	3.4	3.4
Wichita Falls	49.2	50.0	50.1	1.8	1.9	1.9	1.5	1.7	1.7
Utah									
Provo-Orem	627.6	635.7	636.8	7.5	8.2	8.1	24.0	20.8	19.9
Salt Lake City-Ogden	72.5	78.3	78.6	(¹)	(¹)	(¹)	2.2	1.9	2.0
Salt Lake City-Ogden	438.4	446.0	447.6	2.3	2.7	2.8	17.5	16.0	15.5
Vermont									
Barre-Montpelier	238.6	250.1	250.4	.4	.4	.4	12.9	17.1	16.6
Burlington	32.6	34.4	34.4	.1	.1	.1	1.7	1.9	1.9
Burlington	71.8	75.2	76.3	(¹)	(¹)	(¹)	3.8	5.0	4.9

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Pennsylvania—Continued									
Reading	48.0	49.1	48.6	6.5	6.8	6.8	31.5	33.0	32.5
Scranton-Wilkes-Barre	71.1	70.9	70.7	14.8	15.4	15.3	63.7	67.1	66.6
Sharon	9.0	(²)	(²)	1.6	(²)	(²)	9.9	(²)	(²)
State College	7.4	(²)	(²)	1.3	(²)	(²)	10.0	(²)	(²)
Williamsport	15.1	16.7	16.5	1.8	1.8	1.8	10.8	11.8	11.8
York	57.4	60.2	60.8	6.9	7.4	7.4	39.1	40.6	40.8
Rhode Island									
Pawtucket-Woonsocket-Attleboro	53.0	52.7	53.0	3.3	3.5	3.4	30.8	31.8	31.4
Providence	73.2	71.6	71.8	11.4	12.1	12.0	67.7	70.2	69.1
South Carolina									
Charleston	19.1	19.6	19.5	9.3	9.8	9.8	43.2	46.8	46.8
Columbia	28.6	29.3	29.4	9.8	10.2	10.2	48.3	50.1	50.1
Greenville-Spartanburg	98.5	100.6	100.8	10.8	11.5	11.5	67.3	71.5	71.2
South Dakota									
Rapid City	3.1	3.1	3.1	1.7	1.8	1.8	9.2	9.6	9.5
Sioux Falls	8.1	8.5	8.2	4.5	4.5	4.6	17.1	17.2	17.2
Tennessee									
Chattanooga	45.5	45.6	46.2	8.6	8.3	8.3	41.9	43.9	44.1
Johnson City-Kingsport-Bristol	53.3	53.6	53.8	5.9	6.0	6.0	34.2	36.0	35.7
Knoxville	50.8	50.6	50.6	9.1	10.0	9.9	59.3	61.3	61.3
Memphis	51.0	51.6	52.2	37.7	39.6	39.8	112.2	119.3	119.3
Nashville	89.3	87.6	87.2	23.1	24.1	24.1	113.2	113.9	112.4
Texas									
Abilene	4.5	4.6	4.6	2.6	2.4	2.4	13.4	13.6	13.4
Amarillo	9.7	9.8	9.9	5.7	5.7	5.8	22.1	22.6	22.3
Austin	39.6	39.3	39.2	11.0	10.7	10.8	77.9	78.1	77.6
Beaumont-Port Arthur	24.5	25.1	23.8	10.1	9.6	9.6	31.1	31.0	31.0
Brazoria	15.4	15.6	15.5	2.4	2.3	2.3	10.8	11.0	11.0
Brownsville-Harlingen	9.6	10.2	10.1	2.8	3.0	3.1	17.2	17.3	17.0
Bryan-College Station	3.0	3.1	3.2	1.6	1.6	1.6	10.1	9.1	9.4
Corpus Christi	11.7	11.2	11.4	6.9	6.9	6.8	31.2	32.1	32.1
Dallas	219.8	221.7	222.1	86.1	89.5	90.0	345.0	346.3	345.2
El Paso	35.5	37.7	37.9	10.1	10.3	10.3	45.3	46.7	46.5
Ft. Worth-Arlington	112.5	116.5	116.9	28.3	30.5	30.6	134.3	135.4	134.4
Galveston-Texas City	8.7	8.4	8.8	5.7	4.8	4.8	13.5	13.9	14.1
Houston	142.5	148.6	149.1	97.2	97.5	97.3	345.7	351.8	349.7
Killeen-Temple	8.3	7.9	8.0	2.6	2.7	2.7	15.9	16.1	15.9
Laredo	1.7	1.7	1.7	4.2	4.6	4.7	10.0	10.3	10.3
Longview-Marshall	14.7	15.7	15.6	3.1	3.1	3.1	16.3	16.6	16.8
Lubbock	7.2	7.3	7.3	4.9	5.0	5.0	26.2	27.0	27.1
McAllen-Edinburg-Mission	12.4	12.6	11.9	2.9	2.7	2.7	27.0	26.9	26.9
Midland	2.9	2.8	2.8	2.1	2.1	2.2	9.9	10.3	10.1
Odessa	3.5	(²)	(²)	2.0	(²)	(²)	12.1	(²)	(²)
San Angelo	5.5	5.5	5.5	3.2	3.2	3.2	9.6	9.5	9.6
San Antonio	46.4	46.4	46.1	18.4	17.9	17.9	127.3	130.7	130.5
Sherman-Denison	10.9	11.0	11.2	2.1	2.0	2.0	8.1	8.3	8.2
Texarkana	7.3	7.3	7.3	1.9	1.7	1.7	10.6	10.6	10.6
Tyler	10.7	(²)	(²)	2.6	(²)	(²)	16.3	(²)	(²)
Victoria	2.8	(²)	(²)	1.5	(²)	(²)	7.7	(²)	(²)
Waco	14.6	14.8	15.0	3.3	3.3	3.3	18.9	18.9	19.0
Wichita Falls	8.3	8.2	8.1	2.6	2.6	2.6	11.8	12.2	12.2
Utah									
Provo-Orem	9.8	12.1	12.3	2.6	3.1	3.0	15.2	16.6	16.3
Salt Lake City-Ogden	60.5	61.3	61.3	28.5	29.0	29.2	110.1	112.0	111.8
Vermont									
Barre-Montpelier	4.5	4.5	4.5	.8	.9	.9	6.9	7.4	7.3
Burlington	16.2	16.7	16.7	2.8	2.9	2.9	16.6	17.3	17.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Pennsylvania—Continued									
Reading	7.4	7.6	7.6	28.4	29.6	30.1	16.9	16.3	16.8
Scranton-Wilkes-Barre	12.1	12.8	12.8	67.7	70.2	71.3	41.7	41.3	42.0
Sharon	1.3	(²)	(²)	10.7	(²)	(²)	5.2	(²)	(²)
State College	1.6	(²)	(²)	9.1	(²)	(²)	21.6	(²)	(²)
Williamsport	2.2	2.3	2.3	9.3	10.0	10.2	6.7	6.9	7.3
York	4.7	5.0	4.9	29.5	30.2	30.7	18.1	18.0	18.2
Rhode Island									
Pawtucket-Woonsocket-Attleboro	25.0	25.4	25.4	109.0	111.9	112.0	58.2	58.9	59.1
Providence	3.6	3.6	3.6	23.7	24.0	24.1	10.1	10.1	10.2
	21.0	21.4	21.4	80.4	83.6	83.6	43.9	44.9	44.9
South Carolina									
Charleston	63.4	63.9	64.0	228.7	240.0	243.2	261.8	255.2	261.7
Columbia	7.9	8.2	8.3	38.3	39.9	40.2	49.4	50.3	50.8
Greenville-Spartanburg	17.7	17.9	18.1	41.6	43.9	44.0	60.9	62.2	63.5
	11.7	12.0	12.0	49.7	53.6	54.0	41.8	38.5	39.0
South Dakota									
Rapid City	14.2	14.0	14.1	59.9	59.7	60.3	59.2	59.0	59.5
Sioux Falls	1.7	1.7	1.7	8.2	8.7	8.8	6.9	6.9	6.9
	6.1	6.0	6.0	17.5	17.6	17.9	7.4	7.2	7.2
Tennessee									
Chattanooga	99.0	101.2	101.6	388.4	408.8	411.9	322.4	332.8	337.3
Johnson City-Kingsport-Bristol	11.7	11.7	11.7	36.3	36.7	37.0	33.2	33.8	34.2
Knoxville	5.2	5.4	5.3	27.5	29.6	31.1	24.1	23.8	24.4
Memphis	9.2	9.6	9.4	49.4	50.2	49.9	51.4	51.6	52.1
Nashville	23.7	25.0	25.0	94.4	98.7	99.2	70.8	73.1	74.5
	32.8	33.2	33.4	114.0	108.8	109.8	67.0	67.3	67.7
Texas									
Abilene	443.0	438.4	437.9	1,401.8	1,443.8	1,457.1	1,154.1	1,157.7	1,174.3
Amarillo	2.6	2.7	2.7	13.0	13.1	13.2	8.3	8.7	8.7
Austin	4.6	4.5	4.5	15.9	16.0	16.0	14.0	14.4	14.3
Beaumont-Port Arthur	25.2	24.7	24.7	84.1	83.1	83.5	99.1	97.2	99.0
Brazoria	5.1	5.3	5.2	27.7	27.3	27.4	20.2	20.1	20.4
Brownsville-Harlingen	2.0	2.0	2.0	7.4	7.9	7.9	11.1	10.9	11.1
Bryan-College Station	3.4	3.5	3.5	12.8	13.9	13.9	16.3	16.2	16.5
Corpus Christi	1.8	1.7	1.7	7.8	8.2	8.5	20.3	18.4	21.0
Dallas	6.7	7.0	7.0	27.7	29.3	29.4	27.4	28.0	28.2
El Paso	132.6	130.4	128.9	299.5	314.5	316.5	149.1	150.3	150.1
Ft. Worth-Arlington	9.4	9.4	9.5	33.7	34.7	35.0	39.9	39.1	39.3
Galveston-Texas City	27.7	27.4	27.2	109.6	111.7	111.6	66.1	67.7	67.9
Houston	4.2	4.1	4.1	12.5	13.7	14.0	20.9	20.8	20.9
Killeen-Temple	101.5	97.2	97.0	341.0	358.6	360.7	187.5	188.3	189.2
Laredo	3.0	2.9	3.1	14.6	15.0	15.3	20.5	21.4	21.4
Longview-Marshall	1.6	1.6	1.7	5.7	6.0	6.0	8.3	8.5	8.4
Lubbock	3.4	2.7	2.7	11.3	11.5	11.7	8.4	8.5	8.5
McAllen-Edinburg-Mission	5.3	5.2	5.3	21.1	21.5	21.6	21.8	21.3	21.7
Midland	3.8	3.8	3.8	13.8	14.9	14.9	24.2	25.4	25.8
Odessa	2.7	2.5	2.5	8.6	8.6	8.6	6.3	6.3	6.6
San Angelo	1.7	(²)	(²)	6.7	(²)	(²)	7.6	(²)	(²)
San Antonio	1.8	1.8	1.8	7.4	7.8	7.8	6.7	6.8	6.8
Sherman-Denison	39.4	39.8	39.9	119.6	119.0	120.8	115.3	115.2	115.7
Texarkana	1.6	1.8	1.8	7.3	8.7	8.8	5.2	4.3	4.3
Tyler	1.8	1.9	1.9	8.9	9.4	9.3	12.6	12.4	12.3
Victoria	3.7	(²)	(²)	13.6	(²)	(²)	9.1	(²)	(²)
Waco	1.5	(²)	(²)	5.5	(²)	(²)	4.4	(²)	(²)
Wichita Falls	4.7	4.7	4.6	19.7	19.9	20.1	12.4	12.3	12.5
	2.3	2.3	2.3	11.4	11.5	11.6	9.5	9.6	9.7
Utah									
Provo-Orem	33.6	33.4	33.5	142.7	150.8	152.2	144.4	142.3	143.5
Salt Lake City-Ogden	2.3	2.4	2.4	27.0	28.7	28.9	13.5	13.5	13.7
	27.4	27.6	27.7	96.7	102.7	103.4	95.5	94.7	95.9
Vermont									
Barre-Montpelier	11.7	12.0	12.0	61.3	64.2	63.7	39.8	39.0	40.6
Burlington	3.0	3.0	3.0	7.4	8.2	8.3	8.2	8.4	8.4
	3.5	3.5	3.7	17.3	18.7	18.7	11.6	11.1	11.9

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Virginia	2,588.0	2,706.2	2,707.2	15.6	15.7	15.6	166.5	175.3	174.6
Bristol	30.3	31.7	32.0	.1	.1	.1	.7	.9	.8
Charlottesville	62.9	66.8	67.2	.1	.1	.1	3.2	3.4	3.4
Danville	39.3	40.1	39.8	.1	.1	.1	1.4	1.6	1.5
Lynchburg	70.7	71.7	71.4	.1	.1	.1	3.0	3.2	3.2
Norfolk-Virginia Beach-Newport News	532.8	550.2	551.8	.1	.1	.1	37.4	37.3	37.0
Northern Virginia	679.8	723.2	724.5	.5	.5	.5	47.6	51.8	51.0
Richmond-Petersburg	425.8	442.0	443.0	.4	.5	.5	25.9	28.2	28.5
Roanoke	117.1	118.5	117.8	.1	.2	.2	6.6	6.9	6.9
Washington	1,773.3	1,848.9	1,857.1	2.7	3.0	3.1	77.5	82.8	83.0
Seattle	901.8	949.4	953.6	.5	.5	.6	43.1	47.2	48.1
West Virginia	580.4	591.6	591.5	36.3	34.9	34.6	18.9	18.9	18.6
Charleston	103.7	104.7	104.5	2.2	2.1	2.0	3.4	3.2	3.2
Huntington-Ashland	99.4	100.9	101.4	1.1	1.3	1.3	3.5	3.3	3.4
Parkersburg-Marietta	57.1	58.8	58.8	.6	.6	.6	2.2	2.3	2.2
Wheeling	55.6	57.7	57.7	2.2	2.2	2.2	1.5	1.6	1.6
Wisconsin	2,012.6	2,073.3	2,080.2	1.3	1.5	1.4	56.9	62.8	60.1
Appleton-Oshkosh-Neenah	138.0	143.6	144.5	(¹)	(¹)	(¹)	5.0	6.4	6.3
Eau Claire	53.3	54.3	56.3	(¹)	(¹)	(¹)	1.3	1.2	1.3
Green Bay	90.9	94.3	94.7	(¹)	(¹)	(¹)	3.0	2.7	2.8
Janesville-Beloit	53.1	54.8	54.7	(¹)	(¹)	(¹)	1.2	1.2	1.1
Kenosha	38.9	41.9	42.0	(¹)	(¹)	(¹)	1.2	.8	.6
La Crosse	49.8	51.5	51.8	(¹)	(¹)	(¹)	1.1	1.3	1.2
Madison	192.0	197.6	199.3	(¹)	(¹)	(¹)	5.6	7.3	7.2
Milwaukee	680.4	699.3	699.3	(¹)	(¹)	(¹)	19.6	20.5	19.8
Racine	68.4	70.2	70.1	(¹)	(¹)	(¹)	1.6	1.7	1.5
Sheboygan	45.0	(²)	(²)	(¹)	(²)	(²)	1.3	(²)	(²)
Wausau	43.5	45.5	45.7	(¹)	(¹)	(¹)	1.3	1.3	1.2
Wyoming	174.9	173.6	173.3	16.7	17.5	17.2	8.4	7.2	7.0
Puerto Rico	739.4	764.2	766.6	.8	.8	.8	31.7	35.1	35.8
Caguas	48.1	50.2	50.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	53.9	55.3	54.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	48.4	49.7	49.3	.1	.2	.2	2.5	3.1	3.3
San Juan	455.4	474.1	474.8	.5	.4	.5	24.0	26.3	26.7
Virgin Islands	39.3	39.6	40.6	(¹)	(¹)	(¹)	2.0	2.0	2.2

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Virginia	424.7	427.8	426.5	137.9	143.0	143.3	582.4	625.5	618.9
Bristol	10.2	10.5	10.7	1.1	1.1	1.1	7.5	8.1	8.1
Charlottesville	8.6	8.8	8.8	2.2	2.3	2.3	12.5	13.7	13.6
Danville	16.9	16.6	16.6	1.0	1.0	1.0	8.0	8.6	8.4
Lynchburg	24.0	23.3	23.3	2.8	2.8	2.8	14.0	14.5	14.5
Norfolk-Virginia Beach-Newport News	66.4	68.4	68.5	25.2	25.4	25.2	129.2	134.6	134.3
Northern Virginia	35.2	35.1	35.5	47.8	50.3	50.9	154.8	165.5	164.7
Richmond-Petersburg	62.5	62.4	62.5	22.3	23.2	23.2	102.8	108.1	106.8
Roanoke	20.0	19.5	19.4	8.9	8.7	8.6	31.5	32.2	31.7
Washington	304.2	321.2	321.9	94.7	99.0	99.0	431.0	452.3	448.7
Seattle	177.1	189.1	190.0	57.0	59.1	58.9	219.2	232.4	230.5
West Virginia	84.3	85.6	85.1	35.6	36.5	36.2	133.0	140.4	139.3
Charleston	11.6	10.9	10.9	8.3	8.6	8.5	27.1	27.9	27.6
Huntington-Ashland	18.9	19.1	19.2	7.7	7.7	7.6	25.4	26.4	26.1
Parkersburg-Marietta	13.5	13.9	13.8	2.0	2.1	2.1	14.0	14.4	14.1
Wheeling	6.3	7.1	7.1	3.1	3.2	3.2	15.1	16.0	15.7
Wisconsin	508.2	532.5	533.5	91.2	93.8	94.1	469.4	492.4	489.5
Appleton-Oshkosh-Neenah	48.3	50.5	50.6	5.1	5.1	5.2	29.7	30.5	30.4
Eau Claire	9.9	9.9	10.4	3.3	3.5	3.6	15.1	16.0	16.0
Green Bay	23.6	24.7	24.5	6.1	6.2	6.2	24.3	25.3	24.9
Janesville-Beloit	17.1	17.7	17.8	2.3	2.4	2.4	12.9	13.1	13.0
Kenosha	12.0	15.0	15.1	1.3	1.3	1.3	8.5	8.8	8.7
La Crosse	10.6	11.1	11.0	2.4	2.4	2.4	13.5	14.2	14.2
Madison	21.5	22.8	22.6	6.9	7.0	7.1	42.4	44.3	44.5
Milwaukee	167.2	172.1	172.7	34.1	34.9	34.9	153.8	161.4	159.6
Racine	24.4	24.7	24.8	2.2	2.2	2.2	15.9	16.9	16.6
Sheboygan	18.4	(²)	(²)	1.4	(²)	(²)	8.5	(²)	(²)
Wausau	11.7	12.7	12.7	2.6	2.8	2.8	10.5	11.1	11.1
Wyoming	7.6	8.1	7.8	12.9	12.6	12.4	38.9	39.0	38.7
Puerto Rico	149.0	152.6	153.7	16.9	15.4	15.2	130.5	140.1	137.6
Caguas	15.0	15.1	15.5	(¹)	(¹)	(¹)	8.9	9.7	9.4
Mayaguez	19.8	20.1	19.0	(¹)	(¹)	(¹)	7.4	7.9	8.0
Ponce	9.6	9.4	8.9	(¹)	(¹)	(¹)	7.6	7.9	7.7
San Juan	63.7	64.5	65.7	13.4	12.7	12.2	90.0	98.8	97.1
Virgin Islands	1.9	2.1	2.2	2.6	2.6	2.6	9.2	9.4	9.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Feb. 1987	Jan. 1988	Feb. 1988 ^p	Feb. 1987	Jan. 1988	Feb. 1988 ^p	Feb. 1987	Jan. 1988	Feb. 1988 ^p
Virginia	138.4	144.6	145.0	596.7	633.7	640.1	525.8	540.6	543.2
Bristol	1.1	1.2	1.3	4.5	4.8	4.9	5.1	5.0	5.0
Charlottesville	3.3	3.6	3.6	10.9	11.5	11.5	22.1	23.4	23.9
Danville	1.2	1.2	1.2	5.7	5.7	5.7	5.1	5.3	5.3
Lynchburg	3.6	3.9	3.8	14.1	14.2	14.0	9.3	9.7	9.7
Norfolk-Virginia Beach-Newport News	25.6	26.9	27.0	122.0	130.2	131.7	126.8	127.3	128.0
Northern Virginia	44.4	47.2	47.9	212.2	229.0	231.5	137.3	143.8	142.5
Richmond-Petersburg	35.1	36.0	36.0	87.2	92.8	93.7	89.6	90.8	91.8
Roanoke	7.9	8.2	8.3	26.8	27.3	27.5	15.2	15.5	15.2
Washington	105.3	106.3	106.5	401.8	426.9	432.1	356.1	357.4	362.8
Seattle	67.1	67.0	67.0	207.4	224.0	227.1	130.4	130.1	131.4
West Virginia	23.4	24.4	24.4	120.5	122.6	122.9	128.4	128.3	130.4
Charleston	5.8	6.1	6.0	24.3	25.1	25.2	21.0	20.8	21.1
Huntington-Ashland	3.9	3.8	3.8	19.5	21.1	21.1	19.4	18.2	18.9
Parkersburg-Marietta	2.2	2.3	2.3	13.0	13.4	13.8	9.6	9.8	9.9
Wheeling	2.6	2.6	2.7	15.6	15.5	15.7	9.2	9.5	9.5
Wisconsin	109.7	112.4	112.2	441.3	453.4	456.5	334.6	324.5	332.9
Appleton-Oshkosh-Neenah	7.0	7.1	7.1	26.2	27.1	27.6	16.6	16.6	17.0
Eau Claire	1.9	1.9	1.9	11.6	11.9	12.0	10.3	9.8	11.1
Green Bay	3.3	3.5	3.5	19.8	21.1	21.7	10.8	10.8	11.1
Janesville-Beloit	1.6	1.6	1.7	11.2	12.0	12.0	6.7	6.7	6.7
Kenosha	1.2	1.3	1.3	8.3	8.3	8.4	6.3	6.5	6.6
La Crosse	1.4	1.4	1.4	13.3	13.7	13.8	7.5	7.4	7.7
Madison	17.2	17.8	17.6	41.4	42.6	43.2	56.9	55.7	57.1
Milwaukee	47.6	49.0	48.9	175.3	180.2	181.0	82.6	81.0	82.2
Racine	2.2	2.3	2.3	13.9	14.2	14.2	8.3	8.2	8.5
Sheboygan	2.1	(¹)	(¹)	7.5	(¹)	(¹)	5.7	(¹)	(¹)
Wausau	3.3	3.4	3.4	7.8	8.1	8.2	6.2	6.0	6.3
Wyoming	7.6	7.2	7.2	30.6	30.9	30.9	51.8	51.1	52.0
Puerto Rico	34.2	35.9	35.9	108.6	111.5	113.5	267.7	272.8	274.1
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.2	15.7	15.4
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	18.1	18.5	18.4
Ponce	(¹)	(¹)	(¹)	9.3	9.3	9.3	16.3	16.8	16.8
San Juan	28.0	29.2	29.3	78.4	79.9	80.9	157.4	162.2	162.3
Virgin Islands	1.7	1.7	1.7	9.2	9.4	9.7	12.7	12.4	12.7

¹ Not available.

² Publication of data has been suspended because of budget cuts.

³ Combined with construction.

^p = preliminary.

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1987 benchmarks except Colorado. Data for Colorado have been adjusted to December 1986 benchmarks.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private ¹			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986	34.8	8.76	304.85	42.2	12.44	524.97	37.4	12.47	466.38
1987	34.8	8.98	312.50	42.3	12.45	526.64	37.7	12.66	477.28
Monthly data, not seasonally adjusted									
1987:									
March	34.6	\$8.92	\$308.63	41.8	\$12.51	\$522.92	37.4	\$12.59	\$470.87
April	34.6	8.91	308.29	41.8	12.43	519.57	37.4	12.55	469.37
May	34.8	8.93	310.76	42.4	12.42	526.61	38.5	12.60	485.10
June	35.0	8.92	312.20	42.4	12.44	527.46	38.1	12.61	480.44
July	35.1	8.91	312.74	42.1	12.31	518.25	38.6	12.57	485.20
August	35.3	8.94	315.58	42.4	12.32	522.37	38.6	12.67	489.06
September	34.7	9.06	314.38	42.1	12.43	523.30	36.4	12.77	464.83
October	34.9	9.09	317.24	42.7	12.34	526.92	38.8	12.79	496.25
November	34.8	9.14	318.07	42.3	12.47	527.48	37.1	12.80	474.88
December	34.9	9.13	318.64	42.8	12.50	535.00	37.6	12.78	480.53
1988:									
January	34.4	9.18	315.79	41.9	12.69	531.71	36.0	12.93	465.48
February ^p	34.5	9.18	316.71	41.5	12.62	523.73	36.2	12.76	461.91
March ^p	34.4	9.20	316.48	41.1	12.58	517.04	37.6	12.82	482.03

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages										
1964	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.4	9.35	359.04
1987	41.0	9.91	9.48	406.31	39.1	12.01	469.59	38.2	9.61	367.10
Monthly data, not seasonally adjusted										
1987:										
March	40.9	\$9.85	\$9.44	\$402.87	38.9	\$11.90	\$462.91	37.9	\$9.53	\$361.19
April	40.4	9.87	9.48	398.75	38.8	11.94	463.27	38.1	9.53	363.09
May	40.9	9.87	9.45	403.68	39.0	11.95	466.05	38.3	9.57	366.53
June	43.1	9.87	9.44	405.66	39.1	11.91	465.68	38.4	9.57	367.49
July	40.6	9.87	9.46	400.72	39.4	12.00	472.80	38.3	9.57	366.53
August	40.9	9.86	9.42	403.27	39.6	12.04	476.78	38.4	9.62	369.41
September	40.8	10.00	9.53	408.00	39.2	12.09	473.93	38.1	9.67	368.43
October	41.3	9.95	9.49	410.94	39.3	12.09	475.14	38.4	9.67	371.33
November	41.4	10.01	9.54	414.41	39.2	12.17	477.06	38.3	9.74	373.04
December	41.8	10.08	9.60	421.34	39.2	12.17	477.06	38.3	9.74	373.04
1988:										
January	41.0	10.07	9.63	412.87	38.9	12.11	471.08	38.0	9.79	372.02
February ^p	40.7	10.06	9.64	409.44	38.8	12.17	472.20	38.0	9.80	372.40
March ^p	40.9	10.08	9.65	412.27	38.6	12.16	469.38	37.8	9.82	371.20

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	128.00
1975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986	29.2	6.03	176.08	36.4	8.35	303.94	32.5	8.16	265.20
1987	29.3	6.12	179.32	36.2	8.76	317.11	32.5	8.47	275.28
Monthly data, not seasonally adjusted									
1987:									
March	28.9	\$6.08	\$175.71	36.3	\$8.72	\$316.54	32.4	\$8.41	\$272.48
April	29.2	6.09	177.83	36.3	8.71	316.17	32.3	8.40	271.32
May	29.3	6.09	178.44	36.3	8.72	316.54	32.4	8.38	271.51
June	29.6	6.08	179.97	36.4	8.68	315.95	32.6	8.35	272.21
July	30.0	6.07	182.10	36.2	8.69	314.58	32.8	8.33	273.22
August	30.3	6.06	183.62	36.4	8.81	320.68	32.9	8.40	276.36
September	29.6	6.20	183.52	36.0	8.79	316.44	32.4	8.55	277.02
October	29.2	6.16	179.87	36.2	8.81	318.92	32.5	8.61	279.83
November	29.0	6.19	179.51	36.3	8.94	324.52	32.5	8.71	283.08
December	29.3	6.19	181.37	36.0	8.87	319.32	32.4	8.73	282.85
1988:									
January	28.4	6.25	177.50	36.3	9.00	326.70	32.4	8.79	284.80
February ^p	28.5	6.24	177.84	36.4	9.07	330.15	32.6	8.79	286.55
March ^p	28.6	6.25	178.75	35.7	9.04	322.73	32.3	8.80	284.24

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

^p = preliminary.
NOTE: Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1986 forward are subject to revision.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Total private		34.5	34.6	34.4	34.5	34.4					
Mining		42.0	41.8	41.9	41.5	41.1					
Metal mining	10	41.9	41.8	42.9	42.8						
Iron ores	101	41.8	40.4	41.4	41.8						
Copper ores	102	42.4	42.6	44.7	43.7						
Coal mining	11,12	42.6	42.0	42.6	41.5						
Bituminous coal and lignite mining	12	42.7	42.1	42.6	41.6						
Oil and gas extraction	13	41.5	41.0	41.5	41.1						
Crude petroleum, natural gas, and natural gas liquids	131,2	40.3	39.9	43.0	40.8						
Oil and gas field services	138	42.3	41.8	40.7	41.3						
Nonmetallic minerals, except fuels	14	43.2	44.0	41.9	42.7						
Crushed and broken stone	142	43.9	45.2	42.1	42.4						
Construction		36.8	37.4	36.0	36.2	37.6					
General building contractors	15	36.8	37.4	35.8	36.2						
Residential building construction	152	35.8	36.6	35.0	35.6						
Operative builders	153	37.7	37.2	36.8	36.7						
Nonresidential building construction	154	37.7	38.1	36.7	36.9						
Heavy construction contractors	16	41.1	41.0	39.2	39.2						
Highway and street construction	161	40.7	40.2	38.1	37.8						
Heavy construction, except highway	162	41.3	41.4	39.7	39.9						
Special trade contractors	17	35.8	36.5	35.3	35.4						
Plumbing, heating, and air conditioning	171	37.3	37.8	37.4	36.9						
Painting, paper hanging, and decorating	172	34.9	35.5	34.0	34.2						
Electrical work	173	37.6	38.5	38.2	37.7						
Masonry, stonework, and plastering	174	33.6	34.4	32.9	33.5						
Carpentering and flooring	175	34.6	35.4	33.0	34.0						
Roofing and sheet metal work	176	31.9	32.1	29.8	31.0						
Manufacturing		40.8	40.9	41.0	40.7	40.9	3.5	3.6	3.8	3.6	3.6
Durable goods		41.5	41.6	41.6	41.3	41.6	3.6	3.7	3.9	3.7	3.8
Lumber and wood products	24	40.6	40.7	39.5	39.8	39.8	3.5	3.7	3.2	3.2	
Logging camps and logging contractors	241	40.9	40.2	38.7	40.2	-	3.9	4.0	3.7	4.4	
Sawmills and planing mills	242	42.0	41.8	41.2	41.4		4.4	4.5	4.2	4.1	
Sawmills and planing mills, general	2421	42.2	41.8	41.5	41.8		4.6	4.6	4.4	4.4	
Hardwood dimension and flooring	2426	41.3	41.8	40.3	40.0		3.8	4.2	3.5	3.0	
Millwork, plywood, and structural members	243	40.6	41.0	39.4	39.3		3.3	3.6	2.7	2.6	
Millwork	2431	39.9	41.4	38.7	38.9		2.1	3.1	1.8	1.9	
Wood kitchen cabinets	2434	39.8	40.0	38.4	37.1		3.2	3.1	2.2	1.7	
Hardwood veneer and plywood	2435	41.2	41.2	40.1	41.1		4.1	4.1	3.9	3.6	
Softwood veneer and plywood	2436	43.9	42.4	42.6	43.5		5.4	5.1	4.5	4.8	
Wood containers	244	38.2	38.6	37.1	38.3		2.4	2.7	2.6	3.0	
Wood buildings and mobile homes	245	36.6	37.9	36.1	35.6		1.8	2.2	1.4	1.2	
Mobile homes	2451	36.4	37.6	35.2	34.9		1.5	1.9	.9	.8	
Miscellaneous wood products	249	40.7	40.5	39.8	40.0		3.2	3.5	3.1	2.9	
Furniture and fixtures	25	39.5	39.8	39.0	38.8	38.8	2.5	2.6	2.7	2.4	
Household furniture	251	39.5	39.9	38.8	38.8	-	2.6	2.7	2.5	2.3	
Wood household furniture	2511	39.6	40.3	39.5	39.5		2.7	2.8	2.7	2.6	
Upholstered household furniture	2512	39.1	39.1	37.3	37.2		2.3	2.2	1.9	1.6	
Metal household furniture	2514	42.3	42.4	40.5	41.2		4.7	4.5	3.2	3.6	
Mattresses and bedsprings	2515	38.4	38.7	38.4	38.1		2.4	2.8	2.5	2.1	
Office furniture	252	39.5	40.2	40.5	39.9		2.1	2.3	3.0	2.1	
Public building and related furniture	253	39.7	39.3	40.3	39.4		3.0	2.3	4.5	3.2	
Partitions and fixtures	254	39.8	39.4	39.1	38.7		2.7	2.4	2.9	2.7	
Miscellaneous furniture and fixtures	259	38.3	40.0	37.3	36.9		1.6	2.6	1.9	1.5	
Stone, clay, and glass products	32	41.7	42.0	40.9	41.2	42.1	4.6	4.7	4.3	4.5	
Flat glass	321	45.9	45.5	45.4	46.2	-	6.6	6.2	7.4	8.0	
Glass and glassware, pressed or blown	322	41.5	41.6	41.2	41.3		4.4	4.5	4.3	4.4	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Total private		\$8.92	\$8.92	\$9.18	\$9.18	\$9.20	\$307.74	\$308.63	\$315.79	\$316.71	\$316.48
Mining		12.56	12.51	12.69	12.62	12.58	527.52	522.92	531.71	523.73	517.04
Metal mining	10	12.99	13.04	13.02	13.09		544.28	545.07	558.56	560.25	
Iron ores	101	14.86	15.25	14.33	14.40		621.15	616.10	593.26	601.92	
Copper ores	102	11.32	11.36	11.59	11.71		479.97	483.94	518.07	511.73	
Coal mining	11,12	15.73	15.59	16.01	15.94		670.10	654.78	682.03	661.51	
Bituminous coal and lignite mining ..	12	15.79	15.65	16.07	15.98		674.23	658.87	684.58	664.77	
Oil and gas extraction	13	11.49	11.49	11.63	11.56		476.84	471.09	482.65	475.12	
Crude petroleum, natural gas, and natural gas liquids ..	131,2	13.96	14.01	14.37	14.21		562.59	559.00	617.91	579.77	
Oil and gas field services	138	10.02	10.01	10.14	10.22		423.85	418.42	412.70	422.09	
Nonmetallic minerals, except fuels	14	10.46	10.48	10.80	10.83		451.87	461.12	452.52	462.44	
Crushed and broken stone ..	142	9.69	9.78	10.01	10.04		425.39	442.06	421.42	425.70	
Construction		12.51	12.59	12.93	12.76	12.82	460.37	470.87	465.48	461.91	482.03
General building contractors	15	11.50	11.57	12.11	12.01		423.20	432.72	433.54	434.76	
Residential building construction	152	10.86	10.91	11.49	11.46		388.79	399.31	402.15	407.98	
Operative builders	153	9.95	10.07	11.07	11.15		375.12	374.60	407.38	409.21	
Nonresidential building construction	154	12.23	12.34	12.83	12.64		461.07	470.15	470.86	466.42	
Heavy construction contractors	16	11.65	11.80	11.94	11.85		478.82	483.80	468.05	464.52	
Highway and street construction	161	10.99	11.23	11.83	11.74		447.29	451.45	450.72	443.77	
Heavy construction, except highway ..	162	11.95	12.07	11.99	11.89		493.54	499.70	476.00	474.41	
Special trade contractors	17	13.18	13.25	13.53	13.33		471.84	483.63	477.61	471.88	
Plumbing, heating, and air conditioning	171	13.35	13.46	13.65	13.45		497.96	508.79	510.51	496.31	
Painting, paper hanging, and decorating ..	172	12.48	12.42	12.77	12.77		435.55	440.91	434.18	436.73	
Electrical work	173	14.57	14.67	14.75	14.50		547.83	564.80	563.45	546.65	
Masonry, stonework, and plastering ..	174	13.21	13.31	13.48	13.33		443.86	457.86	443.49	446.56	
Carpentering and flooring	175	12.40	12.53	12.90	12.72		429.04	443.56	425.70	432.48	
Roofing and sheet metal work ..	176	11.37	11.38	12.14	11.85		362.70	365.30	361.77	367.35	
Manufacturing		9.84	9.85	10.07	10.06	10.08	401.47	402.87	412.87	409.44	412.27
Durable goods		10.39	10.39	10.62	10.61	10.63	431.19	432.22	441.79	438.19	442.21
Lumber and wood products	24	8.31	8.28	8.52	8.53	8.47	337.39	337.00	336.54	339.49	337.11
Logging camps and logging contractors ..	241	10.60	10.47	10.86	10.72	-	433.54	420.89	420.28	430.94	-
Sawmills and planing mills	242	8.46	8.40	8.68	8.65		355.32	351.12	357.62	358.11	
Sawmills and planing mills, general ..	2421	8.85	8.76	9.06	9.01		373.47	366.17	375.99	376.62	
Hardwood dimension and flooring	2426	6.64	6.68	6.96	6.96		274.23	279.22	280.49	278.40	
Millwork, plywood, and structural members	243	8.28	8.30	8.53	8.62		336.17	340.30	336.08	338.77	
Millwork	2431	8.51	8.66	8.83	8.97		339.55	358.52	341.72	348.93	
Wood kitchen cabinets	2434	7.82	7.56	7.70	7.76		303.28	302.40	295.68	287.90	
Hardwood veneer and plywood	2435	6.79	6.81	7.01	6.96		279.75	280.57	281.10	286.06	
Softwood veneer and plywood ..	2436	9.66	9.60	10.01	10.01		424.07	407.04	426.43	435.44	
Wood containers	244	6.02	6.02	6.22	6.27		229.96	232.37	230.76	240.14	
Wood buildings and mobile homes	245	7.72	7.89	7.84	7.93		282.55	299.03	283.02	282.31	
Mobile homes	2451	7.71	7.95	7.86	7.91		280.64	298.92	276.67	276.06	
Miscellaneous wood products ..	249	7.25	7.24	7.32	7.29		295.08	293.22	291.34	291.60	
Furniture and fixtures	25	7.58	7.58	7.82	7.76	7.80	299.41	301.68	304.98	301.09	302.64
Household furniture	251	7.01	7.03	7.20	7.18	-	276.90	280.50	279.36	278.58	-
Wood household furniture	2511	6.52	6.52	6.74	6.73		258.19	262.76	266.23	265.84	
Upholstered household furniture ..	2512	7.70	7.75	7.91	7.86		301.07	303.03	295.04	292.39	
Metal household furniture	2514	6.92	6.92	7.00	6.95		292.72	293.41	283.50	286.34	
Mattresses and bedsprings ..	2515	7.46	7.54	7.57	7.61		286.46	291.80	290.69	289.94	
Office furniture	252	8.59	8.55	9.11	8.89		339.31	343.71	368.96	354.71	
Public building and related furniture ..	253	7.99	7.94	8.21	8.10		317.20	312.04	330.86	319.14	
Partitions and fixtures	254	9.02	9.05	9.23	9.24		359.00	356.57	360.89	357.59	
Miscellaneous furniture and fixtures ..	259	8.02	7.96	8.27	8.26		307.17	318.40	308.47	304.79	
Stone, clay, and glass products	32	10.15	10.13	10.37	10.35	10.36	423.26	425.46	424.13	426.42	436.16
Flat glass	321	14.24	14.31	14.98	14.94	-	653.62	651.11	680.09	690.23	-
Glass and glassware, pressed or blown ..	322	11.16	11.13	11.67	11.48		463.14	463.01	480.80	474.12	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	42.1	42.0	40.6	40.8		5.3	5.5	5.0	5.0	
Pressed and blown glass, nec	3229	40.9	41.2	41.9	41.8		3.4	3.5	3.6	3.8	
Products of purchased glass	323	41.8	41.6	40.6	41.1		3.9	3.7	3.1	3.2	
Cement, hydraulic	324	41.8	41.7	42.2	43.3		4.0	3.5	3.8	4.5	
Structural clay products	325	41.8	42.4	41.6	41.8		3.9	4.2	4.2	4.3	
Pottery and related products	326	40.2	40.1	41.2	40.8		2.9	2.7	3.3	3.3	
Concrete, gypsum, and plaster products	327	42.0	42.6	39.5	40.2		5.3	5.8	4.5	4.8	
Concrete block and brick	3271	43.4	44.8	40.5	41.7		6.7	7.7	4.7	5.3	
Concrete products, nec	3272	42.4	42.7	41.8	41.7		5.1	5.3	5.4	5.0	
Ready-mixed concrete	3273	40.4	41.1	36.7	37.7		4.8	5.3	3.5	4.0	
Misc. nonmetallic mineral products	329	41.3	42.1	42.4	42.4		4.5	4.6	4.9	4.9	
Abrasive products	3291	40.7	41.5	42.6	42.5		3.0	3.4	4.1	3.7	
Asbestos products	3292	43.9	43.7	43.6	43.8		6.1	5.8	5.6	5.4	
Primary metal industries											
Blast furnaces and basic steel products	331	42.7	42.8	43.5	43.3	43.5	4.6	4.7	5.2	5.1	
Blast furnaces and steel mills	3312	42.5	42.6	43.8	44.2	44.0	4.5	4.5	5.4	5.8	
Steel pipe and tubes	3317	42.4	42.4	44.0	44.6		4.5	4.4	5.5	6.0	
Steel pipe and tubes	3317	42.9	43.2	43.3	42.7		4.3	4.8	5.9	5.4	
Iron and steel foundries	332	42.8	42.7	43.8	43.2		4.7	4.7	5.5	5.2	
Gray iron foundries	3321	42.7	42.7	43.5	43.1		5.2	5.2	5.8	5.5	
Malleable iron foundries	3322	41.7	41.2	42.4	42.0		2.8	3.6	4.3	3.8	
Steel foundries, nec	3325	41.7	41.8	44.1	43.5		3.7	3.9	5.2	5.0	
Primary nonferrous metals	333	43.0	43.4	43.8	43.6		4.2	4.3	4.8	4.7	
Primary aluminum	3334	43.8	44.3	44.2	43.9		4.3	4.4	4.4	4.3	
Nonferrous rolling and drawing	335	43.3	43.4	43.5	42.9		5.2	5.4	5.6	5.0	
Copper rolling and drawing	3351	43.3	43.5	43.8	43.8		5.6	5.9	6.0	5.8	
Aluminum sheet, plate, and foil	3353	44.4	43.9	45.5	45.3		7.1	6.8	7.8	7.2	
Nonferrous wire drawing and insulating	3357	43.1	43.2	43.2	42.4		4.8	4.8	5.1	4.5	
Nonferrous foundries	336	41.8	42.1	42.1	42.0		3.7	3.9	3.9	3.9	
Aluminum foundries	3361	42.2	42.3	42.7	42.6		4.0	4.1	4.2	4.1	
Fabricated metal products											
Metal cans and shipping containers	34	41.4	41.5	41.8	41.2	41.5	3.6	3.7	4.1	3.8	
Metal cans	341	43.1	43.5	43.8	43.0		5.3	5.2	5.5	5.3	
Metal cans	3411	42.9	43.5	44.0	43.2		5.2	5.2	5.6	5.4	
Cutlery, hand tools, and hardware	342	41.5	41.3	41.8	41.5		3.3	3.1	3.8	3.7	
Hand and edge tools, and hand saws and blades	3423.5	41.6	41.1	42.2	41.6		3.0	2.8	3.8	3.5	
Hardware, nec	3429	41.2	41.2	41.3	41.0		3.5	3.4	3.9	3.5	
Plumbing and heating, except electric	343	40.3	40.6	42.1	40.4		2.9	2.9	4.2	3.4	
Plumbing fittings and brass goods	3432	41.2	41.2	42.7	41.1		2.7	2.6	4.2	3.5	
Heating equipment, except electric	3433	38.9	39.4	41.4	39.5		2.2	2.2	3.9	3.1	
Fabricated structural metal products	344	40.2	40.8	40.4	39.7		2.8	3.2	3.2	3.0	
Fabricated structural metal	3441	41.1	41.8	41.2	40.6		3.0	3.7	3.5	3.6	
Metal doors, sash, and trim	3442	38.5	39.3	38.3	37.5		2.2	2.5	2.1	1.8	
Fabricated plate work (boiler shops)	3443	41.9	42.5	43.0	41.9		3.9	4.2	4.6	3.9	
Sheet metal work	3444	39.6	40.2	39.9	39.4		2.5	2.9	2.9	2.8	
Architectural metal work	3446	39.9	40.4	39.8	39.4		3.0	3.3	3.4	3.4	
Screw machine products, bolts, etc	345	42.9	43.3	43.7	43.0		4.9	5.3	5.8	5.3	
Screw machine products	3451	41.2	41.7	42.4	41.6		3.5	3.8	4.9	4.4	
Bolts, nuts, rivets, and washers	3452	44.7	45.0	45.2	44.4		6.4	6.8	6.8	6.3	
Metal forgings and stampings	346	43.1	42.8	42.7	42.1		5.1	4.8	4.9	4.7	
Iron and steel forgings	3462	42.0	42.4	42.8	42.1		3.8	3.7	4.5	4.2	
Automotive stampings	3465	45.1	44.2	43.7	42.7		6.4	5.9	5.6	5.3	
Metal stampings, nec	3469	41.1	41.1	41.6	41.6		3.9	3.8	4.3	4.3	
Metal services, nec	347	40.8	41.0	40.8	41.0		3.4	3.5	3.6	3.8	
Plating and polishing	3471	40.8	40.9	40.4	41.1		3.3	3.5	3.6	4.0	
Metal coating and allied services	3479	40.8	41.3	41.4	40.8		3.5	3.6	3.6	3.4	
Ordnance and accessories, nec	348	41.1	40.8	42.7	42.2		2.8	2.8	3.5	3.4	
Ammunition, except for small arms, nec	3483	40.1	39.5	41.3	41.0		2.3	2.2	2.6	2.6	
Misc. fabricated metal products	349	41.0	41.0	42.2	41.8		3.2	3.2	4.2	3.7	
Valves and pipe fittings	3494	41.0	41.0	43.4	42.9		3.0	3.1	4.6	4.1	
Misc. fabricated wire products	3496	40.9	40.7	41.4	40.4		3.1	3.0	3.7	3.1	
Machinery, except electrical											
Engines and turbines	35	42.1	42.2	42.8	42.5	42.6	3.8	3.9	4.4	4.3	
Engines and turbines	351	43.1	43.2	45.2	43.9	-	6.0	5.7	6.0	4.7	
Turbines and turbine generator sets	3511	40.2	39.3	42.5	42.8		3.7	3.3	2.8	3.3	
Internal combustion engines, nec	3519	44.1	44.5	46.0	44.3		6.8	6.6	7.0	5.1	
Farm and garden machinery	352	42.0	42.1	43.1	43.6		3.5	3.8	4.4	4.5	
Farm machinery and equipment	3523	42.2	42.2	42.6	43.1		3.8	4.0	4.4	4.6	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.60	\$11.55	\$11.89	\$11.84		\$488.36	\$485.10	\$482.73	\$483.07	
Pressed and blown glass, nec	3229	10.65	10.66	11.44	11.10		435.59	439.19	479.34	463.98	
Products of purchased glass	323	8.99	9.01	8.92	8.89		375.78	374.82	362.15	365.38	
Cement, hydraulic	324	13.51	13.28	13.38	13.49		564.72	553.78	564.64	584.12	
Structural clay products	325	8.37	8.44	8.84	8.81		349.87	357.86	367.74	368.26	
Pottery and related products	326	8.92	8.84	9.21	9.24		358.58	354.48	379.45	376.99	
Concrete, gypsum, and plaster products	327	9.79	9.82	9.97	9.97		411.18	418.33	393.82	400.79	
Concrete block and brick	3271	8.71	8.74	9.09	9.21		378.01	391.55	368.15	384.06	
Concrete products, nec	3272	8.66	8.68	9.02	8.96		367.18	370.64	377.04	373.63	
Ready-mixed concrete	3273	10.74	10.75	10.84	10.87		433.90	441.83	397.83	409.80	
Misc. nonmetallic mineral products	329	10.32	10.33	10.43	10.49		426.22	434.89	442.23	444.78	
Abrasive products	3291	9.61	9.70	9.95	9.90		391.13	402.55	423.87	420.75	
Asbestos products	3292	10.27	10.18	10.55	10.51		450.85	444.87	459.98	460.34	
Primary metal industries	33	11.78	11.82	12.10	12.08	\$12.12	503.01	505.90	526.35	523.06	\$527.22
Blast furnaces and basic steel products	331	13.59	13.66	13.92	13.98	13.99	577.58	581.92	609.70	617.92	615.56
Blast furnaces and steel mills	3312	14.33	14.40	14.63	14.70	-	607.59	610.56	643.72	655.62	-
Steel pipe and tubes	3317	10.94	10.97	11.24	11.18		469.33	473.90	486.69	477.39	
Iron and steel foundries	332	10.67	10.68	10.90	10.78		456.68	456.04	477.42	465.70	
Gray iron foundries	3321	11.07	11.10	11.40	11.26		472.69	473.97	495.90	485.31	
Malleable iron foundries	3322	11.66	11.79	11.83	11.52		486.22	485.75	501.59	483.84	
Steel foundries, nec	3325	10.09	10.07	10.19	10.12		420.75	420.93	449.38	440.22	
Primary nonferrous metals	333	12.83	12.79	13.00	12.91		551.69	555.09	569.40	562.88	
Primary aluminum	3334	13.24	13.19	13.28	13.09		579.91	584.32	586.98	574.65	
Nonferrous rolling and drawing	335	11.25	11.25	11.49	11.40		487.13	488.25	499.82	489.06	
Copper rolling and drawing	3351	10.47	10.49	10.74	10.70		453.35	456.32	470.41	468.66	
Aluminum sheet, plate, and foil	3353	13.76	13.71	13.92	13.76		610.94	601.87	633.36	623.33	
Nonferrous wire drawing and insulating	3357	11.14	11.17	11.42	11.38		480.13	482.54	493.34	482.51	
Nonferrous foundries	336	9.60	9.58	9.62	9.61		401.28	403.32	405.00	403.62	
Aluminum foundries	3361	9.88	9.91	9.85	9.83		416.94	419.19	420.60	418.76	
Fabricated metal products	34	9.99	9.99	10.17	10.17	10.19	413.59	414.59	425.11	419.00	422.89
Metal cans and shipping containers	341	13.11	13.02	13.41	13.39	-	565.04	566.37	587.36	575.77	-
Metal cans	3411	13.87	13.74	14.23	14.21		595.02	597.69	626.12	613.87	
Cutlery, hand tools, and hardware	342	9.92	9.90	10.07	10.04		411.68	408.87	420.93	416.66	
Hand and edge tools, and hand saws and blades	3423,5	9.12	9.02	9.23	9.25		379.39	370.72	389.51	384.80	
Hardware, nec	3429	10.33	10.36	10.55	10.44		425.60	426.83	435.72	428.04	
Plumbing and heating, except electric	343	9.20	9.15	9.26	9.25		370.76	371.49	389.85	373.70	
Plumbing fittings and brass goods	3432	8.69	8.62	8.99	8.89		358.03	355.14	383.87	365.38	
Heating equipment, except electric	3433	9.15	9.07	9.01	9.06		355.94	357.36	373.01	357.87	
Fabricated structural metal products	344	9.18	9.26	9.46	9.49		369.04	377.81	382.18	376.75	
Fabricated structural metal	3441	9.61	9.73	10.01	10.14		394.97	406.71	412.41	411.68	
Metal doors, sash, and trim	3442	7.74	7.75	7.98	8.10		297.99	304.58	305.63	303.75	
Fabricated plate work (boiler shops)	3443	10.22	10.27	10.40	10.30		428.22	436.48	447.20	431.57	
Sheet metal work	3444	9.40	9.53	9.71	9.69		372.24	383.11	387.43	381.79	
Architectural metal work	3446	8.59	8.71	8.77	8.69		342.74	351.88	349.05	342.39	
Screw machine products, bolts, etc	345	9.63	9.69	9.94	9.99		413.13	419.58	434.38	429.57	
Screw machine products	3451	8.95	8.99	9.22	9.26		368.74	374.88	390.93	385.22	
Bolts, nuts, rivets, and washers	3452	10.28	10.36	10.68	10.74		459.52	466.20	482.74	476.86	
Metal forgings and stampings	346	11.91	11.88	12.16	12.17		513.32	508.46	519.23	512.36	
Iron and steel forgings	3462	12.46	12.49	12.88	12.88		523.32	529.58	551.26	542.25	
Automotive stampings	3465	13.86	13.79	14.31	14.41		625.09	609.52	625.35	615.31	
Metal stampings, nec	3469	9.18	9.25	9.43	9.42		377.30	380.18	392.29	391.87	
Metal services, nec	347	7.92	7.95	8.10	8.13		323.14	325.95	330.48	333.33	
Plating and polishing	3471	7.86	7.92	8.20	8.22		320.69	323.93	331.28	337.84	
Metal coating and allied services	3479	8.03	8.01	7.91	7.96		327.62	330.81	327.47	324.77	
Ordnance and accessories, nec	348	10.92	10.87	11.15	11.22		448.81	443.50	476.11	473.48	
Ammunition, except for small arms, nec	3483	10.42	10.41	10.74	10.81		417.84	411.20	443.56	443.21	
Misc. fabricated metal products	349	9.29	9.27	9.51	9.45		380.89	380.07	401.32	395.01	
Valves and pipe fittings	3494	9.87	9.86	10.16	10.08		404.67	404.26	440.94	432.43	
Misc. fabricated wire products	3496	8.34	8.39	8.53	8.52		341.11	341.47	353.14	344.21	
Machinery, except electrical	35	10.68	10.72	10.92	10.88	10.91	449.63	452.38	467.38	462.40	464.77
Engines and turbines	351	13.32	13.42	13.67	13.35	-	574.09	579.74	617.88	586.07	-
Turbines and turbine generator sets	3511	12.65	12.62	13.83	13.60		508.53	495.97	587.78	582.08	
Internal combustion engines, nec	3519	13.54	13.67	13.63	13.28		597.11	608.32	626.98	588.30	
Farm and garden machinery	352	9.91	10.02	10.29	10.09		416.22	421.84	443.50	439.92	
Farm machinery and equipment	3523	10.86	10.94	11.14	10.94		458.29	461.67	474.56	471.51	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	41.8	42.0	43.5	43.5		3.0	3.4	4.5	4.3	
Construction machinery	3531	42.6	42.9	45.0	45.2		2.4	2.7	4.5	4.4	
Mining machinery	3532	41.8	41.5	43.4	43.7		3.7	3.6	4.7	5.1	
Oil field machinery	3533	41.5	41.7	42.8	42.7		4.2	4.9	5.3	4.8	
Conveyors and conveying equipment	3535	42.5	43.1	42.3	42.3		3.9	4.5	3.9	3.9	
Industrial trucks and tractors	3537	39.4	40.0	41.7	41.7		2.1	2.6	3.8	3.6	
Metalworking machinery	354	42.5	42.5	43.5	43.3		4.5	4.7	5.4	5.4	
Machine tools, metal cutting types	3541	42.3	42.3	42.6	42.4		3.8	3.7	4.5	4.4	
Machine tools, metal forming types	3542	41.8	41.2	44.4	44.9		4.3	4.4	6.4	6.7	
Special dies, tools, jigs, and fixtures	3544	43.4	43.5	44.0	44.0		5.6	5.8	6.1	6.2	
Machine tool accessories	3545	41.3	41.0	42.9	42.3		3.4	3.4	4.9	4.9	
Power driven hand tools	3546	40.6	41.2	42.4	41.7		2.5	2.8	3.4	3.1	
Special industry machinery	355	41.7	42.1	42.6	42.2		3.5	4.0	4.7	4.6	
Food products machinery	3551	41.6	41.9	42.5	42.5		3.3	3.3	4.3	4.3	
Textile machinery	3552	43.4	43.9	42.7	43.1		4.6	4.8	4.1	4.3	
Printing trades machinery	3555	39.8	40.6	41.3	39.9		3.1	4.3	5.7	5.0	
General industrial machinery	356	41.9	42.3	43.0	42.7		3.4	3.6	4.4	4.4	
Pumps and pumping equipment	3561	42.2	42.6	43.5	43.2		3.3	3.4	4.4	4.5	
Ball and roller bearings	3562	42.9	43.4	44.3	44.1		4.7	5.0	5.6	5.6	
Air and gas compressors	3563	42.2	42.9	43.0	42.2		2.8	3.1	4.2	4.5	
Blowers and fans	3564	39.8	40.9	40.7	40.4		2.1	2.0	2.6	2.6	
Speed changers, drives, and gears	3566	43.9	43.9	44.4	44.2		4.0	4.3	4.9	5.0	
Power transmission equipment, nec	3568	41.7	41.6	42.8	41.9		3.9	4.0	4.9	5.0	
Office and computing machines	357	42.7	42.7	41.9	41.3		3.3	3.5	3.4	3.1	
Electronic computing equipment	3573	42.6	42.7	41.7	41.4		3.2	3.6	3.1	2.9	
Refrigeration and service machinery	358	41.8	41.6	41.8	40.8		3.4	2.8	3.2	2.7	
Refrigeration and heating equipment	3585	42.0	41.7	42.4	41.1		3.5	2.6	3.6	3.0	
Misc. machinery, except electrical	359	41.5	41.7	42.0	41.8		3.9	3.9	4.4	4.4	
Carburetors, pistons, rings, and valves	3592	42.3	42.4	41.8	42.1		4.5	4.3	3.5	4.5	
Machinery, except electrical, nec	3599	41.4	41.5	42.0	41.8		3.8	3.8	4.5	4.4	
Electrical and electronic equipment	36	40.9	40.9	41.3	40.7	41.1	2.8	2.8	3.3	3.0	
Electric distributing equipment	361	40.4	40.3	42.1	41.9		2.4	2.4	3.6	3.4	
Transformers	3612	41.2	40.9	41.6	41.7		2.3	2.2	3.2	3.4	
Switchgear and switchboard apparatus	3613	39.7	39.8	42.6	42.1		2.5	2.5	3.9	3.5	
Electrical industrial apparatus	362	41.0	41.2	42.4	42.0		2.9	3.1	3.3	3.3	
Motors and generators	3621	41.4	41.3	41.7	41.1		3.4	3.5	3.6	3.4	
Industrial controls	3622	39.6	40.3	42.7	42.3		1.5	2.3	2.5	2.5	
Household appliances	363	40.3	40.3	40.7	39.7		2.7	2.6	2.9	2.4	
Household refrigerators and freezers	3632	40.3	41.6	40.0	40.8		2.6	2.6	2.4	2.7	
Household laundry equipment	3633	42.4	41.2	42.1	40.9		3.4	2.6	2.8	2.6	
Electric housewares and fans	3634	40.4	39.5	41.7	40.7		2.6	2.4	3.4	2.9	
Electric lighting and wiring equipment	364	40.5	40.4	41.2	40.1		2.8	2.8	3.6	2.9	
Electric lamps	3641	40.5	40.0	41.7	40.0		3.0	2.9	4.5	3.6	
Current-carrying wiring devices	3643	40.8	40.6	41.1	39.9		2.9	2.8	3.2	2.8	
Noncurrent-carrying wiring devices	3644	42.1	41.1	41.7	41.7		2.6	2.6	3.6	3.5	
Residential lighting fixtures	3645	38.8	39.3	39.4	38.8		1.5	1.6	2.2	1.9	
Radio and TV receiving equipment	365	40.4	40.9	40.1	39.1		2.2	2.2	2.2	2.4	
Radio and TV receiving sets	3651	40.9	41.3	40.0	38.6		2.0	1.9	1.7	1.9	
Communication equipment	366	41.6	41.8	41.4	40.9		2.6	2.6	2.8	2.7	
Telephone and telegraph apparatus	3661	41.2	41.9	43.3	42.8		2.1	2.0	3.8	3.9	
Radio and TV communication equipment	3662	41.8	41.8	40.8	40.2		2.8	2.8	2.5	2.3	
Electronic components and accessories	367	40.7	40.7	41.0	40.5		3.0	3.0	3.6	3.3	
Electronic tubes	3671-3	42.5	41.8	43.9	43.1		2.9	2.5	3.4	3.4	
Semiconductors and related devices	3674	40.6	40.6	40.4	40.1		3.3	3.4	3.6	3.4	
Electronic components, nec	3679	40.9	41.0	41.0	40.6		3.0	3.1	3.8	3.3	
Misc. electrical equipment and supplies	369	41.4	41.0	41.9	40.9		3.6	3.3	3.6	3.3	
Storage batteries	3691	39.8	39.5	41.8	40.0		2.3	1.9	3.9	2.9	
Engine electrical equipment	3694	42.6	42.1	42.3	41.6		4.7	4.4	4.1	3.8	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.11	\$11.13	\$11.19	\$11.16		\$464.40	\$467.46	\$486.77	\$485.46	
Construction machinery	3531	12.39	12.35	12.61	12.57		527.81	529.82	567.45	568.16	
Mining machinery	3532	11.35	11.39	11.35	11.34		474.43	472.69	492.59	495.56	
Oil field machinery	3533	11.17	11.32	10.81	10.72		463.56	472.04	462.67	457.74	
Conveyors and conveying equipment	3535	9.86	9.82	9.77	9.81		419.05	423.24	413.27	414.96	
Industrial trucks and tractors	3537	9.63	9.71	9.87	9.79		379.42	388.40	411.58	408.24	
Metalworking machinery	354	11.12	11.14	11.33	11.33		472.60	473.45	492.86	490.59	
Machine tools, metal cutting types	3541	11.05	11.05	11.20	11.24		467.42	467.42	477.12	476.58	
Machine tools, metal forming types	3542	11.29	11.40	11.68	11.73		471.92	469.68	518.59	526.68	
Special dies, tools, jigs, and fixtures	3544	11.88	11.91	12.16	12.12		515.59	518.09	535.04	533.28	
Machine tool accessories	3545	10.00	9.99	10.10	10.12		413.00	409.59	433.29	428.08	
Power driven hand tools	3546	8.51	8.49	8.71	8.84		345.51	349.79	369.30	368.63	
Special industry machinery	355	10.49	10.60	10.93	10.91		437.43	446.26	465.62	460.40	
Food products machinery	3551	10.63	10.71	10.88	10.91		442.21	448.75	462.40	463.68	
Textile machinery	3552	8.67	8.72	8.99	9.03		376.28	382.81	383.87	389.19	
Printing trades machinery	3555	11.21	11.31	11.85	11.84		446.16	459.19	489.41	472.42	
General industrial machinery	356	10.36	10.37	10.48	10.52		434.08	438.65	450.64	449.20	
Pumps and pumping equipment	3561	11.00	11.03	11.13	11.08		464.20	469.88	484.16	478.66	
Ball and roller bearings	3562	10.92	11.05	10.85	11.06		468.47	479.57	480.66	487.75	
Air and gas compressors	3563	10.27	10.19	10.32	10.34		433.39	437.15	443.76	436.35	
Blowers and fans	3564	9.21	9.13	9.34	9.39		366.56	373.42	380.14	379.36	
Speed changers, drives, and gears	3566	10.32	10.22	10.19	10.20		453.05	448.66	452.44	450.84	
Power transmission equipment, nec	3568	10.62	10.61	10.56	10.52		442.85	441.38	451.97	440.79	
Office and computing machines	357	10.11	10.14	10.45	10.44		431.70	432.98	437.86	431.17	
Electronic computing equipment	3573	10.15	10.17	10.45	10.44		432.39	434.26	435.77	432.22	
Refrigeration and service machinery	358	10.38	10.31	10.51	10.42		433.88	428.90	439.32	425.14	
Refrigeration and heating equipment	3585	10.63	10.51	10.73	10.61		446.46	438.27	454.95	436.07	
Misc. machinery, except electrical	359	10.31	10.39	10.54	10.57		427.87	433.26	442.68	441.83	
Carburetors, pistons, rings, and valves	3592	12.61	12.70	12.97	13.06		533.40	538.48	542.15	549.83	
Machinery, except electrical, nec	3599	9.93	10.01	10.17	10.18		411.10	415.42	427.14	425.52	
Electrical and electronic equipment	36	9.84	9.84	10.03	10.04	\$10.09	402.46	402.46	414.24	408.63	\$414.70
Electric distributing equipment	361	9.17	9.11	9.44	9.45		370.47	367.13	397.42	395.96	
Transformers	3612	9.06	8.98	9.24	9.29		373.27	367.28	384.38	387.39	
Switchgear and switchboard apparatus	3613	9.26	9.23	9.63	9.60		367.62	367.35	410.24	404.16	
Electrical industrial apparatus	362	9.68	9.71	9.77	9.82		396.88	400.05	414.25	412.44	
Motors and generators	3621	9.61	9.64	9.80	9.83		397.85	398.13	408.66	404.01	
Industrial controls	3622	9.50	9.59	9.54	9.69		376.20	386.48	407.36	409.89	
Household appliances	363	9.77	9.77	10.01	9.99		393.73	393.73	407.41	396.60	
Household refrigerators and freezers	3632	10.98	11.00	11.43	11.44		442.49	457.60	457.20	466.75	
Household laundry equipment	3633	11.52	11.42	12.14	11.98		488.45	470.50	511.09	489.98	
Electric housewares and fans	3634	7.35	7.44	7.43	7.35		296.94	293.88	309.83	299.15	
Electric lighting and wiring equipment	364	9.10	9.07	9.29	9.26		368.55	366.43	382.75	371.33	
Electric lamps	3641	10.08	10.06	10.72	10.74		408.24	402.40	447.02	429.60	
Current-carrying wiring devices	3643	8.63	8.61	8.65	8.66		352.10	349.57	355.52	345.53	
Noncurrent-carrying wiring devices	3644	9.38	9.35	9.34	9.37		394.90	384.29	389.48	390.73	
Residential lighting fixtures	3645	6.66	6.54	6.97	6.92		258.41	257.02	274.62	268.50	
Radio and TV receiving equipment	365	9.41	9.34	9.45	9.32		380.16	382.01	378.95	364.41	
Radio and TV receiving sets	3651	9.82	9.76	9.81	9.74		401.64	403.09	392.40	375.96	
Communication equipment	366	11.58	11.62	11.94	11.95		481.73	485.72	494.32	488.76	
Telephone and telegraph apparatus	3661	11.14	11.12	11.27	11.39		458.97	465.93	487.99	487.49	
Radio and TV communication equipment	3662	11.74	11.81	12.18	12.16		490.73	493.66	496.94	488.83	
Electronic components and accessories	367	8.88	8.89	9.12	9.13		361.42	361.82	373.92	369.77	
Electronic tubes	3671-3	11.00	11.17	11.11	11.02		467.50	466.91	487.73	474.96	
Semiconductors and related devices	3674	10.61	10.60	11.02	11.05		430.77	430.36	445.21	443.11	
Electronic components, nec	3679	8.01	8.01	8.18	8.19		327.61	328.41	335.38	332.51	
Misc. electrical equipment and supplies	369	10.50	10.47	10.66	10.66		434.70	429.27	446.65	435.99	
Storage batteries	3691	11.03	10.77	11.39	11.33		438.99	425.42	476.10	453.20	
Engine electrical equipment	3694	11.02	11.13	11.20	11.22		469.45	468.57	473.76	466.75	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Durable goods—Continued											
Transportation equipment	37	42.4	42.6	42.5	41.9	42.3	4.3	4.4	4.4	4.2	
Motor vehicles and equipment	371	42.8	43.2	42.7	42.3	42.9	4.5	4.6	4.6	4.3	
Motor vehicles and car bodies	3711	42.4	43.1	41.2	41.9	-	4.3	4.7	4.0	4.0	
Truck and bus bodies	3713	42.1	42.3	42.4	42.9		4.5	4.0	3.8	3.8	
Motor vehicle parts and accessories	3714	43.5	43.5	44.4	42.9		4.9	4.9	5.4	4.9	
Truck trailers	3715	40.1	40.5	40.0	40.0		2.0	2.3	2.5	2.1	
Aircraft and parts	372	42.9	42.7	43.0	42.3		4.8	4.7	4.9	4.8	
Aircraft	3721	42.2	42.1	42.4	41.7		4.2	4.2	4.5	4.2	
Aircraft engines and engine parts	3724	43.4	42.7	42.9	42.2		5.4	4.8	4.7	4.7	
Aircraft equipment, nec	3728	43.5	43.5	44.0	43.5		5.2	5.5	5.8	5.8	
Ship and boat building and repairing	373	40.2	40.9	40.6	39.9		2.4	3.0	3.2	2.7	
Ship building and repairing	3731	40.3	40.9	41.1	40.0		2.4	2.9	3.4	2.6	
Boat building and repairing	3732	39.9	40.9	39.7	39.9		2.5	3.1	2.8	2.7	
Railroad equipment	374	40.3	40.2	41.2	42.2		2.0	2.1	3.5	3.7	
Guided missiles, space vehicles, and parts	376	42.4	42.5	43.7	42.1		4.1	4.2	4.6	4.5	
Guided missiles and space vehicles	3761	42.5	42.8	43.7	41.8		4.2	4.3	4.6	4.6	
Miscellaneous transportation equipment	379	40.3	40.6	38.7	38.4		3.6	3.6	2.6	2.1	
Travel trailers and campers	3792	38.1	39.0	37.0	36.7		1.1	2.0	1.4	.9	
Instruments and related products	38	41.3	41.5	41.9	41.3	41.5	2.8	2.9	3.3	3.1	
Engineering and scientific instruments	381	41.5	41.6	42.3	41.5	-	3.0	2.9	3.4	3.2	
Measuring and controlling devices	382	41.5	41.8	41.8	41.5		2.7	2.8	3.1	2.9	
Environmental controls	3822	40.9	40.6	41.2	40.1		3.5	3.0	3.4	3.1	
Process control instruments	3823	42.3	43.2	43.8	43.4		2.9	3.7	3.9	3.7	
Instruments to measure electricity	3825	40.9	41.3	40.6	40.8		2.3	2.3	2.5	2.5	
Optical instruments and lenses	383	42.2	41.8	43.0	42.6		3.4	3.0	2.6	2.6	
Medical instruments and supplies	384	40.4	41.0	41.1	40.3		2.7	3.1	3.4	2.9	
Surgical and medical instruments	3841	41.0	41.8	41.0	40.5		2.9	3.4	2.9	2.6	
Surgical appliances and supplies	3842	39.9	40.3	41.0	39.9		2.4	2.8	3.8	3.2	
Ophthalmic goods	385	40.3	40.6	39.7	39.6		2.7	3.0	2.6	2.6	
Photographic equipment and supplies	386	43.4	42.7	45.4	44.1		3.5	3.3	4.6	4.4	
Watches, clocks, and watchcases	387	39.2	39.8	39.8	37.6		1.3	1.5	1.9	1.6	
Miscellaneous manufacturing	39	39.2	39.3	38.9	38.8	38.9	2.4	2.4	2.4	2.2	
Jewelry, silverware, and plated ware	391	37.2	38.2	37.8	37.1	-	1.6	2.0	1.7	1.4	
Jewelry, precious metal	3911	36.1	37.1	37.1	36.4		1.1	1.4	1.5	1.1	
Musical instruments	393	41.3	41.5	40.6	40.2		3.3	3.3	2.8	2.8	
Toys and sporting goods	394	39.3	39.1	39.2	39.1		2.3	2.1	2.3	2.1	
Dolls, games, toys, and children's vehicles	3942,4	39.0	38.6	38.8	37.9		2.2	2.1	2.1	1.8	
Sporting and athletic goods, nec	3949	39.5	39.5	39.6	40.0		2.4	2.1	2.5	2.4	
Pens, pencils, office, and art supplies	395	40.3	40.7	40.9	40.9		1.9	2.4	2.7	2.4	
Costume jewelry and notions	396	38.2	37.7	37.0	36.6		3.5	3.1	1.8	1.7	
Costume jewelry	3961	36.9	36.1	36.0	35.7		3.8	3.1	1.5	1.3	
Miscellaneous manufactures	399	39.7	39.8	38.9	39.2		2.6	2.5	2.7	2.7	
Signs and advertising displays	3993	39.5	39.7	38.5	38.9		2.6	2.5	2.5	2.7	
Nondurable goods		39.9	40.0	40.2	39.9	40.0	3.3	3.4	3.6	3.4	3.4
Food and kindred products	20	39.4	39.5	40.6	39.7	39.7	3.4	3.5	4.2	3.6	-
Meat products	201	38.2	38.4	41.5	38.9	-	2.9	2.9	5.0	3.2	
Meat packing plants	2011	39.7	40.9	43.7	40.6		3.4	3.9	6.4	4.0	
Sausages and other prepared meats	2013	39.0	39.3	40.6	39.0		2.6	2.9	4.0	3.0	
Poultry dressing plants	2016	36.7	36.0	40.4	37.5		2.6	2.1	4.1	2.5	
Dairy products	202	41.0	41.0	40.7	40.8		4.2	4.0	3.9	3.9	
Cheese, natural and processed	2022	39.1	39.4	38.9	39.0		3.7	3.6	3.3	3.5	
Fluid milk	2026	42.3	42.0	41.7	41.8		4.7	4.5	4.6	4.5	
Preserved fruits and vegetables	203	38.8	39.0	39.0	39.2		3.0	2.9	3.1	2.9	
Canned specialties	2032	39.2	38.1	41.8	38.1		3.3	2.3	5.8	3.4	
Canned fruits and vegetables	2033	38.7	38.5	39.1	39.4		2.7	2.7	3.4	3.5	
Frozen fruits and vegetables	2037	38.0	38.6	37.2	38.1		3.1	2.9	2.5	2.4	
Grain mill products	204	43.6	43.7	45.1	43.6		5.7	5.7	6.5	5.5	
Flour and other grain mill products	2041	47.8	46.5	45.9	45.5		6.5	6.3	6.4	6.3	
Prepared feeds, nec	2048	42.6	42.5	44.3	42.5		5.3	5.3	6.9	5.2	
Bakery products	205	39.6	39.7	39.3	39.3		3.5	3.7	3.8	3.8	
Bread, cake, and related products	2051	38.5	38.3	38.1	38.3		3.6	3.4	3.7	3.8	
Cookies and crackers	2052	42.3	43.2	42.1	42.0		3.3	4.4	4.1	4.0	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Durable goods—Continued											
Transportation equipment	37	\$12.88	\$12.86	\$13.19	\$13.20	\$13.25	\$546.11	\$547.84	\$560.58	\$553.08	\$560.48
Motor vehicles and equipment	371	13.49	13.49	13.90	13.92	14.03	577.37	582.77	593.53	588.82	601.89
Motor vehicles and car bodies	3711	15.12	15.16	16.17	16.08	-	641.09	653.40	666.20	673.75	-
Truck and bus bodies	3713	11.63	11.42	11.85	11.66	-	489.62	483.07	502.44	500.21	-
Motor vehicle parts and accessories	3714	12.63	12.64	12.90	12.96	-	549.41	549.84	572.76	555.98	-
Truck trailers	3715	9.34	9.35	9.19	9.07	-	374.53	378.68	367.60	362.80	-
Aircraft and parts	372	13.02	13.03	13.39	13.45	-	558.56	556.38	575.77	568.94	-
Aircraft	3721	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.13	\$13.09	\$13.55	\$13.59	-	569.84	558.94	581.30	573.50	-
Aircraft equipment, nec	3728	12.10	12.09	12.35	12.53	-	526.35	525.92	543.40	545.06	-
Ship and boat building and repairing	373	10.39	10.31	10.45	10.32	-	417.68	421.68	424.27	411.77	-
Ship building and repairing	3731	11.61	11.52	11.64	11.49	-	467.88	471.17	478.40	459.60	-
Boat building and repairing	3732	7.92	7.93	8.14	8.06	-	316.01	324.34	323.16	321.59	-
Railroad equipment	374	12.27	12.25	12.54	12.44	-	494.48	492.45	516.65	524.97	-
Guided missiles, space vehicles, and parts	376	(^b)	(^b)	(^b)	(^b)	-	(^b)	(^b)	(^b)	(^b)	-
Guided missiles and space vehicles	3761	(^b)	(^b)	(^b)	(^b)	-	(^b)	(^b)	(^b)	(^b)	-
Miscellaneous transportation equipment	379	\$10.83	\$10.74	\$10.25	\$10.12	-	\$436.45	\$436.04	\$396.68	\$388.61	-
Travel trailers and campers	3792	8.96	8.95	8.52	8.34	-	341.38	349.05	315.24	306.08	-
Instruments and related products	38	9.67	9.67	9.97	9.98	9.93	399.37	401.31	417.74	412.17	412.10
Engineering and scientific instruments	381	10.55	10.53	10.84	10.92	-	437.83	438.05	458.53	453.18	-
Measuring and controlling devices	382	9.52	9.56	9.80	9.82	-	395.08	399.61	409.64	407.53	-
Environmental controls	3822	8.92	9.01	9.33	9.31	-	364.83	365.81	384.40	373.33	-
Process control instruments	3823	9.48	9.53	9.61	9.53	-	401.00	411.70	420.92	413.60	-
Instruments to measure electricity	3825	9.76	9.77	9.98	10.13	-	399.18	403.50	405.19	413.30	-
Optical instruments and lenses	383	10.63	10.50	10.57	10.64	-	448.59	438.90	454.51	453.26	-
Medical instruments and supplies	384	8.60	8.68	8.91	8.93	-	347.44	355.88	366.20	359.88	-
Surgical and medical instruments	3841	8.61	8.76	9.04	9.09	-	353.01	366.17	370.64	368.15	-
Surgical appliances and supplies	3842	8.58	8.60	8.76	8.79	-	342.34	346.58	359.16	350.72	-
Ophthalmic goods	385	7.26	7.33	7.50	7.47	-	292.58	297.60	297.75	295.81	-
Photographic equipment and supplies	386	13.07	12.95	13.70	13.63	-	567.24	552.97	621.98	601.08	-
Watches, clocks, and watchcases	387	7.13	7.08	7.23	7.24	-	279.50	281.78	287.75	272.22	-
Miscellaneous manufacturing	39	7.68	7.66	7.97	7.90	7.92	301.06	301.04	310.03	306.52	308.09
Jewelry, silverware, and plated ware	391	8.31	8.28	8.49	8.45	-	309.13	316.30	320.92	313.50	-
Jewelry, precious metal	3911	8.40	8.35	8.61	8.60	-	303.24	309.79	319.43	313.04	-
Musical instruments	393	7.34	7.39	7.85	7.84	-	303.14	306.69	318.71	315.17	-
Toys and sporting goods	394	7.05	7.08	7.35	7.29	-	277.07	276.83	288.12	285.04	-
Dolls, games, toys, and children's vehicles	3942,4	6.89	6.95	7.24	7.09	-	268.71	268.27	280.91	268.71	-
Sporting and athletic goods, nec	3949	7.18	7.18	7.44	7.44	-	283.61	283.61	294.62	297.60	-
Pens, pencils, office, and art supplies	395	7.60	7.70	7.88	7.62	-	306.28	313.39	322.29	311.66	-
Costume jewelry and notions	396	6.15	6.10	6.49	6.44	-	234.93	229.97	240.13	235.70	-
Costume jewelry	3961	5.55	5.52	6.19	6.06	-	204.80	199.27	222.84	216.34	-
Miscellaneous manufactures	399	8.49	8.45	8.77	8.76	-	337.05	336.31	341.15	343.39	-
Signs and advertising displays	3993	8.91	8.85	9.04	9.12	-	351.95	351.35	348.04	354.77	-
Nondurable goods		9.08	9.09	9.30	9.29	9.31	362.29	363.60	373.86	370.67	372.40
Food and kindred products	20	8.91	8.93	9.05	9.05	9.06	351.05	352.74	367.43	359.29	359.68
Meat products	201	7.35	7.40	7.54	7.49	-	280.77	284.16	312.91	291.36	-
Meat packing plants	2011	8.33	8.36	8.44	8.35	-	330.70	341.92	368.83	339.01	-
Sausages and other prepared meats	2013	8.67	8.74	8.89	8.88	-	338.13	343.48	360.93	346.32	-
Poultry dressing plants	2016	6.02	6.03	6.29	6.27	-	220.93	217.08	254.12	235.13	-
Dairy products	202	9.60	9.56	9.80	9.85	-	393.60	391.96	398.86	401.88	-
Cheese, natural and processed	2022	8.90	8.82	9.06	9.16	-	347.99	347.51	352.43	357.24	-
Fluid milk	2026	10.04	10.03	10.27	10.26	-	424.69	421.26	428.26	428.87	-
Preserved fruits and vegetables	203	8.49	8.46	8.58	8.56	-	329.41	329.94	334.62	335.55	-
Canned specialties	2032	10.61	10.31	10.57	10.52	-	415.91	392.81	441.83	400.81	-
Canned fruits and vegetables	2033	8.32	8.38	8.53	8.59	-	321.98	322.63	333.52	338.45	-
Frozen fruits and vegetables	2037	7.85	7.84	7.99	7.90	-	298.30	302.62	297.23	300.99	-
Grain mill products	204	10.66	10.65	11.04	10.90	-	464.78	465.41	497.90	475.24	-
Flour and other grain mill products	2041	10.19	10.34	10.81	10.85	-	487.08	480.81	496.18	493.68	-
Prepared feeds, nec	2048	8.23	8.31	8.63	8.49	-	350.60	353.18	382.31	360.83	-
Bakery products	205	9.94	9.93	10.14	10.12	-	393.62	394.22	398.50	397.72	-
Bread, cake, and related products	2051	9.84	9.81	10.14	10.13	-	378.84	375.72	386.33	387.98	-
Cookies and crackers	2052	10.18	10.18	10.14	10.09	-	430.61	439.78	426.89	423.78	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.1	40.2	41.4	41.2		3.3	3.0	3.7	3.5	
Cane and beet sugar	2061-3	41.5	42.6	45.2	44.3		5.8	5.1	6.5	6.1	
Confectionery products	2065	39.0	38.8	39.3	39.4		2.2	2.1	2.4	2.3	
Fats and oils	207	40.7	40.7	44.0	42.5		4.6	4.4	6.2	4.9	
Beverages	208	39.7	40.1	40.1	40.0		3.0	3.5	3.3	3.3	
Malt beverages	2082	41.9	41.8	41.8	42.1		4.6	4.9	6.0	5.7	
Bottled and canned soft drinks	2086	39.2	40.2	39.5	38.9		2.5	3.3	2.4	2.4	
Misc. food and kindred products	209	38.5	38.2	37.6	38.2		3.7	3.7	3.2	3.4	
Tobacco manufactures	21	36.2	38.1	39.2	38.3	36.9	1.1	2.0	3.2	2.3	
Cigarettes	211	36.7	38.5	41.2	39.2	-	1.1	2.2	4.1	2.8	
Textile mill products	22	41.6	42.0	41.5	41.3	41.1	4.3	4.5	4.3	4.0	
Weaving mills, cotton	221	42.8	43.3	41.4	41.8		5.8	6.1	5.2	5.1	
Weaving mills, synthetics	222	41.8	42.1	42.5	41.9		4.3	4.4	4.6	4.4	
Weaving and finishing mills, wool	223	42.6	42.0	42.8	40.8		2.5	2.5	3.2	2.6	
Narrow fabric mills	224	40.7	41.3	41.7	41.2		3.3	3.8	3.7	3.5	
Knitting mills	225	39.6	40.2	39.9	40.0		3.3	3.5	3.5	3.2	
Women's hosiery, except socks	2251	39.0	39.6	37.8	39.2		3.3	3.2	3.4	2.8	
Hosiery, nec	2252	38.6	40.1	40.2	41.2		2.6	2.8	3.5	3.4	
Knit outerwear mills	2253	38.4	38.6	40.0	38.9		3.0	3.1	3.2	2.9	
Knit underwear mills	2254	40.0	40.3	37.8	38.0		2.8	3.1	1.7	1.5	
Circular knit fabric mills	2257	42.8	43.4	41.8	41.6		5.1	5.5	5.1	4.5	
Textile finishing, except wool	226	41.0	42.1	42.2	41.9		4.0	4.9	4.8	4.3	
Finishing plants, cotton	2261	41.1	42.5	41.5	42.3		3.6	4.7	4.7	4.3	
Finishing plants, synthetics	2262	41.8	42.4	42.8	41.5		4.4	4.9	5.4	4.3	
Floor covering mills	227	43.6	42.7	41.8	42.6		4.9	4.3	3.7	3.9	
Yarn and thread mills	228	42.7	43.1	41.8	41.2		5.0	5.1	4.6	4.3	
Yarn mills, except wool	2281	43.8	44.1	42.6	41.9		5.6	5.7	4.9	4.6	
Throwing and winding mills	2282	38.1	38.5	38.1	38.4		3.1	3.1	2.4	2.6	
Miscellaneous textile goods	229	43.4	43.4	43.5	43.4		4.6	4.7	5.0	4.6	
Apparel and other textile products	23	37.1	37.0	36.7	36.7	37.0	1.8	1.8	1.9	1.8	
Men's and boys' suits and coats	231	35.9	35.5	36.7	36.7		1.0	1.0	1.6	1.4	
Men's and boys' furnishings	232	37.2	37.0	36.8	36.3		1.5	1.5	1.7	1.4	
Men's and boys' shirts and nightwear	2321	37.4	37.5	36.4	36.9		1.6	1.6	1.6	1.6	
Men's and boys' separate trousers	2327	36.7	36.6	36.9	36.5		1.2	1.1	1.6	1.6	
Men's and boys' work clothing	2328	36.9	36.2	37.1	35.4		1.4	1.4	1.9	1.3	
Women's and misses' outerwear	233	36.0	35.9	35.5	36.0		1.7	1.7	1.7	1.7	
Women's and misses' blouses and waists	2331	36.4	35.8	35.2	36.1		1.6	1.4	1.5	1.6	
Women's and misses' dresses	2335	35.5	36.1	35.1	35.4		1.5	1.7	1.4	1.6	
Women's and misses' suits and coats	2337	34.6	34.8	35.4	35.9		1.2	1.3	1.5	1.5	
Women's and misses' underwear, nec	2339	36.5	36.1	35.9	36.3		1.9	1.9	2.0	1.9	
Women's and children's undergarments	234	37.1	36.8	37.8	37.6		1.0	1.0	1.7	1.8	
Women's and children's underwear	2341	37.5	37.1	37.8	38.0		1.1	1.0	1.5	1.7	
Brassieres and allied garments	2342	34.9	35.4	38.0	35.6		.8	1.1	3.0	2.2	
Children's outerwear	236	37.0	36.6	37.8	37.7		1.6	1.7	2.4	1.9	
Children's dresses and blouses	2361	36.5	35.1	36.0	36.7		1.7	1.5	2.0	1.7	
Misc. apparel and accessories	238	38.4	38.9	37.0	37.2		1.9	2.4	2.0	1.8	
Misc. fabricated textile products	239	39.2	39.7	37.9	38.0		3.1	3.2	2.6	2.4	
Curtains and draperies	2391	37.8	38.6	33.3	35.1		1.7	1.8	.5	.8	
House furnishings, nec	2392	38.5	39.2	37.8	37.1		2.3	2.6	2.4	1.8	
Automotive and apparel trimmings	2396	42.1	42.5	41.0	41.4		6.6	6.5	5.1	5.4	
Paper and allied products	26	43.0	42.9	43.6	43.0	43.2	4.7	4.7	5.1	4.7	
Paper and pulp mills	261,2,6	45.0	45.0	45.5	45.3	-	6.1	6.2	6.3	6.2	
Paper mills, except building paper	262	45.1	45.1	45.5	45.4		6.3	6.4	6.4	6.4	
Paperboard mills	263	44.0	43.7	44.7	43.6		7.1	6.9	6.5	6.1	
Misc. converted paper products	264	42.2	42.0	42.5	42.0		3.6	3.6	4.2	3.7	
Paper coating and glazing	2641	44.2	43.9	43.7	43.5		4.0	4.1	4.0	3.7	
Envelopes	2642	41.9	41.7	42.0	40.9		3.1	3.0	4.2	3.1	
Bags, except textile bags	2643	42.0	41.8	42.7	41.6		3.9	3.7	5.1	4.2	
Paperboard containers and boxes	265	41.9	41.8	42.7	41.8		3.9	3.9	4.5	3.9	
Folding paperboard boxes	2651	41.7	42.1	43.2	41.8		4.0	4.2	5.1	4.3	
Corrugated and solid fiber boxes	2653	42.6	42.2	43.3	42.4		4.2	4.1	4.8	4.2	
Sanitary food containers	2654	40.4	41.2	42.3	41.5		3.8	3.9	4.2	3.7	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.05	\$9.11	\$9.25	\$9.46		\$362.91	\$366.22	\$382.95	\$389.75	
Cane and beet sugar	2061-3	10.49	10.67	10.16	10.83		435.34	454.54	459.23	479.77	
Confectionery products	2065	7.74	7.87	8.11	8.25		301.86	305.36	318.72	325.05	
Fats and oils	207	9.01	9.14	9.16	9.01		366.71	372.00	403.04	382.93	
Beverages	208	11.77	11.83	11.88	11.99		467.27	474.38	476.39	479.60	
Malt beverages	2082	16.40	16.57	16.76	16.94		687.16	692.63	700.57	713.17	
Bottled and finished soft drinks	2086	9.27	9.44	9.35	9.40		363.38	379.49	369.33	365.66	
Misc. food and kindred products	209	8.26	8.28	8.43	8.35		318.01	316.30	316.97	318.97	
Tobacco manufactures	21	13.44	13.80	13.70	13.89	\$14.15	486.53	525.78	537.04	531.99	\$522.14
Cigarettes	211	16.04	16.23	16.98	17.02		588.67	624.86	699.58	667.18	-
Textile mill products	22	7.11	7.12	7.36	7.32	7.34	295.78	299.04	305.44	302.32	301.67
Weaving mills, cotton	221	7.43	7.44	7.71	7.66	-	318.00	322.15	319.19	320.19	-
Weaving mills, synthetics	222	7.65	7.62	7.91	7.90		319.77	320.80	336.18	331.01	
Weaving and finishing mills, wool	223	7.59	7.58	7.76	7.77		323.33	318.36	332.13	317.02	
Narrow fabric mills	224	6.71	6.71	6.77	6.75		273.10	277.12	282.31	278.10	
Knitting mills	225	6.49	6.49	6.70	6.65		257.00	260.90	267.33	266.00	
Women's hosiery, except socks	2251	6.39	6.37	6.77	6.60		249.21	252.25	255.91	258.72	
Hosiery, nec	2252	6.12	6.14	6.40	6.36		236.23	246.21	257.28	262.03	
Knit outerwear mills	2253	6.44	6.46	6.47	6.47		247.30	249.36	258.80	251.68	
Knit underwear mills	2254	6.09	6.13	6.48	6.34		243.60	247.04	244.94	240.92	
Circular knit fabric mills	2257	7.16	7.12	7.39	7.37		306.45	309.01	308.90	306.59	
Textile finishing, except wool	226	7.34	7.41	7.61	7.59		300.94	311.96	321.14	318.02	
Finishing plants, cotton	2261	7.32	7.40	7.61	7.61		300.85	314.50	315.82	321.90	
Finishing plants, synthetics	2262	7.61	7.66	7.91	7.90		318.10	324.78	338.55	327.85	
Floor covering mills	227	7.53	7.57	7.62	7.51		328.31	323.24	318.52	319.93	
Yarn and thread mills	228	6.67	6.69	6.99	6.98		284.81	288.34	292.18	287.58	
Yarn mills, except wool	2281	6.69	6.71	6.97	6.96		293.02	295.91	296.92	291.62	
Throwing and winding mills	2282	6.60	6.60	7.11	7.13		251.46	254.10	270.89	273.79	
Miscellaneous textile goods	229	8.13	8.16	8.38	8.32		352.84	354.14	364.53	361.09	
Apparel and other textile products	23	5.93	5.93	6.04	6.02	6.04	220.00	219.41	221.67	220.93	223.48
Men's and boys' suits and coats	231	6.65	6.67	6.95	6.91	-	238.74	236.79	255.07	253.60	-
Men's and boys' furnishings	232	5.43	5.43	5.58	5.56		202.00	200.91	205.34	201.83	
Men's and boys' shirts and nightwear	2321	5.23	5.21	5.47	5.45		195.60	195.38	199.11	201.11	
Men's and boys' separate trousers	2327	5.30	5.30	5.44	5.36		194.51	193.98	200.74	195.64	
Men's and boys' work clothing	2328	5.53	5.55	5.58	5.58		204.06	200.91	207.02	197.53	
Women's and misses' outerwear	233	5.68	5.72	5.76	5.78		204.48	205.35	204.48	208.08	
Women's and misses' blouses and waists	2331	5.05	5.06	5.14	5.16		183.82	181.15	180.93	186.28	
Women's and misses' dresses	2335	5.96	6.06	6.03	6.19		211.58	218.77	211.65	219.13	
Women's and misses' suits and coats	2337	6.40	6.46	6.51	6.46		221.44	224.81	230.45	231.91	
Women's and misses' outerwear, nec	2339	5.57	5.58	5.65	5.62		203.31	201.44	202.84	204.01	
Women's and children's undergarments	234	5.49	5.42	5.64	5.67		203.68	199.46	213.19	213.19	
Women's and children's underwear	2341	5.33	5.25	5.43	5.46		199.88	194.78	205.25	207.48	
Brassieres and allied garments	2342	6.34	6.31	6.78	6.91		221.27	223.37	257.64	246.00	
Children's outerwear	236	5.17	5.22	5.45	5.41		191.29	191.05	206.01	203.96	
Children's dresses and blouses	2361	5.00	5.02	5.39	5.35		182.50	176.20	194.04	196.35	
Misc. apparel and accessories	238	5.67	5.66	5.86	5.85		217.73	220.17	216.82	217.62	
Misc. fabricated textile products	239	7.36	7.31	7.29	7.26		288.51	290.21	276.29	275.88	
Curtains and draperies	2391	5.74	5.73	5.85	5.97		216.97	221.18	194.81	209.55	
House furnishings, nec	2392	6.07	6.03	6.23	6.12		233.70	236.38	235.49	227.05	
Automotive and apparel trimmings	2396	11.53	11.38	11.41	11.37		485.41	483.65	467.81	470.72	
Paper and allied products	26	11.26	11.27	11.52	11.49	11.49	484.18	483.48	502.27	494.07	496.37
Paper and pulp mills	261,2,6	13.72	13.77	14.01	14.07		617.40	619.65	637.46	637.37	-
Paper mills, except building paper	262	13.80	13.85	14.09	14.16		622.38	624.64	641.10	642.86	
Paperboard mills	263	14.01	14.13	14.27	14.10		616.44	617.48	637.87	614.76	
Misc. converted paper products	264	9.80	9.77	10.10	10.04		413.56	410.34	429.25	421.68	
Paper coating and glazing	2641	11.01	10.93	11.17	11.11		486.64	479.83	488.13	483.29	
Envelopes	2642	9.05	9.04	9.58	9.48		379.20	376.97	402.36	387.73	
Bags, except textile bags	2643	9.02	9.02	9.40	9.32		378.84	377.04	401.38	387.71	
Paperboard containers and boxes	265	9.60	9.59	9.82	9.79		402.24	400.86	419.31	409.22	
Folding paperboard boxes	2651	10.01	10.06	10.23	10.16		417.42	423.53	441.94	424.69	
Corrugated and solid fiber boxes	2653	9.78	9.77	9.96	9.89		416.63	412.29	431.27	419.34	
Sanitary food containers	2654	9.30	9.26	9.59	9.69		375.72	381.51	405.66	402.14	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Nondurable goods—Continued											
Printing and publishing	27	37.8	38.0	37.7	37.7	38.2	2.8	3.0	2.9	2.9	
Newspapers	271	33.2	33.5	32.6	33.3	-	1.4	1.3	1.0	1.2	
Periodicals	272	39.2	39.2	38.4	38.0		2.6	2.9	3.5	3.3	
Books	273	38.7	38.7	39.5	40.1		4.0	4.0	3.6	3.5	
Book publishing	2731	37.8	38.2	39.4	39.5		3.6	3.8	3.4	3.4	
Book printing	2732	40.4	39.4	39.5	41.0		4.5	4.3	3.8	3.5	
Miscellaneous publishing	274	36.2	36.8	37.0	36.4		2.4	2.8	2.8	2.1	
Commercial printing	275	39.5	39.6	39.0	39.0		3.5	3.6	3.3	3.5	
Commercial printing, letterpress	2751	39.1	39.4	38.9	38.7		3.0	3.1	3.0	3.1	
Commercial printing, lithographic	2752	39.5	39.5	38.8	38.9		3.6	3.8	3.4	3.5	
Manifold business forms	276	40.6	40.9	42.2	40.9		2.9	3.0	4.5	3.3	
Blankbooks and bookbinding	278	37.8	38.2	39.1	38.6		1.9	2.3	3.0	2.6	
Printing trade services	279	38.3	38.4	38.3	38.4		3.5	3.7	4.0	4.0	
Chemicals and allied products	28	42.1	42.1	42.7	42.4	42.6	3.8	3.9	4.1	4.0	
Industrial inorganic chemicals	281	42.1	42.2	43.5	43.1	-	3.7	3.8	4.2	4.2	
Industrial inorganic chemicals, nec	2819	42.6	42.9	43.9	43.2		3.7	3.8	4.1	4.1	
Plastics materials and synthetics	282	42.7	42.8	43.6	43.1		4.0	4.2	4.8	4.6	
Plastics materials and resins	2821	43.5	43.7	44.3	43.6		4.4	4.7	5.1	4.9	
Organic fibers, noncellulosic	2824	42.1	41.8	42.8	42.5		3.5	3.5	4.3	4.0	
Drugs	283	42.1	41.5	41.7	41.3		3.4	3.1	3.4	3.2	
Pharmaceutical preparations	2834	41.9	41.9	41.2	41.3		3.5	3.3	3.3	3.2	
Soap, cleaners, and toilet goods	284	41.0	41.1	41.0	41.3		3.2	3.3	3.2	3.2	
Soap and other detergents	2841	43.8	43.6	43.8	43.5		5.1	5.2	5.2	5.1	
Polishing, sanitation, and finishing preparations	2842,3	41.2	40.8	41.9	42.0		2.9	2.9	3.4	3.3	
Toilet preparations	2844	39.4	39.9	39.1	39.7		2.3	2.4	1.9	2.2	
Paints and allied products	285	41.1	41.6	41.9	42.0		3.2	3.5	3.7	3.3	
Industrial organic chemicals	286	43.0	43.5	45.0	44.2		4.7	5.0	5.4	5.1	
Cyclic crudes and intermediates	2865	42.2	42.6	43.5	41.8		4.9	5.1	5.2	4.2	
Gum, wood, and industrial organic chemicals, nec	2861,9	43.2	43.7	45.4	44.9		4.7	5.0	5.5	5.3	
Agricultural chemicals	287	42.9	43.0	43.3	43.0		5.0	4.9	4.8	4.6	
Miscellaneous chemical products	289	40.9	41.2	41.0	41.2		3.1	3.2	3.2	3.4	
Petroleum and coal products	29	43.4	43.9	43.9	42.8	43.4	4.5	5.1	4.9	4.9	
Petroleum refining	291	43.6	44.2	44.2	43.2	-	4.2	4.9	4.8	4.9	
Paving and roofing materials	295	43.6	43.6	43.4	42.0		6.5	6.7	6.2	5.5	
Rubber and misc. plastics products	30	41.5	41.5	41.8	41.4	41.7	3.7	3.8	4.2	4.0	
Tires and inner tubes	301	43.6	42.5	45.6	44.9	-	4.4	4.3	6.2	5.9	
Rubber and plastics footwear	302	40.8	41.5	42.7	41.8		1.9	2.1	3.0	2.7	
Reclaimed rubber, and rubber and plastics hose and belting	303,4	41.5	41.3	45.5	43.7		2.8	2.6	5.1	3.9	
Fabricated rubber products, nec	306	41.7	41.6	41.7	41.2		3.7	3.7	4.0	3.6	
Miscellaneous plastics products	307	41.2	41.3	41.2	40.8		3.7	3.9	3.9	3.8	
Leather and leather products	31	37.2	37.5	37.7	36.9	37.6	1.7	1.8	1.8	1.6	
Leather tanning and finishing	311	41.8	41.8	40.6	40.8	-	4.3	4.6	4.0	3.5	
Footwear, except rubber	314	36.7	36.8	37.3	36.2		1.5	1.5	1.5	1.3	
Men's footwear, except athletic	3143	37.3	37.7	37.4	36.9		1.2	1.5	1.4	1.3	
Women's footwear, except athletic	3144	36.1	35.4	37.0	35.0		2.1	1.6	1.8	1.4	
Luggage	316	38.4	38.9	40.2	39.7		.8	1.3	2.2	1.6	
Handbags and personal leather goods	317	36.6	37.2	36.5	36.0		1.5	1.8	1.9	2.1	
Transportation and public utilities		39.0	38.9	38.9	38.8	38.6					
Railroad transportation:											
Class 1 railroads ^a	4011	43.7	43.5	40.3	42.3						
Local and interurban passenger transit	41	34.0	33.9	33.8	34.2						
Local and suburban transportation	411	38.8	38.7	37.9	38.5						
Intercity highway transportation	413	40.9	38.2	39.2	41.8						
Trucking and warehousing	42	38.1	38.2	37.6	37.8						
Trucking and trucking terminals	421,3	38.1	38.2	37.5	37.7						
Public warehousing	422	38.2	38.0	38.7	38.8						
Pipe lines, except natural gas	46	40.6	40.7	43.0	42.4						

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Nondurable goods—Continued											
Printing and publishing	27	\$10.16	\$10.17	\$10.39	\$10.41	\$10.42	\$384.05	\$386.46	\$391.70	\$392.46	\$398.04
Newspapers	271	10.09	10.02	10.28	10.29	-	334.99	335.67	335.13	342.66	-
Periodicals	272	10.67	10.67	10.74	10.77	-	418.26	418.26	412.42	409.26	-
Books	273	9.25	9.18	9.37	9.40	-	357.98	355.27	370.12	376.94	-
Book publishing	2731	8.80	8.73	8.95	9.03	-	332.64	333.49	352.63	356.69	-
Book printing	2732	9.95	9.92	10.06	9.98	-	401.98	390.85	397.37	409.18	-
Miscellaneous publishing	274	9.10	9.10	9.79	9.76	-	329.42	334.88	362.23	355.26	-
Commercial printing	275	10.48	10.52	10.70	10.72	-	413.96	416.59	417.30	418.08	-
Commercial printing, letterpress	2751	10.10	10.10	10.35	10.40	-	394.91	397.94	402.62	402.48	-
Commercial printing, lithographic	2752	10.64	10.71	10.81	10.85	-	420.28	423.05	419.43	422.07	-
Manifold business forms	276	10.43	10.50	10.84	10.78	-	423.46	429.45	457.45	440.90	-
Blankbooks and bookbinding	278	7.96	8.10	8.25	8.27	-	300.89	309.42	322.58	319.22	-
Printing trade services	279	12.53	12.49	12.85	12.88	-	479.90	479.62	492.16	494.59	-
Chemicals and allied products	28	12.21	12.24	12.56	12.54	12.52	514.04	515.30	536.31	531.70	533.35
Industrial inorganic chemicals	281	13.36	13.42	13.81	13.83	-	562.46	566.32	600.74	596.07	-
Industrial organic chemicals, nec	2819	13.43	13.52	13.81	13.83	-	572.12	580.01	606.26	597.46	-
Plastics materials and synthetics	282	12.40	12.37	12.68	12.75	-	529.48	529.44	552.85	549.53	-
Plastics materials and resins	2821	13.34	13.31	13.60	13.68	-	580.29	581.65	602.48	596.45	-
Organic fibers, noncellulosic	2824	11.98	11.90	12.15	12.30	-	504.36	497.42	520.02	522.75	-
Drugs	283	11.40	11.51	11.88	11.94	-	479.94	477.67	495.40	493.12	-
Pharmaceutical preparations	2834	11.13	11.12	11.60	11.60	-	466.35	465.93	477.92	479.08	-
Soap, cleaners, and toilet goods	284	10.86	10.89	11.09	11.11	-	445.26	447.58	454.69	458.84	-
Soap and other detergents	2841	13.93	14.06	14.47	14.57	-	610.13	613.02	633.79	633.80	-
Polishing, sanitation, and finishing preparations	2842,3	10.05	10.10	10.13	10.02	-	414.06	412.08	424.45	420.84	-
Toilet preparations	2844	9.31	9.31	9.51	9.63	-	366.81	371.47	371.84	382.31	-
Paints and allied products	285	10.73	10.74	11.13	11.14	-	441.00	446.78	466.35	467.88	-
Industrial organic chemicals	286	14.68	14.72	14.78	14.70	-	631.24	640.32	665.10	649.74	-
Cyclic crudes and intermediates	2865	14.59	14.43	14.71	14.85	-	615.70	614.72	639.89	620.73	-
Gum, wood, and industrial organic chemicals, nec	2861,9	14.71	14.81	14.80	14.66	-	635.47	647.20	671.92	658.23	-
Agricultural chemicals	287	11.74	11.64	12.38	12.08	-	503.65	500.52	536.05	519.44	-
Miscellaneous chemical products	289	11.26	11.22	11.50	11.45	-	460.53	462.26	471.50	471.74	-
Petroleum and coal products	29	14.51	14.50	14.83	14.94	15.03	629.73	636.55	651.04	639.43	652.30
Petroleum refining	291	15.65	15.62	15.83	15.96	-	682.34	690.40	699.69	689.47	-
Paving and roofing materials	295	11.07	11.21	11.54	11.59	-	482.65	488.76	500.84	486.78	-
Rubber and misc. plastics products	30	8.79	8.80	8.97	8.97	8.98	364.79	365.20	374.95	371.36	374.47
Tires and inner tubes	301	13.79	13.87	14.22	14.27	-	601.24	589.48	648.43	640.72	-
Rubber and plastics footwear	302	5.94	5.87	6.12	6.16	-	242.35	243.61	261.32	257.49	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	8.77	8.85	8.97	8.97	-	363.96	365.51	408.14	391.99	-
Fabricated rubber products, nec	306	8.48	8.47	8.77	8.69	-	353.62	352.35	365.71	358.03	-
Miscellaneous plastics products	307	8.17	8.19	8.33	8.35	-	336.60	338.25	343.20	340.68	-
Leather and leather products	31	6.01	6.06	6.10	6.14	6.16	223.57	227.25	229.97	226.57	231.62
Leather tanning and finishing	311	8.01	8.10	8.28	8.20	-	334.82	338.58	336.17	334.56	-
Footwear, except rubber	314	5.70	5.75	5.86	5.92	-	209.19	211.60	218.58	214.30	-
Men's footwear, except athletic	3143	6.14	6.19	6.21	6.27	-	229.02	233.36	232.25	231.36	-
Women's footwear, except athletic	3144	5.33	5.36	5.56	5.61	-	192.41	189.74	205.72	196.35	-
Luggage	316	6.19	6.32	6.36	6.28	-	237.70	245.85	255.67	249.32	-
Handbags and personal leather goods	317	5.87	5.81	5.64	5.70	-	214.84	216.13	205.86	205.20	-
Transportation and public utilities		11.93	11.90	12.11	12.17	12.16	465.27	462.91	471.08	472.20	469.38
Railroad transportation:											
Class I railroads ^a	4011	14.47	14.13	13.95	14.20	-	632.34	614.86	562.19	600.66	-
Local and interurban passenger transit	41	8.15	8.16	8.37	8.43	-	277.10	276.62	282.91	288.31	-
Local and suburban transportation	411	8.71	8.80	8.98	9.09	-	337.95	340.56	340.34	349.97	-
Intercity highway transportation	413	11.68	11.55	11.27	11.34	-	477.71	441.21	441.78	474.01	-
Trucking and warehousing	42	10.75	10.77	10.84	10.88	-	409.58	411.41	407.58	411.26	-
Trucking and trucking terminals	421,3	10.94	10.95	11.02	11.07	-	416.81	418.29	413.25	417.34	-
Public warehousing	422	8.26	8.27	8.55	8.55	-	315.53	314.26	330.89	331.74	-
Pipe lines, except natural gas	46	15.37	15.35	15.68	15.72	-	624.02	624.75	674.24	666.53	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Transportation and public utilities—Continued											
Communication	48	39.6	39.5	40.1	39.9						
Telephone communication	481	40.7	40.6	41.3	41.3						
Radio and television broadcasting	483	36.5	36.4	36.5	36.2						
Electric, gas, and sanitary services	49	41.0	41.0	41.9	41.5						
Electric services	491	40.5	40.6	41.8	41.5						
Gas production and distribution	492	40.8	40.4	41.5	41.0						
Combination utility services	493	42.3	42.0	42.9	42.4						
Sanitary services	495	41.4	41.8	41.3	41.1						
Wholesale trade		37.9	37.9	38.0	38.0	37.8					
Durable goods	50	38.5	38.5	38.5	38.5						
Motor vehicles and automotive equipment	501	38.1	38.0	38.3	38.0						
Furniture and home furnishings	502	37.0	37.1	37.9	38.3						
Lumber and construction materials	503	38.6	38.8	38.4	38.7						
Sporting goods, toys, and hobby goods	504	36.5	36.6	35.5	35.7						
Metals and minerals, except petroleum	505	40.2	40.5	41.0	40.9						
Electrical goods	506	38.2	38.2	37.9	38.2						
Hardware, plumbing, and heating equipment	507	38.0	38.0	38.5	38.4						
Machinery, equipment, and supplies	508	38.9	38.9	39.0	38.9						
Miscellaneous durable goods	509	37.7	38.0	37.1	37.6						
Nondurable goods	51	37.2	37.2	37.2	37.1						
Paper and paper products	511	37.0	36.8	36.8	36.6						
Drugs, proprietaries, and sundries	512	37.0	37.3	37.4	37.0						
Apparel, piece goods, and notions	513	36.6	36.3	36.9	37.0						
Groceries and related products	514	37.7	37.5	37.7	37.5						
Chemicals and allied products	516	39.0	39.2	39.1	39.5						
Petroleum and petroleum products	517	38.9	38.8	39.1	38.7						
Beer, wine, and distilled beverages	518	35.6	35.7	35.0	35.0						
Miscellaneous nondurable goods	519	36.5	36.7	36.4	36.6						
Retail trade		28.7	28.9	28.4	28.5	28.6					
Building materials and garden supplies	52	36.1	36.3	35.8	36.1						
Lumber and other building materials	521	37.9	38.1	37.5	37.8						
Hardware stores	525	32.4	32.7	32.6	32.5						
General merchandise stores	53	27.0	27.7	25.7	25.5						
Department stores	531	26.7	27.5	25.3	25.1						
Variety stores	533	27.9	28.4	28.3	27.9						
Misc. general merchandise stores	539	29.0	29.2	28.8	28.6						
Food stores	54	29.4	29.4	29.7	29.7						
Grocery stores	541	29.5	29.6	29.8	29.7						
Retail bakeries	546	27.7	27.1	27.7	28.6						
Automotive dealers and service stations	55	36.1	36.3	36.4	36.4						
New and used car dealers	551,2	37.1	37.3	37.3	37.4						
Auto and home supply stores	553	38.6	38.8	38.2	38.3						
Gasoline service stations	554	33.5	33.7	34.2	34.0						
Apparel and accessory stores	56	25.8	26.1	25.8	26.0						
Men's and boys' clothing and furnishings	561	29.0	29.1	29.1	28.8						
Women's ready-to-wear stores	562	24.6	25.2	24.0	24.3						
Family clothing stores	565	26.0	26.3	25.5	25.8						
Shoe stores	566	27.0	26.8	26.9	27.1						
Furniture and home furnishings stores	57	32.8	32.9	32.6	32.6						
Furniture and home furnishings stores	571	32.4	32.6	32.8	33.0						
Household appliance stores	572	33.4	33.4	33.4	33.0						
Radio, television, and music stores	573	33.2	33.1	32.1	31.7						
Eating and drinking places ⁵	58	25.4	25.6	25.0	25.3						

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.24	\$12.27	\$12.55	\$12.58		\$484.70	\$484.67	\$503.26	\$501.94	
Telephone communication	481	13.01	13.05	13.29	13.34		529.51	529.83	548.88	550.94	
Radio and television broadcasting	483	10.61	10.66	11.28	11.25		387.27	388.02	411.72	407.25	
Electric, gas, and sanitary services	49	13.77	13.76	13.95	14.03		564.57	564.16	584.51	582.25	
Electric services	491	13.78	13.77	13.95	14.15		558.09	559.06	583.11	587.23	
Gas production and distribution	492	12.90	12.98	13.24	13.06		526.32	524.39	549.46	535.46	
Combination utility services	493	16.14	16.14	16.35	16.40		682.72	677.88	701.42	695.36	
Sanitary services	495	10.03	9.96	10.40	10.53		415.24	416.33	429.52	432.78	
Wholesale trade		9.55	9.53	9.79	9.80	\$9.82	361.95	361.19	372.02	372.40	\$371.20
Durable goods	50	9.66	9.64	9.95	9.97		371.91	371.14	383.08	383.85	
Motor vehicles and automotive equipment	501	8.54	8.58	9.02	8.99		325.37	326.04	345.47	341.62	
Furniture and home furnishings	502	8.78	8.83	9.01	9.07		324.86	327.59	341.48	347.38	
Lumber and construction materials	503	9.14	9.10	9.46	9.37		352.80	353.08	363.26	362.62	
Sporting goods, toys, and hobby goods	504	9.79	9.80	9.50	9.49		357.34	358.68	337.25	338.79	
Metals and minerals, except petroleum	505	10.29	10.34	10.47	10.50		413.66	418.77	429.27	429.45	
Electrical goods	506	10.03	9.91	10.35	10.38		383.15	378.56	392.27	396.52	
Hardware, plumbing, and heating equipment	507	9.15	9.16	9.37	9.36		347.70	348.08	360.75	359.42	
Machinery, equipment, and supplies	508	10.31	10.30	10.61	10.65		401.06	400.67	413.79	414.29	
Miscellaneous durable goods	509	7.70	7.73	7.88	7.91		290.29	293.74	292.35	297.42	
Nondurable goods	51	9.38	9.37	9.55	9.55		348.94	348.56	355.26	354.31	
Paper and paper products	511	9.91	10.02	10.45	10.30		366.67	368.74	384.56	376.98	
Drugs, proprietaries, and sundries	512	10.87	10.73	10.88	10.93		402.19	400.23	406.91	404.41	
Apparel, piece goods, and notions	513	9.24	9.17	9.44	9.37		338.18	332.87	348.34	346.69	
Groceries and related products	514	9.50	9.48	9.64	9.70		358.15	355.50	363.43	363.75	
Chemicals and allied products	516	12.09	11.97	12.19	12.16		471.51	469.22	476.63	480.32	
Petroleum and petroleum products	517	9.65	9.73	9.76	9.70		375.39	377.52	381.62	375.39	
Beer, wine, and distilled beverages	518	10.75	10.97	10.99	10.85		382.70	391.63	384.65	379.75	
Miscellaneous nondurable goods	519	7.73	7.67	7.77	7.81		282.15	281.49	282.83	285.85	
Retail trade		6.09	6.08	6.25	6.24	6.25	174.78	175.71	177.50	177.84	178.75
Building materials and garden supplies	52	6.95	6.92	7.22	7.23		250.90	251.20	258.48	261.00	
Lumber and other building materials	521	7.26	7.25	7.57	7.62		275.15	276.23	283.88	288.04	
Hardware stores	525	5.88	5.88	6.10	6.14		190.51	192.28	198.86	199.55	
General merchandise stores	53	6.45	6.43	6.46	6.51		174.15	178.11	166.02	166.01	
Department stores	531	6.75	6.73	6.76	6.82		180.23	185.08	171.03	171.18	
Variety stores	533	4.80	4.81	4.82	4.86		133.92	136.60	136.41	135.59	
Misc. general merchandise stores	539	5.04	5.07	5.16	5.26		146.16	148.04	148.61	150.44	
Food stores	54	6.95	6.95	6.96	6.99		204.33	204.33	206.71	207.60	
Grocery stores	541	7.12	7.10	7.10	7.13		210.04	210.16	211.58	211.76	
Retail bakeries	546	5.49	5.53	5.75	5.84		152.07	149.86	159.28	167.02	
Automotive dealers and service stations	55	7.61	7.67	7.87	7.90		274.72	278.42	286.47	287.56	
New and used car dealers	551,2	9.18	9.31	9.46	9.49		340.58	347.26	352.86	354.93	
Auto and home supply stores	553	6.59	6.58	6.90	6.93		254.37	255.30	263.58	265.42	
Gasoline service stations	554	5.45	5.45	5.65	5.63		182.58	183.67	193.23	191.42	
Apparel and accessory stores	56	5.52	5.48	5.72	5.66		142.42	143.03	147.58	147.16	
Men's and boys' clothing and furnishings	561	6.42	6.30	6.73	6.77		186.18	183.33	195.84	194.98	
Women's ready-to-wear stores	562	5.21	5.17	5.38	5.34		128.17	130.28	129.12	129.76	
Family clothing stores	565	5.50	5.49	5.63	5.46		143.00	144.39	143.57	140.87	
Shoe stores	566	5.47	5.45	5.82	5.82		147.69	146.06	156.56	157.72	
Furniture and home furnishings stores	57	7.34	7.33	7.69	7.65		240.75	241.16	250.69	249.39	
Furniture and home furnishings stores	571	7.47	7.49	7.82	7.78		242.03	244.17	256.50	256.74	
Household appliance stores	572	7.20	7.24	7.72	7.71		240.48	241.82	257.85	254.43	
Radio, television, and music stores	573	7.18	7.09	7.45	7.40		238.38	234.68	239.15	234.58	
Eating and drinking places ⁵	58	4.40	4.39	4.52	4.51		111.76	112.38	113.00	114.10	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^a	Mar. 1988 ^a
Retail trade—Continued											
Miscellaneous retail	59	30.2	29.8	29.5	29.9						
Drug stores and proprietary stores	591	27.7	27.7	27.4	27.5						
Miscellaneous shopping goods stores	594	28.2	28.1	27.6	28.2						
Nonstore retailers	596	32.9	32.9	31.9	31.9						
Fuel and ice dealers	598	39.6	38.6	41.8	39.8						
Retail stores, nec	599	33.4	31.2	30.6	33.1						
Finance, insurance, and real estate⁵		36.4	36.3	36.3	36.4	35.7					
Banking	60	36.2	36.0	36.1	36.1						
Commercial and stock savings banks	602	36.3	36.0	36.0	36.0						
Credit agencies other than banks	61	36.6	36.6	36.5	36.8						
Savings and loan associations	612	35.9	36.0	36.0	36.0						
Personal credit institutions	614	36.3	36.2	36.5	36.8						
Insurance carriers	63	37.7	37.6	37.5	37.7						
Life insurance	631	37.2	37.0	37.1	37.4						
Medical service and health insurance	632	38.0	38.1	39.0	38.8						
Fire, marine, and casualty insurance	633	37.6	37.5	37.2	37.4						
Services		32.4	32.4	32.4	32.6	32.3					
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁵	701	30.8	30.6	30.1	31.1						
Personal services:											
Laundry, cleaning, and garment services	721	33.8	33.8	33.2	33.7						
Beauty shops ⁵	723	29.5	29.8	28.8	29.4						
Business services	73	33.4	33.4	33.6	33.6						
Advertising	731	35.8	36.0	36.8	37.1						
Services to buildings	734	28.4	28.6	28.6	28.8						
Computer and data processing services	737	37.4	37.2	37.7	37.8						
Auto repair, services, and garages	75	36.9	36.8	36.5	36.4						
Automotive repair shops	753	38.2	38.2	38.0	37.9						
Miscellaneous repair services	76	37.5	37.5	37.7	37.7						
Motion pictures	78	28.8	28.6	29.1	30.3						
Motion picture production and services	781	36.8	36.4	36.3	38.5						
Amusement and recreation services	79	28.7	28.2	27.8	28.4						
Health services	80	32.3	32.2	32.5	32.6						
Offices of physicians	801	30.8	30.7	31.3	31.5						
Offices of dentists	802	28.0	28.1	28.5	28.6						
Nursing and personal care facilities	805	31.3	31.2	31.8	31.7						
Hospitals	806	34.1	34.1	34.2	34.3						
Legal services	81	34.4	34.2	34.9	35.2						
Miscellaneous services	89	38.6	39.0	38.4	39.2						
Engineering and architectural services	891	39.4	39.5	39.1	39.4						
Accounting, auditing, and bookkeeping	893	38.4	39.2	37.7	39.7						

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.30	\$6.31	\$6.53	\$6.50		\$190.26	\$188.04	\$192.64	\$194.35	
Drug stores and proprietary stores	591	5.82	5.84	6.01	6.01		161.21	161.77	164.67	165.28	
Miscellaneous shopping goods stores	594	5.84	5.87	6.12	6.10		164.69	164.95	168.91	172.02	
Nonstore retailers	596	7.09	7.09	7.23	7.28		233.26	233.26	230.64	232.23	
Fuel and ice dealers	598	9.24	9.10	9.62	9.44		365.90	351.26	402.12	375.71	
Retail stores, nec	599	6.40	6.46	6.61	6.49		213.76	201.55	202.27	214.82	
Finance, insurance, and real estate⁶		8.75	8.72	9.00	9.07	\$9.04	318.50	316.54	326.70	330.15	\$322.73
Banking	60	7.52	7.50	7.72	7.74		272.22	270.00	278.69	279.41	
Commercial and stock savings banks	602	7.29	7.25	7.50	7.52		264.63	261.00	270.00	270.72	
Credit agencies other than banks	61	7.92	7.90	8.13	8.13		289.87	289.14	296.75	299.18	
Savings and loan associations	612	7.31	7.31	7.63	7.60		262.43	263.16	274.68	273.60	
Personal credit institutions	614	7.45	7.44	7.62	7.62		270.44	269.33	278.13	280.42	
Insurance carriers	63	9.52	9.53	9.92	10.07		358.90	358.33	372.00	379.64	
Life insurance	631	9.06	9.08	9.53	9.72		337.03	335.96	353.56	363.53	
Medical service and health insurance	632	9.52	9.44	9.53	9.66		361.76	359.66	371.67	374.81	
Fire, marine, and casualty insurance	633	9.87	9.83	10.32	10.49		371.11	368.63	383.90	392.33	
Services		8.43	8.41	8.79	8.79	8.80	273.13	272.48	284.80	286.55	284.24
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁵	701	6.14	6.07	6.34	6.34		189.11	185.74	190.83	197.17	
Personal services:											
Laundry, cleaning, and garment services	721	6.06	6.08	6.26	6.24		204.83	205.50	207.83	210.29	
Beauty shops ⁵	723	6.05	6.19	6.54	6.47		178.48	184.46	188.35	190.22	
Business services	73	8.62	8.61	9.03	9.03		287.91	287.57	303.41	303.41	
Advertising	731	11.60	11.69	12.25	12.31		415.28	420.84	450.80	456.70	
Services to buildings	734	6.59	6.60	6.76	6.71		187.16	188.76	193.34	193.25	
Computer and data processing services	737	11.96	11.99	12.49	12.49		447.30	446.03	470.87	472.12	
Auto repair, services, and garages	75	7.69	7.72	8.07	8.06		283.76	284.10	294.56	293.38	
Automotive repair shops	753	8.32	8.34	8.67	8.70		317.82	318.59	329.46	329.73	
Miscellaneous repair services	76	8.96	8.98	9.40	9.39		336.00	336.75	354.38	354.00	
Motion pictures	78	12.26	12.15	12.55	12.45		353.09	347.49	365.21	377.24	
Motion picture production and services	781	16.27	16.14	16.44	16.24		598.74	587.50	596.77	625.24	
Amusement and recreation services	79	7.42	7.40	7.79	7.64		212.95	208.68	216.56	216.98	
Health services	80	8.58	8.57	8.99	9.01		277.13	275.95	292.18	293.73	
Offices of physicians	801	8.39	8.31	8.66	8.63		258.41	255.12	271.06	271.85	
Offices of dentists	802	8.47	8.44	8.68	8.76		237.16	237.16	247.38	250.54	
Nursing and personal care facilities	805	5.90	5.90	6.18	6.20		184.67	184.08	196.52	196.54	
Hospitals	806	9.67	9.66	10.23	10.24		329.75	329.41	349.87	351.23	
Legal services	81	11.92	11.92	12.48	12.52		410.05	407.66	435.55	440.70	
Miscellaneous services	89	12.00	11.93	12.37	12.27		463.20	465.27	475.01	480.98	
Engineering and architectural services	891	12.97	12.98	13.26	13.27		511.02	512.71	518.47	522.84	
Accounting, auditing, and bookkeeping	893	10.17	10.06	10.51	10.35		390.53	394.35	396.23	410.90	

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

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

³ Publication of data for SIC 3761, and thus the 376 aggregate, has been temporarily suspended, as the series may have been inflated by the incorrect incorporation of lump-sum payments. Estimates for October 1983 forward are under review.

⁴ Data relate to line haul railroads with operating revenues of

\$50,000,000 or more.

⁵ Money payments only; tips, not included.

⁶ Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

^p = preliminary.

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

A Note on Average Hourly Earnings in Aircraft Manufacturing

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

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

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

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

payment for payroll periods in the year following the payment.

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

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

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

C-2a. Average hourly earnings in aircraft manufacturing (SIC 3721)

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average hourly earnings, excluding lump-sum payments													
1983											\$12.76	\$12.83	\$12.93
1984	\$12.91	\$12.82	\$12.88	\$12.85	\$12.81	\$12.78	\$12.87	\$12.89	\$12.87	\$12.97	13.04	13.05	13.13
1985	13.18	13.01	13.12	13.11	13.04	13.06	13.11	13.05	13.16	13.26	13.35	13.37	13.48
1986	13.48	13.38	13.44	13.46	13.45	13.38	13.42	13.41	13.44	13.48	13.52	13.67	13.65
1987	13.74	13.61	13.61	13.66	13.63	13.73	13.72	13.68	13.76	13.76	13.80	13.94	13.99
1988		13.96	^P 13.97										
Average hourly earnings, including lump-sum payments													
1983											\$12.83	\$12.92	\$13.03
1984	\$13.11	\$12.95	\$13.02	\$13.02	\$12.98	\$12.97	\$13.06	\$13.11	\$13.09	\$13.19	13.26	13.28	13.37
1985	13.40	13.26	13.36	13.33	13.26	13.27	13.33	13.29	13.39	13.48	13.54	13.57	13.68
1986	13.80	13.58	13.64	13.66	13.68	13.60	13.64	13.61	13.63	13.67	14.19	14.31	14.26
1987	14.32	14.21	^P 14.25	14.29	14.36	14.42	14.39	14.37	14.43	14.39	14.13	14.26	14.31
1988		14.28	^P 14.30										

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ^p	Mar. 1988 ^p
Manufacturing	\$9.44	\$9.44	\$9.63	\$9.64	\$9.65
Durable goods	9.96	9.95	10.15	10.15	10.17
Lumber and wood products	7.96	7.92	8.19	8.20	(?)
Furniture and fixtures	7.34	7.34	7.56	7.54	(?)
Stone, clay, and glass products	9.62	9.59	9.85	9.81	(?)
Primary metal industries	11.18	11.21	11.41	11.40	(?)
Fabricated metal products	9.57	9.56	9.70	9.72	(?)
Machinery, except electrical	10.22	10.25	10.38	10.36	(?)
Electrical and electronic equipment	9.51	9.51	9.65	9.68	(?)
Transportation equipment	12.26	12.23	12.54	12.58	(?)
Instruments and related products	9.35	9.34	9.59	9.62	(?)
Miscellaneous manufacturing	7.45	7.44	7.73	7.68	(?)
Nondurable goods	8.72	8.72	8.90	8.92	\$8.93
Food and kindred products	8.54	8.56	8.60	8.67	(?)
Tobacco manufactures	13.25	13.45	13.16	13.49	(?)
Textile mill products	6.76	6.76	7.00	6.97	(?)
Apparel and other textile products	5.79	5.79	5.89	5.88	(?)
Paper and allied products	10.67	10.68	10.88	10.90	(?)
Printing and publishing	9.79	9.79	10.01	10.03	(?)
Chemicals and allied products	11.68	11.70	11.98	11.98	(?)
Petroleum and coal products	13.79	13.71	14.04	14.13	(?)
Rubber and misc. plastics products	8.41	8.41	8.54	8.56	(?)
Leather and leather products	5.88	5.92	5.96	6.01	(?)

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

² Not available.

^p = preliminary.

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

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

C-4. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.

Industry	Average hourly earnings					Average weekly earnings				
	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ²	Mar. 1988 ²	Feb. 1987	Mar. 1987	Jan. 1988	Feb. 1988 ²	Mar. 1988 ²
Total private:										
Current dollars	\$8.92	\$8.92	\$9.18	\$9.18	\$9.20	\$307.74	\$308.63	\$315.79	\$316.71	\$316.48
Constant (1977) dollars	4.92	4.90	4.88	4.87	(³)	169.74	169.48	167.97	168.19	(³)
Mining:										
Current dollars	12.56	12.51	12.69	12.62	\$12.58	527.52	522.92	531.71	523.73	\$517.04
Constant (1977) dollars	6.93	6.87	6.75	6.70	(³)	290.97	287.16	282.82	278.14	(³)
Construction:										
Current dollars	12.51	12.59	12.93	12.76	\$12.82	460.37	470.87	465.48	461.91	\$482.03
Constant (1977) dollars	6.90	6.92	6.88	6.78	(³)	253.93	258.58	247.60	245.31	(³)
Manufacturing:										
Current dollars	9.84	9.85	10.07	10.06	\$10.08	401.47	402.87	412.87	409.44	\$412.27
Constant (1977) dollars	5.43	5.41	5.36	5.34	(³)	221.44	221.24	219.61	217.44	(³)
Transportation and public utilities:										
Current dollars	11.93	11.90	12.11	12.17	\$12.16	465.27	462.91	471.08	472.20	\$469.38
Constant (1977) dollars	6.58	6.53	6.44	6.46	(³)	256.63	254.21	250.57	250.77	(³)
Wholesale trade:										
Current dollars	9.55	9.53	9.79	9.80	\$9.82	361.95	361.19	372.02	372.40	\$371.20
Constant (1977) dollars	5.27	5.23	5.21	5.20	(³)	199.64	198.35	197.88	197.77	(³)
Retail trade:										
Current dollars	6.09	6.08	6.25	6.24	\$6.25	174.78	175.71	177.50	177.84	\$178.75
Constant (1977) dollars	3.36	3.34	3.32	3.31	(³)	96.40	96.49	94.41	94.45	(³)
Finance, insurance, and real estate:										
Current dollars	8.75	8.72	9.00	9.07	\$9.04	318.50	316.54	326.70	330.15	\$322.73
Constant (1977) dollars	4.83	4.79	4.79	4.82	(³)	175.68	173.83	173.78	175.33	(³)
Services:										
Current dollars	8.43	8.41	8.79	8.79	\$8.80	273.13	272.48	284.80	286.55	\$284.24
Constant (1977) dollars	4.65	4.62	4.68	4.67	(³)	150.65	149.63	151.49	152.18	(³)

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

² Not available.
³ = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1986 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1986 forward are subject to revision.

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

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

Industry	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	Mar. ^P
Total private	34.8	34.7	34.9	34.8	34.8	34.9	34.6	34.9	34.9	34.6	34.8	34.8	34.6
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Manufacturing	40.9	40.6	41.0	41.0	41.0	41.0	40.6	41.3	41.2	41.0	41.2	41.0	40.9
<i>Overtime hours</i>	3.6	3.5	3.8	3.7	3.8	3.8	3.6	4.0	3.9	3.8	3.9	3.7	3.7
Durable goods	41.5	41.2	41.6	41.5	41.6	41.6	41.0	41.9	41.9	41.5	41.7	41.5	41.5
<i>Overtime hours</i>	3.7	3.6	3.9	3.8	3.8	4.0	3.7	4.1	4.0	3.9	4.0	3.8	3.8
Lumber and wood products	40.9	40.6	41.0	40.6	40.6	40.4	39.4	40.4	40.8	40.4	40.1	40.4	40.0
Furniture and fixtures	40.0	39.1	39.9	40.0	40.0	40.1	39.3	40.0	40.0	39.8	39.4	39.5	39.0
Stone, clay, and glass products	42.5	41.9	42.3	42.0	42.2	42.1	41.9	42.6	42.5	42.5	42.0	42.3	42.6
Primary metal industries	42.6	42.3	43.1	43.1	43.4	43.5	43.4	43.7	43.7	43.6	43.5	43.2	43.3
Blast furnaces and basic steel products ..	42.3	42.4	43.3	43.5	44.1	44.0	45.2	44.3	44.0	44.3	44.0	44.0	43.8
Fabricated metal products	41.5	41.2	41.6	41.5	41.4	41.5	40.8	42.0	42.1	41.7	41.9	41.4	41.5
Machinery, except electrical	42.0	41.8	42.2	42.2	42.4	42.2	41.6	42.6	42.7	42.5	42.8	42.6	42.4
Electrical and electronic equipment	40.9	40.6	40.8	41.1	41.1	41.0	40.4	41.1	41.0	40.9	41.2	40.9	41.1
Transportation equipment	42.3	41.9	42.2	41.9	41.7	41.9	41.3	42.5	42.4	41.4	42.3	42.0	42.0
Motor vehicles and equipment	42.9	42.1	42.5	42.0	41.9	41.9	41.3	43.0	43.1	41.4	42.4	42.5	42.6
Instruments and related products	41.3	41.0	41.5	41.5	41.6	41.7	41.1	42.1	41.7	41.3	41.9	41.3	41.2
Miscellaneous manufacturing	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Nondurable goods	40.1	39.7	40.2	40.2	40.3	40.3	40.1	40.5	40.4	40.3	40.4	40.2	40.1
<i>Overtime hours</i>	3.5	3.3	3.7	3.6	3.7	3.7	3.6	3.8	3.8	3.7	3.8	3.6	3.5
Food and kindred products	40.0	39.8	40.1	40.1	39.9	40.3	40.2	40.5	40.6	40.6	40.8	40.4	40.2
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	42.1	41.4	42.0	42.1	42.4	42.1	41.3	41.9	41.8	41.7	41.7	41.7	41.3
Apparel and other textile products	37.0	36.1	37.2	37.1	37.3	37.4	36.3	37.4	37.1	37.2	36.9	37.0	37.0
Paper and allied products	43.0	43.0	43.5	43.3	43.5	43.4	43.8	43.7	43.5	43.2	43.6	43.3	43.3
Printing and publishing	37.9	37.7	37.9	38.1	38.1	37.9	38.2	38.0	38.0	37.9	38.0	38.0	38.1
Chemicals and allied products	42.0	42.2	42.1	42.0	42.2	42.4	42.8	42.7	42.7	42.7	42.7	42.5	42.5
Petroleum and coal products	44.1	43.9	44.3	43.3	44.4	43.3	43.2	43.5	43.6	44.3	44.2	43.4	43.5
Rubber and misc. plastics products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Leather and leather products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Transportation and public utilities	39.0	39.0	39.2	38.8	39.2	39.3	39.1	39.3	39.1	39.0	39.4	39.0	38.6
Wholesale trade	38.1	38.2	38.3	38.2	38.1	38.3	38.0	38.4	38.3	38.1	38.2	38.3	38.0
Retail trade	29.3	29.5	29.4	29.2	29.3	29.6	29.6	29.3	29.2	28.8	29.0	29.1	28.9
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.5	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.6	32.4	32.6	32.8	32.4

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

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

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

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

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers ¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(1977=100)

Industry	1987											1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^P	Mar. ^P	
Total private	119.6	119.6	120.2	120.0	120.6	121.2	120.4	121.9	122.2	121.8	122.4	123.4	122.9	
Goods-producing	98.9	98.0	99.2	98.9	99.5	99.7	97.7	101.3	101.4	101.6	100.6	101.5	102.1	
Mining	80.0	81.3	83.4	83.5	85.0	85.2	84.9	87.7	86.4	85.8	82.7	83.6	83.6	
Construction	135.5	132.8	134.3	132.6	133.2	133.6	124.9	136.8	136.1	138.5	130.5	137.2	142.3	
Manufacturing	92.8	92.1	93.1	93.1	93.6	93.8	93.1	95.0	95.4	95.2	95.6	95.4	95.3	
Durable goods	90.2	89.6	90.5	90.5	90.6	91.2	90.1	92.6	93.0	92.6	93.0	92.8	92.7	
Lumber and wood products	102.5	102.0	103.2	101.7	102.4	101.2	99.2	101.7	104.2	103.7	102.6	103.5	101.7	
Furniture and fixtures	107.9	105.7	109.0	109.5	111.6	111.7	109.7	112.7	113.3	113.5	112.6	112.6	111.2	
Stone, clay, and glass products	87.5	86.3	86.9	86.1	86.1	86.1	85.9	87.7	88.1	88.7	86.7	87.5	88.1	
Primary metal industries	61.9	62.1	63.1	63.5	64.4	65.0	65.9	66.8	67.3	67.1	66.6	66.5	66.7	
Blast furnaces and basic steel products	47.7	49.6	50.7	51.4	52.6	53.0	55.2	54.9	55.0	55.1	54.8	55.3	54.8	
Fabricated metal products	88.9	88.4	89.0	89.1	89.0	89.4	88.2	91.3	92.2	91.7	92.2	91.4	91.7	
Machinery, except electrical	84.7	84.8	86.0	86.5	87.0	87.4	86.7	89.3	90.1	90.1	91.3	91.1	91.4	
Electrical and electronic equipment	99.9	99.0	99.4	99.9	100.6	100.8	99.3	102.0	102.0	102.7	103.1	102.5	103.2	
Transportation equipment	98.2	96.6	97.3	96.6	94.3	97.4	95.2	97.8	97.3	94.9	96.4	95.6	95.3	
Motor vehicles and equipment	88.0	85.6	86.1	85.1	81.5	86.1	83.3	86.9	86.7	83.0	83.8	83.9	84.2	
Instruments and related products	101.7	101.0	102.0	102.2	103.0	103.0	102.1	105.1	104.6	103.6	105.7	105.0	104.7	
Miscellaneous manufacturing	81.1	79.9	81.0	81.4	81.9	82.3	80.7	82.7	82.5	82.0	82.8	83.9	82.1	
Nondurable goods	96.5	95.7	97.0	97.0	98.1	97.7	97.4	98.7	99.0	99.2	99.6	99.3	99.1	
Food and kindred products	99.4	99.3	99.6	99.3	99.6	99.5	99.1	100.3	101.4	101.4	103.2	102.3	101.2	
Tobacco manufactures	77.7	77.3	80.1	76.3	73.1	71.0	72.4	73.8	75.4	78.5	78.9	76.7	70.1	
Textile mill products	82.9	81.3	82.9	83.3	84.8	83.7	82.4	83.7	83.8	83.6	83.3	83.7	82.8	
Apparel and other textile products	85.3	83.5	85.8	85.9	88.2	86.6	84.8	87.8	87.6	87.3	86.4	86.5	86.3	
Paper and allied products	99.7	99.5	100.5	100.0	100.8	100.4	101.9	101.3	101.0	100.5	101.5	101.2	101.2	
Printing and publishing	129.4	128.7	130.0	131.1	131.4	131.4	132.6	132.3	133.0	133.1	134.4	135.3	136.1	
Chemicals and allied products	93.1	93.4	93.7	92.8	94.5	95.5	96.4	96.3	97.0	97.8	97.8	97.5	97.9	
Petroleum and coal products	83.3	82.9	84.5	83.4	84.7	83.4	83.2	84.5	83.9	86.9	85.9	84.3	84.5	
Rubber and misc. plastics products	113.5	112.6	114.5	114.8	115.0	115.5	115.5	118.4	119.3	119.8	120.2	119.4	119.7	
Leather and leather products	57.8	57.4	59.5	59.7	62.2	61.4	60.0	61.1	60.2	60.2	60.2	59.7	60.3	
Service-producing	131.0	131.5	131.9	131.7	132.3	133.1	132.9	133.3	133.6	133.0	134.4	135.5	134.4	
Transportation and public utilities	107.7	107.9	108.5	107.6	109.0	109.7	109.9	110.9	110.7	110.5	112.0	111.2	110.5	
Wholesale trade	116.9	117.4	117.7	117.6	117.5	118.2	117.3	118.8	119.0	118.8	119.6	120.3	119.9	
Retail trade	120.3	121.6	121.2	120.4	121.2	122.4	122.5	121.9	121.6	120.1	122.0	123.0	122.0	
Finance, insurance, and real estate	141.5	142.0	142.5	142.7	142.0	143.0	141.4	142.2	142.9	141.1	143.1	143.0	140.7	
Services	150.2	150.3	151.2	151.7	152.5	152.9	152.9	153.5	154.6	154.5	155.7	157.9	156.6	

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.

^P = preliminary.

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

**ESTABLISHMENT DATA
EARNINGS
SEASONALLY ADJUSTED**

C-7. The Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1987										1988		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^p	Mar. ^p
Hourly Earnings Index ² (1977=100)													
Total private (in current dollars)	172.2	172.6	172.9	172.9	173.2	174.1	174.6	174.9	175.8	175.7	176.4	176.5	177.1
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	153.8	153.7	154.1	155.0	154.3	154.7	154.0	154.7	156.6	154.4	157.1	155.8	156.8
Manufacturing	174.3	175.0	174.4	174.7	174.7	175.5	176.7	176.3	176.6	176.9	176.9	177.5	177.8
Transportation and public utilities	174.6	175.2	176.2	175.6	176.4	177.0	176.6	176.9	177.1	177.4	176.9	177.7	178.4
Wholesale trade	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Retail trade	159.0	159.8	160.2	160.3	160.9	161.5	162.7	162.2	162.3	162.7	163.1	162.8	163.3
Finance, insurance, and real estate	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Services	179.0	179.4	179.9	179.9	180.5	182.4	182.3	183.9	185.2	185.1	186.4	186.0	187.3
Total private (in constant dollars) ⁴	94.4	94.2	94.0	93.8	93.7	93.7	93.8	93.6	93.8	93.6	93.7	93.6	(^q)
Average hourly earnings													
Total private	\$8.91	\$8.91	\$8.95	\$8.94	\$8.96	\$9.02	\$9.02	\$9.08	\$9.12	\$9.11	\$9.15	\$9.13	\$9.19
Mining	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)	(^q)
Construction	\$12.62	\$12.61	\$12.65	\$12.72	\$12.67	\$12.71	\$12.67	\$12.68	\$12.84	\$12.65	\$12.87	\$12.73	\$12.85
Manufacturing	9.83	9.86	9.88	9.88	9.87	9.93	10.02	10.00	10.01	10.02	10.02	10.03	10.05
Transportation and public utilities	11.92	11.96	12.05	11.97	12.04	12.08	12.04	12.09	12.09	12.10	12.07	12.12	12.17
Wholesale trade	9.53	9.52	9.59	9.58	9.59	9.68	9.65	9.72	9.75	9.69	9.77	9.75	9.82
Retail trade	6.05	6.08	6.09	6.10	6.11	6.13	6.19	6.16	6.17	6.21	6.21	6.19	6.22
Finance, insurance, and real estate	8.67	8.69	8.74	8.68	8.74	8.88	8.79	8.85	8.97	8.84	8.99	8.98	8.98
Services	8.38	8.39	8.41	8.40	8.44	8.54	8.53	8.60	8.67	8.65	8.72	8.70	8.76
Average weekly earnings													
Total private:													
In current dollars	310.07	309.18	312.36	311.11	311.81	314.80	312.09	316.89	318.29	315.21	318.42	317.72	317.97
In constant (1977) dollars ⁵	169.99	168.67	169.85	168.71	168.64	169.43	167.61	169.55	169.94	168.02	169.10	168.46	(^q)

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

² Excludes the effects of two types of changes that are unrelated to underlying wage rate movements: Fluctuations in overtime in manufacturing and interindustry employment shifts.

³ These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision.

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

⁵ Not available.

^p = preliminary.

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

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Alabama	41.3	41.4	40.7	\$8.68	\$8.99	\$8.99	\$358.48	\$372.19	\$365.89
Birmingham	41.4	41.1	41.0	8.84	9.18	9.21	365.98	377.30	377.81
Mobile	42.1	40.8	40.8	10.11	10.39	10.61	425.63	423.91	432.89
Alaska	40.2	37.6	38.7	12.69	12.25	11.82	510.14	460.60	457.43
Arizona	40.6	40.7	40.7	10.00	9.75	9.73	406.00	396.83	396.01
Arkansas	39.9	41.3	40.9	7.86	8.08	8.01	313.61	333.70	327.61
Fayetteville-Springdale	40.1	43.8	42.6	6.88	7.28	7.24	275.89	318.86	308.42
Fort Smith	39.8	40.0	41.8	8.36	8.65	8.59	332.73	346.00	359.06
Little Rock-North Little Rock	41.0	41.1	40.4	8.53	8.74	8.60	349.73	359.21	347.44
Pine Bluff	42.6	43.1	42.0	10.86	10.74	10.63	462.64	462.89	446.46
California	40.1	(¹)	(¹)	10.70	(¹)	(¹)	429.07	(¹)	(¹)
Colorado	40.2	39.7	39.8	10.00	10.17	10.22	402.00	403.75	406.76
Denver	38.5	39.2	39.3	10.78	10.42	10.51	415.03	408.46	413.04
Connecticut	42.0	42.3	41.6	10.27	10.67	10.72	431.34	451.34	445.95
Bridgeport-Milford	42.0	42.5	42.4	10.76	11.25	11.22	451.92	478.13	475.73
Hartford	42.3	43.0	42.6	10.58	10.94	10.99	447.53	470.42	468.17
New Britain	43.0	(²)	(²)	10.65	(²)	(²)	457.95	(²)	(²)
New Haven-Meriden	41.5	39.9	40.3	9.98	\$10.17	\$10.16	414.17	\$405.78	\$409.45
Stamford	40.6	39.7	40.2	11.18	11.91	11.80	453.91	472.83	474.36
Waterbury	42.5	44.0	42.2	8.93	9.20	9.28	379.53	404.80	391.62
Delaware	40.9	40.0	40.2	10.59	10.58	10.65	433.13	423.20	428.13
Wilmington	41.6	40.6	41.2	12.52	13.03	12.94	520.83	529.02	533.13
District of Columbia:									
Washington MSA	38.8	39.1	39.0	10.63	10.87	10.82	412.44	425.02	421.98
Florida	40.9	41.0	40.8	8.11	8.23	8.23	331.70	337.43	335.78
Fort Lauderdale-Hollywood-Pompano Beach	42.8	41.5	41.6	7.85	8.28	8.27	335.98	343.62	344.03
Jacksonville	40.8	41.3	40.8	8.85	9.13	9.01	361.08	377.07	367.61
Lakeland-Winter Haven	40.4	(²)	(²)	7.93	(²)	(²)	320.37	(²)	(²)
Miami-Hialeah	39.3	39.7	40.0	6.99	\$7.07	\$7.18	274.71	\$280.68	\$287.20
Orlando	41.0	41.5	41.0	8.44	8.55	8.63	346.04	354.83	353.83
Pensacola	41.2	39.8	39.3	10.38	10.77	10.83	427.66	428.65	425.62
Tampa-St. Petersburg-Clearwater	40.4	40.4	40.5	7.50	7.79	7.85	303.00	314.72	317.93
West Palm Beach-Boca Raton-DeLray Beach	43.2	43.3	42.8	9.15	9.34	9.40	395.28	404.42	402.32
Georgia	41.2	41.3	41.6	8.42	8.64	8.54	346.90	356.83	355.26
Atlanta	41.1	41.6	41.9	9.99	10.08	10.07	410.59	421.34	421.93
Savannah	44.1	44.5	47.6	10.65	11.18	11.16	469.67	497.51	531.22
Hawaii	39.3	39.9	40.6	9.16	9.51	9.62	359.99	379.45	390.57
Honolulu	39.5	38.8	40.0	9.35	9.63	9.75	369.33	373.64	390.00
Idaho	38.0	38.8	37.2	9.60	9.96	9.79	364.80	386.45	364.19
Illinois	41.5	42.0	41.9	10.79	11.04	11.06	447.79	463.68	463.41
Aurora-Elgin	41.7	41.8	41.9	10.27	10.57	10.57	428.26	441.83	442.88
Bloomington-Normal	40.3	41.2	40.0	10.64	10.90	11.11	428.79	449.08	444.40
Champaign-Urbana-Rantoul	40.0	43.6	40.7	9.55	9.43	9.39	382.00	411.15	382.17
Chicago	41.9	43.0	42.3	10.57	10.66	10.66	442.88	458.38	450.92
Davenport-Rock Island-Moline	39.7	40.0	39.9	12.76	12.84	12.72	506.57	513.60	507.53
Decatur	40.2	42.8	42.8	13.97	14.07	14.12	561.59	602.20	601.51
Joliet	41.2	41.7	41.4	11.54	11.87	11.90	475.45	494.98	492.66
Kankakee	41.5	(²)	(²)	9.92	(²)	(²)	411.68	(²)	(²)
Lake County	39.7	41.8	41.3	10.81	\$11.27	\$11.16	429.16	\$471.09	\$460.91
Peoria	42.3	46.5	46.8	12.94	13.43	13.43	547.36	824.50	628.52
Rockford	42.4	42.7	42.9	11.13	11.91	11.79	471.91	508.56	505.79
Springfield	40.8	42.1	40.6	11.55	11.50	11.29	468.93	484.15	458.37

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		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Indiana	41.5	42.2	40.9	\$10.99	\$11.32	\$11.28	\$456.09	\$477.70	\$461.35
Iowa	40.6	42.1	41.6	10.58	10.60	10.55	429.55	446.26	438.88
Cedar Rapids	38.4	41.4	40.2	11.45	11.84	11.73	439.68	490.18	471.55
Des Moines	42.2	42.6	43.2	11.65	11.81	12.04	491.63	503.11	520.13
Dubuque	42.3	41.9	41.1	12.81	11.92	11.99	541.86	499.45	492.79
Sioux City	38.7	37.6	38.0	8.88	8.31	8.39	343.66	312.46	318.82
Kansas	40.7	40.8	40.3	10.07	10.02	10.05	409.85	408.82	405.02
Topeka	40.9	43.9	43.0	11.07	11.35	11.75	452.76	498.27	505.25
Wichita	39.0	40.6	40.7	10.85	10.49	10.38	423.15	425.89	422.47
Kentucky	39.9	41.0	39.8	9.89	10.10	10.09	394.61	414.10	401.58
Lexington-Fayette	39.3	40.5	40.2	10.53	10.35	10.19	413.83	419.18	409.64
Louisville	40.9	42.3	41.1	11.11	11.74	11.65	454.40	496.60	478.82
Louisiana	41.7	42.3	42.1	10.93	10.88	10.83	455.78	460.22	455.94
Baton Rouge	42.0	43.4	43.1	11.87	12.57	12.50	498.54	545.54	538.75
New Orleans	40.3	40.9	40.4	10.68	10.59	10.54	430.40	433.13	425.82
Shreveport	42.1	39.5	40.6	12.01	11.45	11.34	505.62	452.28	460.40
Maine	41.2	41.0	40.0	8.72	8.87	8.90	359.26	363.67	356.00
Lewiston-Auburn	40.3	40.4	39.0	7.39	7.72	7.82	297.82	311.89	304.98
Portland	38.4	42.0	39.9	9.41	9.01	9.47	361.34	378.42	377.85
Maryland	40.5	40.7	40.2	9.98	10.24	10.23	404.19	416.77	411.25
Baltimore MSA	42.1	41.6	41.5	10.75	11.02	11.03	452.58	458.43	457.75
Massachusetts	40.5	41.4	40.5	9.56	10.03	10.10	387.18	415.24	409.05
Boston	40.3	40.7	41.4	10.42	10.87	10.93	419.93	442.41	452.50
Springfield	42.1	42.7	42.1	9.02	9.44	9.52	379.74	403.09	400.79
Worcester	40.7	40.5	39.4	9.60	10.24	10.20	390.72	414.72	401.88
Michigan	42.9	42.4	42.2	12.96	13.25	13.25	555.98	561.80	559.15
Ann Arbor	45.9	45.9	44.3	14.14	14.23	14.09	649.03	653.16	624.19
Battle Creek	43.0	43.3	41.7	13.54	14.17	14.08	582.22	613.56	587.14
Detroit	44.4	43.7	43.3	13.76	14.30	14.27	610.94	624.91	617.89
Flint	43.6	41.1	41.2	14.84	16.59	16.53	647.02	681.85	681.04
Grand Rapids	40.4	40.7	40.4	10.92	11.21	11.22	441.17	456.25	453.29
Jackson	42.4	(²)	(²)	9.89	(²)	(²)	419.34	(²)	(²)
Kalamazoo	44.0	42.6	42.8	12.08	\$12.25	\$12.30	531.52	\$521.85	\$526.44
Lansing-East Lansing	42.8	37.9	40.0	14.21	14.55	14.57	608.19	551.44	582.80
Muskegon	41.0	41.5	41.1	11.56	12.01	12.16	473.96	498.41	499.78
Saginaw-Bay City-Midland	42.9	43.4	42.2	14.34	14.66	14.99	615.19	636.24	632.58
Minnesota	40.6	40.4	40.6	10.33	10.44	10.47	419.40	421.78	425.08
Duluth	37.2	36.9	38.8	10.76	10.85	10.78	400.27	400.37	418.26
Minneapolis-St. Paul	40.6	40.7	40.9	11.08	11.09	11.11	449.85	451.36	454.40
St. Cloud	38.8	38.7	40.5	8.96	9.75	9.43	347.65	377.33	381.92
Mississippi	40.1	40.3	39.5	7.55	7.73	7.75	302.76	311.52	306.13
Jackson	40.3	41.8	40.6	8.53	8.68	8.71	343.76	362.82	353.63
Missouri	40.3	40.9	40.1	10.03	10.02	10.07	404.21	409.82	403.81
Kansas City	39.2	40.7	39.5	11.47	11.48	11.42	449.62	467.24	451.09
St. Joseph	40.2	(²)	(²)	9.99	(²)	(²)	401.60	(²)	(²)
St. Louis	42.0	41.2	41.0	11.53	\$11.59	\$11.64	484.26	\$477.51	\$477.24
Springfield	39.0	39.9	39.1	8.74	8.53	8.51	340.86	340.35	332.74
Montana	38.0	40.0	39.9	10.52	10.45	10.63	399.76	418.00	424.14
Nebraska	39.9	40.7	39.9	9.32	9.48	9.46	371.87	385.84	377.45
Lincoln	41.5	41.5	41.1	9.78	10.22	10.12	405.87	424.13	415.93
Omaha	39.8	42.0	40.7	9.88	10.20	10.21	393.22	428.40	415.55
Nevada	39.9	39.6	39.9	9.63	9.80	9.92	384.24	388.08	395.81
Las Vegas	40.0	38.9	40.3	12.01	12.62	12.25	480.40	490.92	493.68

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		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
New Hampshire	41.5	40.9	39.0	\$9.06	\$9.47	\$9.49	\$375.99	\$387.32	\$370.11
Nashua	42.2	40.3	39.1	11.25	11.67	11.70	474.75	470.30	457.47
New Jersey	41.2	41.2	41.2	10.27	10.77	10.80	423.12	443.72	444.96
New Mexico	39.2	40.8	40.7	8.61	8.91	8.77	337.51	363.53	356.94
Albuquerque	39.8	40.5	40.2	9.11	9.47	9.40	362.58	383.54	377.88
New York	39.9	39.6	39.7	10.09	10.21	10.25	402.59	404.32	406.93
Albany-Schenectady-Troy	40.3	40.1	40.3	10.62	10.78	10.90	427.99	432.28	439.27
Binghamton	40.0	40.8	40.8	9.18	9.38	9.50	367.20	382.70	387.60
Buffalo	42.4	43.5	42.6	12.09	11.96	12.05	512.62	520.26	513.33
Elmira	40.2	40.9	42.1	9.57	9.71	9.66	384.71	397.14	406.69
Glens Falls	(¹)	(²)	(²)	(¹)	(²)	(²)	(¹)	(²)	(²)
Nassau-Suffolk	40.3	39.0	39.5	10.52	\$10.69	\$10.91	423.96	\$416.91	\$430.95
New York PMSA	37.7	37.0	37.3	9.40	9.62	9.70	354.38	355.94	361.81
New York City	37.4	36.7	37.0	9.23	9.45	9.44	345.20	346.82	349.28
Niagara Falls	41.3	42.4	42.0	12.94	13.31	13.28	534.42	584.34	557.76
Orange County	39.2	39.1	37.7	7.86	7.91	7.97	308.11	309.28	300.47
Poughkeepsie	42.7	41.2	40.8	9.13	9.66	9.78	389.85	397.99	399.02
Rochester	41.6	42.2	42.0	11.92	12.36	12.29	495.87	521.59	516.18
Rockland County	41.1	37.5	37.3	10.12	10.38	10.48	415.93	389.25	390.90
Syracuse	40.9	41.7	41.5	11.17	11.54	11.77	456.85	481.22	488.46
Utica-Rome	41.7	41.1	41.0	9.61	9.64	9.63	400.74	396.20	394.83
Westchester County	38.9	40.1	39.8	10.60	10.74	11.46	412.34	430.67	456.11
North Carolina	40.8	40.5	40.6	7.75	8.07	7.99	316.20	326.84	324.39
Asheville	40.3	41.8	41.2	7.80	8.08	8.04	314.34	337.74	331.25
Charlotte-Gastonia-Rock Hill	42.0	41.1	41.1	7.99	8.31	8.21	335.58	341.54	337.43
Greensboro-Winston-Salem-High Point	40.5	39.6	40.5	8.57	8.98	8.83	347.09	355.61	357.62
Raleigh-Durham	40.7	41.3	42.1	8.77	9.14	9.11	356.94	377.48	383.53
North Dakota	38.5	37.7	38.7	8.41	8.37	8.29	323.79	315.55	320.82
Fargo-Moorhead	36.1	36.4	38.3	8.37	8.26	8.31	302.16	300.66	318.27
Ohio	42.4	42.8	42.5	11.77	11.86	11.88	499.05	507.61	504.90
Akron	42.5	43.2	43.1	11.46	11.34	11.42	487.05	489.89	492.20
Canton	42.0	(²)	(²)	11.35	(²)	(²)	476.70	(²)	(²)
Cincinnati	42.4	43.1	42.3	11.02	\$11.16	\$11.14	467.25	\$481.00	\$471.22
Cleveland	42.3	43.0	42.8	11.67	11.71	11.64	493.64	503.53	498.19
Columbus	40.9	41.4	41.5	11.34	11.32	11.47	463.81	468.65	476.01
Dayton-Springfield	42.2	42.2	42.4	11.98	12.02	12.14	505.56	507.24	514.74
Toledo	43.2	43.7	41.5	12.68	13.10	12.84	547.78	572.47	532.86
Youngstown-Warren	43.1	41.8	41.5	13.46	13.34	13.38	580.13	557.61	555.27
Oklahoma	41.5	41.2	41.1	9.84	10.36	10.21	408.36	426.83	419.63
Oklahoma City	40.5	41.1	40.9	11.03	11.50	11.31	446.72	472.65	462.58
Tulsa	40.2	41.9	41.1	10.51	11.01	10.88	422.50	461.32	447.17
Oregon	39.6	39.9	40.0	10.58	10.69	10.71	418.97	426.53	428.40
Eugene-Springfield	41.2	41.5	42.3	10.49	10.51	10.54	432.19	436.17	445.84
Portland	38.5	40.4	39.7	10.93	10.83	10.90	420.81	437.53	432.73
Salem	37.5	38.0	38.3	9.47	9.58	9.49	355.13	364.04	363.47

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		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
Pennsylvania	40.5	40.9	40.8	\$9.84	\$10.17	\$10.15	\$398.52	\$415.95	\$414.12
Allentown-Bethlehem	39.5	38.4	39.4	10.28	10.39	10.34	406.06	398.98	407.40
Altoona	38.9	39.7	41.1	8.72	8.64	8.54	339.21	343.01	350.99
Beaver County	41.8	41.6	42.5	11.06	10.89	10.79	462.31	453.02	458.58
Erie	41.5	43.1	43.2	10.25	10.32	10.34	425.38	444.79	446.69
Harrisburg-Lebanon-Carlisle	40.1	39.9	39.5	9.33	9.59	9.45	374.13	382.64	373.28
Johnstown	38.4	40.1	40.1	8.35	8.64	8.63	320.64	346.46	346.06
Lancaster	40.3	40.3	40.4	9.64	9.92	9.88	388.49	399.78	399.15
Philadelphia PMSA	40.5	40.1	40.5	10.68	11.02	10.99	432.54	441.90	445.10
Pittsburgh	42.1	42.5	42.7	10.99	11.27	11.35	482.68	478.98	484.65
Reading	41.0	41.3	40.7	9.92	10.64	10.47	406.72	439.43	426.13
Scranton-Wilkes-Barre	38.5	38.4	38.2	8.64	8.84	8.79	332.64	339.46	335.78
Sharon	40.2	(²)	(²)	11.20	(²)	(²)	450.24	(²)	(²)
State College	39.1	(²)	(²)	8.23	(²)	(²)	321.79	(²)	(²)
Williamsport	40.4	41.1	40.2	8.56	\$8.66	\$8.69	345.82	\$355.93	\$349.34
York	42.4	43.0	42.5	9.35	9.56	9.66	396.44	411.08	410.55
Rhode Island	39.6	40.1	39.8	8.04	8.40	8.36	318.38	336.84	332.73
Pawtucket-Woonsocket-Attleboro	40.8	40.6	40.5	7.55	7.92	7.91	308.04	321.55	320.36
Providence	39.5	39.6	39.5	8.14	8.39	8.35	321.53	332.24	329.83
South Carolina	41.6	41.2	41.7	8.05	8.25	8.25	334.88	339.90	344.02
Charleston	42.9	40.7	41.1	9.24	8.97	9.07	396.40	365.08	372.78
Columbia	41.2	41.1	41.1	7.83	8.13	8.18	322.60	334.14	336.20
Greenville-Spartanburg	41.7	40.7	42.1	7.95	8.18	8.23	331.52	332.93	346.48
South Dakota	42.1	40.6	42.0	7.99	8.10	8.06	336.38	328.86	338.52
Sioux Falls	43.3	42.6	44.3	8.09	8.10	8.33	350.30	345.06	369.02
Tennessee	41.7	42.6	40.9	8.76	8.92	8.81	365.29	379.99	360.33
Chattanooga	42.6	43.3	42.9	7.83	7.83	7.74	333.56	339.04	332.05
Johnson City-Kingsport-Bristol	44.7	43.9	43.3	9.22	9.44	9.29	412.13	414.42	402.26
Knoxville	39.8	42.1	40.6	9.08	9.15	9.07	361.38	385.22	368.24
Memphis	43.1	43.0	40.5	8.79	9.26	8.90	378.85	398.18	360.45
Nashville	42.9	41.7	39.5	9.99	10.41	10.27	428.57	434.10	405.67
Texas	41.1	41.7	41.2	9.75	9.96	9.89	400.73	415.33	407.47
Dallas	41.4	40.7	40.9	9.59	9.84	9.81	397.03	400.49	401.23
Ft. Worth-Arlington	41.0	41.1	40.3	9.68	10.95	10.91	396.88	450.05	439.67
Houston	43.4	43.7	43.1	11.17	11.26	11.18	484.78	492.06	481.86
San Antonio	41.1	39.2	40.1	7.70	7.56	7.54	316.47	296.35	302.35
Utah	38.7	40.0	39.9	9.84	9.91	9.80	380.81	396.40	391.02
Salt Lake City-Ogden	39.1	40.2	40.7	9.80	10.06	9.85	383.18	404.41	400.90
Vermont	40.5	40.1	40.1	8.92	9.20	9.24	361.26	368.92	370.52
Burlington	41.4	40.5	40.5	9.90	9.63	9.62	409.86	390.02	389.61
Virginia	40.6	40.8	40.4	9.07	9.30	9.29	368.24	379.44	375.32
Bristol	42.5	43.4	43.3	7.78	8.09	7.87	330.65	351.11	340.77
Charlottesville	41.1	40.3	40.7	7.38	7.45	7.45	303.32	300.24	303.22
Danville	42.4	40.8	41.4	8.03	8.70	8.59	340.47	354.96	355.63
Lynchburg	41.3	41.5	39.9	8.61	8.59	8.53	355.59	356.49	340.35
Northern Virginia	39.2	38.2	39.6	9.68	10.18	10.17	379.46	388.88	402.73
Richmond-Petersburg	40.6	41.3	41.7	11.56	11.90	11.88	469.34	491.47	495.40
Roanoke	41.7	40.7	42.0	8.65	9.22	8.96	360.71	375.25	376.32

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		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Washington	40.2	40.1	40.0	\$11.74	\$11.83	\$11.79	\$471.95	\$474.38	\$471.60
West Virginia	40.4	41.2	41.2	10.33	10.54	10.66	417.33	434.25	439.19
Charleston	41.6	42.9	42.3	12.96	13.11	13.23	539.14	562.42	559.63
Huntington-Ashland	40.2	41.5	42.0	11.73	11.98	11.88	471.55	497.17	498.96
Parkersburg-Marietta	41.7	42.6	42.9	12.17	12.19	12.40	507.49	519.29	531.96
Wheeling	39.6	41.4	41.6	11.07	11.84	11.65	438.37	490.18	484.64
Wisconsin	41.0	41.7	41.6	10.56	10.74	10.72	433.78	447.86	445.95
Appleton-Oshkosh	42.4	42.8	42.7	10.72	11.14	11.19	454.53	476.79	477.81
Eau Claire	39.3	38.8	38.7	10.55	10.96	10.86	414.62	425.25	420.28
Green Bay	41.4	42.3	41.8	11.43	11.36	11.38	473.20	480.53	475.68
Janesville-Beloit	39.2	40.8	40.9	12.39	12.46	12.34	485.69	508.37	504.71
Kenosha	37.9	41.0	42.8	11.68	12.72	13.22	442.67	521.52	565.82
La Crosse	40.0	39.2	38.4	9.19	8.96	9.22	367.60	351.23	354.05
Madison	40.1	41.1	40.6	9.89	10.19	10.15	396.59	418.81	412.09
Milwaukee	41.3	42.2	41.7	11.80	11.70	11.66	487.34	493.74	486.22
Racine	40.6	41.6	40.7	10.96	11.20	10.98	444.98	465.92	446.89
Sheboygan	41.6	(¹)	(¹)	9.79	(¹)	(¹)	407.26	(¹)	(¹)
Wausau	41.4	41.3	41.7	9.85	\$10.23	\$10.19	407.79	\$422.50	\$424.92
Wyoming	38.5	36.9	38.9	9.88	9.20	9.40	380.38	339.48	365.66
Puerto Rico	39.0	38.5	39.0	5.37	5.44	5.44	209.43	209.44	212.16
Virgin Islands	42.3	38.1	40.4	9.39	9.93	9.41	397.20	378.33	380.16

¹ Not available.

² Publication of data has been suspended because of budget cuts.

^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 1967 benchmarks, except Colorado. Data for Colorado have been adjusted to December 1986 benchmarks.

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) ¹			Percent change		
	Jan. 1988 ^r	Feb. 1988 ^r	Mar. 1988 ^p	Mar. 1987 to Mar. 1988 ^p	Jan. 1988 to Feb. 1988 ^r	Feb. 1988 to Mar. 1988 ^p
Total	192,998	194,570	194,010	2.8	0.8	-0.3
Private sector	158,652	159,946	159,216	2.9	.8	-.5
Mining	1,633	1,630	1,632	2.8	-.2	.2
Construction	9,738	10,096	10,391	5.0	3.7	2.9
Manufacturing	41,349	41,292	41,250	2.2	-.1	-.1
Durable goods	24,557	24,523	24,503	2.1	-.1	-.1
Nondurable goods	16,792	16,769	16,747	2.5	-.1	-.1
Transportation and public utilities	11,216	11,220	11,156	2.8	.0	-.6
Wholesale trade	11,679	11,785	11,681	2.4	.9	-.9
Retail trade	28,157	28,420	28,249	2.2	.9	-.6
Finance, insurance, and real estate	12,611	12,676	12,431	.9	.5	-1.9
Services	42,269	42,826	42,425	4.3	1.3	-.9
Government	34,346	34,625	34,795	2.4	.8	.5

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

^p = preliminary.

^r = revised.

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

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2134-1, chapter 13, Productivity Measures: Business Economy and Major Sectors. SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

(1977=100)

Item	Annual average		Quarterly index										
	1986	1987	1985			1986				1987			
			II	III	IV	I	II	III	IV	I	II	III	IV
Business sector													
Output per hour of all persons	109.5	110.6	107.2	108.2	107.9	109.5	109.7	109.6	109.6	109.7	110.1	111.3	111.3
Output	128.0	132.3	123.3	124.7	125.3	127.3	127.5	128.1	129.0	130.2	131.1	133.1	134.9
Hours	116.9	119.7	115.0	115.2	116.1	116.3	116.3	116.9	117.8	118.7	119.1	119.6	121.2
Compensation per hour	182.8	188.2	174.6	177.0	179.3	180.7	182.2	183.6	185.2	185.8	187.3	189.1	190.5
Real compensation per hour	101.1	100.4	98.6	99.5	99.7	100.1	101.3	101.5	101.7	100.7	100.3	100.3	100.2
Unit labor costs	166.9	170.2	162.8	163.6	166.1	165.0	166.2	167.5	169.0	169.4	170.2	169.8	171.2
Unit nonlabor payments	163.8	169.7	160.4	161.8	160.2	163.1	163.9	165.7	162.4	166.0	168.6	172.2	171.9
Implicit price deflator	165.8	170.0	162.0	163.0	164.0	164.3	165.4	166.9	166.7	168.2	169.6	170.7	171.5
Nonfarm business sector													
Output per hour of all persons	107.5	108.5	105.7	106.4	105.9	107.7	107.7	107.5	107.5	107.6	108.0	109.1	109.2
Output	127.5	131.9	123.1	124.3	124.9	126.9	127.1	127.6	128.5	129.7	130.7	132.7	134.6
Hours	118.6	121.6	116.4	116.9	117.9	117.9	118.0	118.7	119.6	120.6	121.1	121.7	123.2
Compensation per hour	182.0	187.1	174.1	176.2	178.3	180.0	181.3	182.6	184.4	184.9	186.3	187.9	189.5
Real compensation per hour	100.6	99.8	98.4	99.0	99.2	99.8	100.8	100.9	101.2	100.2	99.7	99.7	99.6
Unit labor costs	169.3	172.5	164.7	165.7	168.3	167.2	168.4	169.8	171.5	171.8	172.5	172.2	173.5
Unit nonlabor payments	165.2	170.7	161.5	163.4	160.8	164.7	165.2	167.0	163.9	167.4	169.2	173.0	172.9
Implicit price deflator	167.8	171.9	163.6	164.9	165.7	166.4	167.3	168.8	168.8	170.3	171.4	172.5	173.3
Manufacturing													
Output per hour of all persons	128.8	133.0	124.1	125.3	126.1	127.6	128.4	129.3	129.8	130.8	132.9	134.1	134.2
Output	125.9	131.3	122.2	123.2	124.1	125.2	125.3	126.0	127.1	128.4	129.9	132.3	134.6
Hours	97.8	98.7	98.5	98.3	98.4	98.1	97.5	97.5	97.9	98.1	97.7	98.7	100.3
Compensation per hour	182.7	185.1	176.1	178.0	180.2	181.0	182.1	183.1	184.3	183.9	184.8	185.4	186.3
Real compensation per hour	101.0	98.7	99.5	100.0	100.3	100.3	101.3	101.2	101.2	99.6	98.9	98.3	98.0
Unit labor costs	141.8	139.1	142.0	142.1	142.9	141.9	141.8	141.7	142.0	140.5	139.0	138.2	138.9
Durable goods													
Output per hour of all persons	136.8	142.1	129.6	131.6	133.1	135.3	136.0	137.5	138.4	139.9	141.7	143.0	143.7
Output	134.1	139.6	129.3	130.8	132.2	133.6	133.2	134.1	135.3	136.9	137.8	140.1	143.5
Hours	98.0	98.2	99.8	99.4	99.4	98.8	98.0	97.5	97.8	97.8	97.2	98.0	99.9
Compensation per hour	181.4	183.3	174.4	176.6	179.4	179.9	180.8	181.6	183.1	182.2	182.9	183.4	184.4
Real compensation per hour	100.3	97.8	98.5	99.2	99.8	99.7	100.5	100.4	100.5	98.7	98.0	97.3	97.0
Unit labor costs	132.6	129.0	134.6	134.2	134.8	133.0	132.9	132.1	132.3	130.2	129.1	128.3	128.4
Nondurable goods													
Output per hour of all persons	116.8	119.7	115.4	115.6	115.4	116.0	117.0	117.0	117.1	117.4	119.9	121.1	120.1
Output	113.7	118.9	111.5	111.8	112.1	112.7	113.4	113.9	114.9	115.8	118.1	120.6	121.2
Hours	97.4	99.4	96.6	96.8	97.1	97.2	96.9	97.3	98.1	98.6	98.5	99.6	100.9
Compensation per hour	184.8	188.4	178.6	180.0	181.2	182.7	184.3	185.8	186.5	186.9	188.2	189.0	189.8
Real compensation per hour	102.2	100.5	100.9	101.1	100.8	101.2	102.5	102.7	102.4	101.3	100.8	100.3	99.8
Unit labor costs	158.3	157.5	154.7	155.7	157.0	157.5	157.5	158.8	159.3	159.1	156.9	156.1	158.0
Nonfinancial corporations													
Output per all-employee hour	109.9	110.3	107.7	109.2	108.9	109.8	109.7	109.9	110.5	109.7	109.9	110.8	(¹)
Output	129.4	132.9	125.4	127.4	127.7	129.1	128.8	129.3	130.4	130.9	131.6	133.7	(¹)
Hours	117.7	120.5	116.4	116.6	117.3	117.6	117.4	117.6	118.0	119.3	119.8	120.6	(¹)
Compensation per hour	178.9	182.7	171.8	173.8	175.7	177.2	178.4	179.5	181.0	180.8	182.0	183.3	(¹)
Real compensation per hour	98.9	97.5	97.0	97.6	97.8	98.2	99.2	99.2	99.4	98.0	97.5	97.2	(¹)
Total unit costs	167.7	170.8	164.3	163.7	166.0	166.3	167.2	168.5	168.7	169.7	170.9	171.0	(¹)
Unit labor costs	162.8	165.6	159.5	159.1	161.4	161.5	162.6	163.2	163.8	164.8	165.6	165.5	(¹)
Unit nonlabor costs	182.2	186.3	178.7	177.5	179.4	180.7	180.6	184.2	183.2	184.1	186.6	187.3	(¹)
Unit profits	129.3	137.7	132.2	142.5	128.7	129.7	129.5	130.6	127.7	132.2	132.9	142.1	(¹)
Implicit price deflator	163.1	166.8	160.5	161.2	161.5	161.9	162.7	164.0	163.8	165.2	166.3	167.5	(¹)

¹ Not available.

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					
	III 1986	IV 1986	I 1987	II 1987	III 1987	IV 1987	III 1986	IV 1986	I 1987	II 1987	III 1987	IV 1987
Business sector												
Output per hour of all persons	-0.3	-0.1	0.5	1.4	4.7	-0.2	1.3	1.5	0.2	0.4	1.6	1.6
Output	1.8	3.0	3.5	3.0	6.3	5.4	2.7	2.9	2.3	2.8	3.9	4.6
Hours	2.1	3.1	3.0	1.6	1.5	5.6	1.5	1.4	2.1	2.5	2.3	2.9
Compensation per hour	3.0	3.6	1.4	3.3	3.8	3.1	3.7	3.3	2.8	2.8	3.0	2.9
Real compensation per hour .....	.6	.8	-3.8	-1.5	.0	-5	2.0	2.0	.6	-1.0	-1.1	-1.5
Unit labor costs	3.3	3.7	.9	1.8	-9	3.3	2.4	1.8	2.7	2.4	1.4	1.3
Unit nonlabor payments	4.5	-7.7	9.0	6.4	8.8	-5	2.4	1.4	1.8	2.8	3.9	5.8
Implicit price deflator	3.7	-5	3.7	3.4	2.5	1.9	2.4	1.7	2.3	2.6	2.3	2.9
Nonfarm business sector												
Output per hour of all persons	-.6	.0	.4	1.4	4.2	.3	1.1	1.5	-.1	.3	1.5	1.6
Output	1.7	2.9	3.8	3.2	6.3	5.6	2.6	2.9	2.2	2.9	4.0	4.7
Hours	2.3	2.9	3.4	1.7	2.0	5.3	1.6	1.4	2.3	2.6	2.5	3.1
Compensation per hour	2.8	4.0	1.1	3.0	3.6	3.4	3.6	3.4	2.7	2.7	2.9	2.8
Real compensation per hour .....	.5	1.3	-4.1	-1.8	-.3	-.2	1.9	2.1	.4	-1.1	-1.2	-1.6
Unit labor costs	3.5	4.0	.8	1.5	-.6	3.1	2.5	1.9	2.8	2.4	1.4	1.2
Unit nonlabor payments	4.2	-7.2	8.8	4.6	9.3	-.4	2.2	1.9	1.6	2.4	3.6	5.5
Implicit price deflator	3.7	.0	3.4	2.6	2.7	1.9	2.4	1.9	2.4	2.4	2.2	2.6
Manufacturing												
Output per hour of all persons	2.7	1.7	3.2	6.4	3.7	.2	3.2	2.9	2.5	3.5	3.7	3.4
Output	2.3	3.7	4.0	4.7	7.6	7.0	2.3	2.4	2.5	3.7	5.0	5.8
Hours	-.4	2.0	.8	-1.6	3.8	6.8	-.9	-.5	.0	.2	1.2	2.4
Compensation per hour	2.2	2.7	-1.0	2.0	1.3	2.1	2.9	2.3	1.6	1.5	1.2	1.1
Real compensation per hour	-.1	-.1	-6.1	-2.7	-2.4	-1.5	1.2	1.0	-.7	-2.3	-2.9	-3.2
Unit labor costs	-.5	.9	-4.1	-4.2	-2.3	1.8	-.3	-.6	-1.0	-2.0	-2.4	-2.2
Durable goods												
Output per hour of all persons	4.4	2.6	4.5	5.3	3.6	2.0	4.5	4.0	3.4	4.2	4.0	3.8
Output	2.7	3.8	4.5	2.8	7.0	9.9	2.5	2.4	2.4	3.4	4.5	6.0
Hours	-1.7	1.1	.0	-2.4	3.3	7.7	-1.9	-1.5	-.9	-.7	.5	2.1
Compensation per hour	1.7	3.4	-1.9	1.6	1.1	2.2	2.8	2.1	1.3	1.2	1.0	.7
Real compensation per hour	-.6	.7	-6.9	-3.1	-2.6	-1.4	1.1	.7	-1.0	-2.5	-3.0	-3.5
Unit labor costs	-2.6	.8	-6.1	-3.5	-2.4	.1	-1.6	-1.8	-2.1	-2.9	-2.8	-3.0
Nondurable goods												
Output per hour of all persons .....	.1	.4	1.1	8.7	3.9	-3.1	1.3	1.4	1.3	2.5	3.5	2.6
Output	1.7	3.6	3.1	8.2	8.8	2.1	1.8	2.5	2.7	4.1	5.9	5.5
Hours	1.6	3.3	1.9	-.5	4.7	5.4	.6	1.1	1.4	1.6	2.3	2.8
Compensation per hour	3.4	1.5	.7	2.8	1.7	1.7	3.3	2.9	2.3	2.1	1.7	1.7
Real compensation per hour	1.0	-1.1	-4.5	-1.9	-2.0	-1.9	1.6	1.6	.0	-1.7	-2.4	-2.6
Unit labor costs	3.3	1.2	-.5	-5.4	-2.1	4.9	2.0	1.5	1.0	-.4	-1.7	-.8
Nonfinancial corporations												
Output per all-employee hour .....	.9	2.1	-2.9	.7	3.3	(¹)	.7	1.5	.0	.2	.8	(¹)
Output	1.6	3.4	1.5	2.2	6.4	(¹)	1.5	2.1	1.4	2.2	3.4	(¹)
Hours .....	.7	1.3	4.6	1.6	3.0	(¹)	.8	.6	1.5	2.0	2.6	(¹)
Compensation per hour	2.5	3.5	-.5	2.6	2.9	(¹)	3.3	3.0	2.0	2.0	2.1	(¹)
Real compensation per hour .....	.1	.7	-5.6	-2.1	-.9	(¹)	1.6	1.7	-.2	-1.7	-2.0	(¹)
Total unit costs	3.3	.3	2.4	2.9	.1	(¹)	2.9	1.6	2.0	2.2	1.4	(¹)
Unit labor costs	1.5	1.3	2.5	2.0	-.4	(¹)	2.6	1.5	2.1	1.8	1.3	(¹)
Unit nonlabor costs	8.2	-2.3	2.2	5.4	1.5	(¹)	3.8	2.1	1.9	3.3	1.7	(¹)
Unit profits	3.3	-8.5	14.7	2.1	30.7	(¹)	-8.4	-.8	1.9	2.6	8.8	(¹)
Implicit price deflator	3.3	-.5	3.5	2.8	2.8	(¹)	1.7	1.4	2.0	2.3	2.1	(¹)

¹ Not available.

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		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Alabama	1,866.1	1,877.0	1,871.6	170.1	150.8	143.4	9.1	8.0	7.7
Birmingham	440.6	442.6	442.2	36.2	29.2	28.3	8.2	8.8	6.4
Huntsville	127.1	130.7	130.3	7.9	7.2	6.8	6.2	5.5	5.2
Mobile	208.5	208.4	208.1	21.4	20.5	19.3	10.2	9.9	9.3
Montgomery	134.7	136.1	136.3	9.3	8.5	8.7	6.9	6.2	6.4
Tuscaloosa	69.0	69.8	69.7	4.8	4.3	4.0	8.9	6.2	5.8
Alaska	236.9	233.8	238.6	31.6	25.4	26.5	13.3	10.9	11.1
Arizona	1,608.3	1,639.1	1,637.1	105.5	92.7	92.6	6.6	5.7	5.7
Phoenix	994.7	1,014.1	1,011.3	54.9	48.7	47.6	5.5	4.8	4.7
Tucson	306.5	313.7	313.9	17.3	15.1	14.8	5.6	4.8	4.7
Arkansas	1,064.7	1,091.4	1,110.4	103.7	101.1	97.8	9.7	9.3	8.8
Fayetteville-Springdale	55.2	57.7	59.3	2.5	2.9	2.8	4.5	5.0	4.6
Fort Smith	88.3	92.8	93.6	6.4	6.7	6.3	7.2	7.2	6.7
Little Rock-North Little Rock	253.2	261.1	263.9	19.9	19.7	18.7	7.8	7.6	7.1
Pine Bluff	36.9	36.3	37.3	4.1	3.4	3.3	11.0	9.4	9.0
California ¹	13,535.1	13,924.5	13,975.4	906.7	780.0	811.9	6.7	5.6	5.8
Anaheim-Santa Ana	1,289.0	1,305.4	1,303.1	45.2	37.9	40.9	3.5	2.9	3.1
Bakersfield	224.4	224.9	227.0	29.1	21.6	24.4	13.0	9.6	10.8
Fresno	287.7	289.5	288.9	40.4	32.2	35.8	14.0	11.1	12.4
Los Angeles-Long Beach ¹	4,163.0	4,331.0	4,403.0	277.0	242.0	249.0	6.7	5.6	5.7
Modesto	147.0	150.5	151.8	22.6	18.1	20.8	15.3	12.0	13.7
Oakland	1,018.7	1,037.7	1,031.5	56.9	48.6	49.7	5.6	4.7	4.8
Oxnard-Ventura	329.9	337.4	340.8	20.4	17.6	17.1	6.2	5.2	5.0
Riverside-San Bernardino	881.3	936.2	938.0	51.4	49.2	52.2	5.8	5.3	5.6
Sacramento	657.7	691.5	686.4	42.9	39.9	39.3	6.5	5.8	5.7
San Diego	1,034.6	1,082.8	1,080.7	48.8	45.4	47.8	4.7	4.2	4.4
San Francisco	857.4	877.1	866.1	35.9	30.7	31.4	4.2	3.5	3.6
San Jose	811.1	809.1	808.5	42.8	32.5	33.8	5.3	4.0	4.2
Santa Barbara-Santa Maria-Lompoc	175.3	177.3	176.2	10.0	8.2	8.8	5.7	4.6	5.0
Santa Rosa-Petaluma	182.0	190.7	188.4	10.7	9.9	9.5	5.9	5.2	5.0
Stockton	184.9	182.3	184.2	23.3	19.9	21.2	12.6	10.9	11.5
Vallejo-Fairfield-Napa	177.3	185.7	184.4	12.4	11.3	11.0	7.0	6.1	5.9
Colorado	1,699.8	1,712.3	1,716.5	150.1	134.1	138.8	8.8	7.8	8.1
Boulder-Longmont	129.4	132.1	133.5	8.6	7.6	7.8	6.6	5.8	5.8
Denver	890.9	897.6	899.3	71.7	62.4	64.5	8.1	7.0	7.2
Connecticut	1,721.9	1,721.9	1,689.3	68.5	63.8	60.9	4.0	3.7	3.6
Bridgeport-Milford	226.2	226.6	222.9	11.5	10.2	9.9	5.1	4.5	4.4
Hartford	419.7	422.8	412.9	14.8	14.7	13.4	3.5	3.5	3.2
New Haven-Meriden	264.1	266.6	261.4	9.7	9.3	8.9	3.7	3.5	3.4
Stamford	116.0	116.1	113.8	3.1	2.7	2.7	2.7	2.3	2.4
Waterbury	101.8	100.3	98.5	5.8	4.9	4.8	5.7	4.9	4.8
Delaware	319.1	331.1	335.7	12.8	14.8	16.0	4.0	4.5	4.8
Wilmington	282.0	291.8	296.6	13.0	14.8	16.5	4.6	5.1	5.6
District of Columbia	324.2	323.6	325.9	23.9	19.7	19.0	7.4	6.1	5.8
Washington	2,063.0	2,127.8	2,129.8	71.4	70.2	65.7	3.5	3.3	3.1
Florida ¹	5,720.8	5,917.3	5,959.3	299.6	295.4	298.1	5.2	5.0	5.0
Daytona Beach	143.4	145.8	149.6	7.1	6.6	6.9	4.9	4.5	4.6
Fort Lauderdale-Hollywood-Pompano Beach	602.5	625.9	636.0	24.7	26.4	28.4	4.1	4.2	4.5
Fort Myers-Cape Coral	131.7	138.6	139.7	4.9	5.0	4.6	3.7	3.6	3.3
Jacksonville	427.0	448.9	450.5	22.6	24.2	24.6	5.3	5.4	5.5
Melbourne-Titusville-Palm Bay	167.5	176.5	175.6	10.5	8.7	8.3	6.3	4.9	4.7
Miami-Hialeah	896.4	908.1	909.0	50.8	48.7	47.7	5.7	5.4	5.2
Orlando	531.6	553.1	561.5	23.8	26.0	26.2	4.5	4.7	4.7
Pensacola	143.6	146.5	146.7	10.0	9.1	9.0	6.9	6.2	6.1
Sarasota	114.3	118.4	119.9	4.0	4.2	4.3	3.5	3.6	3.6
Tallahassee	119.5	121.8	123.1	4.7	5.2	4.7	3.9	4.3	3.8
Tampa-St. Petersburg-Clearwater	936.7	962.1	964.9	46.8	45.4	46.0	5.0	4.7	4.8
West Palm Beach-Boca Raton-DeLray Beach	387.2	405.8	411.1	17.7	16.4	17.7	4.6	4.0	4.3

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		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Georgia	3,005.3	3,026.7	3,056.8	182.5	195.0	182.2	6.1	6.4	6.0
Athens	71.7	72.8	72.4	3.7	4.8	3.4	5.1	6.6	4.8
Atlanta	1,420.8	1,430.7	1,444.2	69.9	77.5	73.1	4.9	5.4	5.1
Augusta	176.7	175.8	178.0	11.8	10.8	11.2	6.7	6.1	6.3
Columbus	99.1	98.8	99.7	7.0	6.8	7.1	7.1	6.8	7.1
Macon-Warner Robins	126.4	126.7	128.4	7.3	7.2	7.5	5.7	5.7	5.9
Savannah	109.3	109.6	111.0	7.0	7.3	7.8	6.4	6.7	7.0
Hawaii	498.8	523.0	525.9	19.7	20.4	17.5	4.0	3.9	3.3
Honolulu	372.4	389.8	392.4	13.5	13.9	11.6	3.6	3.6	2.9
Idaho	456.3	451.7	453.6	48.0	41.5	41.1	10.5	9.2	9.1
Boise City	102.5	102.3	101.9	7.1	6.4	5.8	6.9	6.2	5.7
Illinois ¹	5,587.3	5,740.9	5,738.9	466.1	423.6	469.2	8.3	7.4	8.2
Aurora-Elgin	167.9	175.8	175.1	13.0	10.7	11.8	7.7	6.1	6.7
Bloomington-Normal	64.8	65.8	65.5	3.4	3.5	3.9	5.2	5.4	5.9
Champaign-Urbana-Rantoul	86.6	84.9	87.8	4.5	4.0	4.7	5.2	4.7	5.4
Chicago	3,063.6	3,158.3	3,146.9	223.2	202.7	224.8	7.3	6.4	7.1
Davenport-Rock Island-Moline	181.1	181.4	180.8	16.8	15.4	15.8	9.3	8.5	8.7
Decatur	58.0	58.0	58.3	6.2	5.8	6.1	10.8	10.1	10.5
Joliet	191.1	196.2	196.2	17.6	16.4	18.7	9.2	8.4	9.5
Lake County	247.1	266.1	262.9	13.7	12.7	13.6	5.5	4.8	5.2
Peoria	151.4	151.7	152.0	14.5	11.5	12.4	9.5	7.6	8.2
Rockford	145.4	146.5	146.7	13.2	12.3	13.3	9.1	8.4	9.1
Springfield	106.1	108.8	108.2	6.3	6.6	7.1	5.9	6.1	6.6
Indiana	2,685.2	2,704.4	2,702.1	206.6	176.7	173.1	7.7	6.5	6.4
Anderson	59.6	(?)	(?)	5.0	(?)	(?)	8.4	(?)	(?)
Bloomington	57.6	(?)	(?)	2.7	(?)	(?)	4.7	(?)	(?)
Elkhart-Goshen	89.4	(?)	(?)	4.8	(?)	(?)	5.3	(?)	(?)
Evansville	139.6	(?)	(?)	11.7	(?)	(?)	8.4	(?)	(?)
Fort Wayne	188.9	(?)	(?)	11.2	(?)	(?)	5.9	(?)	(?)
Gary-Hammond	249.3	(?)	(?)	31.7	(?)	(?)	12.7	(?)	(?)
Indianapolis	633.2	(?)	(?)	36.3	(?)	(?)	5.7	(?)	(?)
Lafayette	64.8	(?)	(?)	2.7	(?)	(?)	4.2	(?)	(?)
Muncie	59.7	(?)	(?)	5.0	(?)	(?)	8.4	(?)	(?)
South Bend-Mishawaka	124.5	(?)	(?)	8.0	(?)	(?)	6.4	(?)	(?)
Terre Haute	58.4	(?)	(?)	4.4	(?)	(?)	7.6	(?)	(?)
Iowa	1,435.2	1,455.0	1,449.8	111.1	103.3	94.6	7.7	7.1	6.5
Cedar Rapids	90.2	94.4	94.8	6.2	5.4	5.2	6.8	5.7	5.4
Des Moines	215.1	225.3	225.7	12.5	11.7	10.9	5.8	5.2	4.8
Dubuque	43.4	46.0	45.9	3.9	4.1	3.8	8.9	8.8	8.2
Sioux City	57.9	59.6	59.5	4.9	4.4	4.5	8.6	7.4	7.5
Waterloo-Cedar Falls	69.5	68.4	89.3	8.0	6.0	5.7	11.5	8.8	8.3
Kansas	1,238.3	1,249.9	1,270.0	73.7	69.8	70.3	6.0	5.6	5.5
Topeka	88.9	90.7	92.5	4.8	4.6	5.1	5.4	5.1	5.5
Wichita	243.0	251.5	254.4	15.4	14.9	13.8	6.3	5.9	5.4
Kentucky	1,670.3	1,700.9	1,703.0	178.7	162.1	164.8	10.7	9.5	9.7
Lexington-Fayette	178.3	(?)	(?)	11.0	(?)	(?)	6.2	(?)	(?)
Louisville	488.9	(?)	(?)	38.7	(?)	(?)	7.9	(?)	(?)
Owensboro	44.6	(?)	(?)	5.9	(?)	(?)	13.3	(?)	(?)
Louisiana	1,960.8	1,905.8	1,900.8	281.1	233.2	230.3	14.3	12.2	12.1
Alexandria	60.7	60.3	60.2	7.2	6.5	6.7	11.8	10.7	11.1
Baton Rouge	263.8	261.6	260.7	30.4	26.8	26.3	11.5	10.2	10.1
Houma-Thibodaux	75.1	69.6	69.7	15.9	9.8	9.7	21.1	14.1	13.9
Lafayette	102.9	97.3	97.6	16.2	11.4	11.1	15.7	11.7	11.4
Monroe	70.6	67.0	67.8	8.2	8.0	7.9	11.6	11.9	11.7
New Orleans	603.8	588.2	586.4	68.2	58.9	58.1	11.3	10.0	9.9
Shreveport	168.6	166.3	164.9	22.5	19.8	19.3	13.3	11.9	11.7
Maine	550.2	592.4	584.9	31.2	32.5	30.7	5.7	5.5	5.2
Lewiston-Auburn	40.2	42.5	41.9	2.6	2.6	2.3	6.4	6.0	5.5
Portland	116.6	126.2	124.3	3.4	3.6	3.4	2.9	2.9	2.7

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P	Feb. 1987	Jan. 1988	Feb. 1988 ^P
Maryland	2,357.6	2,394.0	2,396.3	115.4	123.5	122.7	4.9	5.2	5.1
Baltimore	1,148.0	1,156.6	1,156.6	60.7	64.2	64.3	5.3	5.6	5.6
Massachusetts¹	3,010.8	3,106.7	3,101.3	117.8	117.7	116.4	3.9	3.8	3.8
Boston	1,502.2	1,547.7	1,546.6	47.1	47.7	47.3	3.1	3.1	3.1
Brockton	94.3	96.8	97.4	4.0	4.1	4.0	4.2	4.2	4.1
Fall River	75.2	76.7	76.2	5.6	5.4	5.5	7.4	7.0	7.2
Fitchburg-Leominster	45.5	45.3	44.9	2.3	2.1	2.0	5.0	4.7	4.4
Lawrence-Haverhill	179.1	185.9	184.8	8.2	8.9	8.5	4.6	4.8	4.6
Lowell	146.4	148.6	149.0	5.9	5.8	5.3	4.0	3.9	3.6
New Bedford	83.8	84.6	83.8	6.0	5.6	5.6	7.2	6.6	6.7
Springfield	246.2	255.9	254.3	10.2	9.6	9.5	4.1	3.8	3.7
Worcester	208.4	218.8	218.9	7.3	7.6	7.5	3.5	3.5	3.4
Michigan¹	4,431.0	4,426.2	4,469.2	392.9	472.1	398.3	8.9	10.7	8.9
Ann Arbor	154.0	154.7	159.4	7.2	7.6	7.1	4.7	4.9	4.4
Battle Creek	62.6	63.6	64.0	5.1	7.1	5.6	8.1	11.1	8.7
Benton Harbor	75.3	75.1	76.3	6.5	6.7	5.7	8.6	8.9	7.5
Detroit	2,143.1	2,132.3	2,152.8	178.3	218.7	189.1	8.3	10.3	8.8
Flint	197.8	198.3	196.9	21.2	35.0	30.0	10.7	17.7	15.2
Grand Rapids	339.6	339.7	344.9	24.2	25.7	21.0	7.1	7.6	6.1
Kalamazoo	111.8	112.1	114.2	6.1	7.4	5.9	5.5	6.6	5.2
Lansing-East Lansing	236.3	233.8	237.5	16.0	21.4	17.1	6.8	9.1	7.2
Muskegon	67.3	65.9	66.3	8.3	7.6	6.5	12.3	11.6	9.8
Saginaw-Bay City-Midland	180.7	183.0	184.2	19.1	21.4	17.5	10.6	11.7	9.5
Minnesota	2,216.1	2,232.7	2,241.3	148.7	135.9	124.3	6.7	6.1	5.5
Duluth	106.3	105.4	104.8	12.7	10.1	9.2	12.0	9.6	8.7
Minneapolis-St.Paul	1,322.5	1,336.9	1,343.1	66.3	62.4	57.5	5.0	4.7	4.3
Rochester	56.0	57.1	57.1	2.8	2.3	2.2	5.0	4.1	3.8
St. Cloud	90.2	93.5	95.0	6.9	6.6	6.2	7.6	7.1	6.5
Mississippi	1,151.8	1,170.7	1,163.3	142.5	124.8	113.3	12.4	10.7	9.7
Jackson	196.8	202.0	201.6	17.2	14.6	13.3	8.7	7.2	6.6
Missouri	2,545.9	2,533.1	2,520.5	181.7	171.2	152.9	7.1	6.8	6.1
Kansas City	826.4	829.2	826.4	43.7	46.6	44.1	5.3	5.6	5.3
St. Louis	1,254.0	1,254.3	1,248.2	97.8	91.5	85.2	7.8	7.3	6.8
Springfield	119.9	120.6	122.0	6.7	5.9	5.5	5.6	4.9	4.5
Montana	395.7	397.0	399.4	39.1	37.9	36.3	9.9	9.5	9.1
Nebraska	799.1	785.2	779.5	48.1	40.8	37.9	6.0	5.2	4.9
Lincoln	119.1	117.4	117.1	4.6	4.1	3.7	3.9	3.5	3.2
Omaha	319.4	314.7	312.9	19.0	16.6	15.7	5.9	5.3	5.0
Nevada	540.8	566.7	566.8	38.4	41.0	37.3	7.1	7.2	6.6
Las Vegas	315.2	330.6	331.0	21.6	22.8	21.6	6.9	6.9	6.5
Reno	135.1	139.4	139.2	9.3	10.1	8.8	6.9	7.3	6.3
New Hampshire	558.3	595.0	585.6	16.6	19.5	18.4	3.0	3.3	3.1
Nashua	93.1	98.9	97.5	2.7	3.0	2.9	2.9	3.1	2.9
Portsmouth-Dover-Rochester	122.7	131.0	128.9	3.7	4.0	3.8	3.0	3.1	2.9
New Jersey¹	3,910.3	3,964.5	3,970.2	188.4	178.4	160.6	4.8	4.5	4.0
Atlantic City	162.1	164.5	163.8	12.9	12.8	11.5	8.0	7.8	7.0
Bergen-Passaic	715.7	724.8	725.8	30.2	26.4	24.5	4.2	3.6	3.4
Jersey City	266.2	268.2	270.0	19.8	19.3	17.4	7.4	7.2	6.4
Middlesex-Somerset-Hunterdon	545.3	559.0	559.5	18.4	17.8	15.4	3.4	3.2	2.7
Monmouth-Ocean	451.9	467.1	464.5	18.8	20.3	17.6	4.2	4.4	3.8
Newark	961.7	960.0	964.0	46.7	43.3	38.2	4.9	4.5	4.0
Trenton	171.2	173.6	173.6	7.2	6.3	5.5	4.2	3.6	3.2
New Mexico	678.7	676.0	678.5	67.2	60.2	58.4	9.9	8.9	8.6
Albuquerque	259.7	256.6	259.0	16.7	16.4	16.0	6.4	6.4	6.2
Las Cruces	53.6	54.4	54.0	3.9	4.2	4.0	7.3	7.6	7.3
Santa Fe	63.0	64.9	65.0	4.1	4.0	3.9	6.5	6.1	6.0

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a	Feb. 1987	Jan. 1988	Feb. 1988 ^a
New York¹	8,376.3	8,523.1	8,425.9	485.6	427.0	371.7	5.8	5.0	4.4
Albany-Schenectady-Troy	413.2	424.1	418.3	19.5	16.7	17.2	4.7	4.4	4.1
Binghamton	125.5	127.6	125.7	8.9	5.2	5.2	5.5	4.1	4.1
Buffalo	440.6	448.9	442.1	28.5	28.0	25.6	6.7	8.2	5.8
Elmira	39.7	42.3	41.9	2.8	1.9	1.9	6.4	4.6	4.4
Nassau-Suffolk	1,408.9	1,435.8	1,411.8	54.4	49.1	46.5	3.9	3.4	3.3
New York	3,853.7	3,897.8	3,872.3	213.8	193.8	154.3	5.5	5.0	4.0
New York City ¹	3,188.0	3,215.0	3,205.0	191.0	170.0	135.0	6.0	5.3	4.2
Orange County	129.1	133.7	130.8	6.2	6.1	5.4	4.8	4.5	4.1
Poughkeepsie	124.8	127.3	128.2	4.1	3.9	3.7	3.3	3.0	2.9
Rochester	493.8	501.3	494.8	26.2	22.5	21.9	5.3	4.5	4.4
Syracuse	318.0	327.0	320.0	22.6	22.8	20.7	7.1	7.0	6.5
Utica-Rome	133.8	137.5	134.7	9.7	6.7	7.9	7.3	6.3	5.6
North Carolina¹	3,239.2	3,247.3	3,284.0	180.3	165.7	137.5	5.6	5.1	4.2
Asheville	85.4	85.7	88.3	5.1	4.4	3.5	6.0	5.1	4.0
Charlotte-Gastonia-Rock Hill	616.3	627.9	640.4	26.1	23.9	21.2	4.2	3.8	3.3
Greensboro-Winston-Salem-High Point	513.7	512.3	518.9	22.8	20.8	17.1	4.4	4.1	3.3
Raleigh-Durham	390.0	391.8	400.8	12.9	14.0	11.1	3.3	3.6	2.8
North Dakota	325.4	322.8	320.8	23.8	22.6	20.6	7.3	7.0	6.4
Bismarck	44.4	45.0	44.8	3.3	3.4	3.2	7.4	7.5	7.0
Fargo-Moorhead	83.1	84.9	85.0	3.9	3.8	3.6	4.7	4.4	4.2
Grand Forks	35.8	36.0	38.3	1.5	1.8	1.7	4.3	5.1	4.7
Ohio¹	5,210.9	5,257.9	5,278.9	473.4	374.6	374.4	9.1	7.1	7.1
Akron	320.2	320.4	323.7	29.3	24.7	24.6	9.1	7.7	7.6
Cincinnati	729.9	(^b)	(^b)	51.1	(^b)	(^b)	7.0	(^b)	(^b)
Cleveland	919.3	928.2	930.0	73.4	58.5	57.5	8.0	8.3	6.2
Columbus	665.8	701.9	703.6	46.0	39.8	37.7	6.7	5.7	5.4
Dayton-Springfield	460.1	463.7	465.8	33.5	27.6	28.7	7.3	5.9	6.2
Toledo	306.1	309.5	311.4	28.1	20.4	21.0	9.2	6.8	6.7
Youngstown-Warren	222.2	218.9	219.6	26.8	19.7	19.2	12.0	9.0	8.7
Oklahoma	1,566.8	1,527.3	1,517.8	136.1	115.5	102.0	8.7	7.6	6.7
Enid	30.4	29.9	29.6	2.6	2.0	1.7	8.6	6.6	5.9
Lawton	49.5	49.0	49.0	2.7	2.7	2.5	5.4	5.4	5.1
Oklahoma City	508.7	496.6	498.4	34.4	31.6	27.5	6.8	6.4	5.5
Tulsa	351.0	338.9	337.9	33.8	28.2	25.3	9.6	8.3	7.5
Oregon	1,353.8	1,400.0	1,411.1	109.8	99.8	101.2	8.1	7.1	7.2
Eugene-Springfield	135.7	139.5	140.5	9.8	9.2	9.2	7.2	6.8	6.6
Portland	623.7	642.5	648.3	40.4	36.5	36.2	6.5	5.7	5.6
Salem	123.0	128.3	130.3	10.3	10.0	10.1	8.4	7.8	7.7
Pennsylvania¹	5,431.3	5,728.1	5,653.0	349.3	356.0	334.1	6.4	6.2	5.9
Allentown-Bethlehem	308.8	320.3	316.0	17.4	18.4	15.8	5.6	5.7	5.0
Altoona	56.1	59.4	58.6	4.7	5.1	4.7	8.3	8.8	8.1
Beaver County	81.8	82.8	62.1	6.5	6.5	8.5	10.8	10.4	10.5
Erie	123.1	128.5	126.8	10.3	9.6	9.4	8.3	7.5	7.4
Harrisburg-Lebanon-Carlisle	296.5	316.5	312.5	12.6	15.1	13.7	4.2	4.8	4.4
Johnstown	91.0	95.0	93.4	9.2	9.3	8.8	10.1	9.8	9.4
Lancaster	199.4	214.4	210.0	7.3	9.4	7.5	3.7	4.4	3.5
Philadelphia	2,311.6	2,423.8	2,403.1	110.7	111.2	105.8	4.8	4.6	4.4
Pittsburgh	919.1	956.2	945.6	73.9	70.1	68.8	8.0	7.3	7.3
Reading	163.5	174.1	170.7	8.8	8.9	8.0	5.4	5.1	4.7
Scranton-Wilkes-Barre	335.9	352.0	346.7	27.0	26.3	24.2	8.0	7.5	7.0
Williamsport	53.9	60.9	59.8	3.7	4.4	4.1	7.0	7.2	6.8
York	199.5	214.5	211.8	9.6	11.7	9.3	4.8	5.5	4.4
Rhode Island	506.2	520.4	518.5	22.2	20.7	22.5	4.4	4.0	4.3
Pawtucket-Woonsocket-Attleboro	164.0	187.7	186.8	8.8	8.0	8.3	5.2	4.8	5.0
Providence	330.3	339.9	339.9	13.9	13.0	14.3	4.2	3.8	4.2
South Carolina	1,595.1	1,819.8	1,829.2	100.0	98.6	90.8	6.3	6.1	5.6
Charleston	215.0	218.8	220.3	10.9	10.7	10.3	5.1	4.9	4.7
Columbia	223.9	225.8	228.8	8.8	9.4	7.6	3.9	4.2	3.3
Greenville-Spartanburg	317.0	318.5	318.2	15.5	14.6	13.3	4.9	4.8	4.2
South Dakota	342.1	344.3	343.1	17.2	16.1	14.8	5.0	4.7	4.2
Rapid City	38.0	39.2	38.9	1.9	2.0	1.7	5.0	5.1	4.3
Sioux Falls	89.7	71.3	71.7	2.9	3.8	3.7	4.1	5.3	5.2

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Feb. 1987	Jan. 1988	Feb. 1988 ^p	Feb. 1987	Jan. 1988	Feb. 1988 ^p	Feb. 1987	Jan. 1988	Feb. 1988 ^p
Tennessee	2,292.2	2,368.3	2,378.7	179.7	165.9	155.9	7.8	7.0	6.6
Chattanooga	203.1	209.0	210.5	13.2	12.7	11.7	6.5	6.1	5.5
Johnson City-Kingsport-Bristol	209.8	220.1	221.9	15.6	15.7	14.6	7.4	7.1	6.6
Knoxville	275.8	282.4	282.5	22.8	19.8	18.6	8.3	7.0	6.6
Memphis LMA	426.3	452.1	456.0	27.4	26.3	24.6	6.4	5.8	5.4
Nashville	520.5	516.9	519.1	25.0	25.6	25.6	4.8	4.9	4.9
Texas¹	8,136.2	8,161.7	8,210.2	750.3	682.5	717.7	9.2	8.4	8.7
Abilene	54.4	53.5	53.8	5.1	4.0	4.3	9.4	7.5	7.9
Amarillo	98.2	99.2	99.5	8.8	6.6	7.0	7.0	6.6	7.0
Austin	426.5	424.8	427.5	28.0	29.4	30.5	6.6	6.9	7.1
Beaumont-Port Arthur	163.2	158.1	159.8	21.6	19.1	20.5	13.2	12.1	12.8
Brazoria	79.5	80.3	81.0	8.4	7.7	7.9	10.6	9.6	9.8
Brownsville-Harlingen	93.7	97.1	97.3	14.8	16.3	16.1	15.7	16.8	16.5
Bryan-College Station	56.6	53.6	56.8	3.5	2.9	3.1	8.1	5.4	5.4
Corpus Christi	161.0	159.4	161.1	21.2	17.6	18.8	13.1	11.0	11.6
Dallas	1,422.1	1,439.5	1,444.5	89.1	91.6	96.7	6.3	6.4	6.7
El Paso	227.5	234.7	237.6	25.7	27.2	29.4	11.3	11.6	12.4
Fort Worth-Arlington	663.1	670.9	674.0	48.4	46.7	49.6	7.3	7.0	7.4
Galveston-Texas City	108.1	107.0	107.9	11.8	11.8	11.4	10.9	11.0	10.6
Houston	1,585.0	1,574.4	1,582.1	160.0	126.7	131.9	10.1	8.0	8.3
Killeen-Temple	90.9	92.5	93.4	7.3	7.5	8.1	8.1	8.1	8.6
Laredo	45.7	46.6	46.9	8.4	7.9	8.2	18.4	17.0	17.6
Longview-Marshall	78.7	78.1	78.1	9.3	8.1	8.8	11.8	10.3	11.0
Lubbock	110.7	111.3	112.3	7.2	6.7	7.2	6.5	6.0	6.4
McAllen-Edinburg-Mission	148.7	152.7	152.7	30.0	30.2	30.9	20.2	19.8	20.2
Midland	50.1	48.7	49.3	5.4	3.7	3.9	10.7	7.6	7.8
San Angelo	45.2	44.7	45.0	3.1	2.7	2.9	6.8	6.2	6.4
San Antonio	599.4	607.9	613.0	48.5	50.4	54.8	8.1	8.3	8.9
Sherman-Denison	48.1	49.4	50.0	4.0	3.8	4.0	8.4	7.6	8.1
Texarkana	57.3	58.1	58.4	5.3	4.9	5.3	9.2	8.4	9.0
Waco	91.3	92.6	93.3	7.2	8.2	8.1	7.9	8.9	8.7
Wichita Falls	56.7	57.1	57.6	5.0	4.4	4.8	8.9	7.6	8.3
Utah	749.6	757.8	757.4	56.3	50.4	47.8	7.5	6.7	6.3
Provo-Orem	98.2	98.9	99.4	8.9	6.3	6.0	9.0	6.3	8.1
Salt Lake City-Ogden	497.1	504.4	501.5	32.3	31.4	29.2	6.5	6.2	5.8
Vermont	286.3	302.1	300.9	14.1	12.4	12.2	4.9	4.1	4.0
Burlington	71.7	75.1	76.0	2.3	2.0	2.1	3.2	2.7	2.7
Virginia	2,920.6	3,002.5	3,005.0	141.6	128.0	123.0	4.8	4.3	4.1
Charlottesville	63.5	67.2	67.6	2.0	1.9	2.0	3.2	2.9	2.9
Danville	50.4	50.9	50.3	4.0	4.0	3.7	7.9	7.8	7.3
Lynchburg	71.2	70.0	69.8	4.1	3.8	3.6	5.8	5.4	5.2
Norfolk-Virginia Beach-Newport News	580.6	592.0	595.2	29.1	27.1	26.4	5.0	4.6	4.4
Richmond-Petersburg	423.0	432.9	434.3	17.5	15.7	14.7	4.1	3.6	3.4
Roanoke	117.3	117.9	117.0	5.4	5.0	4.7	4.6	4.2	4.0
Washington	2,185.7	2,269.1	2,277.2	192.1	186.5	178.7	8.8	8.2	7.8
Seattle	976.4	1,021.1	1,025.5	63.5	61.6	59.6	6.5	6.0	5.8
West Virginia	748.2	757.7	755.8	103.6	104.9	99.5	13.8	13.8	13.2
Charleston	116.4	117.2	117.0	12.8	13.7	13.0	11.0	11.7	11.2
Huntington-Ashland	128.0	(²)	(²)	16.8	(²)	(²)	13.1	(²)	(²)
Parkersburg-Marietta	72.2	71.7	72.0	9.1	7.0	7.0	12.6	9.8	9.8
Wheeling	71.6	72.5	72.4	8.5	8.3	7.8	11.9	11.4	10.8
Wisconsin	2,439.3	2,449.4	2,451.5	200.9	173.3	166.1	8.2	7.1	6.8
Appleton-Oshkosh-Neenah	160.4	161.7	162.1	12.8	10.7	10.2	8.0	6.6	6.3
Eau Claire	69.7	69.5	71.2	5.7	5.2	4.8	8.2	7.5	6.7
Green Bay	103.3	104.3	104.5	8.1	7.4	7.1	7.8	7.1	6.8
Janesville-Beloit	70.6	70.4	69.9	6.5	5.2	4.9	9.2	7.4	7.0
Kenosha	54.2	55.2	55.0	5.7	3.9	3.5	10.4	7.0	6.4
La Crosse	52.6	53.3	53.3	3.4	3.2	2.9	6.5	6.0	5.5
Madison	208.9	211.1	211.8	10.3	9.7	8.8	4.9	4.6	4.1
Milwaukee	729.7	731.5	729.2	46.9	41.7	39.8	6.4	5.7	5.5
Racine	86.2	85.7	85.3	7.3	6.0	5.7	8.5	7.0	6.7
Wausau	57.6	58.4	58.5	5.7	4.9	4.8	9.9	8.4	8.3
Wyoming	239.1	227.8	228.5	30.2	20.3	19.8	12.6	8.9	8.6

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

² Not available.

^p = preliminary.

NOTE: Data refer to place of residence. Estimates for 1987 have been

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

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 59,500 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of 290,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who received pay during the payroll period which includes the 12th day of the month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

Employment

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

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

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

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

Hours of work

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

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

Earnings

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

COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

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

COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household Data (A tables)

COLLECTION AND COVERAGE

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

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

Inmates of institutions and persons under 14 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 59,500 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 59,500 occupied units, there are 11,000 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

CONCEPTS AND DEFINITIONS

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

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

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

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

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

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

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

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

Jobseekers are all unemployed persons who made

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HISTORICAL COMPARABILITY

Change in lower age limit

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

Report on the Labor Force, February 1967.

Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

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

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

Changes in the occupational and industrial classification system

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

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

The 1980 census occupational classification system evolved

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

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

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

Changes in the sample design

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

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

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

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

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

ESTIMATING METHODS

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

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

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	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 present	729	57,000	2,500	11,000

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

² Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city" and "balance of the MSA". Residence categories of non-MSA areas are "urban" and "rural". The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the survey estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* In the CPS, a portion of the 729 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The adjustment is made at the State level for each of the 43 States which contain nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to

further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 32 age-sex groups each; the other races category has 6 age-sex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race-origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of *Employment and Earnings*.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population using the two most recent July 1 estimates, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports, Series P-25*. For a description of the methodology used in developing the State total, see Report 957 of that series. A description of the age estimates methodology is available in Report 1010 of that series.

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

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

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

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

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

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

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

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

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

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

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

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

2. Approximately 90 percent of the intervals from 1.6

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

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

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

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

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

Table B. Standard errors for major employment status categories

(in thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force	244	187
Employed	263	200
Unemployed	131	134
Men, 20 years and over:		
Civilian labor force	148	127
Employed	162	141
Unemployed	89	91
Women, 20 years and over:		
Civilian labor force	189	140
Employed	190	144
Unemployed	82	85
Both sexes, 16 to 19 years:		
Civilian labor force	83	91
Employed	86	97
Unemployed	57	63
Black, 16 years and over:		
Civilian labor force	82	63
Employed	92	70
Unemployed	65	67
Men, 20 years and over:		
Civilian labor force	49	43
Employed	56	50
Unemployed	43	46
Women, 20 years and over:		
Civilian labor force	67	44
Employed	67	48
Unemployed	43	46
Both sexes, 16 to 19 years:		
Civilian labor force	33	37
Employed	30	34
Unemployed	30	32

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

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

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 159,000. The 68-percent confidence interval as shown by these data is from 11,841,000 to 12,159,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 118,000.

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

Table C. Standard errors for unemployment rates by major characteristics

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive-month change		Monthly level	Consecutive-month change
Total (all civilian workers)	0.11	0.12	Occupation—Continued		
Men, 20 years and over . . . . .	.15	.15	Precision production, craft, and repair	0.32	0.35
Women, 20 years and over . . . . .	.17	.18	Machine operators, assemblers, and inspectors . . . . .	.50	.57
Both sexes, 16 to 19 years . . . . .	.65	.77	Transportation and material moving . . . . .	.57	.64
White workers . . . . .	.11	.12	Handlers, equipment cleaners, helpers, and laborers . . . . .	.70	.80
Black workers . . . . .	.52	.54	Farming, forestry, and fishing . . . . .	.65	.73
Married men, spouse present . . . . .	.15	.16	Industry		
Married women, spouse present . . . . .	.21	.23	Nonagricultural private wage and salary workers . . . . .	.13	.14
Full-time workers . . . . .	.12	.12	Mining	1.37	1.56
Part-time workers . . . . .	.34	.42	Construction . . . . .	.65	.74
Unemployed 15 weeks and over . . . . .	.06	.08	Manufacturing . . . . .	.27	.30
Occupation			Durable goods . . . . .	.34	.38
Executive, administrative, and managerial . . . . .	.21	.24	Nondurable goods . . . . .	.42	.48
Professional specialty . . . . .	.18	.20	Transportation, communications, and public utilities . . . . .	.41	.46
Technicians and related support . . . . .	.49	.55	Wholesale and retail trade . . . . .	.26	.29
Sales . . . . .	.29	.32	Finance and services . . . . .	.20	.22
Administrative support, including clerical . . . . .	.24	.26	Government workers . . . . .	.18	.19
Private household	1.07	1.20	Agricultural wage and salary workers	1.22	1.40
Protective service . . . . .	.67	.76			
Service, except private household and protective . . . . .	.38	.43			

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

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

Illustration. Assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. The standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ percentage point.

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

Illustration. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.9 percent, based on a total of 95,676,000 in the civilian labor force, and that

Table D. Standard errors for estimates of monthly level

(in thousands)

Estimated monthly level	Characteristic ¹								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only
50	14	11	11	11	11	11	11	10	10
100	19	15	16	15	15	15	15	14	14
500	43	33	35	34	34	33	29	32	31
1,000	61	47	49	48	47	46	33	45	42
2,000	85	66	67	68	64	63	33	63	55
4,000	120	93	88	95	84	80	-	87	65
6,000	146	113	99	116	94	86	-	106	58
8,000	-	129	-	133	97	83	-	120	24
10,000	-	143	-	147	94	70	-	133	24
15,000	-	172	-	177	49	70	-	157	-
20,000	-	195	-	201	49	-	-	174	-
30,000	-	-	-	236	-	-	-	195	-
40,000	-	-	-	261	-	-	-	202	-
50,000	-	-	-	278	-	-	-	196	-
60,000	-	-	-	288	-	-	-	176	-
70,000	-	-	-	293	-	-	-	137	-
80,000	-	-	-	293	-	-	-	137	-
100,000	-	-	-	275	-	-	-	-	-
140,000	-	-	-	231	-	-	-	-	-

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, or race groups listed, use the standard error for the next larger group, e.g., when determining the standard error

of the estimated number of employed persons age 20 to 54 years, use the column for total employed.

Table E. Standard errors for estimates of month-to-month change

(in thousands)

Estimated monthly level	Characteristic ¹							
	Unemployment				Labor force data other than unemployment and agricultural employment ²			
	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years
50 . . .	12	13	12	13	8	8	13	13
100 . . .	16	18	17	18	11	11	18	18
500 . . .	37	40	38	35	25	25	40	34
1,000 . . .	51	54	52	38	36	35	55	36
2,000 . . .	72	70	69		50	47	74	36
4,000 . . .	99	78	85		70	62	93	
6,000 . . .	118	60	87		86	70	97	
8,000 . . .	132				98	73	90	
10,000 . . .	143				109	71	90	
15,000 . . .	160				131	42	90	
20,000 . . .	165				149	42		
30,000 . . .					175			
40,000 . . .					194			
50,000 . . .					207			
60,000 . . .					215			
70,000 . . .					219			
80,000 . . .					219			
100,000 . . .					208			
140,000 . . .					179			

¹ See footnote 1, table D.

² Part-time labor force for unemployment also includes persons reentering

the labor force, persons who left their last job, and persons by duration of unemployment.

a year prior to this the unemployment rate was 6.1 percent, based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table F (0.12 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by $0.12 \times 1.40 \doteq 0.17$ percentage point.

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

Standard error of year-to-year change =

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

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

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

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

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

or about 259,000.

Table F. Standard errors for unemployment rates

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
		2	5	10	15	20	25	30	35	50
50	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.51	9.87	10.21
100	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 . . . . .	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 . . . . .	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 . . . . .	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 . . . . .	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 . . . . .	.19	.27	.42	.57	.68	.76	.82	.87	.90	.93
10,000 . . . . .	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 . . . . .	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 . . . . .	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.22
140,000 . . . . .	.04	.06	.09	.12	.14	.16	.17	.18	.19	.20

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

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
		2	5	10	15	20	25	30	35	50
50	2.32	3.28	5.14	7.18	8.69	9.90	10.93	11.81	12.58	14.38
100	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 . . . . .	.73	1.04	1.63	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 . . . . .	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 . . . . .	.37	.52	.81	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 . . . . .	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 . . . . .	.21	.30	.47	.65	.78	.89	.98	1.05	1.11	1.26
10,000 . . . . .	.16	.23	.36	.50	.60	.68	.75	.80	.85	.94
20,000 . . . . .	.12	.16	.25	.35	.42	.47	.51	.54	.57	
60,000 . . . . .	.07	.09	.14	.19	.22	.23	.24			
100,000 . . . . .	.05	.07	.11	.14	.15	.15				
140,000 . . . . .	.04	.06	.09							

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

Monthly base of percentages (in thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.14	3.01	4.69	6.46	7.68	8.61	9.32	9.86	10.27	10.76
100	1.51	2.13	3.32	4.57	5.43	6.09	6.59	6.97	7.26	7.61
500 . . . . .	.68	.95	1.48	2.04	2.43	2.72	2.95	3.12	3.25	3.40
1,000 . . . . .	.48	.67	1.05	1.44	1.72	1.92	2.08	2.21	2.30	2.41
2,000 . . . . .	.34	.48	.74	1.02	1.22	1.36	1.47	1.56	1.62	1.70
4,000 . . . . .	.24	.34	.52	.72	.86	.96	1.04	1.10	1.15	1.20
6,000 . . . . .	.20	.28	.43	.59	.70	.79	.85	.90	.94	.98
10,000 . . . . .	.15	.21	.33	.46	.54	.61	.66	.70	.73	.76
20,000 . . . . .	.11	.15	.23	.32	.38	.43	.47	.49	.51	.54
40,000 . . . . .	.08	.11	.17	.23	.27	.30	.33	.35	.36	.38
60,000 . . . . .	.06	.09	.14	.19	.22	.25	.27	.28	.30	.31
80,000 . . . . .	.05	.08	.12	.16	.19	.22	.23	.25	.26	.27
100,000 . . . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
160,000 . . . . .	.04	.05	.08	.11	.13	.15	.16	.17	.18	.19

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

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

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

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

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

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

(In thousands)

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

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

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

industry indicated by the principal product or activity.

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

Industry employment

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

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

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

Indexes of diffusion of changes in number of employees on nonagricultural payrolls. These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 185 seasonally adjusted employment series (two-digit non-manufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December issue of *Employment and Earnings*.

Industry hours and earnings

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

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

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

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

Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

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

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

Average weekly hours. The workweek information relates to the average hours for which pay was received and is differ-

ent from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

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

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

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

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

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

Average hourly earnings, including lump-sum wage payments. This series is compiled only for aircraft manufactur-

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

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

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

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

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

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

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

ESTIMATING METHODS

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

The "link relative" technique

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

Size and regional stratification

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

Benchmark adjustments

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

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

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

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
Monthly data		
All employees .	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. ¹	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees .	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. ²	Sum of production or nonsupervisory worker estimates, or estimates of women employees, for component cells.
Average weekly hours .	Production or nonsupervisory worker hours divided by number of production or nonsupervisory workers. ²	Average, weighted by production or nonsupervisory worker employment, of the average weekly hours for component cells.
Average weekly overtime hours .	Production worker overtime hours divided by number of production workers. ²	Average, weighted by production worker employment, of the average weekly overtime hours for component cells.
Average hourly earnings .	Total production or nonsupervisory worker payroll divided by total production or nonsupervisory worker hours. ²	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Average weekly earnings .	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.
Annual average data		
All employees, women employees, and production or nonsupervisory workers .	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Average weekly hours .	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours .	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Average hourly earnings .	Annual total of aggregate payrolls (product of production or nonsupervisory worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Average weekly earnings .	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.

The estimates are computed by multiplying the above product by bias adjustment factors, which compensate for the underrepresentation of newly formed enterprises and other sources of bias in the sample.

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by

a wedging technique designed to compensate for changes in the sample arising mainly from the voluntary character of the reporting. The wedging procedure accepts the advantage of continuity from the use of the matched sample and, at the same time, tapers or wedges the estimate toward the level of the latest sample average.

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

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

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

THE SAMPLE

Design

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

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

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

¹Less than 0.05 percent.

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

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

Coverage

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

Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1986¹

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

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

² National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 62 percent of employment in Federal establishments.

Reliability

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

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

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

(In percent)

Industry	Average benchmark revision in estimates of employment ¹	Relative error ²	
		Average weekly hours	Average hourly earnings
Total	0.2		
Total private	.3	0.1	0.2
Mining	2.7	1.0	1.3
Construction	1.2	.2	.5
Manufacturing	.7	.1	.2
Durable goods	.8	.1	.3
Nondurable goods	.7	.1	.2
Transportation and public utilities	.4	.7	.6
Wholesale trade	.7	.2	.4
Retail trade	1.0	.2	.4
Finance, insurance, and real estate	.2	.2	.4
Services	.2	.4	.6
Government ³	.4	—	—

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

² Relative errors relate to 1982 data.

³ Estimates for government are based on a total count for Federal Government provided by the Office of Personnel Management and a sample of State and local government reports.

relative errors of the estimate. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates:

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

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

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

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

STATISTICS FOR STATES AND AREAS

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

Table P. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings

Size of employment estimate	Root-mean-square error of employment estimates ¹	Relative error ² (in percent)	
		Average weekly hours	Average hourly earnings
50,000	2,100	2.2	4.0
100,000	3,900	1.3	2.3
200,000	5,600	1.1	2.0
500,000	14,000	.9	1.6
1,000,000	15,000	.8	1.2
2,000,000	26,000	.5	.9

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to 1982 data.

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

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

Table Q. Errors of preliminary employment estimates

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

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

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

COLLECTION

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

CONCEPTS

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

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

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

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

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

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

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

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

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

NOTES ON THE DATA

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

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

State and Area Labor Force Data (D table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

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

published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

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

ESTIMATING METHODS

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

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

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

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

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

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

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

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

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

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

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

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

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

Seasonal Adjustment

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

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

Beginning in January 1980, BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal adjustment factors are calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a set of seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

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

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

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

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours.

Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production

or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, wholesale trade, retail trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series, however.

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

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

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

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