



EMPLOYMENT AND EARNINGS

May 1988

U.S. Department of Labor
Bureau of Labor Statistics





U.S. DEPARTMENT OF LABOR

Ann McLaughlin, Secretary

BUREAU OF LABOR STATISTICS

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

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Calendar of Features

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

Household data

Annual averages	Jan.
Union affiliation	Jan.
Revised seasonally adjusted series	Jan., Feb.

Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-era veterans and nonveterans, family relationship data, weekly earnings data, and metropolitan-nonmetropolitan and poverty-nonpoverty area data	Jan., Apr., July, Oct.
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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	Supplement ¹
State and area annual averages	May
Area definitions	May

State and area labor force data

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

Employment and Earnings

Vol. 35 No. 5 May 1988

Editors: Gloria Peterson Green, Rosalie K. Epstein

Editors' Note

The national establishment-based series on employment, hours, and earnings in the June issue will reflect the annual revision to new benchmark levels and updated seasonal adjustment factors.

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Employment and Unemployment Developments, April 1988

Employment rose and unemployment declined further in April. Both the overall and the civilian worker jobless rates edged down to 5.4 percent.

Nonagricultural payroll employment—as measured by the monthly survey of business establishments—rose by 175,000 in April. Total civilian employment—as estimated through the monthly survey of households—showed an increase of about 600,000, following a decline of about half that amount in the prior month. Over the past 12 months, the employment estimates from the establishment and the household surveys have risen by 3.2 and 2.9 million, respectively.

Unemployment

About 6.6 million persons were unemployed in April, almost 200,000 fewer than in March (after seasonal adjustment). Practically all of the improvement resulted from a decline in the number of unemployed persons who had lost their last jobs. The civilian worker unemployment rate declined by 0.2 percentage point over the month to 5.4 percent. (See tables A-33 and A-41.)

Unemployment resumed its downward trend in late 1987, following several months of little or no change. Since October 1987, the jobless total has fallen by more than half a million and the jobless rate by more than half a percentage point.

Nearly all of the March-to-April decline in unemployment occurred among adult men, as their jobless rate fell three-tenths of a point to 4.6 percent. The jobless rate for adult women, which had declined in March, was unchanged at 4.8 percent, while rates for the other major demographic groups—teenagers (15.9 percent), whites (4.6 percent), blacks (12.2 percent), and Hispanics (9.3 percent)—were little changed. (See tables A-33 and A-34.)

The median duration of unemployment declined by a full week to 5.6 weeks, the lowest level since early 1980. (See table A-40.)

Civilian employment and the labor force

Total civilian employment rose by 610,000 on a seasonally adjusted basis in April to a level of 114.7 million. This followed a decline of 300,000 in March. The percentage of the total civilian population that was working—the employment-population ratio—was a record 62.3 percent. (See table A-33.)

The civilian labor force also rebounded in April. It rose by 420,000 to 121.3 million, returning to about the February level. As a result, the labor force participation rate rose

two-tenths of a percentage point to 65.9 percent. Over the year, the labor force grew by 1.9 million, with adult women comprising about 3 out of every 5 added workers. (See table A-33.)

Industry payroll employment

Total nonagricultural payroll employment increased by 175,000 in April to a level of 104.8 million, seasonally adjusted. This growth followed gains averaging 350,000 during the first quarter. April's rather modest growth featured renewed strength in both manufacturing and mining. (See table B-4.)

In the goods-producing sector, factory jobs rose by 45,000, mostly in industries which have increased their exports in recent months. Two component industries—fabricated metal products and machinery—accounted for half of the gain. Mining posted an unusually strong pickup of 15,000. Construction employment, which had posted substantial gains in the previous 2 months, was unchanged in April on a seasonally adjusted basis.

In the service-producing sector, the services industry showed a modest employment gain of 55,000, with much of the increase in health services. Wholesale trade continued its pattern of consistent job growth, rising by 15,000 in April, and by 175,000 over the year. Employment in finance, insurance, and real estate also increased, with the insurance component accounting for most of the gain. There was little growth in retail trade, government, and transportation and public utilities.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls rose 0.3 hour in April to 34.9 hours, seasonally adjusted. Similarly, the manufacturing workweek increased 0.2 hour to 41.2. Factory overtime rose 0.3 hour to 4.0 hours, matching the historically high level attained last October. These seasonally adjusted increases, however, may overstate the underlying movement, because of technical factors associated with the way the seasonal adjustment process deals with the timing of Easter week. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 124.3 (1977=100), climbed 1.0 percent in April, after seasonal adjustment. The manufacturing index rose 0.8 percent to 96.1. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private production or non-supervisory workers increased 0.5 percent in April, seasonally adjusted, while average weekly earnings climbed by 1.4 percent, largely reflecting the increase in the workweek. Prior to seasonal adjustment, average hourly earnings rose by 3 cents to \$9.22, and average weekly earnings jumped \$3.80 to \$320.86. (See tables C-1 and C-7.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 177.6 (1977=100) in April, seasonally adjusted, an increase of 0.5 percent from March. For the 12 months ended in April, the increase was 2.9 percent. In dollars of constant purchasing power, the HEI decreased 1.0 percent during the 12-month period ending in March. 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>
May	June 3	August	September 2
June	July 8	September	October 7
July	August 5	October	November 4

**HOUSEHOLD DATA
HISTORICAL**

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

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force								Not in labor force	
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number		Percent of labor force
						Total	Agriculture	Nonagricultural industries			
Annual averages											
1954	110,463	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,678
1955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660
1956	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402
1957	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336
1958	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088
1959	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960
1960 ¹	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617
1961	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312
1962 ¹	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539
1963	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583
1964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394
1965	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058
1966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288
1967	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527
1968	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291
1969	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602
1970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834
1972 ¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091
1973 ¹	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667
1974	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171
1975	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377
1976	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991
1977	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025
1978 ¹	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
1980	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460
1982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067
1983	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665
1984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986 ¹	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
1987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
Monthly data, seasonally adjusted²											
1987:											
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	121,610	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	122,128	66.0	114,951	1,741	113,210	3,249	109,961	7,177	5.9	62,924
November	185,225	122,349	66.1	115,259	1,755	113,504	3,172	110,332	7,090	5.8	62,876
December	185,370	122,472	66.1	115,494	1,750	113,744	3,215	110,529	6,978	5.7	62,898
1988:											
January	185,571	122,924	66.2	115,878	1,749	114,129	3,293	110,836	7,046	5.7	62,647
February	185,705	123,084	66.3	116,145	1,736	114,409	3,228	111,182	6,938	5.6	62,621
March	185,847	122,639	66.0	115,839	1,736	114,103	3,204	110,899	6,801	5.5	63,208
April	185,964	123,055	66.2	116,445	1,732	114,713	3,228	111,485	6,610	5.4	62,909

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:												
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	
April	89,225	68,445	76.7	64,892	1,569	63,323	2,467	60,856	3,553	5.2	20,780	
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:												
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	50,666	162	50,504	637	49,867	3,264	6.1	42,291	
October	96,295	54,181	56.3	50,903	161	50,742	680	50,062	3,278	6.1	42,114	
November	96,376	54,330	56.4	51,085	162	50,923	681	50,242	3,245	6.0	42,046	
December	96,446	54,442	56.4	51,249	161	51,088	692	50,396	3,193	5.9	42,004	
1988:												
January	96,538	54,681	56.6	51,482	161	51,321	700	50,621	3,200	5.9	41,857	
February	96,606	54,740	56.7	51,509	159	51,350	717	50,633	3,231	5.9	41,866	
March	96,679	54,491	56.4	51,507	163	51,344	730	50,614	2,985	5.5	42,188	
April	96,739	54,610	56.5	51,553	163	51,390	761	50,629	3,057	5.6	42,129	

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	93,777	61.2	85,846	7,929	8.5	7.9	9.3
1976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 ¹	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 ¹	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
Monthly data, seasonally adjusted ²								
1987:								
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
April	184,232	121,323	65.9	114,713	6,610	5.4	5.3	5.6

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	April 1988										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
TOTAL											
16 years and over	184,232	120,264	65.3	113,905	6,359	5.3	63,968	28,167	9,669	3,194	22,938
16 to 19 years	14,598	7,357	50.4	6,239	1,118	15.2	7,241	372	6,416	39	414
16 to 17 years	7,368	3,007	40.8	2,454	553	18.4	4,381	86	4,092	6	177
18 to 19 years	7,230	4,350	60.2	3,785	566	13.0	2,880	286	2,324	33	237
20 to 24 years	18,513	14,248	77.0	13,028	1,220	8.6	4,265	1,517	2,015	116	617
25 to 54 years	100,950	83,513	82.7	79,956	3,558	4.3	17,437	12,096	1,196	1,171	2,973
25 to 34 years	42,507	35,304	83.1	33,509	1,795	5.1	7,203	5,055	805	302	1,042
25 to 29 years	21,307	17,649	82.8	16,689	961	5.4	3,657	2,447	514	144	552
30 to 34 years	21,200	17,655	83.3	16,821	834	4.7	3,546	2,608	290	159	489
35 to 44 years	34,590	29,229	84.5	28,093	1,136	3.9	5,362	3,736	323	417	885
35 to 39 years	18,764	15,895	84.7	15,270	625	3.9	2,869	2,029	202	154	493
40 to 44 years	15,826	13,333	84.2	12,822	512	3.8	2,493	1,715	121	264	393
45 to 54 years	23,853	18,981	79.6	18,354	627	3.3	4,872	3,306	89	451	1,047
45 to 49 years	12,831	10,573	82.4	10,191	383	3.6	2,258	1,572	38	205	444
50 to 54 years	11,022	8,408	76.3	8,163	244	2.9	2,614	1,734	31	247	603
55 to 64 years	21,841	11,844	54.7	11,450	394	3.3	9,797	4,883	29	788	4,097
55 to 59 years	10,835	7,141	65.9	6,875	265	3.7	3,694	2,155	21	365	1,154
60 to 64 years	10,806	4,703	43.5	4,575	129	2.7	6,102	2,728	8	423	2,943
65 years and over	28,530	3,302	11.6	3,233	69	2.1	25,228	9,299	12	1,081	14,836
65 to 69 years	9,834	1,946	19.8	1,906	40	2.1	7,889	2,963	7	253	4,675
70 to 74 years	7,679	862	11.2	846	15	1.7	6,816	2,552	7	233	4,025
75 years and over	11,017	494	4.5	482	13	2.6	10,524	3,785	6	596	6,136
Men											
16 years and over	87,656	66,229	75.6	62,719	3,510	5.3	21,427	556	4,817	1,749	14,306
16 to 19 years	7,329	3,787	51.7	3,215	572	15.1	3,543	16	3,280	28	219
16 to 17 years	3,750	1,553	41.4	1,279	274	17.7	2,197	12	2,084	4	96
18 to 19 years	3,580	2,234	62.4	1,936	297	13.3	1,346	3	1,195	24	123
20 to 24 years	8,969	7,468	83.3	6,809	659	8.8	1,501	26	1,062	80	333
25 to 54 years	49,342	46,172	93.6	44,178	1,992	4.3	3,170	224	458	759	1,728
25 to 34 years	20,898	19,637	94.0	18,633	1,004	5.1	1,261	80	337	217	628
25 to 29 years	10,460	9,769	93.4	9,250	519	5.3	691	27	235	102	327
30 to 34 years	10,438	9,868	94.5	9,383	485	4.9	570	53	102	115	300
35 to 44 years	18,897	15,961	84.5	15,313	647	4.1	936	82	100	273	482
35 to 39 years	9,185	8,711	94.8	8,384	327	3.8	474	44	64	114	252
40 to 44 years	7,712	7,250	94.0	6,929	321	4.4	462	37	36	159	230
45 to 54 years	11,547	10,574	91.6	10,233	341	3.2	973	63	21	269	619
45 to 49 years	6,234	5,826	93.5	5,630	197	3.4	408	24	11	127	246
50 to 54 years	5,313	4,748	89.4	4,603	144	3.0	565	40	10	143	373
55 to 64 years	10,195	6,877	67.5	6,625	252	3.7	3,318	110	17	483	2,708
55 to 59 years	5,155	4,103	79.6	3,944	160	3.9	1,052	57	15	222	759
60 to 64 years	5,039	2,774	55.0	2,681	92	3.3	2,266	54	2	261	1,949
65 years and over	11,821	1,926	16.3	1,892	35	1.8	9,895	178	1	398	9,317
65 to 69 years	4,465	1,093	24.5	1,074	19	1.8	3,372	42	1	126	3,205
70 to 74 years	3,298	520	15.8	514	6	1.2	2,777	41	1	100	2,635
75 years and over	4,058	313	7.7	304	9	2.8	3,746	96	1	173	3,477
Women											
16 years and over	96,576	54,035	56.0	51,186	2,849	5.3	42,541	27,611	4,853	1,445	8,632
16 to 19 years	7,269	3,570	49.1	3,024	547	15.3	3,699	356	3,136	11	195
16 to 17 years	3,618	1,453	40.2	1,175	278	19.1	2,165	74	2,008	2	81
18 to 19 years	3,650	2,117	58.0	1,848	268	12.7	1,534	282	1,129	9	114
20 to 24 years	9,544	6,780	71.0	6,219	561	8.3	2,764	1,491	953	36	284
25 to 54 years	51,608	37,341	72.4	35,776	1,565	4.2	14,287	11,872	738	412	1,245
25 to 34 years	21,609	15,667	72.5	14,877	790	5.0	5,942	4,975	467	86	414
25 to 29 years	10,847	7,880	72.7	7,439	442	5.6	2,966	2,420	279	42	225
30 to 34 years	10,762	7,787	72.4	7,438	349	4.5	2,976	2,555	188	44	189
35 to 44 years	17,693	13,268	75.0	12,779	489	3.7	4,426	3,654	223	145	403
35 to 39 years	9,579	7,184	75.0	6,886	298	4.1	2,395	1,976	138	40	241
40 to 44 years	8,114	6,083	75.0	5,893	191	3.1	2,031	1,678	85	105	163
45 to 54 years	12,306	8,407	68.3	8,121	286	3.4	3,899	3,242	48	181	428
45 to 49 years	6,597	4,747	72.0	4,561	186	3.9	1,850	1,548	27	78	198
50 to 54 years	5,709	3,660	64.1	3,560	100	2.7	2,049	1,694	21	104	230
55 to 64 years	11,446	4,967	43.4	4,825	142	2.9	6,479	4,772	13	305	1,389
55 to 59 years	5,679	3,038	53.5	2,932	106	3.5	2,642	2,098	7	142	395
60 to 64 years	5,767	1,930	33.5	1,894	36	1.9	3,837	2,674	6	162	994
65 years and over	16,709	1,376	8.2	1,341	34	2.5	15,333	9,121	12	682	5,519
65 to 69 years	5,369	853	15.9	832	21	2.5	4,517	2,921	127	127	1,470
70 to 74 years	4,381	342	7.8	332	9	2.6	4,039	2,511	6	133	1,390
75 years and over	6,959	181	2.6	178	4	2.0	6,778	3,689	6	423	2,659

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	April 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	157,943	103,758	65.7	99,141	4,617	4.5	54,185	24,493	7,373	2,448	19,871
16 to 19 years	11,885	6,445	54.2	5,569	876	13.6	5,439	261	4,862	35	282
16 to 17 years	5,966	2,665	44.7	2,219	446	16.8	3,301	74	3,072	6	148
18 to 19 years	5,919	3,780	63.9	3,351	430	11.4	2,139	187	1,789	29	134
20 to 24 years	15,375	12,147	79.0	11,351	796	6.6	3,228	1,153	1,613	74	388
25 to 54 years	85,985	71,671	83.4	69,101	2,571	3.6	14,314	10,298	870	890	2,257
25 to 34 years	35,838	30,052	83.9	28,808	1,244	4.1	5,786	4,205	590	232	759
25 to 29 years	17,894	14,990	83.8	14,302	688	4.6	2,904	2,018	384	114	388
30 to 34 years	17,944	15,062	83.9	14,506	556	3.7	2,882	2,186	206	119	371
35 to 44 years	29,640	25,172	84.9	24,338	834	3.3	4,468	3,236	224	332	676
35 to 39 years	15,959	13,593	85.2	13,143	450	5.4	2,366	1,745	131	114	383
40 to 44 years	13,681	11,579	84.6	11,195	384	3.3	2,102	1,494	94	217	293
45 to 54 years	20,508	16,448	80.2	15,955	493	3.0	4,060	2,857	55	327	821
45 to 49 years	11,007	9,149	83.1	8,855	294	3.2	1,858	1,350	28	151	336
50 to 54 years	9,500	7,299	76.8	7,100	199	4.0	2,201	1,551	27	176	484
55 to 64 years	19,051	10,557	55.4	10,239	318	3.0	8,494	4,321	16	592	3,565
55 to 59 years	9,485	6,348	66.9	6,135	213	3.4	3,137	1,869	9	269	989
60 to 64 years	9,566	4,208	44.0	4,104	104	2.5	5,357	2,451	7	323	2,576
65 years and over	25,647	2,937	11.5	2,881	56	1.9	22,709	8,461	12	857	13,379
65 to 69 years	8,753	1,727	19.7	1,697	31	1.8	7,026	2,667	-	185	4,175
70 to 74 years	6,905	761	11.0	749	13	1.7	6,144	2,313	7	197	3,627
75 years and over	9,988	449	4.5	436	13	2.9	9,539	3,481	6	475	5,577
Men											
16 years and over	75,716	57,741	76.3	55,119	2,622	4.5	17,975	421	3,678	1,373	12,505
16 to 19 years	5,992	3,311	55.3	2,844	466	14.1	2,681	12	2,504	25	140
16 to 17 years	3,053	1,383	45.3	1,148	235	17.0	1,669	9	1,579	4	77
18 to 19 years	2,939	1,927	65.6	1,696	231	12.0	1,012	3	925	21	63
20 to 24 years	7,519	6,375	84.8	5,944	432	6.8	1,144	26	862	45	211
25 to 54 years	42,535	40,173	94.4	38,679	1,495	3.7	2,362	162	301	598	1,301
25 to 34 years	17,842	16,916	94.8	16,191	725	4.3	926	68	231	164	464
25 to 29 years	8,881	8,376	94.3	7,992	384	4.6	506	23	171	85	226
30 to 34 years	8,961	8,540	95.3	8,199	341	4.0	421	45	59	79	238
35 to 44 years	14,651	13,959	95.3	13,465	494	3.5	692	63	56	220	353
35 to 39 years	7,916	7,580	95.8	7,330	250	3.3	336	31	34	86	185
40 to 44 years	6,735	6,379	94.7	6,136	244	3.8	356	31	22	134	168
45 to 54 years	10,042	9,298	92.6	9,023	276	3.0	744	31	15	215	484
45 to 49 years	5,406	5,103	94.4	4,947	156	3.0	304	14	8	102	179
50 to 54 years	4,636	4,196	90.5	4,076	120	2.9	440	17	7	113	304
55 to 64 years	9,024	6,155	68.2	5,953	202	3.3	2,869	79	9	375	2,406
55 to 59 years	4,550	3,677	80.8	3,547	129	3.5	873	34	7	165	667
60 to 64 years	4,474	2,478	55.4	2,405	73	2.9	1,996	45	2	210	1,739
65 years and over	10,645	1,727	16.2	1,700	27	1.5	8,918	142	1	329	8,446
65 to 69 years	3,994	987	24.7	975	12	1.2	3,007	35	-	95	2,877
70 to 74 years	2,981	464	15.6	458	6	1.3	2,517	28	1	96	2,392
75 years and over	3,670	276	7.5	267	9	3.1	3,394	79	-	138	3,177
Women											
16 years and over	82,227	46,017	56.0	44,021	1,996	4.3	36,210	24,071	3,697	1,076	7,366
16 to 19 years	5,893	3,135	53.2	2,725	410	13.1	2,758	249	2,358	10	142
16 to 17 years	2,913	1,282	44.0	1,070	212	16.5	1,632	65	1,493	2	71
18 to 19 years	2,980	1,853	62.2	1,655	198	10.7	1,127	183	865	8	71
20 to 24 years	7,855	5,771	73.5	5,407	364	6.3	2,084	1,127	751	29	177
25 to 54 years	43,450	31,498	72.5	30,422	1,076	3.4	11,952	10,136	569	292	956
25 to 34 years	17,996	13,136	73.0	12,618	519	3.9	4,860	4,136	360	69	295
25 to 29 years	9,013	6,614	73.4	6,310	304	4.6	2,398	1,995	213	29	162
30 to 34 years	8,983	6,522	72.6	6,307	215	3.3	2,461	2,141	147	40	133
35 to 44 years	14,989	11,213	74.8	10,872	340	3.0	3,777	3,173	169	112	323
35 to 39 years	8,043	6,013	74.8	5,813	200	3.3	2,030	1,707	97	28	198
40 to 44 years	6,946	5,200	74.9	5,059	140	2.7	1,746	1,466	72	83	125
45 to 54 years	10,465	7,150	68.3	6,932	217	3.0	3,316	2,825	41	112	338
45 to 49 years	5,601	4,046	72.2	3,908	138	3.4	1,554	1,328	20	49	157
50 to 54 years	4,864	3,103	63.8	3,024	79	2.5	1,761	1,497	20	63	180
55 to 64 years	10,027	4,401	43.9	4,286	115	2.6	5,625	4,241	8	217	1,159
55 to 59 years	4,936	2,672	54.1	2,588	84	3.1	2,264	1,835	2	104	322
60 to 64 years	5,091	1,730	34.0	1,698	31	1.8	3,361	2,406	5	113	837
65 years and over	15,002	1,211	8.1	1,181	30	2.4	13,791	8,319	11	528	4,933
65 to 69 years	4,759	740	15.6	722	19	2.5	4,019	2,632	-	90	1,298
70 to 74 years	3,924	297	7.6	291	7	2.4	3,627	2,285	6	101	1,235
75 years and over	6,318	173	2.7	169	4	2.2	6,145	3,402	6	337	2,400

**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	April 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	20,622	12,941	62.8	11,394	1,547	12.0	7,681	2,803	1,632	676	2,568
16 to 19 years	2,179	737	33.8	516	221	30.0	1,442	96	1,224	3	119
16 to 17 years	1,135	271	23.9	176	95	34.9	864	8	831		26
18 to 19 years	1,044	466	44.7	339	127	27.2	577	88	393	3	93
20 to 24 years	2,538	1,710	67.4	1,312	398	23.3	828	317	268	41	202
25 to 54 years	11,405	9,173	80.4	8,314	859	9.4	2,234	1,272	129	236	595
25 to 34 years	5,214	4,235	81.2	3,729	506	11.9	960	600	80	55	244
25 to 29 years	2,667	2,135	80.1	1,889	247	11.6	532	303	48	29	151
30 to 34 years	2,548	2,100	82.4	1,840	260	12.4	448	297	31	26	92
35 to 44 years	3,680	3,049	82.9	2,793	256	8.4	631	338	47	80	166
35 to 39 years	2,105	1,743	82.8	1,598	145	8.3	362	188	43	39	92
40 to 44 years	1,575	1,306	82.9	1,196	111	8.5	269	149	4	41	75
45 to 54 years	2,511	1,888	75.2	1,791	97	5.1	623	334	2	101	185
45 to 49 years	1,335	1,036	77.6	978	58	5.6	300	170	2	45	84
50 to 54 years	1,176	852	72.4	814	40	4.7	323	164	1	57	102
55 to 64 years	2,108	1,040	49.3	984	56	5.4	1,068	438	11	188	431
55 to 59 years	1,100	637	57.9	596	41	6.4	463	228	10	89	136
60 to 64 years	1,008	403	40.0	388	15	3.8	604	209	1	99	296
65 years and over	2,391	281	11.8	269	13	4.6	2,109	680		208	1,221
65 to 69 years	875	168	19.2	158	10	6.0	706	223		64	420
70 years and over	1,516	113	7.5	111	2	1.8	1,402	457		144	801
Men											
16 years and over	9,257	6,529	70.5	5,758	772	11.8	2,727	109	788	341	1,488
16 to 19 years	1,074	387	36.0	291	96	24.8	687	1	612	3	71
16 to 17 years	572	135	23.6	100	35	26.0	438	1	418		19
18 to 19 years	502	252	50.3	191	61	24.3	249	1	193	3	52
20 to 24 years	1,156	891	77.1	676	216	24.2	265	-	125	35	104
25 to 54 years	5,111	4,520	88.4	4,103	417	9.2	592	53	45	135	358
25 to 34 years	2,357	2,126	90.2	1,879	247	11.6	231	12	37	40	142
25 to 29 years	1,205	1,074	89.1	962	113	10.5	131	4	17	17	93
30 to 34 years	1,152	1,052	91.3	918	134	12.7	100	8	20	23	48
35 to 44 years	1,639	1,461	89.1	1,334	127	8.7	178	14	9	48	107
35 to 39 years	938	837	89.2	777	60	7.1	101	8	8	27	58
40 to 44 years	701	624	89.1	557	67	10.8	77	6	1	21	49
45 to 54 years	1,115	933	83.6	889	44	4.7	183	27	-1	47	109
45 to 49 years	593	517	87.1	492	25	4.8	77	4		23	51
50 to 54 years	522	416	79.7	398	19	4.5	106	23		24	59
55 to 64 years	950	575	60.5	540	34	6.0	375	25	6	103	242
55 to 59 years	498	345	69.2	320	24	7.1	153	18	6	53	76
60 to 64 years	452	230	50.9	220	10	4.3	222	6		50	167
65 years and over	965	156	16.2	148	8	5.4	809	30		65	713
65 to 69 years	382	79	20.7	71	8	10.0	302	5		31	266
70 years and over	583	77	13.2	77	-	.6	506	25		34	447
Women											
16 years and over	11,365	6,412	56.4	5,636	775	12.1	4,954	2,693	844	336	1,081
16 to 19 years	1,105	350	31.7	225	125	35.8	755	95	612	-	48
16 to 17 years	563	136	24.2	76	60	43.8	427	7	413		7
18 to 19 years	542	214	39.4	148	65	30.6	328	87	200		41
20 to 24 years	1,382	819	59.2	636	182	22.3	563	317	143	6	98
25 to 54 years	6,294	4,653	73.9	4,211	442	9.5	1,642	1,219	84	101	237
25 to 34 years	2,857	2,109	73.8	1,850	259	12.3	749	568	43	15	102
25 to 29 years	1,462	1,061	72.6	927	134	12.6	401	299	31	12	58
30 to 34 years	1,396	1,048	75.1	922	126	12.0	348	289	11	3	44
35 to 44 years	2,041	1,588	77.8	1,459	129	8.1	453	324	38	32	59
35 to 39 years	1,167	906	77.6	821	85	9.4	261	180	35	12	34
40 to 44 years	874	682	78.0	639	44	6.4	192	143	3	20	26
45 to 54 years	1,396	955	68.5	902	54	5.6	440	307	3	54	76
45 to 49 years	742	519	70.0	486	33	6.3	223	166	2	22	33
50 to 54 years	654	436	66.8	416	21	4.7	217	141	1	33	43
55 to 64 years	1,158	466	40.2	444	22	4.7	693	413	5	85	189
55 to 59 years	603	292	48.5	276	16	5.6	310	210	4	36	60
60 to 64 years	556	173	31.2	168	6	3.2	382	203	1	49	129
65 years and over	1,426	125	8.8	121	4	3.6	1,301	650		143	508
65 to 69 years	493	89	18.0	87	2	2.4	404	218		33	154
70 years and over	933	36	3.9	34	2	(¹)	896	432		110	354

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

A-5. Employment status of the black-and-other civilian noninstitutional population by age and sex

(Numbers in thousands)

Age and sex	April 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	26,289	16,506	62.8	14,764	232	14,533	1,742	10.6	9,783	
16 to 19 years	2,713	912	33.6	669	15	654	242	26.6	1,802	
16 to 17 years	1,402	342	24.4	235	1	235	106	31.1	1,061	
18 to 19 years	1,311	570	43.5	434	15	419	136	23.9	741	
20 to 24 years	3,138	2,101	66.9	1,677	22	1,655	424	20.2	1,037	
25 to 54 years	14,964	11,842	79.1	10,854	139	10,715	986	8.3	3,123	
25 to 34 years	6,669	5,251	78.7	4,701	77	4,625	550	10.5	1,417	
25 to 29 years	3,413	2,659	77.9	2,387	43	2,343	272	10.2	753	
30 to 34 years	3,256	1,399	43.0	2,315	33	2,281	278	19.9	664	
35 to 44 years	4,950	4,057	82.0	3,755	36	3,719	302	7.4	893	
35 to 39 years	2,805	2,302	82.1	2,127	17	2,112	175	7.6	503	
40 to 44 years	2,144	1,755	81.9	1,627	20	1,608	127	7.2	390	
45 to 54 years	3,345	2,533	75.7	2,399	26	2,372	134	5.3	812	
45 to 49 years	1,824	1,424	78.1	1,336	14	1,322	89	6.3	400	
50 to 54 years	1,522	1,109	72.9	1,064	13	1,051	45	4.1	413	
55 to 64 years	2,590	1,287	49.7	1,211	27	1,184	76	5.9	1,302	
55 to 59 years	1,349	792	58.7	740	10	731	52	6.6	557	
60 to 64 years	1,240	495	39.9	471	17	454	24	4.9	745	
65 years and over	2,883	364	12.6	352	28	324	13	3.4	2,519	
65 to 69 years	1,081	218	20.2	208	12	196	10	4.6	863	
70 to 74 years	771	101	13.1	98	8	90	2	2.0	671	
75 years and over	1,031	46	4.5	45	8	38	-	(¹)	985	
Men										
16 years and over	11,940	8,488	71.1	7,600	193	7,407	888	10.5	3,452	
16 to 19 years	1,338	476	35.6	371	8	362	105	22.1	862	
16 to 17 years	697	170	24.4	130	1	130	39	23.2	527	
18 to 19 years	641	306	47.8	240	8	233	66	21.5	334	
20 to 24 years	1,450	1,093	75.4	866	14	852	227	20.8	357	
25 to 54 years	6,806	5,999	88.1	5,500	119	5,381	498	8.3	808	
25 to 34 years	3,056	2,721	89.0	2,442	63	2,379	279	10.3	335	
25 to 29 years	1,579	1,393	88.3	1,258	32	1,226	135	9.7	185	
30 to 34 years	1,477	1,328	89.9	1,184	31	1,153	144	10.8	149	
35 to 44 years	2,246	2,002	89.1	1,848	32	1,816	154	7.7	244	
35 to 39 years	1,269	1,131	89.1	1,054	14	1,041	77	6.8	138	
40 to 44 years	976	871	89.2	794	18	776	77	8.8	106	
45 to 54 years	1,504	1,276	84.8	1,210	24	1,186	65	5.1	229	
45 to 49 years	828	724	87.5	683	14	669	41	5.7	104	
50 to 54 years	677	552	81.5	528	11	517	24	4.4	125	
55 to 64 years	1,170	721	61.6	672	25	647	49	6.9	449	
55 to 59 years	606	426	70.4	396	8	388	30	7.1	179	
60 to 64 years	565	295	52.3	276	17	259	19	6.5	270	
65 years and over	1,176	200	17.0	192	27	165	8	4.0	977	
65 to 69 years	471	106	22.5	98	12	86	8	7.3	365	
70 to 74 years	316	57	18.0	57	7	50	-	(¹)	259	
75 years and over	389	37	9.5	36	8	29	-	(¹)	352	
Women										
16 years and over	14,349	8,018	55.9	7,164	39	7,125	853	10.6	6,331	
16 to 19 years	1,376	436	31.7	299	7	292	137	31.4	940	
16 to 17 years	705	172	24.4	105	-	105	67	38.9	533	
18 to 19 years	670	264	39.3	194	7	187	70	26.6	407	
20 to 24 years	1,689	1,009	59.7	812	8	803	197	19.5	680	
25 to 54 years	8,158	5,843	71.6	5,354	20	5,334	488	8.4	2,315	
25 to 34 years	3,613	2,531	70.0	2,259	14	2,246	271	10.7	1,083	
25 to 29 years	1,834	1,266	69.0	1,129	11	1,117	137	10.9	568	
30 to 34 years	1,779	1,265	71.1	1,131	2	1,128	134	10.6	515	
35 to 44 years	2,704	2,055	76.0	1,907	4	1,902	148	7.2	649	
35 to 39 years	1,536	1,171	76.3	1,073	3	1,071	98	8.4	365	
40 to 44 years	1,188	884	75.6	833	2	832	50	5.7	284	
45 to 54 years	1,841	1,257	68.3	1,188	2	1,186	69	5.5	584	
45 to 49 years	996	700	70.3	653	-	653	48	6.8	296	
50 to 54 years	845	557	65.9	536	2	534	21	3.8	288	
55 to 64 years	1,419	566	39.9	539	2	537	27	4.7	853	
55 to 59 years	744	366	49.2	344	1	343	22	6.0	378	
60 to 64 years	675	200	29.6	195	1	195	5	2.4	475	
65 years and over	1,707	165	9.6	160	1	159	4	2.7	1,542	
65 to 69 years	610	112	18.4	110	-	110	2	1.9	498	
70 to 74 years	455	44	9.7	41	1	40	2	(¹)	412	
75 years and over	642	9	1.4	9	-	9	-	(¹)	633	

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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
TOTAL								
Civilian noninstitutional population	182,344	184,232	79,387	80,326	88,395	89,307	14,562	14,598
Civilian labor force	118,347	120,264	61,660	62,442	49,346	50,465	7,341	7,357
Percent of population	64.9	65.3	77.7	77.7	55.8	56.5	50.4	50.4
Employed	111,041	113,905	58,159	59,504	46,767	48,162	6,115	6,239
Agriculture	3,223	3,193	2,397	2,280	557	637	269	276
Nonagricultural industries	107,817	110,712	55,762	57,224	46,210	47,525	5,845	5,962
Unemployed	7,306	6,359	3,501	2,938	2,579	2,303	1,226	1,118
Unemployment rate	6.2	5.3	5.7	4.7	5.2	4.6	16.7	15.2
Not in labor force	63,997	63,968	17,727	17,884	39,049	38,843	7,221	7,241
White								
Civilian noninstitutional population	156,676	157,943	69,028	69,724	75,705	76,334	11,944	11,885
Civilian labor force	102,168	103,758	53,874	54,430	41,877	42,882	6,417	6,445
Percent of population	65.2	65.7	78.0	78.1	55.3	56.2	53.7	54.2
Employed	96,744	99,141	51,205	52,275	40,041	41,297	5,498	5,569
Agriculture	3,013	2,961	2,231	2,095	520	605	262	261
Nonagricultural industries	93,731	96,179	48,974	50,180	39,521	40,692	5,236	5,308
Unemployed	5,423	4,617	2,669	2,155	1,836	1,586	918	876
Unemployment rate	5.3	4.5	5.0	4.0	4.4	3.7	14.3	13.6
Not in labor force	54,509	54,185	15,154	15,294	33,828	33,451	5,527	5,439
Black								
Civilian noninstitutional population	20,279	20,622	8,033	8,183	10,088	10,260	2,158	2,179
Civilian labor force	12,639	12,941	5,958	6,142	5,912	6,062	769	737
Percent of population	62.3	62.8	74.2	75.1	58.6	59.1	35.6	33.8
Employed	11,024	11,394	5,275	5,467	5,259	5,412	490	516
Agriculture	145	166	119	139	22	15	3	12
Nonagricultural industries	10,879	11,228	5,157	5,328	5,236	5,397	487	503
Unemployed	1,615	1,547	683	675	653	650	279	221
Unemployment rate	12.8	12.0	11.5	11.0	11.1	10.7	36.3	30.0
Not in labor force	7,640	7,681	2,075	2,040	4,176	4,199	1,389	1,442

**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	April 1988									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL ENROLLED										
Total, 16 to 24 years	16,100	7,692	47.8	6,873	1,144	5,730	819	137	682	10.6
16 to 19 years	11,410	4,974	43.6	4,296	416	3,879	678	80	598	13.6
20 to 24 years	4,690	2,718	58.0	2,577	727	1,850	141	57	84	5.2
High school	9,042	3,824	42.3	3,206	210	2,996	618	75	543	16.2
College	7,058	3,868	54.8	3,667	933	2,734	201	62	139	5.2
Full-time students	6,111	2,995	49.0	2,819	350	2,469	176	51	125	5.9
Part-time students	947	873	92.2	848	584	264	25	12	13	2.9
Men, 16 to 24 years	8,269	3,927	47.5	3,513	664	2,849	414	76	338	10.5
16 to 19 years	5,797	2,512	43.3	2,181	243	1,938	331	40	291	13.2
20 to 24 years	2,472	1,415	57.2	1,332	421	911	83	36	47	5.9
High school	4,752	2,026	42.6	1,709	145	1,564	317	42	275	15.6
College	3,517	1,901	54.0	1,804	519	1,285	97	34	63	5.1
Full-time students	3,085	1,491	48.3	1,406	234	1,172	85	29	57	5.7
Part-time students	432	410	94.8	398	285	113	12	6	6	2.9
Women, 16 to 24 years	7,830	3,765	48.1	3,360	479	2,881	405	61	344	10.8
16 to 19 years	5,613	2,462	43.9	2,115	173	1,941	348	40	307	14.1
20 to 24 years	2,217	1,303	58.7	1,246	306	939	57	20	37	4.4
High school	4,290	1,798	41.9	1,497	65	1,432	301	33	268	16.7
College	3,540	1,967	55.6	1,863	414	1,449	104	28	76	5.3
Full-time students	3,026	1,504	49.7	1,414	116	1,297	91	22	68	6.0
Part-time students	515	463	89.9	450	298	151	13	6	8	2.9
White										
Total, 16 to 24 years	13,256	6,758	51.0	6,124	1,036	5,088	634	95	539	9.4
16 to 19 years	9,255	4,364	47.2	3,841	382	3,458	524	54	470	12.0
20 to 24 years	4,000	2,394	59.8	2,283	653	1,630	111	42	69	4.6
Men	6,803	3,415	50.2	3,081	596	2,485	334	60	274	9.8
Women	6,453	3,343	51.8	3,043	439	2,603	301	35	265	9.0
High school	7,199	3,336	46.3	2,853	189	2,664	483	55	428	14.5
College	6,056	3,422	56.5	3,271	846	2,425	151	40	111	4.4
Full-time students	5,224	2,641	50.6	2,508	317	2,191	133	31	102	5.0
Part-time students	833	781	93.8	763	529	234	18	9	9	2.3
Black										
Total, 16 to 24 years	2,115	678	32.1	519	84	435	159	34	125	23.4
16 to 19 years	1,690	481	28.4	343	27	316	138	25	113	28.7
20 to 24 years	425	197	46.4	177	57	119	21	9	12	10.5
Men	1,078	365	33.8	296	53	242	69	10	58	18.8
Women	1,038	313	30.2	224	31	193	90	23	67	28.7
High school	1,468	387	26.4	270	19	250	118	19	98	30.4
College	647	291	44.9	250	65	185	41	14	27	14.1
Full-time students	572	229	40.0	194	24	170	34	13	22	15.1
Part-time students	75	62	82.6	56	41	15	6	2	5	(²)
Hispanic origin										
Total, 16 to 24 years	1,207	535	44.3	424	126	298	111	17	93	20.7
16 to 19 years	918	341	37.2	246	47	199	95	5	89	27.7
20 to 24 years	289	194	67.1	178	79	99	16	12	4	8.3
Men	615	276	44.8	218	79	139	58	12	46	21.1
Women	592	259	43.8	207	47	159	53	6	47	20.3
High school	820	310	37.8	215	44	171	94	12	82	30.5
College	388	226	58.2	209	83	127	16	5	11	7.2
Full-time students	295	151	51.3	142	28	113	10	2	8	6.4
Part-time students	93	74	79.9	68	54	13	7	4	3	(²)

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	April 1988									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL NOT ENROLLED										
Total, 16 to 24 years	17,011	13,912	81.8	12,393	10,613	1,780	1,519	1,358	162	10.9
16 to 19 years	3,188	2,383	74.7	1,943	1,438	504	440	380	59	18.5
20 to 24 years	13,823	11,530	83.4	10,450	9,175	1,275	1,080	977	102	9.4
Less than 4 years of high school	4,104	2,662	64.9	2,079	1,625	454	583	522	61	21.9
4 years of high school	8,667	7,327	84.5	6,589	5,647	942	738	653	85	10.1
1 to 3 years of college	2,682	2,418	90.2	2,272	1,983	289	146	138	8	6.0
4 years of college or more	1,558	1,505	96.6	1,453	1,358	95	53	45	8	3.5
Men, 16 to 24 years	8,029	7,327	91.3	6,511	5,857	654	816	786	31	11.1
16 to 19 years	1,532	1,275	83.2	1,034	797	237	241	234	7	18.9
20 to 24 years	6,497	6,052	93.2	5,477	5,060	418	575	552	24	9.5
Less than 4 years of high school	2,160	1,748	80.9	1,397	1,136	262	350	339	12	20.0
4 years of high school	4,057	3,816	94.1	3,446	3,153	293	371	354	17	9.7
1 to 3 years of college	1,135	1,095	96.5	1,016	938	78	80	78	2	7.3
4 years of college or more	676	668	98.8	652	630	22	16	16	-	2.4
Women, 16 to 24 years	8,982	6,585	73.3	5,882	4,756	1,126	703	572	131	10.7
16 to 19 years	1,656	1,108	66.9	909	641	268	199	147	52	17.9
20 to 24 years	7,326	5,477	74.8	4,973	4,115	858	504	426	79	9.2
Less than 4 years of high school	1,944	914	47.0	681	489	192	233	183	50	25.5
4 years of high school	4,609	3,511	76.2	3,144	2,494	649	367	299	68	10.5
1 to 3 years of college	1,547	1,323	85.5	1,257	1,045	211	66	60	6	5.0
4 years of college or more	882	837	94.9	800	727	73	37	29	8	4.4
White										
Total, 16 to 24 years	14,003	11,834	84.5	10,796	9,316	1,480	1,038	909	129	8.8
16 to 19 years	2,629	2,081	79.1	1,729	1,283	445	352	300	52	16.9
20 to 24 years	11,374	9,753	85.7	9,067	8,032	1,035	685	608	77	7.0
Men	6,708	6,271	93.5	5,706	5,168	538	564	541	23	9.0
Women	7,295	5,563	76.3	5,089	4,147	942	474	368	106	8.5
Less than 4 years of high school	3,207	2,211	68.9	1,794	1,417	377	418	364	53	18.9
4 years of high school	7,191	6,234	86.7	5,740	4,954	786	494	431	63	7.9
1 to 3 years of college	2,184	2,002	91.7	1,915	1,689	227	87	78	9	4.3
4 years of college or more	1,422	1,386	97.5	1,346	1,256	91	39	35	4	2.8
Black										
Total, 16 to 24 years	2,602	1,769	68.0	1,308	1,045	264	461	427	33	26.0
16 to 19 years	489	256	52.4	173	120	53	83	75	8	32.6
20 to 24 years	2,113	1,513	71.6	1,135	925	211	377	352	25	24.9
Men	1,152	914	79.3	671	564	106	243	235	8	26.6
Women	1,449	855	59.0	637	480	157	218	192	25	25.4
Less than 4 years of high school	800	389	48.7	229	160	69	161	152	9	41.3
4 years of high school	1,286	948	73.7	712	569	143	236	214	22	24.9
1 to 3 years of college	413	341	82.4	288	240	49	52	53	-	15.4
4 years of college or more	103	90	87.9	79	76	3	12	8	3	12.8
Hispanic origin										
Total, 16 to 24 years	2,101	1,603	76.3	1,390	1,199	190	213	187	26	13.3
16 to 19 years	434	282	65.0	207	143	65	75	66	9	26.5
20 to 24 years	1,668	1,321	79.2	1,182	1,057	126	139	121	18	10.5
Men	1,077	982	91.2	855	762	93	127	121	6	13.0
Women	1,025	621	60.6	535	437	98	86	65	21	13.9
Less than 4 years of high school	1,013	666	65.7	541	447	94	125	117	8	18.7
4 years of high school	835	707	84.7	625	544	80	82	64	18	11.6
1 to 3 years of college	194	178	91.5	171	156	15	6	6	1	3.6
4 years of college or more	59	53	(²)	53	52		-	-		(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							
	Apr. 1987	Apr. 1988	Total		Employed		Unemployed			
			Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Number		Percent of labor force	
							Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,816	7,891	7,277	7,290	6,896	6,981	381	309	5.2	4.2
30 to 44 years	6,232	5,984	5,983	5,712	5,670	5,452	313	260	5.2	4.6
30 to 34 years	968	750	930	707	839	648	91	59	9.8	8.3
35 to 39 years	2,707	2,256	2,596	2,152	2,475	2,071	121	81	4.7	3.8
40 to 44 years	2,557	2,978	2,457	2,853	2,356	2,733	101	120	4.1	4.2
45 years and over	1,584	1,907	1,294	1,578	1,226	1,529	68	49	5.3	3.1
NONVETERANS										
Total, 30 to 44 years	19,252	20,206	18,164	19,025	17,302	18,221	862	804	4.7	4.2
30 to 34 years	8,769	8,993	8,342	8,495	7,924	8,114	418	381	5.0	4.5
35 to 39 years	6,110	6,718	5,750	6,351	5,490	6,114	260	237	4.5	3.7
40 to 44 years	4,373	4,495	4,072	4,179	3,888	3,993	184	186	4.5	4.5

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

are limited primarily 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	April 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	93,540	91,841	1,699	20,365	17,213	3,152	5,101	1,258
16 to 19 years	1,854	1,771	83	4,384	4,066	318	461	657
16 to 17 years	222	215	7	2,232	2,160	72	124	429
18 to 19 years	1,632	1,556	76	2,153	1,907	246	337	229
20 years and over	91,686	90,070	1,616	15,980	13,146	2,834	4,640	601
20 to 24 years	9,902	9,614	288	3,125	2,550	575	1,034	186
25 years and over	81,783	80,455	1,328	12,855	10,596	2,259	3,606	414
25 to 54 years	70,788	69,631	1,157	9,167	7,279	1,888	3,241	317
55 years and over	10,996	10,825	171	3,687	3,317	370	365	98
Men, 16 years and over	56,024	54,970	1,054	6,695	5,437	1,258	3,029	481
16 to 19 years	1,041	1,005	36	2,175	2,015	160	274	298
20 years and over	54,984	53,966	1,018	4,520	3,422	1,098	2,755	182
20 to 24 years	5,481	5,302	179	1,328	1,081	247	588	71
25 years and over	49,504	48,664	840	3,192	2,341	851	2,167	112
25 to 54 years	42,500	41,772	728	1,679	992	687	1,928	64
55 years and over	7,003	6,892	111	1,513	1,348	165	239	48
Women, 16 years and over	37,516	36,871	645	13,669	11,776	1,893	2,071	778
16 to 19 years	814	767	47	2,210	2,052	158	187	359
20 years and over	36,702	36,104	598	11,460	9,724	1,736	1,884	418
20 to 24 years	4,421	4,312	109	1,797	1,469	328	446	115
25 years and over	32,280	31,792	488	9,662	8,255	1,407	1,439	302
25 to 54 years	28,288	27,859	429	7,489	6,287	1,202	1,313	252
55 years and over	3,992	3,932	60	2,174	1,968	206	126	50
White								
Men, 16 years and over	49,397	48,472	925	5,722	4,725	997	2,252	369
16 to 19 years	941	912	29	1,903	1,771	132	221	245
20 years and over	48,456	47,560	896	3,819	2,954	865	2,031	124
20 to 24 years	4,824	4,677	147	1,120	908	212	380	52
25 years and over	43,634	42,884	750	2,700	2,047	653	1,652	72
25 to 54 years	37,331	36,679	652	1,349	840	509	1,452	43
55 years and over	6,303	6,205	98	1,350	1,207	143	200	29
Women, 16 years and over	31,774	31,241	533	12,248	10,721	1,527	1,375	620
16 to 19 years	725	683	42	2,000	1,852	148	133	277
20 years and over	31,049	30,558	491	10,248	8,870	1,378	1,242	344
20 to 24 years	3,862	3,771	91	1,546	1,300	246	270	94
25 years and over	27,186	26,786	400	8,704	7,571	1,133	972	249
25 to 54 years	23,656	23,308	348	6,766	5,790	976	873	203
55 years and over	3,530	3,478	52	1,938	1,781	157	99	46
Black								
Men, 16 years and over	5,037	4,942	95	721	507	214	680	92
16 to 19 years	81	75	6	210	188	22	47	49
20 years and over	4,956	4,867	89	511	319	192	632	43
20 to 24 years	537	516	21	139	106	33	198	18
25 years and over	4,417	4,349	68	373	213	160	435	26
25 to 54 years	3,868	3,814	54	233	92	141	401	17
55 years and over	548	535	13	139	121	18	34	9
Women, 16 years and over	4,544	4,450	94	1,092	760	332	636	140
16 to 19 years	66	61	5	159	150	9	53	72
20 years and over	4,479	4,390	89	933	610	323	583	67
20 to 24 years	445	429	16	191	111	80	163	20
25 years and over	4,033	3,960	73	742	499	243	420	47
25 to 54 years	3,663	3,598	65	547	347	200	399	41
55 years and over	370	362	8	195	152	43	21	6

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

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

(Numbers in thousands)

Family relationship	April 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	97,530	65.7	92,322	5,208	5.3	50,906	22,820	8,895	2,287	16,904
Husbands	39,843	78.5	38,663	1,180	3.0	10,933	197	231	832	9,673
With employed wife	25,655	92.0	24,946	709	2.8	2,238	81	124	308	1,724
With unemployed wife	862	90.7	770	92	10.7	89	1	1	22	64
With wife not in labor force	13,326	60.8	12,948	379	2.8	8,606	115	106	501	7,884
Wives	28,844	56.8	27,893	951	3.3	21,933	18,035	363	365	3,170
With employed husband	25,716	66.5	24,946	770	3.0	12,948	11,677	278	131	862
With unemployed husband	802	67.9	709	92	11.5	379	327	18	14	20
With husband not in labor force	2,327	21.3	2,238	89	3.8	8,606	6,031	68	220	2,287
Relatives in married-couple families	12,952	61.1	11,598	1,353	10.4	8,241	701	5,920	407	1,213
16 to 19 years	4,888	50.6	4,236	652	13.3	4,781	74	4,494	26	186
20 to 24 years	4,739	73.9	4,366	373	7.9	1,676	116	1,300	53	207
25 years and over	3,324	65.1	2,996	328	9.9	1,784	511	126	328	820
Women who maintain families	6,552	62.0	6,002	550	8.4	4,018	2,630	246	234	908
Relatives in families maintained by women	5,338	57.4	4,516	821	15.4	3,956	828	1,700	323	1,104
16 to 19 years	1,325	44.5	1,010	315	23.8	1,654	80	1,410	11	154
20 to 24 years	1,525	72.9	1,262	263	17.3	567	146	219	29	174
25 years and over	2,487	58.9	2,244	243	9.8	1,735	602	71	283	776
Men who maintain families	2,231	77.2	2,072	160	7.2	658	50	22	58	528
Relatives in families maintained by men	1,770	60.3	1,578	193	10.9	1,167	379	413	68	308
16 to 19 years	312	47.2	273	39	12.6	350	11	314	-	24
20 to 24 years	507	79.6	447	60	11.9	130	33	67	5	25
25 years and over	952	58.1	858	94	9.9	687	335	32	63	259

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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
Total, 16 years and over	4,185	3,510	6.4	5.3	3,120	2,849	5.9	5.3
Married, spouse present	1,759	1,305	4.2	3.1	1,206	1,047	4.1	3.5
Widowed, divorced, or separated	528	494	8.0	7.3	677	609	6.7	5.9
Single (never married)	1,899	1,711	11.1	9.6	1,238	1,193	9.2	8.6
White, 16 years and over	3,190	2,622	5.6	4.5	2,234	1,996	5.0	4.3
Married, spouse present	1,448	1,070	3.9	2.9	980	846	3.8	3.2
Widowed, divorced, or separated	406	329	7.4	5.9	485	415	6.0	5.0
Single (never married)	1,336	1,223	9.3	8.2	768	735	7.1	6.6
Black, 16 years and over	828	772	13.0	11.8	787	775	12.5	12.1
Married, spouse present	221	190	7.1	5.9	165	164	7.0	7.0
Widowed, divorced, or separated	108	146	11.2	14.4	183	181	10.3	10.3
Single (never married)	499	436	21.8	18.9	438	430	20.5	18.7
Total, 25 years and over	2,701	2,279	5.0	4.1	1,911	1,741	4.5	4.0
Married, spouse present	1,628	1,207	4.1	3.0	976	866	3.6	3.1
Widowed, divorced, or separated	487	467	7.7	7.2	571	557	5.9	5.7
Single (never married)	585	605	7.5	7.2	364	318	6.5	5.2
White, 25 years and over	2,099	1,724	4.4	3.6	1,394	1,221	3.9	3.3
Married, spouse present	1,335	992	3.7	2.8	797	697	3.3	2.8
Widowed, divorced, or separated	374	315	7.2	5.9	400	371	5.2	4.7
Single (never married)	390	417	6.1	6.1	196	153	4.6	3.3
Black, 25 years and over	475	460	9.4	8.8	443	468	8.8	8.9
Married, spouse present	208	171	7.0	5.5	125	134	5.7	6.1
Widowed, divorced, or separated	100	133	10.5	13.5	164	173	9.5	10.1
Single (never married)	167	155	14.9	13.4	155	163	13.6	12.2

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
Total, 16 years and over	7,306	6,359	6.2	5.3	6.4	5.3	5.9	5.3
Managerial and professional specialty	596	511	2.1	1.7	2.1	1.8	2.1	1.6
Executive, administrative, and managerial	335	278	2.5	1.9	2.4	2.0	2.8	1.8
Professional specialty	261	233	1.8	1.5	1.9	1.6	1.7	1.5
Technical, sales, and administrative support	1,547	1,301	4.3	3.5	4.0	2.7	4.4	4.0
Technicians and related support	118	94	3.6	2.6	4.3	1.5	2.8	3.9
Sales occupations	696	586	5.0	4.1	3.8	2.5	6.4	5.8
Administrative support, including clerical	733	620	3.9	3.3	4.3	3.8	3.8	3.1
Service occupations	1,234	1,032	7.6	6.4	8.3	6.5	7.1	6.3
Private household	57	56	5.6	6.3	(¹)	(¹)	5.3	6.2
Protective service	100	64	5.0	3.4	5.1	2.4	5.0	9.8
Service, except private household and protective	1,076	911	8.1	6.8	9.5	7.9	7.3	6.2
Precision production, craft, and repair	941	762	6.5	5.3	6.4	5.3	7.9	5.6
Mechanics and repairers	202	153	4.4	3.3	4.4	3.1	3.3	6.9
Construction trades	534	416	9.8	7.7	9.7	7.7	16.2	11.3
Other precision production, craft, and repair	206	193	4.7	4.5	3.8	4.5	7.7	4.8
Operators, fabricators, and laborers	1,855	1,621	9.8	8.6	9.5	8.3	10.6	9.4
Machine operators, assemblers, and inspectors	817	678	9.4	7.9	8.1	6.6	11.2	9.8
Transportation and material moving occupations	366	283	7.3	5.8	7.6	6.0	4.8	3.0
Handlers, equipment cleaners, helpers, and laborers	672	659	12.9	12.3	13.2	12.5	11.3	11.2
Construction laborers	204	208	22.2	22.0	21.8	21.9	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	468	451	10.9	10.2	11.0	10.1	10.4	10.9
Farming, forestry, and fishing	242	230	6.5	6.3	6.7	5.8	4.9	9.0
No previous work experience	846	847					-	
16 to 19 years	568	561						
20 to 24 years	159	162	-					
25 years and over	119	124	-					

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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
Total, 16 years and over	7,306	6,359	6.2	5.3	6.4	5.3	5.9	5.3
Nonagricultural private wage and salary workers	5,516	4,701	6.2	5.3	6.6	5.4	5.9	5.1
Mining	104	76	12.3	9.2	13.4	10.3	6.0	3.6
Construction	778	712	13.0	11.5	13.4	11.9	9.1	7.6
Manufacturing	1,339	1,125	6.2	5.2	5.4	4.5	7.9	6.6
Durable goods	774	597	6.1	4.6	5.7	4.2	6.9	5.6
Lumber and wood products	81	61	11.3	8.8	11.5	8.7	10.6	9.1
Furniture and fixtures	55	27	7.9	3.7	6.4	2.2	11.3	7.1
Stone, clay, and glass products	37	28	5.9	4.5	6.2	4.1	4.4	5.8
Primary metal industries	80	47	8.7	5.3	7.8	5.2	14.4	6.2
Fabricated metal products	111	63	9.0	4.7	8.7	4.5	9.9	5.6
Machinery, except electrical	106	77	4.2	3.2	3.7	2.6	5.9	4.9
Electrical machinery, equipment, and supplies	122	126	5.3	5.7	5.1	5.9	5.6	5.3
Transportation equipment	121	113	4.5	4.2	4.1	3.9	6.1	5.3
Automobiles	79	67	6.5	5.2	5.7	4.9	9.6	6.3
Other transportation equipment	42	46	2.9	3.3	2.7	2.8	3.2	4.3
Professional and photographic equipment	34	31	5.2	4.3	5.4	3.2	4.9	5.8
Other durable goods industries	27	22	5.7	4.3	5.3	2.7	6.0	5.9
Nondurable goods	565	528	6.4	6.0	4.7	4.8	8.8	7.6
Food and kindred products	171	140	9.3	8.1	6.5	6.8	14.8	11.0
Textile mill products	38	49	5.0	6.2	2.7	5.6	7.9	6.9
Apparel and other textile products	121	113	9.2	9.3	4.1	10.0	10.9	9.1
Paper and allied products	30	37	3.9	4.8	3.6	4.7	4.7	5.3
Printing and publishing	75	76	4.3	4.1	3.9	2.2	4.9	6.8
Chemicals and allied products	59	33	4.7	2.6	4.1	3.0	6.2	1.9
Rubber and miscellaneous plastics products	34	41	4.6	5.0	5.5	4.4	2.9	6.0
Other nondurable goods industries	38	39	9.0	9.5	6.4	7.1	14.3	14.3
Transportation and public utilities	291	246	4.8	3.9	5.4	3.6	3.5	4.7
Transportation	218	174	6.3	4.8	7.0	4.6	4.1	5.5
Communications and other public utilities	74	72	2.9	2.7	2.7	1.9	3.1	4.2
Wholesale and retail trade	1,577	1,287	6.9	5.8	6.1	5.4	7.9	6.2
Wholesale trade	196	141	4.5	3.3	3.9	2.9	5.9	4.3
Retail trade	1,381	1,146	7.5	6.3	6.9	6.2	8.2	6.4
Finance, insurance, and real estate	226	180	3.2	2.5	3.0	2.2	3.3	2.7
Service industries	1,201	1,076	5.0	4.4	6.1	4.4	4.3	4.3
Professional services	414	370	3.1	2.7	3.4	2.7	2.9	2.6
Other service industries	787	706	7.4	6.5	8.3	5.8	6.6	7.2
Agricultural wage and salary workers	155	184	8.8	9.8	9.0	8.9	8.0	12.8
Government, self-employed, and unpaid family workers	789	628	2.9	2.2	3.2	2.4	2.4	2.0
No previous work experience	846	847	-	-	-	-	-	-

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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
NUMBER OF UNEMPLOYED												
Total unemployed	7,306	6,359	3,501	2,938	2,579	2,303	1,226	1,118	5,423	4,617	1,615	1,547
Job losers	3,788	2,977	2,446	1,901	1,133	897	209	179	2,887	2,192	768	712
On layoff	923	785	578	493	304	251	41	41	753	653	156	118
Other job losers	2,865	2,192	1,868	1,408	829	646	168	138	2,134	1,539	612	594
Job leavers	860	895	405	431	353	339	103	125	685	695	137	182
Reentrants	1,812	1,643	571	508	895	880	346	256	1,271	1,176	466	404
New entrants	846	843	79	99	198	187	568	558	580	555	245	249
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	51.8	46.8	69.9	64.7	43.9	39.0	17.0	16.0	53.3	47.4	47.5	46.0
On layoff	12.6	12.3	16.5	16.8	11.8	10.9	3.3	3.6	13.9	14.1	9.7	7.6
Other job losers	39.2	34.5	53.4	47.9	32.1	28.1	13.7	12.4	39.4	33.3	37.9	38.4
Job leavers	11.8	14.1	11.6	14.7	13.7	14.7	8.4	11.2	12.6	15.0	8.5	11.7
Reentrants	24.8	25.8	16.3	17.3	34.7	38.2	28.3	22.9	23.4	25.5	28.8	26.1
New entrants	11.6	13.3	2.3	3.4	7.7	8.1	46.4	49.9	10.7	12.0	15.2	16.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	3.2	2.5	3.9	3.1	2.3	1.8	2.9	2.5	2.8	2.1	6.1	5.5
Job leavers .....	.7	.7	.7	.7	.7	.7	1.4	1.7	.7	.7	1.1	1.4
Reentrants	1.5	1.4	.9	.8	1.8	1.7	4.7	3.5	1.2	1.1	3.7	3.1
New entrants .....	.7	.7	.1	.2	.4	.4	7.7	7.6	.6	.5	1.9	1.9

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	April 1988						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,359	100.0	43.7	27.5	28.7	15.1	13.6
Job losers	2,977	100.0	34.5	29.0	36.5	20.5	16.0
On layoff	785	100.0	44.3	26.1	29.6	24.5	5.0
Other job losers	2,192	100.0	30.9	30.1	39.0	19.1	19.9
Job leavers	895	100.0	52.0	28.7	19.3	8.2	11.1
Reentrants	1,643	100.0	49.8	26.0	24.3	10.9	13.4
New entrants	843	100.0	56.0	24.1	19.9	11.8	8.1
Men, 20 years and over	2,938	100.0	35.0	28.2	36.8	19.5	17.3
Job losers	1,901	100.0	29.5	28.9	41.6	23.2	18.4
On layoff	493	100.0	35.1	27.0	38.0	32.9	5.1
Other job losers	1,408	100.0	27.5	29.6	42.9	19.9	23.1
Job leavers	431	100.0	47.8	27.8	24.4	9.1	15.3
Reentrants	508	100.0	42.4	25.6	32.0	15.3	16.6
New entrants	99	100.0	46.9	30.4	22.7	15.1	7.5
Women, 20 years and over	2,303	100.0	47.4	27.1	25.5	12.5	12.9
Job losers	897	100.0	41.2	29.1	29.7	16.5	13.1
On layoff	251	100.0	62.7	21.0	16.3	10.5	5.8
Other job losers	646	100.0	32.9	32.3	34.8	18.9	16.0
Job leavers	339	100.0	53.2	29.2	17.7	9.3	8.4
Reentrants	880	100.0	51.3	25.9	22.8	9.7	13.0
New entrants	187	100.0	48.6	19.3	32.0	12.5	19.5
Both sexes, 16 to 19 years	1,118	100.0	59.1	26.7	14.3	8.9	5.3
Job losers	179	100.0	53.3	30.1	16.6	11.6	5.1
On layoff	41	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	138	100.0	56.4	24.9	18.6	12.1	6.6
Job leavers	125	100.0	63.3	30.4	6.3	2.4	3.9
Reentrants	256	100.0	59.0	26.9	14.1	5.9	8.2
New entrants	558	100.0	60.0	24.6	15.4	11.0	4.3

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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
	Total, 16 years and over	7,306	6,359	100.0	100.0	5,890	5,101	100.0	100.0
Less than 5 weeks	2,844	2,781	38.9	43.7	2,028	2,013	34.4	39.5
5 to 14 weeks	2,020	1,751	27.6	27.5	1,653	1,447	28.1	28.4
5 to 10 weeks	1,389	1,295	19.0	20.4	1,101	1,064	18.7	20.9
11 to 14 weeks	632	457	8.7	7.2	551	383	9.4	7.5
15 weeks and over	2,442	1,827	33.4	28.7	2,210	1,641	37.5	32.2
15 to 26 weeks	1,297	963	17.8	15.1	1,168	860	19.8	16.9
27 weeks and over	1,145	864	15.7	13.6	1,042	781	17.7	15.3
27 to 51 weeks	498	346	6.8	5.4	448	318	7.6	6.2
52 weeks and over	647	518	8.9	8.1	594	463	10.1	9.1
Average (mean) duration, in weeks	16.0	14.4	-	-	17.5	15.6	-	-
Median duration, in weeks	8.3	6.8	-	-	9.9	8.0	-	-

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	
	April 1988							Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
Total, 16 years and over	6,359	2,781	1,751	963	864	14.4	6.8	38.9	43.7	33.4	28.7
16 to 19 years	1,118	661	298	100	59	8.1	4.2	54.3	59.1	16.8	14.3
20 to 24 years	1,220	651	281	157	132	12.2	4.7	42.0	53.3	27.7	23.7
25 to 34 years	1,795	701	541	299	253	15.4	7.9	37.8	39.1	35.4	30.8
35 to 44 years	1,136	388	339	200	209	17.7	9.0	31.1	34.2	42.1	36.0
45 to 54 years	627	222	174	127	104	17.6	10.3	32.2	35.5	43.2	36.8
55 to 64 years	394	116	109	73	96	20.2	10.6	26.2	29.5	46.9	42.8
65 years and over	69	41	10	6	12	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	3,510	1,322	1,000	642	546	16.1	8.4	33.9	37.7	38.5	33.9
16 to 19 years	572	294	171	68	39	9.1	4.9	50.4	51.5	18.2	18.7
20 to 24 years	659	323	144	110	81	13.6	5.7	36.2	49.1	33.4	29.0
25 to 34 years	1,004	328	311	200	165	17.3	9.5	33.3	32.7	40.1	36.4
35 to 44 years	647	181	210	126	130	19.8	10.5	26.4	28.0	46.2	39.6
45 to 54 years	341	100	88	91	61	19.0	11.2	27.6	29.4	49.9	44.7
55 to 64 years	252	70	72	47	64	21.0	11.1	20.8	27.6	55.1	44.0
65 years and over	35	25	4	1	5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	2,849	1,458	752	322	317	12.3	4.9	45.7	51.2	26.6	22.4
16 to 19 years	547	366	127	32	20	6.9	3.7	59.2	67.0	15.0	9.6
20 to 24 years	561	328	136	47	50	10.4	4.3	48.9	58.3	20.9	17.4
25 to 34 years	790	373	230	99	88	12.9	5.9	43.4	47.2	29.4	23.7
35 to 44 years	489	207	130	74	78	14.9	6.6	37.3	42.3	36.8	31.2
45 to 54 years	286	122	85	36	42	15.9	8.1	41.0	42.7	30.1	27.4
55 to 64 years	142	47	38	26	31	18.7	9.7	35.7	32.9	32.4	40.6
65 years and over	34	16	6	6	7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,617	2,091	1,246	681	600	13.9	6.4	39.6	45.3	32.2	27.7
Men	2,622	1,023	734	459	405	16.0	8.2	34.6	39.0	37.8	33.0
Women	1,996	1,068	511	222	195	11.1	4.7	46.8	53.5	24.2	20.9
Black, 16 years and over	1,547	619	433	252	243	16.2	8.0	36.6	40.0	36.0	32.0
Men	772	270	218	156	128	17.0	9.2	32.0	35.0	39.3	36.8
Women	775	348	215	96	116	15.4	6.8	41.4	44.9	32.4	27.3
Men, 16 years and over:											
Married, spouse present	1,305	407	378	289	231	18.0	10.1	29.0	31.2	45.9	39.8
Widowed, divorced, or separated	494	193	141	74	87	17.2	7.8	26.4	39.0	45.8	32.6
Single (never married)	1,711	722	481	279	229	14.4	7.4	40.5	42.2	29.7	29.7
Women, 16 years and over:											
Married, spouse present	1,047	496	303	133	115	12.1	5.7	46.2	47.4	28.2	23.7
Widowed, divorced, or separated	609	263	162	92	92	15.3	6.9	36.7	43.2	32.2	30.2
Single (never married)	1,193	700	286	97	111	10.8	4.3	50.1	58.7	21.9	17.4

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	
								Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
	April 1988										
OCCUPATION											
Managerial and professional specialty	511	215	136	84	76	14.1	7.5	35.5	42.1	38.8	31.3
Technical, sales, and administrative support	1,301	608	367	177	148	13.2	5.9	39.0	46.8	31.7	25.0
Service occupations	1,032	467	281	102	182	15.7	6.4	42.6	45.3	30.6	27.5
Precision production, craft, and repair	762	275	221	158	107	15.5	8.9	36.4	36.2	36.3	34.9
Operators, fabricators, and laborers	1,621	612	468	300	241	15.8	8.4	34.1	37.8	39.5	33.3
Farming, forestry, and fishing	230	102	57	38	33	15.9	7.6	40.3	44.4	34.2	30.7
INDUSTRY¹											
Agriculture	184	86	51	28	19	12.6	6.1	42.2	46.8	33.4	25.6
Construction	730	255	211	177	87	14.1	8.7	33.6	35.0	39.9	36.1
Manufacturing	1,129	420	332	191	186	16.5	8.5	33.8	37.2	38.2	33.4
Durable goods	601	203	171	117	110	18.6	9.5	30.4	33.7	40.7	37.9
Nondurable goods	528	217	161	74	76	14.1	7.7	38.6	41.1	34.7	28.3
Transportation and public utilities	270	130	67	27	47	15.0	5.5	36.4	48.2	39.5	27.1
Wholesale and retail trade	1,287	601	372	180	135	12.4	6.0	39.7	46.7	28.7	24.4
Finance and service industries	1,472	658	410	173	230	15.2	6.4	41.8	44.7	34.7	27.4
Public administration	203	77	51	31	45	18.5	9.2	37.0	37.8	41.2	37.3
No previous work experience	847	476	203	100	68	10.9	4.5	49.7	56.2	20.0	19.8

¹ Includes wage and salary workers only.

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

Sex, age, and race	April 1988								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,359	5,481	20.0	6.9	75.7	32.7	16.1	4.6	1.56
16 to 19 years	1,118	1,062	11.0	3.2	80.5	20.2	11.7	3.2	1.30
20 to 24 years	1,220	1,112	20.3	6.7	70.6	33.8	16.9	3.1	1.51
25 to 34 years	1,795	1,529	24.2	7.4	74.9	37.1	17.1	4.4	1.65
35 to 44 years	1,136	928	22.1	9.7	79.8	36.6	17.9	4.7	1.71
45 to 54 years	627	472	22.0	9.7	74.4	30.5	18.2	8.1	1.63
55 to 64 years	394	322	20.2	5.6	73.6	37.9	14.3	10.9	1.62
65 years and over	69	56	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Men, 16 years and over	3,510	2,934	22.8	6.9	76.8	32.3	17.6	5.2	1.62
16 to 19 years	572	537	15.6	3.5	80.3	16.2	13.4	1.5	1.31
20 to 24 years	659	576	20.7	7.3	74.1	28.5	18.9	1.7	1.51
25 to 34 years	1,004	837	27.4	6.0	77.7	40.6	17.6	3.8	1.73
35 to 44 years	647	495	25.1	11.1	80.6	35.6	19.6	7.9	1.80
45 to 54 years	341	257	23.3	11.7	70.0	30.7	23.7	12.5	1.72
55 to 64 years	252	206	23.3	2.9	71.4	44.2	11.2	16.0	1.69
65 years and over	35	27	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	2,849	2,547	16.8	6.8	74.4	33.1	14.5	3.9	1.50
16 to 19 years	547	526	6.3	2.9	80.6	24.1	9.9	4.9	1.29
20 to 24 years	561	536	20.0	6.0	67.0	39.6	14.7	4.7	1.52
25 to 34 years	790	692	20.4	9.1	71.4	32.8	16.5	5.2	1.55
35 to 44 years	489	433	18.7	8.1	79.2	37.9	15.7	.9	1.61
45 to 54 years	286	215	20.5	7.4	79.5	30.2	11.2	2.8	1.52
55 to 64 years	142	116	15.5	10.3	77.6	26.7	20.7	1.7	1.53
65 years and over	34	28	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,617	3,883	18.9	6.7	75.7	35.2	16.7	4.9	1.58
Men	2,622	2,115	22.3	6.8	77.1	34.6	18.6	5.5	1.65
Women	1,996	1,767	14.8	6.5	74.0	35.9	14.5	4.1	1.50
Black, 16 years and over	1,547	1,424	22.5	6.0	75.8	25.6	14.7	3.4	1.48
Men	772	712	24.4	6.2	76.0	25.6	13.8	3.2	1.49
Women	775	712	20.5	5.9	75.6	25.7	15.6	3.7	1.47

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	April 1988								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,359	5,481	20.0	6.9	75.7	32.7	16.1	4.6	1.56
Job losers ¹	2,977	2,192	25.3	6.8	76.0	33.8	17.3	5.2	1.65
Job leavers	895	933	21.0	9.8	77.3	41.1	17.3	2.4	1.69
Reentrants	1,643	1,519	17.1	7.0	73.5	33.4	15.8	5.3	1.52
New entrants	843	837	10.5	3.6	77.1	19.2	12.5	4.3	1.27
Men, 16 years and over	3,510	2,934	22.8	6.9	76.8	32.3	17.6	5.2	1.62
Job losers ¹	2,030	1,504	28.3	6.3	75.9	34.2	16.5	6.4	1.68
Job leavers	493	505	24.6	8.1	78.2	36.0	20.0	2.4	1.69
Reentrants	630	569	14.6	9.5	74.5	34.1	20.0	6.7	1.59
New entrants	356	356	10.4	3.4	82.0	16.0	14.9	2.2	1.29
Women, 16 years and over	2,849	2,547	16.8	6.8	74.4	33.1	14.5	3.9	1.50
Job losers ¹	947	688	18.6	7.8	76.3	33.0	19.2	2.8	1.58
Job leavers	403	428	16.8	11.7	76.2	47.0	13.8	2.3	1.68
Reentrants	1,013	951	18.5	5.6	72.8	32.7	13.1	4.4	1.47
New entrants	487	481	10.6	3.7	73.4	21.8	10.8	5.8	1.26

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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
All industries	111,041	113,905	61,236	62,719	49,805	51,186
16 to 19 years	6,115	6,239	3,077	3,215	3,038	3,024
16 to 17 years	2,425	2,454	1,234	1,279	1,191	1,175
18 to 19 years	3,690	3,785	1,843	1,936	1,847	1,848
20 to 24 years	13,282	13,028	6,949	6,809	6,332	6,219
25 to 54 years	77,298	79,956	42,745	44,178	34,553	35,776
25 to 34 years	32,926	33,509	18,345	18,633	14,582	14,877
35 to 44 years	26,988	28,093	14,721	15,313	12,267	12,779
45 to 54 years	17,383	18,354	9,679	10,233	7,704	8,121
55 to 64 years	11,399	11,450	6,669	6,625	4,730	4,825
55 to 59 years	6,925	6,875	4,053	3,944	2,872	2,932
60 to 64 years	4,474	4,575	2,616	2,681	1,857	1,894
65 years and over	2,948	3,233	1,795	1,892	1,153	1,341
Agriculture	3,223	3,193	2,638	2,504	586	688
16 to 19 years	269	276	241	225	29	52
16 to 17 years	125	119	118	89	7	30
18 to 19 years	144	157	123	135	22	22
20 to 24 years	398	375	360	298	38	78
25 to 54 years	1,810	1,825	1,418	1,395	391	429
25 to 34 years	767	817	620	633	147	184
35 to 44 years	558	573	432	443	125	130
45 to 54 years	485	435	366	319	119	115
55 to 64 years	443	439	352	338	91	101
55 to 59 years	244	231	183	169	61	63
60 to 64 years	198	208	169	170	30	38
65 years and over	304	278	267	248	37	29
Nonagricultural industries	107,817	110,712	58,598	60,215	49,219	50,497
16 to 19 years	5,845	5,962	2,836	2,990	3,009	2,972
16 to 17 years	2,300	2,335	1,116	1,190	1,184	1,145
18 to 19 years	3,545	3,627	1,720	1,801	1,825	1,827
20 to 24 years	12,884	12,652	6,590	6,511	6,294	6,141
25 to 54 years	75,488	78,131	41,326	42,784	34,162	35,347
25 to 34 years	32,159	32,692	17,725	18,000	14,434	14,693
35 to 44 years	26,431	27,520	14,289	14,871	12,142	12,649
45 to 54 years	16,898	17,919	9,313	9,913	7,585	8,005
55 to 64 years	10,956	11,011	6,317	6,286	4,639	4,725
55 to 59 years	6,681	6,644	3,870	3,775	2,811	2,869
60 to 64 years	4,275	4,367	2,448	2,511	1,828	1,856
65 years and over	2,644	2,955	1,529	1,643	1,116	1,312

**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	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
Total	111,041	113,905	61,236	62,719	58,159	59,504	49,805	51,186	46,767	48,162
Managerial and professional specialty	27,418	29,238	15,226	16,136	15,135	16,016	12,192	13,102	12,082	12,980
Executive, administrative, and managerial	12,981	14,152	8,093	8,581	8,045	8,519	4,888	5,571	4,842	5,525
Officials and administrators, public administration	542	512	336	304	336	301	206	208	206	208
Other executive, administrative, and managerial	8,928	9,737	5,936	6,347	5,892	6,299	2,992	3,390	2,964	3,357
Management-related occupations	3,511	3,903	1,820	1,931	1,817	1,918	1,691	1,973	1,672	1,960
Professional specialty	14,437	15,086	7,134	7,555	7,089	7,497	7,303	7,531	7,240	7,455
Engineers	1,679	1,741	1,563	1,586	1,563	1,585	116	155	116	155
Mathematical and computer scientists	713	776	446	537	445	536	267	239	265	239
Natural scientists	349	393	270	311	270	310	80	82	80	82
Health diagnosing occupations	798	798	675	668	675	668	123	131	123	131
Health assessment and treating occupations	2,213	2,072	288	323	288	323	1,925	1,749	1,923	1,745
Teachers, college and university	712	773	468	469	468	467	244	304	241	303
Teachers, except college and university	3,649	3,998	1,000	1,118	992	1,106	2,649	2,881	2,625	2,845
Lawyers and judges	714	755	562	590	562	590	153	165	150	165
Other professional specialty occupations	3,608	3,779	1,862	1,954	1,827	1,912	1,746	1,825	1,717	1,790
Technical, sales, and administrative support	34,498	35,401	12,117	12,499	11,562	11,896	22,381	22,902	20,754	21,261
Technicians and related support	3,186	3,476	1,654	1,786	1,637	1,765	1,532	1,690	1,526	1,674
Health technologists and technicians	1,054	1,168	168	223	166	218	886	945	886	939
Engineering and science technicians	1,089	1,170	858	873	850	862	231	297	230	291
Technicians, except health, engineering, and science	1,042	1,138	627	690	620	684	414	448	410	444
Sales occupations	13,164	13,617	6,969	7,096	6,618	6,692	6,196	6,521	5,240	5,560
Supervisors and proprietors	3,479	3,637	2,376	2,473	2,368	2,426	1,103	1,165	1,083	1,134
Sales representatives, finance and business services	2,238	2,415	1,353	1,420	1,339	1,404	885	995	851	968
Sales representatives, commodities, except retail	1,563	1,538	1,328	1,276	1,308	1,275	235	262	234	253
Sales workers, retail and personal services	5,839	5,975	1,898	1,909	1,589	1,570	3,941	4,066	3,040	3,173
Sales-related occupations	46	51	13	17	13	16	33	34	32	33
Administrative support, including clerical	18,148	18,308	3,495	3,618	3,307	3,439	14,653	14,691	13,988	14,027
Supervisors	685	808	294	333	292	330	392	475	390	474
Computer equipment operators	923	838	302	328	294	317	621	510	588	499
Secretaries, stenographers, and typists	5,063	4,934	78	74	71	71	4,985	4,860	4,784	4,653
Financial records processing	2,510	2,443	234	207	223	197	2,276	2,236	2,237	2,196
Mail and message distributing	955	935	632	615	601	589	323	321	313	305
Other administrative support, including clerical	8,012	8,351	1,955	2,062	1,826	1,934	6,057	6,289	5,676	5,901
Service occupations	15,082	15,114	5,898	5,984	5,018	5,138	9,185	9,129	8,103	8,124
Private household	960	832	31	42	24	32	929	790	756	665
Protective service	1,886	1,838	1,619	1,607	1,592	1,572	267	230	251	215
Service, except private household and protective	12,236	12,444	4,248	4,335	3,402	3,534	7,988	8,109	7,096	7,245
Food service	5,256	5,101	1,954	1,934	1,327	1,304	3,303	3,167	2,676	2,564
Health service	1,933	2,039	186	223	170	207	1,747	1,816	1,674	1,740
Cleaning and building service	2,847	2,930	1,690	1,729	1,536	1,604	1,157	1,200	1,091	1,133
Personal service	2,200	2,375	418	448	369	420	1,782	1,926	1,656	1,808
Precision production, craft, and repair	13,469	13,552	12,278	12,370	11,988	12,119	1,191	1,182	1,161	1,163
Mechanics and repairers	4,381	4,522	4,222	4,357	4,118	4,284	159	166	158	165
Construction trades	4,894	4,972	4,800	4,892	4,657	4,776	95	79	94	74
Other precision production, craft, and repair	4,193	4,058	3,256	3,121	3,214	3,059	937	937	908	924
Operators, fabricators, and laborers	17,076	17,196	12,716	12,869	11,755	11,752	4,359	4,327	4,206	4,146
Machine operators, assemblers, and inspectors	7,887	7,855	4,712	4,711	4,556	4,539	3,175	3,144	3,111	3,072
Manufacturing industries	6,614	6,592	3,921	3,891	3,825	3,770	2,693	2,701	2,650	2,641
Durable goods	3,636	3,662	2,498	2,492	2,449	2,419	1,138	1,170	1,126	1,148
Nondurable goods	2,978	2,929	1,423	1,399	1,375	1,351	1,556	1,530	1,524	1,493
Nonmanufacturing industries	1,273	1,263	791	820	731	769	482	443	461	431
Transportation and material moving occupations	4,638	4,627	4,221	4,192	4,078	4,063	417	436	409	418
Motor vehicle operators	3,440	3,449	3,058	3,088	2,934	2,970	383	361	375	344
Other transportation and material moving occupations	1,197	1,178	1,163	1,104	1,143	1,092	34	75	34	74
Handlers, equipment cleaners, helpers, and laborers	4,551	4,714	3,783	3,966	3,121	3,150	767	748	687	656
Construction laborers	714	739	693	720	639	661	21	19	21	10
Other handlers, equipment cleaners, helpers, and laborers	3,837	3,975	3,091	3,246	2,482	2,490	746	729	666	646
Farming, forestry, and fishing	3,498	3,404	3,001	2,861	2,701	2,583	497	543	462	488
Farm operators and managers	1,328	1,273	1,161	1,099	1,155	1,084	166	174	165	172
Other farming, forestry, and fishing occupations	2,171	2,131	1,839	1,762	1,547	1,499	331	370	297	317

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
TOTAL						
Total, 16 years and over (thousands)	111,041	113,905	61,236	62,719	49,805	51,186
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.7	25.7	24.9	25.7	24.5	25.6
Executive, administrative, and managerial	11.7	12.4	13.2	13.7	9.8	10.9
Professional specialty	13.0	13.2	11.7	12.0	14.7	14.7
Technical, sales, and administrative support	31.1	31.1	19.8	19.9	44.9	44.7
Technicians and related support	2.9	3.1	2.7	2.8	3.1	3.3
Sales occupations	11.9	12.0	11.4	11.3	12.4	12.7
Administrative support, including clerical	16.3	16.1	5.7	5.8	29.4	28.7
Service occupations	13.6	13.3	9.6	9.5	18.4	17.8
Private household .....	.9	.7	.1	.1	1.9	1.5
Protective service	1.7	1.6	2.6	2.6	.5	.4
Service, except private household and protective	11.0	10.9	6.9	6.9	16.0	15.8
Precision production, craft, and repair	12.1	11.9	20.1	19.7	2.4	2.3
Operators, fabricators, and laborers	15.4	15.1	20.8	20.5	8.8	8.5
Machine operators, assemblers, and inspectors	7.1	6.9	7.7	7.5	6.4	6.1
Transportation and material moving occupations	4.2	4.1	6.9	6.7	.8	.9
Handlers, equipment cleaners, helpers, and laborers	4.1	4.1	6.2	6.3	1.5	1.5
Farming, forestry, and fishing	3.2	3.0	4.9	4.6	1.0	1.1
White						
Total, 16 years and over (thousands)	96,744	99,141	53,961	55,119	42,783	44,021
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.7	26.7	25.9	26.8	25.5	26.7
Executive, administrative, and managerial	12.3	13.1	13.9	14.4	10.3	11.5
Professional specialty	13.4	13.7	12.1	12.4	15.2	15.2
Technical, sales, and administrative support	31.6	31.5	20.1	20.1	46.0	45.7
Technicians and related support	2.9	3.0	2.8	2.9	3.1	3.2
Sales occupations	12.5	12.5	12.1	11.9	13.0	13.3
Administrative support, including clerical	16.2	16.0	5.2	5.4	29.9	29.2
Service occupations	12.3	12.0	8.6	8.4	17.1	16.5
Private household .....	.7	.6	(¹)	.1	1.6	1.3
Protective service	1.6	1.5	2.5	2.4	.4	.4
Service, except private household and protective	10.0	9.9	6.1	6.0	15.0	14.8
Precision production, craft, and repair	12.5	12.3	20.6	20.4	2.4	2.3
Operators, fabricators, and laborers	14.5	14.3	19.7	19.5	8.0	7.7
Machine operators, assemblers, and inspectors	6.6	6.5	7.3	7.2	5.7	5.5
Transportation and material moving occupations	4.0	3.9	6.6	6.4	.8	.8
Handlers, equipment cleaners, helpers, and laborers	3.8	3.9	5.8	5.9	1.4	1.4
Farming, forestry, and fishing	3.3	3.1	5.1	4.7	1.1	1.1
Black						
Total, 16 years and over (thousands)	11,024	11,394	5,532	5,758	5,492	5,636
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	14.6	15.5	12.6	13.8	16.5	17.2
Executive, administrative, and managerial	6.3	6.5	6.9	6.6	5.8	6.4
Professional specialty	8.2	9.0	5.7	7.2	10.8	10.8
Technical, sales, and administrative support	27.1	27.3	15.9	16.8	38.4	38.1
Technicians and related support	2.1	2.8	1.4	1.9	2.8	3.7
Sales occupations	6.6	7.2	4.5	5.9	8.7	8.4
Administrative support, including clerical	18.4	17.3	10.0	8.9	27.0	26.0
Service occupations	23.5	23.5	18.4	19.0	28.6	28.1
Private household	2.1	1.7	.1	.1	4.1	3.3
Protective service	2.9	2.8	4.6	4.6	1.2	1.1
Service, except private household and protective	18.5	19.0	13.7	14.3	23.2	23.7
Precision production, craft, and repair	9.5	9.0	16.7	15.4	2.1	2.5
Operators, fabricators, and laborers	23.4	22.6	32.9	31.4	13.9	13.6
Machine operators, assemblers, and inspectors	10.8	10.3	11.2	9.8	10.4	10.8
Transportation and material moving occupations	6.2	5.9	11.1	10.5	1.3	1.2
Handlers, equipment cleaners, helpers, and laborers	6.4	6.4	10.6	11.0	2.3	1.6
Farming, forestry, and fishing	1.9	2.1	3.3	3.7	.5	.5

¹ Less than 0.05 percent.

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

(In thousands)

Age and sex	April 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	101,897	1,087	17,236	83,573	8,533	283	1,688	1,356	149
16 to 19 years	5,879	177	330	5,372	71	12	218	23	35
16 to 17 years	2,292	126	69	2,096	37	6	90	11	18
18 to 19 years	3,588	51	261	3,276	33	6	128	12	17
20 to 24 years	12,337	101	1,118	11,119	289	26	295	66	15
25 to 34 years	30,538	192	4,306	26,040	2,100	54	521	265	30
35 to 44 years	25,018	167	5,435	19,416	2,435	67	282	275	16
45 to 54 years	16,102	159	3,558	12,384	1,752	65	180	231	23
55 to 64 years	9,643	160	2,084	7,400	1,332	36	134	280	25
55 to 59 years	5,868	103	1,277	4,488	750	25	67	148	16
60 to 64 years	3,775	56	807	2,911	582	10	67	132	8
65 years and over	2,380	131	406	1,843	554	22	58	216	3
Men, 16 years and over	54,612	156	8,044	46,412	5,547	56	1,311	1,146	47
16 to 19 years	2,949	46	134	2,769	35	7	173	21	30
16 to 17 years	1,167	30	18	1,118	21	1	65	9	16
18 to 19 years	1,782	16	115	1,651	13	6	108	12	15
20 to 24 years	6,310	12	491	5,806	188	14	233	57	8
25 to 34 years	16,671	35	1,976	14,660	1,324	4	396	232	6
35 to 44 years	13,310	21	2,499	10,790	1,552	9	214	226	2
45 to 54 years	8,720	11	1,679	7,030	1,190	3	134	186	-
55 to 64 years	5,403	23	1,073	4,308	878	5	109	228	1
55 to 59 years	3,292	10	638	2,644	478	5	53	116	-
60 to 64 years	2,111	12	434	1,664	400	-	56	112	2
65 years and over	1,248	7	192	1,048	381	15	53	196	-
Women, 16 years and over	47,285	931	9,192	37,161	2,986	227	377	210	101
16 to 19 years	2,930	131	197	2,603	36	6	45	2	5
16 to 17 years	1,125	96	51	978	16	5	25	2	3
18 to 19 years	1,805	35	146	1,625	20	1	20	-	2
20 to 24 years	6,028	89	626	5,313	101	12	62	9	7
25 to 34 years	13,867	157	2,330	11,380	776	50	126	33	25
35 to 44 years	11,708	146	2,935	8,626	884	58	68	48	14
45 to 54 years	7,381	148	1,880	5,354	562	62	46	45	24
55 to 64 years	4,239	137	1,011	3,091	454	31	25	52	23
55 to 59 years	2,576	93	638	1,845	272	21	14	32	17
60 to 64 years	1,663	44	373	1,247	182	10	11	20	7
65 years and over	1,132	123	213	795	173	7	5	20	4

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	April 1988												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	3,193	71	59	21	22	105		26	48	15	29	18	2,777
Mining	774	97	75	45	8	105		5	254	30	123	31	-
Construction	7,355	970	141	49	91	438		19	4,240	76	467	840	25
Manufacturing	21,112	2,413	1,751	726	745	2,500		332	4,100	6,592	799	1,064	92
Durable goods	12,598	1,489	1,207	524	328	1,398		185	2,827	3,662	405	486	86
Nondurable goods	8,514	924	543	202	417	1,102		146	1,272	2,929	394	578	6
Transportation and public utilities	7,896	886	444	247	347	2,081		264	1,323	113	1,683	503	6
Wholesale and retail trade	23,182	2,025	448	105	9,664	2,303		4,261	1,337	268	946	1,783	42
Wholesale trade	4,481	501	89	41	1,766	768		47	266	123	496	368	16
Retail trade	18,701	1,524	359	64	7,898	1,535		4,214	1,071	145	450	1,416	26
Finance, insurance, and real estate	7,885	1,945	213	125	1,865	3,171	-	292	163	18	17	16	59
Services	37,201	4,672	11,243	1,864	840	6,101	832	7,790	1,882	710	501	411	356
Private households	1,098	5	9	8	-	10	832	112	8	1	10	22	81
Other service industries	36,103	4,667	11,235	1,856	840	6,091	-	7,678	1,874	709	491	388	275
Professional services	24,177	2,637	10,037	1,479	153	4,474		4,341	376	214	302	91	73
Public administration	5,307	1,072	712	294	34	1,504		1,292	206	34	63	49	47

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					
	Apr. 1987	Apr. 1988	Total		Wage and salary workers ¹			
			Apr. 1987	Apr. 1988	Paid absences		Unpaid absences	
					Apr. 1987	Apr. 1988	Apr. 1987	Apr. 1988
Total, 16 years and over	6,218	4,369	6,126	4,286	3,352	1,993	2,191	1,796
Vacation	3,787	1,760	3,750	1,737	2,593	1,199	907	398
Illness	1,252	1,384	1,225	1,355	535	550	586	675
Bad weather	96	91	86	89	(²)	(²)	(²)	(²)
Industrial dispute	8	17	8	17	(²)	(²)	(²)	(²)
All other reasons	1,075	1,117	1,057	1,089	224	244	697	722
Men, 16 years and over	2,822	2,210	2,759	2,148	1,592	1,051	836	806
Vacation	1,658	873	1,634	859	1,205	661	295	140
Illness	647	765	628	738	305	286	273	373
All other reasons ³	517	573	497	551	82	105	267	294
Women, 16 years and over	3,395	2,159	3,367	2,138	1,758	941	1,355	990
Vacation	2,129	888	2,116	878	1,388	538	613	259
Illness	605	619	597	616	230	264	312	302
All other reasons ³	662	652	654	644	141	139	430	429

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	April 1988					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	109,536	3,110	106,426	100.0	100.0	100.0
1 to 34 hours	25,612	914	24,698	23.4	29.4	23.2
1 to 4 hours	793	41	752	.7	1.3	.7
5 to 14 hours	4,826	226	4,600	4.4	7.3	4.3
15 to 29 hours	12,931	440	12,491	11.8	14.1	11.7
30 to 34 hours	7,062	207	6,855	6.4	6.7	6.4
35 hours and over	83,925	2,197	81,728	76.6	70.6	76.8
35 to 39 hours	7,085	90	6,995	6.5	2.9	6.6
40 hours	43,812	631	43,181	40.0	20.3	40.6
41 hours and over	33,028	1,476	31,552	30.2	47.4	29.6
41 to 48 hours	11,817	230	11,587	10.8	7.4	10.9
49 to 59 hours	11,774	392	11,382	10.7	12.6	10.7
60 hours and over	9,437	854	8,583	8.6	27.5	8.1
Average hours, total at work	39.5	44.7	39.3			
Average hours, workers on full-time schedules	44.1	53.3	43.8			

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

(Numbers in thousands)

Reason for working less than 35 hours	April 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	25,612	6,379	19,233	24,698	6,143	18,554
Economic reasons	4,851	1,699	3,152	4,624	1,609	3,015
Slack work	2,167	1,302	865	2,053	1,233	820
Material shortages or repairs to plant and equipment	43	43	-	40	40	-
New job started during week	262	262	-	249	249	-
Job terminated during week	92	92	-	88	88	-
Could find only part-time work	2,287	-	2,287	2,196	-	2,196
Other reasons	20,762	4,680	16,082	20,075	4,535	15,540
Does not want, or unavailable for, full-time work	13,555	-	13,555	13,114	-	13,114
Vacation	1,283	1,283	-	1,281	1,281	-
Illness	1,539	1,371	168	1,507	1,347	160
Bad weather	394	394	-	314	314	-
Industrial dispute	1	1	-	1	1	-
Legal or religious holiday	63	63	-	63	63	-
Full time for this job	1,753	-	1,753	1,714	-	1,714
All other reasons	2,174	1,568	606	2,079	1,527	552
Average hours:						
Economic reasons	22.4	24.7	21.2	22.5	24.7	21.3
Other reasons	20.7	26.0	19.2	20.8	26.1	19.3
Worked 30 to 34 hours:						
Economic reasons	1,656	831	825	1,589	788	801
Other reasons	5,406	2,446	2,960	5,266	2,383	2,883

**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	April 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	106,426	4,624	15,540	86,262	54,710	11,587	19,965	39.3	43.8
Wage and salary workers	98,058	3,988	14,067	60,021	52,045	10,996	16,980	39.1	43.4
Mining	696	11	16	669	356	120	193	44.4	45.5
Construction	5,769	395	302	5,072	3,468	542	1,062	40.2	42.8
Manufacturing	19,996	504	663	18,829	11,882	3,407	3,540	42.0	43.2
Durable goods	11,989	199	293	11,497	7,123	2,155	2,219	42.5	43.4
Nondurable goods	8,007	305	370	7,332	4,758	1,252	1,322	41.3	43.0
Transportation and public utilities	7,153	179	347	6,627	4,341	902	1,384	42.1	43.7
Wholesale and retail trade	20,460	1,260	5,212	13,988	8,276	2,128	3,584	36.6	44.2
Finance, insurance, and real estate	7,020	121	685	6,214	4,332	695	1,187	40.0	42.5
Service industries	31,870	1,416	6,570	23,884	15,822	2,710	5,352	37.5	43.5
Private households	1,043	176	503	364	227	43	94	26.0	48.2
All other industries	30,827	1,240	6,067	23,520	15,595	2,667	5,258	37.9	43.4
Public administration	5,093	81	273	4,739	3,570	491	678	40.6	42.2
Self-employed workers	8,087	648	1,376	6,063	2,582	577	2,904	41.6	49.3
Unpaid family workers	283	7	97	179	84	14	81	38.8	48.5

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	April 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	106,426	4,624	15,540	86,262	54,710	31,552	39.3	43.8
16 to 19 years	5,778	379	3,752	1,647	1,296	351	23.5	40.2
16 to 17 years	2,241	72	1,971	198	161	37	17.5	38.3
18 to 19 years	3,536	306	1,781	1,449	1,135	314	27.3	40.4
20 years and over	100,648	4,246	11,788	84,614	53,414	31,200	40.2	43.9
20 to 24 years	12,284	813	2,396	9,075	6,295	2,780	36.8	42.6
25 years and over	88,365	3,432	9,392	75,541	47,120	28,421	40.7	44.0
25 to 44 years	58,071	2,371	5,110	50,590	31,018	19,572	41.3	44.2
45 to 64 years	27,579	947	2,991	23,641	15,175	8,466	40.6	43.8
65 years and over	2,714	113	1,292	1,309	927	382	29.7	42.7
Men, 16 years and over	58,067	2,145	4,751	51,171	28,863	22,308	42.3	45.3
16 to 19 years	2,895	178	1,819	898	672	226	24.7	41.1
16 to 17 years	1,142	40	984	118	99	19	18.4	39.3
18 to 19 years	1,753	137	836	780	571	209	28.7	41.3
20 years and over	55,172	1,968	2,931	50,273	28,190	22,083	43.2	45.4
20 to 24 years	6,344	388	1,006	4,950	3,145	1,805	38.6	43.7
25 years and over	48,828	1,581	1,925	45,322	25,043	20,279	43.8	45.6
25 to 44 years	31,858	1,087	718	30,053	16,148	13,905	44.5	45.8
45 to 64 years	15,474	435	584	14,455	8,353	6,102	43.6	45.2
65 years and over	1,497	58	623	816	544	272	31.5	43.2
Women, 16 years and over	48,359	2,479	10,789	35,091	25,849	9,242	35.7	41.7
16 to 19 years	2,882	201	1,932	749	624	125	22.3	39.1
16 to 17 years	1,099	33	987	79	60	19	16.4	36.9
18 to 19 years	1,783	168	945	670	565	105	26.0	39.4
20 years and over	45,477	2,278	8,857	34,342	25,224	9,118	36.6	41.7
20 to 24 years	5,940	426	1,390	4,124	3,148	976	34.9	41.2
25 years and over	39,537	1,852	7,467	30,218	22,076	8,142	36.9	41.8
25 to 44 years	26,215	1,285	4,392	20,538	14,870	5,668	37.3	41.8
45 to 64 years	12,106	512	2,407	9,187	6,822	2,365	36.7	41.8
65 years and over	1,217	56	669	492	382	110	27.5	41.7
RACE								
White, 16 years and over	92,525	3,791	13,980	74,754	45,960	28,794	39.4	44.1
Men	50,970	1,787	4,142	45,041	24,564	20,477	42.6	45.5
Women	41,555	2,004	9,838	29,713	21,396	8,317	35.6	41.8
Black, 16 years and over	10,725	709	1,117	8,899	6,956	1,943	38.3	41.8
Men	5,364	287	435	4,642	3,366	1,276	39.9	42.9
Women	5,361	422	682	4,257	3,590	667	36.6	40.5
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	38,879	1,083	1,468	36,328	19,296	17,032	44.5	46.2
Widowed, divorced, or separated	5,765	264	270	5,231	2,960	2,271	43.3	45.5
Single (never married)	15,672	943	3,313	11,416	7,203	4,213	37.2	44.0
Women, 16 years and over:								
Married, spouse present	27,064	1,288	6,253	19,523	14,657	4,866	35.6	41.3
Widowed, divorced, or separated	9,166	529	1,197	7,440	5,252	2,188	38.4	42.3
Single (never married)	12,129	661	3,339	8,129	5,941	2,188	34.2	41.9

**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	April 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	106,238	4,569	15,478	86,191	54,610	11,592	19,990	39.3	43.8
Managerial and professional specialty	28,159	489	2,796	24,875	13,336	3,219	8,320	42.7	45.8
Executive, administrative, and managerial	13,664	165	750	12,749	6,243	1,725	4,782	45.1	46.8
Professional specialty	14,495	324	2,046	12,125	7,094	1,494	3,538	40.5	44.8
Technical, sales, and administrative support	34,103	1,162	6,388	26,553	18,198	3,231	5,125	37.7	42.8
Technicians and related support	3,340	36	437	2,867	1,986	372	509	39.6	42.6
Sales occupations	13,093	596	2,855	9,642	5,047	1,275	3,321	39.1	45.9
Administrative support, including clerical	17,669	529	3,096	14,044	11,165	1,584	1,295	36.4	40.6
Service occupations	14,462	1,290	4,331	8,840	6,334	1,012	1,495	33.7	42.9
Private household	803	126	404	272	174	33	66	25.5	47.0
Protective service	1,732	47	156	1,529	939	226	365	42.4	45.5
Service, except private household and protective	11,927	1,117	3,771	7,038	5,221	753	1,064	33.0	42.2
Precision production, craft, and repair	13,093	671	429	11,993	7,686	1,832	2,475	41.6	43.5
Operators, fabricators, and laborers	16,421	957	1,534	13,931	9,056	2,299	2,576	40.0	43.3
Machine operators, assemblers, and inspectors	7,518	310	351	6,856	4,697	1,235	923	40.9	42.5
Transportation and material moving occupations	4,386	254	362	3,770	2,021	565	1,184	42.6	46.0
Handlers, equipment cleaners, helpers, and laborers	4,517	392	820	3,305	2,338	499	468	36.1	41.9
Men, 16 years and over ¹	57,738	2,089	4,654	50,995	28,698	7,337	14,960	42.4	45.3
Managerial and professional specialty	15,603	214	773	14,617	6,711	1,847	6,058	45.9	47.7
Executive, administrative, and managerial	8,302	92	277	7,932	3,273	1,059	3,601	47.3	48.6
Professional specialty	7,302	121	496	6,684	3,439	789	2,457	44.2	46.6
Technical, sales, and administrative support	12,123	269	1,250	10,605	5,692	1,475	3,438	42.4	45.8
Technicians and related support	1,723	12	121	1,590	1,005	214	370	42.2	44.1
Sales occupations	6,885	168	750	5,967	2,555	816	2,596	44.1	48.0
Administrative support, including clerical	3,515	88	379	3,048	2,131	446	472	39.3	42.3
Service occupations	5,749	351	1,208	4,189	2,805	524	861	37.3	44.1
Private household	41	12	10	19	14	1	4	(²)	(²)
Protective service	1,523	33	100	1,390	824	214	352	43.6	45.8
Service, except private household and protective	4,185	306	1,098	2,781	1,967	309	505	35.1	43.1
Precision production, craft, and repair	11,957	625	324	11,008	6,973	1,682	2,354	41.9	43.6
Operators, fabricators, and laborers	12,305	630	1,099	10,576	6,518	1,808	2,250	40.7	43.9
Machine operators, assemblers, and inspectors	4,534	123	170	4,240	2,730	826	684	42.0	43.3
Transportation and material moving occupations	3,969	200	235	3,534	1,855	542	1,137	43.5	46.2
Handlers, equipment cleaners, helpers, and laborers	3,803	307	694	2,802	1,933	440	429	36.3	42.1
Women, 16 years and over ¹	48,501	2,480	10,824	35,197	25,911	4,255	5,030	35.8	41.7
Managerial and professional specialty	12,556	275	2,023	10,258	6,625	1,371	2,262	38.9	43.2
Executive, administrative, and managerial	5,363	72	473	4,817	2,970	666	1,181	41.6	43.9
Professional specialty	7,193	203	1,550	5,441	3,655	705	1,081	36.8	42.6
Technical, sales, and administrative support	21,980	894	5,138	15,948	12,506	1,755	1,687	35.1	40.8
Technicians and related support	1,617	24	316	1,277	980	158	139	36.7	40.8
Sales occupations	6,209	428	2,105	3,676	2,491	459	725	33.4	42.6
Administrative support, including clerical	14,154	441	2,717	10,995	9,034	1,138	823	35.7	40.1
Service occupations	8,713	939	3,123	4,651	3,529	488	634	31.4	41.9
Private household	762	114	394	254	160	31	63	25.0	46.5
Protective service	209	13	56	140	115	12	13	34.2	42.8
Service, except private household and protective	7,741	811	2,673	4,258	3,254	444	559	32.0	41.6
Precision production, craft, and repair	1,136	46	105	985	714	151	121	38.8	41.3
Operators, fabricators, and laborers	4,116	327	435	3,355	2,538	490	326	38.0	41.3
Machine operators, assemblers, and inspectors	2,984	187	181	2,616	1,967	409	240	39.1	41.2
Transportation and material moving occupations	418	54	127	236	166	23	47	34.2	43.3
Handlers, equipment cleaners, helpers, and laborers	715	85	127	503	405	59	40	35.2	40.8

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
TOTAL													
Noninstitutional population ¹	184,079	184,259	184,421	184,605	184,738	184,904	185,052	185,225	185,370	185,571	185,705	185,847	185,964
Labor force ¹	121,098	121,633	121,326	121,610	122,042	121,706	122,128	122,349	122,472	122,924	123,084	122,639	123,055
Percent of population ²	65.8	66.0	65.8	65.9	66.1	65.8	66.0	66.1	66.1	66.2	66.3	66.0	66.2
Total employed ¹	113,541	114,060	114,018	114,359	114,786	114,615	114,951	115,259	115,494	115,878	116,145	115,839	116,445
Employment-population ratio ³	61.7	61.9	61.8	61.9	62.1	62.0	62.1	62.2	62.3	62.4	62.5	62.3	62.6
Resident Armed Forces	1,735	1,726	1,718	1,720	1,736	1,743	1,741	1,755	1,750	1,749	1,736	1,736	1,732
Civilian employed	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713
Agriculture	3,250	3,269	3,192	3,212	3,143	3,184	3,249	3,172	3,215	3,293	3,228	3,204	3,228
Nonagricultural industries	108,556	109,065	109,108	109,427	109,907	109,688	109,961	110,332	110,529	110,836	111,182	110,899	111,485
Unemployed	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610
Unemployment rate 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	5.4
Not in labor force	62,981	62,626	63,095	62,995	62,696	63,198	62,924	62,876	62,898	62,647	62,621	63,208	62,909
Men													
Noninstitutional population ¹	88,271	88,361	88,442	88,534	88,598	88,683	88,756	88,849	88,924	89,033	89,099	89,168	89,225
Labor force ¹	67,604	67,802	67,623	67,671	67,937	67,776	67,947	68,019	68,030	68,243	68,343	68,148	68,445
Percent of population ²	76.6	76.7	76.5	76.4	76.7	76.4	76.6	76.6	76.5	76.6	76.7	76.4	76.7
Total employed ¹	63,390	63,543	63,543	63,711	63,916	63,949	64,048	64,174	64,245	64,396	64,636	64,332	64,892
Employment-population ratio ³	71.8	71.9	71.8	72.0	72.1	72.1	72.2	72.2	72.2	72.3	72.5	72.1	72.7
Resident Armed Forces	1,575	1,566	1,559	1,561	1,575	1,581	1,580	1,593	1,589	1,588	1,577	1,573	1,569
Civilian employed	61,815	61,977	61,984	62,150	62,341	62,368	62,468	62,581	62,656	62,808	63,059	62,759	63,323
Unemployed	4,214	4,259	4,080	3,960	4,021	3,827	3,899	3,845	3,785	3,847	3,707	3,816	3,553
Unemployment rate 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	5.2
Not in labor force	20,667	20,559	20,819	20,863	20,661	20,907	20,809	20,830	20,894	20,790	20,756	21,020	20,780
Women													
Noninstitutional population ¹	95,808	95,898	95,979	96,071	96,140	96,221	96,295	96,376	96,446	96,538	96,606	96,679	96,739
Labor force ¹	53,494	53,831	53,703	53,939	54,105	53,930	54,181	54,330	54,442	54,681	54,740	54,491	54,610
Percent of population ²	55.8	56.1	56.0	56.1	56.3	56.0	56.3	56.4	56.4	56.6	56.7	56.4	56.5
Total employed ¹	50,151	50,517	50,475	50,648	50,870	50,666	50,903	51,085	51,249	51,482	51,509	51,507	51,553
Employment-population ratio ³	52.3	52.7	52.6	52.7	52.9	52.7	52.9	53.0	53.1	53.3	53.3	53.3	53.3
Resident Armed Forces	160	160	159	159	161	162	161	162	161	161	159	163	163
Civilian employed	49,991	50,357	50,316	50,489	50,709	50,504	50,742	50,923	51,088	51,321	51,350	51,344	51,390
Unemployed	3,343	3,314	3,228	3,291	3,235	3,264	3,278	3,245	3,193	3,200	3,231	2,985	3,057
Unemployment rate ⁴	6.2	6.2	6.0	6.1	6.0	6.1	6.1	6.0	5.9	5.9	5.9	5.5	5.6
Not in labor force	42,314	42,067	42,276	42,132	42,035	42,291	42,114	42,046	42,004	41,857	41,866	42,188	42,129

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
TOTAL													
Civilian noninstitutional population ¹	182,344	182,533	182,703	182,885	183,002	183,161	183,311	183,470	183,620	183,822	183,969	184,111	184,232
Civilian labor force	119,363	119,907	119,608	119,890	120,306	119,963	120,387	120,594	120,722	121,175	121,348	120,903	121,323
Percent of population	65.5	65.7	65.5	65.6	65.7	65.5	65.7	65.7	65.7	65.9	66.0	65.7	65.9
Employed	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713
Employment-population ratio 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	62.3
Unemployed	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610
Unemployment rate	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4
Men, 20 years and over													
Civilian noninstitutional population ¹	79,387	79,474	79,536	79,625	79,668	79,740	79,807	79,885	80,002	80,120	80,203	80,260	80,326
Civilian labor force	61,970	62,129	62,054	62,106	62,083	62,085	62,211	62,299	62,248	62,440	62,696	62,497	62,791
Percent of population	78.1	78.2	78.0	78.0	77.9	77.9	78.0	78.0	77.8	77.9	78.2	77.9	78.2
Employed	58,516	58,673	58,632	58,783	58,825	58,967	59,037	59,164	59,185	59,287	59,625	59,407	59,883
Employment-population ratio ²	73.7	73.8	73.7	73.8	73.8	73.9	74.0	74.1	74.0	74.0	74.3	74.0	74.5
Agriculture	2,378	2,383	2,316	2,333	2,289	2,345	2,343	2,297	2,298	2,323	2,280	2,253	2,255
Nonagricultural industries	56,138	56,290	56,316	56,450	56,536	56,622	56,694	56,867	56,887	56,964	57,344	57,154	57,627
Unemployed	3,454	3,456	3,422	3,323	3,258	3,118	3,174	3,135	3,063	3,154	3,071	3,089	2,909
Unemployment rate	5.6	5.6	5.5	5.4	5.2	5.0	5.1	5.0	4.9	5.1	4.9	4.9	4.6
Not in labor force	17,417	17,345	17,482	17,519	17,585	17,655	17,596	17,586	17,754	17,680	17,507	17,763	17,535
Women, 20 years and over													
Civilian noninstitutional population ¹	88,395	88,464	88,546	88,632	88,685	88,785	88,843	88,923	89,010	89,110	89,178	89,261	89,307
Civilian labor force	49,494	49,728	49,722	49,886	49,969	49,922	50,095	50,254	50,361	50,558	50,640	50,542	50,612
Percent of population	56.0	56.2	56.2	56.3	56.3	56.2	56.4	56.5	56.6	56.7	56.8	56.6	56.7
Employed	46,761	47,028	47,088	47,206	47,308	47,251	47,480	47,634	47,750	47,977	48,005	48,132	48,170
Employment-population ratio ²	52.9	53.2	53.2	53.3	53.3	53.2	53.4	53.6	53.6	53.8	53.8	53.9	53.9
Agriculture	603	629	619	620	609	600	636	636	643	646	654	656	692
Nonagricultural industries	46,158	46,399	46,469	46,586	46,699	46,651	46,844	46,998	47,107	47,331	47,351	47,476	47,478
Unemployed	2,733	2,700	2,634	2,680	2,661	2,671	2,615	2,620	2,611	2,581	2,635	2,411	2,442
Unemployment rate	5.5	5.4	5.3	5.4	5.3	5.4	5.2	5.2	5.2	5.1	5.2	4.8	4.8
Not in labor force	38,901	38,736	38,824	38,746	38,716	38,863	38,748	38,669	38,649	38,552	38,538	38,719	38,695
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,562	14,595	14,621	14,628	14,649	14,637	14,661	14,663	14,609	14,592	14,588	14,591	14,598
Civilian labor force	7,899	8,050	7,832	7,898	8,254	7,956	8,081	8,041	8,113	8,177	8,011	7,865	7,919
Percent of population	54.2	55.2	53.6	54.0	56.3	54.4	55.1	54.8	55.5	56.0	54.9	53.9	54.2
Employed	6,529	6,633	6,580	6,650	6,917	6,654	6,693	6,706	6,809	6,865	6,779	6,564	6,660
Employment-population ratio ²	44.8	45.4	45.0	45.5	47.2	45.5	45.7	45.7	46.6	47.0	46.5	45.0	45.6
Agriculture	269	257	257	259	245	239	270	239	274	323	293	295	280
Nonagricultural industries	6,260	6,376	6,323	6,391	6,672	6,415	6,423	6,467	6,535	6,542	6,486	6,269	6,380
Unemployed	1,370	1,417	1,252	1,248	1,337	1,302	1,388	1,335	1,304	1,312	1,232	1,301	1,259
Unemployment rate	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9
Not in labor force	6,663	6,545	6,789	6,730	6,395	6,681	6,580	6,622	6,496	6,415	6,577	6,726	6,679

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
WHITE														
Civilian noninstitutional population ¹	156,676	156,811	156,930	157,058	157,134	157,242	157,342	157,449	157,552	157,676	157,773	157,868	157,943	
Civilian labor force	102,972	103,416	103,150	103,248	103,516	103,357	103,669	103,731	103,907	104,252	104,530	104,171	104,574	
Percent of population	85.7	65.9	65.7	65.7	65.9	65.7	65.9	65.9	66.0	66.1	66.3	66.0	66.2	
Employed	97,338	97,829	97,698	97,917	98,181	98,089	98,317	98,492	98,779	99,044	99,474	99,274	99,751	
Employment-population ratio ²	82.1	62.4	62.3	62.3	62.5	62.4	62.5	62.8	62.7	62.8	63.0	62.9	63.2	
Unemployed	5,634	5,587	5,452	5,331	5,335	5,288	5,352	5,239	5,128	5,208	5,056	4,697	4,824	
Unemployment rate	5.5	5.4	5.3	5.2	5.2	5.1	5.2	5.1	4.9	5.0	4.8	4.7	4.6	
Men, 20 years and over														
Civilian labor force	54,124	54,238	54,227	54,198	54,183	54,213	54,375	54,381	54,368	54,455	54,650	54,522	54,699	
Percent of population	78.4	78.5	78.4	78.3	78.2	78.2	78.4	76.3	78.2	78.3	78.5	78.2	78.5	
Employed	51,460	51,626	51,591	51,670	51,715	51,803	51,864	51,969	52,046	52,053	52,389	52,245	52,538	
Employment-population ratio ²	74.5	74.7	74.6	74.7	74.7	74.7	74.8	74.9	74.9	74.8	75.2	75.0	75.4	
Unemployed	2,664	2,612	2,636	2,528	2,468	2,410	2,511	2,412	2,322	2,402	2,260	2,277	2,161	
Unemployment rate	4.9	4.8	4.9	4.7	4.6	4.4	4.6	4.4	4.3	4.4	4.1	4.2	4.0	
Women, 20 years and over														
Civilian labor force	41,984	42,182	42,137	42,241	42,332	42,308	42,379	42,464	42,569	42,710	42,915	42,841	42,966	
Percent of population	55.5	55.7	55.6	55.7	55.8	55.7	55.7	55.8	55.9	56.1	56.3	56.2	56.3	
Employed	40,032	40,268	40,265	40,343	40,449	40,409	40,538	40,606	40,712	40,896	40,985	41,183	41,297	
Employment-population ratio ²	52.9	53.1	53.1	53.2	53.3	53.2	53.3	53.4	53.5	53.7	53.8	54.0	54.1	
Unemployed	1,952	1,914	1,872	1,898	1,883	1,899	1,841	1,858	1,857	1,813	1,930	1,658	1,689	
Unemployment rate	4.6	4.5	4.4	4.5	4.4	4.5	4.3	4.4	4.4	4.2	4.5	3.9	3.9	
Both sexes, 16 to 19 years														
Civilian labor force	6,864	6,996	6,786	6,809	7,001	6,836	6,915	6,886	6,970	7,087	6,965	6,807	6,889	
Percent of population	57.5	58.5	56.7	56.9	58.5	57.2	57.9	57.7	58.6	59.6	58.6	57.2	58.0	
Employed	5,846	5,935	5,842	5,904	6,017	5,857	5,915	5,917	6,021	6,095	6,100	5,845	5,916	
Employment-population ratio ²	48.9	49.7	48.8	49.3	50.3	49.0	49.5	49.6	50.6	51.2	51.3	49.1	49.8	
Unemployed	1,018	1,061	944	905	984	979	1,000	969	949	992	865	962	973	
Unemployment rate	14.8	15.2	13.9	13.3	14.1	14.3	14.5	14.1	13.6	14.0	12.4	14.1	14.1	
Men	16.3	17.0	14.8	13.5	15.2	15.1	15.1	14.8	14.9	14.4	12.2	15.7	14.5	
Women	13.3	13.3	13.0	13.1	12.9	13.4	13.8	13.3	12.3	13.6	12.7	12.4	13.7	
BLACK														
Civilian noninstitutional population ¹	20,279	20,312	20,341	20,373	20,396	20,426	20,453	20,482	20,508	20,539	20,569	20,596	20,622	
Civilian labor force	12,778	12,889	12,892	13,039	13,150	13,028	13,152	13,193	13,215	13,222	13,168	13,098	13,078	
Percent of population	63.0	63.5	63.4	64.0	64.5	63.8	64.3	64.4	64.4	64.4	64.0	63.6	63.4	
Employed	11,114	11,129	11,238	11,381	11,513	11,421	11,556	11,589	11,605	11,608	11,504	11,420	11,482	
Employment-population ratio ²	54.8	54.8	55.2	55.9	56.4	55.9	56.5	56.6	56.6	56.5	55.9	55.4	55.7	
Unemployed	1,664	1,760	1,654	1,658	1,637	1,607	1,596	1,604	1,610	1,614	1,663	1,678	1,597	
Unemployment rate	13.0	13.7	12.6	12.7	12.4	12.3	12.1	12.2	12.2	12.2	12.6	12.8	12.2	
Men, 20 years and over														
Civilian labor force	5,980	6,037	6,003	6,061	6,054	6,032	6,023	6,045	6,043	6,115	6,166	6,127	6,163	
Percent of population	74.4	75.0	74.5	75.1	74.9	74.5	74.3	74.5	74.3	75.0	75.6	75.0	75.3	
Employed	5,322	5,296	5,319	5,384	5,407	5,421	5,431	5,430	5,430	5,497	5,472	5,429	5,511	
Employment-population ratio ²	66.3	65.8	66.0	66.7	66.9	67.0	67.0	66.9	66.8	67.5	67.1	66.4	67.3	
Unemployed	658	741	684	677	647	611	592	615	613	618	694	699	652	
Unemployment rate	11.0	12.3	11.4	11.2	10.7	10.1	9.8	10.2	10.1	10.1	11.3	11.4	10.6	
Women, 20 years and over														
Civilian labor force	5,943	5,987	6,033	6,116	6,122	6,067	6,177	6,207	6,224	6,244	6,131	6,136	6,093	
Percent of population	58.9	59.3	59.6	60.4	60.3	59.7	60.7	60.9	61.0	61.1	59.9	59.9	59.4	
Employed	5,254	5,292	5,349	5,417	5,430	5,357	5,495	5,537	5,544	5,550	5,495	5,465	5,407	
Employment-population ratio ²	52.1	52.4	52.9	53.5	53.5	52.7	54.0	54.3	54.3	54.3	53.7	53.3	52.7	
Unemployed	689	695	684	699	692	710	682	670	680	694	636	671	686	
Unemployment rate	11.6	11.6	11.3	11.4	11.3	11.7	11.0	10.8	10.9	11.1	10.4	10.9	11.3	

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	855	865	856	862	974	929	952	941	948	863	870	834	822
Percent of population	39.6	40.0	39.5	39.8	44.9	42.8	43.8	43.3	43.7	39.8	40.0	38.3	37.7
Employed	538	541	570	580	676	643	630	622	631	561	537	526	564
Employment-population ratio 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	25.9
Unemployed	317	324	286	282	298	286	322	319	317	302	333	308	258
Unemployment rate	37.1	37.5	33.4	32.7	30.6	30.8	33.8	33.9	33.4	35.0	38.3	36.9	31.4
Men	37.8	38.3	31.4	32.4	33.7	31.5	32.5	32.2	33.5	35.1	42.0	39.0	27.6
Women	36.3	36.6	35.4	33.1	27.1	30.0	35.2	35.8	33.4	34.9	34.7	35.0	35.5
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	12,770	12,809	12,848	12,887	12,925	12,965	13,003	13,043	13,082	13,115	13,153	13,192	13,230
Civilian labor force	8,468	8,549	8,468	8,447	8,549	8,581	8,654	8,763	8,772	8,879	9,017	8,803	8,828
Percent of population	66.3	66.7	65.9	65.5	66.1	66.2	66.6	67.2	67.1	67.7	68.6	66.7	66.7
Employed	7,686	7,797	7,738	7,762	7,856	7,877	7,935	7,978	8,058	8,238	8,268	8,079	8,010
Employment-population ratio ²	60.2	60.9	60.2	60.2	60.8	60.8	61.0	61.2	61.6	62.8	62.9	61.2	60.5
Unemployed	782	752	730	685	693	704	719	785	714	642	749	724	818
Unemployment rate	9.2	8.8	8.6	8.1	8.1	8.2	8.3	9.0	8.1	7.2	8.3	8.2	9.3

¹ The population figures are not adjusted for seasonal variation.

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

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

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

(In thousands)

Category	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
CHARACTERISTIC													
Total	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713
Married men, spouse present	40,021	40,075	40,120	40,262	40,308	40,404	40,556	40,645	40,711	40,404	40,475	40,481	40,459
Married women, spouse present	28,130	28,314	28,282	28,283	28,189	28,069	28,099	28,175	28,249	28,441	28,707	28,805	28,859
Women who maintain families	5,971	5,963	6,011	6,033	6,107	6,151	6,178	6,237	6,227	6,168	6,157	6,160	6,055
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,599	1,672	1,622	1,625	1,591	1,624	1,705	1,595	1,599	1,666	1,677	1,648	1,678
Self-employed workers	1,488	1,429	1,403	1,424	1,393	1,415	1,430	1,407	1,450	1,454	1,414	1,423	1,385
Unpaid family workers	170	165	162	153	155	139	140	155	156	138	114	142	155
Nonagricultural industries:													
Wage and salary workers	100,106	100,634	100,510	100,825	101,241	101,282	101,522	101,943	101,997	102,507	102,683	102,279	102,538
Government	16,518	16,708	16,920	16,876	16,794	16,928	17,033	17,118	17,064	17,197	16,948	16,908	17,015
Private industries	83,588	83,926	83,590	83,949	84,447	84,354	84,489	84,825	84,933	85,310	85,735	85,371	85,523
Private households	1,234	1,240	1,163	1,212	1,175	1,100	1,222	1,286	1,200	1,147	1,170	1,175	1,092
Other industries	82,354	82,686	82,427	82,737	83,272	83,254	83,267	83,539	83,733	84,163	84,565	84,196	84,431
Self-employed workers	8,139	8,157	8,293	8,216	8,214	8,204	8,274	8,222	8,280	8,150	8,312	8,366	8,637
Unpaid family workers	268	276	274	266	248	297	242	235	248	237	228	248	281
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	5,394	5,333	5,254	5,428	5,283	5,261	5,353	5,534	5,262	5,367	5,566	5,343	5,194
Slack work	2,345	2,292	2,345	2,429	2,468	2,213	2,377	2,408	2,284	2,396	2,478	2,520	2,236
Could only find part-time work	2,725	2,677	2,623	2,683	2,526	2,683	2,655	2,696	2,638	2,640	2,598	2,535	2,502
Voluntary part time	13,940	14,498	14,836	14,437	14,573	14,415	14,488	14,523	14,711	14,571	14,572	14,603	15,016
Nonagricultural industries:													
Part time for economic reasons	5,104	5,058	4,979	5,154	5,016	4,986	5,067	5,241	5,004	5,145	5,254	5,106	4,924
Slack work	2,163	2,126	2,176	2,261	2,265	2,034	2,196	2,209	2,111	2,260	2,327	2,325	2,121
Could only find part-time work	2,648	2,603	2,530	2,599	2,463	2,603	2,557	2,597	2,552	2,566	2,457	2,475	2,397
Voluntary part time	13,544	13,995	14,334	13,953	14,099	13,987	14,011	14,064	14,222	14,096	14,123	14,141	14,592

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
Total, 16 years and over	111,806	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744	114,129	114,409	114,103	114,713	
16 to 24 years	20,109	20,208	20,069	20,184	20,475	20,116	20,096	20,065	20,112	20,312	20,271	19,916	19,990	
16 to 19 years	6,529	6,633	6,580	6,650	6,917	6,654	6,693	6,706	6,809	6,865	6,779	6,564	6,660	
16 to 17 years	2,655	2,702	2,694	2,760	2,849	2,754	2,768	2,734	2,826	2,776	2,752	2,657	2,682	
18 to 19 years	3,872	3,930	3,871	3,875	3,996	3,911	3,936	3,985	3,994	4,061	4,045	3,906	3,967	
20 to 24 years	13,580	13,575	13,489	13,534	13,558	13,462	13,403	13,359	13,303	13,447	13,491	13,353	13,330	
25 years and over	91,675	92,087	92,234	92,551	92,606	92,735	93,071	93,424	93,625	93,778	94,118	94,239	94,686	
25 to 54 years	77,294	77,621	77,726	78,015	78,202	78,307	78,477	78,731	78,916	79,170	79,351	79,588	79,946	
55 years and over	14,373	14,452	14,537	14,497	14,498	14,491	14,641	14,663	14,716	14,581	14,673	14,566	14,712	
Men, 16 years and over	61,815	61,977	61,984	62,150	62,341	62,368	62,468	62,581	62,656	62,808	63,059	62,759	63,323	
16 to 24 years	10,423	10,392	10,366	10,441	10,586	10,448	10,403	10,370	10,369	10,456	10,444	10,349	10,427	
16 to 19 years	3,299	3,304	3,352	3,367	3,516	3,401	3,431	3,417	3,471	3,521	3,434	3,352	3,440	
16 to 17 years	1,353	1,362	1,373	1,417	1,410	1,391	1,409	1,390	1,451	1,444	1,406	1,376	1,397	
18 to 19 years	1,948	1,940	1,960	1,938	2,046	2,021	2,034	2,040	2,035	2,053	2,046	1,982	2,042	
20 to 24 years	7,124	7,088	7,014	7,074	7,070	7,047	6,972	6,953	6,898	6,935	7,010	6,998	6,987	
25 years and over	51,385	51,554	51,601	51,733	51,781	51,900	52,047	52,210	52,299	52,338	52,623	52,469	52,862	
25 to 54 years	42,904	43,002	43,071	43,203	43,289	43,408	43,488	43,592	43,690	43,848	43,992	44,375	44,336	
55 years and over	8,480	8,544	8,561	8,524	8,503	8,514	8,580	8,605	8,629	8,470	8,567	8,467	8,530	
Women, 16 years and over	49,991	50,357	50,316	50,489	50,709	50,504	50,742	50,923	51,088	51,321	51,350	51,344	51,390	
16 to 24 years	9,686	9,816	9,703	9,743	9,889	9,668	9,693	9,695	9,743	9,857	9,826	9,567	9,563	
16 to 19 years	3,230	3,329	3,228	3,283	3,401	3,253	3,262	3,289	3,338	3,344	3,345	3,212	3,220	
16 to 17 years	1,302	1,340	1,321	1,343	1,439	1,363	1,359	1,344	1,375	1,332	1,346	1,281	1,285	
18 to 19 years	1,924	1,990	1,911	1,937	1,950	1,890	1,902	1,945	1,959	2,008	1,999	1,924	1,925	
20 to 24 years	6,456	6,487	6,475	6,460	6,488	6,415	6,431	6,406	6,405	6,513	6,481	6,355	6,343	
25 years and over	40,290	40,533	40,633	40,818	40,825	40,835	41,024	41,214	41,326	41,440	41,495	41,770	41,824	
25 to 54 years	34,390	34,619	34,655	34,812	34,913	34,899	34,989	35,139	35,226	35,322	35,359	35,613	35,610	
55 years and over	5,893	5,908	5,976	5,973	5,995	5,977	6,061	6,058	6,087	6,111	6,106	6,099	6,182	

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

(In thousands)

Sex and age	1987										1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
Total, 16 years and over	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,978	7,046	6,938	6,801	6,610	
16 to 24 years	2,902	2,895	2,756	2,701	2,736	2,692	2,689	2,641	2,547	2,659	2,525	2,637	2,532	
16 to 19 years	1,370	1,417	1,252	1,248	1,337	1,302	1,388	1,335	1,304	1,312	1,232	1,301	1,259	
16 to 17 years	620	717	623	586	638	618	710	649	613	638	580	568	580	
18 to 19 years	733	702	657	624	688	701	679	691	688	689	655	732	658	
20 to 24 years	1,532	1,478	1,504	1,453	1,399	1,390	1,301	1,306	1,243	1,347	1,293	1,336	1,273	
25 years and over	4,667	4,657	4,502	4,538	4,544	4,445	4,482	4,442	4,412	4,393	4,416	4,161	4,082	
25 to 54 years	4,143	4,134	4,042	4,078	4,050	3,931	3,993	3,909	3,939	3,896	3,926	3,730	3,625	
55 years and over	505	532	475	462	483	499	474	513	488	527	499	441	446	
Men, 16 years and over	4,214	4,259	4,080	3,960	4,021	3,827	3,899	3,845	3,785	3,847	3,707	3,816	3,553	
16 to 24 years	1,576	1,586	1,474	1,415	1,518	1,435	1,432	1,414	1,378	1,456	1,333	1,423	1,315	
16 to 19 years	760	803	658	637	763	709	725	710	722	693	636	727	644	
16 to 17 years	360	401	325	292	363	341	372	356	347	348	285	313	291	
18 to 19 years	401	402	357	307	387	382	354	355	367	360	354	414	352	
20 to 24 years	816	783	816	778	755	726	707	704	656	763	697	696	671	
25 years and over	2,651	2,648	2,585	2,535	2,528	2,427	2,462	2,419	2,390	2,391	2,390	2,385	2,243	
25 to 54 years	2,304	2,310	2,271	2,238	2,215	2,139	2,182	2,109	2,112	2,070	2,095	2,089	1,951	
55 years and over	327	348	301	300	302	283	277	313	282	351	305	299	276	
Women, 16 years and over	3,343	3,314	3,228	3,291	3,235	3,264	3,278	3,245	3,193	3,200	3,231	2,985	3,057	
16 to 24 years	1,326	1,309	1,282	1,286	1,218	1,257	1,257	1,227	1,169	1,203	1,192	1,214	1,217	
16 to 19 years	610	614	594	611	574	593	663	625	582	619	596	574	615	
16 to 17 years	260	316	298	294	275	277	338	293	266	290	295	255	289	
18 to 19 years	332	300	300	317	301	319	325	336	321	329	301	318	306	
20 to 24 years	716	695	688	675	644	664	594	602	587	584	596	640	602	
25 years and over	2,016	2,009	1,917	2,003	2,016	2,018	2,020	2,023	2,022	2,002	2,026	1,776	1,838	
25 to 54 years	1,839	1,824	1,771	1,840	1,835	1,792	1,811	1,800	1,827	1,826	1,831	1,641	1,674	
55 years and over	178	184	174	162	181	216	197	200	206	175	194	142	170	

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Civilian workers)

Sex and age	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4
16 to 24 years	12.6	12.5	12.1	11.8	11.8	11.8	11.8	11.6	11.2	11.6	11.1	11.7	11.2
16 to 19 years	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9
16 to 17 years	18.9	21.0	18.8	17.5	18.3	18.3	20.4	19.2	17.6	18.7	17.4	17.6	17.8
18 to 19 years	15.9	15.2	14.5	13.9	14.7	15.2	14.7	14.8	14.7	14.5	13.9	15.8	14.2
20 to 24 years	10.1	9.8	10.0	9.7	9.4	9.4	8.8	8.9	8.5	9.1	8.7	9.1	8.7
25 years and over	4.8	4.8	4.7	4.7	4.7	4.6	4.6	4.5	4.5	4.5	4.5	4.2	4.1
25 to 54 years	5.1	5.1	4.9	5.0	4.9	4.8	4.8	4.7	4.8	4.7	4.7	4.5	4.3
55 years and over	3.4	3.6	3.2	3.1	3.2	3.3	3.1	3.4	3.2	3.5	3.3	2.9	2.9
Men, 16 years and over	6.4	6.4	6.2	6.0	6.1	5.8	5.9	5.8	5.7	5.8	5.6	5.7	5.3
16 to 24 years	13.1	13.2	12.4	11.9	12.5	12.1	12.1	12.0	11.7	12.2	11.3	12.1	11.2
16 to 19 years	18.7	19.6	16.4	15.9	17.8	17.3	17.4	17.2	17.2	16.4	15.6	17.8	15.8
16 to 17 years	21.0	22.7	19.1	17.1	20.5	19.7	20.9	20.4	19.3	19.4	16.9	18.5	17.2
18 to 19 years	17.1	17.2	15.4	13.7	15.9	15.9	14.8	14.8	15.3	14.9	14.7	17.3	14.7
20 to 24 years	10.3	9.9	10.4	9.9	9.6	9.3	9.2	9.2	8.7	9.9	9.0	9.1	8.8
25 years and over	4.9	4.9	4.8	4.7	4.7	4.5	4.5	4.4	4.4	4.4	4.3	4.3	4.1
25 to 54 years	5.1	5.1	5.0	4.9	4.9	4.7	4.8	4.6	4.6	4.5	4.5	4.5	4.2
55 years and over	3.7	3.9	3.4	3.4	3.4	3.2	3.1	3.5	3.2	4.0	3.4	3.4	3.1
Women, 16 years and over	6.3	6.2	6.0	6.1	6.0	6.1	6.1	6.0	5.9	5.9	5.9	5.5	5.6
16 to 24 years	12.0	11.8	11.7	11.7	11.0	11.5	11.5	11.2	10.7	10.9	10.8	11.3	11.3
16 to 19 years	15.9	15.6	15.5	15.7	14.4	15.4	16.9	16.0	14.8	15.6	15.1	15.2	16.0
16 to 17 years	16.6	19.1	18.4	18.0	16.0	16.9	19.9	17.9	16.2	17.9	18.0	16.6	18.4
18 to 19 years	14.7	13.1	13.6	14.1	13.4	14.4	14.6	14.7	14.1	14.1	13.1	14.2	13.7
20 to 24 years	10.0	9.7	9.6	9.5	9.0	9.4	8.5	8.6	8.4	8.2	8.4	9.1	8.7
25 years and over	4.8	4.7	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.6	4.7	4.1	4.2
25 to 54 years	5.1	5.0	4.9	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.5
55 years and over	2.9	3.0	2.8	2.6	2.9	3.5	3.1	3.2	3.3	2.8	3.1	2.3	2.7

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
CHARACTERISTIC													
Total (all civilian workers)	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8	5.8	5.7	5.6	5.4
Men, 20 years and over	5.6	5.6	5.5	5.4	5.2	5.0	5.1	5.0	4.9	5.1	4.9	4.9	4.6
Women, 20 years and over	5.5	5.4	5.3	5.4	5.3	5.4	5.2	5.2	5.2	5.1	5.2	4.8	4.8
Both sexes, 16 to 19 years	17.3	17.6	16.0	15.8	16.2	16.4	17.2	16.6	16.1	16.0	15.4	16.5	15.9
White	5.5	5.4	5.3	5.2	5.2	5.1	5.2	5.1	4.9	5.0	4.8	4.7	4.6
Black and other	11.8	12.1	11.5	11.4	11.3	10.9	10.8	11.0	10.9	10.9	11.3	11.5	10.7
Black	13.0	13.7	12.8	12.7	12.4	12.3	12.1	12.2	12.2	12.2	12.6	12.8	12.2
Hispanic origin	9.2	8.8	8.6	8.1	8.1	8.2	8.3	9.0	8.1	7.2	8.3	8.2	9.3
Married men, spouse present	4.1	4.0	4.0	3.8	3.7	3.7	3.7	3.5	3.4	3.6	3.4	3.4	3.0
Married women, spouse present	4.4	4.2	4.0	4.2	4.3	4.2	4.2	4.2	4.3	4.2	4.1	4.0	3.8
Women who maintain families	9.4	9.5	9.5	9.3	9.0	8.8	8.9	8.5	8.4	8.9	8.3	7.5	8.7
Full-time workers	5.9	5.9	5.9	5.7	5.6	5.5	5.6	5.5	5.4	5.4	5.3	5.3	5.1
Part-time workers	8.6	8.7	7.3	8.1	8.2	8.4	8.3	8.2	8.0	8.3	7.9	7.7	7.4
Unemployed 15 weeks and over ¹	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3
Labor force time lost ²	7.3	7.2	7.1	6.9	6.9	6.8	6.8	6.8	6.6	6.6	6.6	6.5	6.2
INDUSTRY													
Nonagricultural private wage and salary workers	6.3	6.3	6.1	6.1	6.0	5.9	5.9	5.8	5.7	5.8	5.7	5.6	5.3
Goods-producing industries	7.7	7.7	7.1	7.1	6.9	7.0	7.0	6.5	6.4	7.1	6.9	6.5	6.5
Mining	11.2	13.0	9.5	7.9	8.6	7.4	8.3	7.0	8.0	7.7	7.8	7.9	8.4
Construction	12.0	12.1	11.7	10.8	11.3	11.9	11.2	10.6	10.6	12.2	11.0	10.7	10.6
Manufacturing	6.3	6.3	5.7	6.0	5.8	5.6	5.7	5.3	5.1	5.6	5.6	5.2	5.3
Durable goods	6.2	6.2	5.4	6.0	5.5	5.4	5.2	4.8	4.8	5.5	5.9	5.2	4.8
Nondurable goods	6.4	6.5	6.1	5.9	5.8	5.9	6.5	5.9	5.6	5.8	5.3	5.3	6.0
Service-producing industries	5.7	5.6	5.7	5.6	5.6	5.3	5.4	5.5	5.3	5.3	5.1	5.2	4.7
Transportation and public utilities	4.7	4.4	4.8	4.4	4.4	4.1	4.4	4.5	4.6	3.6	3.6	4.2	3.8
Wholesale and retail trade	7.1	7.0	7.1	6.8	7.0	6.4	6.5	6.8	6.2	6.1	6.4	6.8	5.9
Finance and service industries	4.8	4.9	4.9	5.1	4.7	4.8	4.7	4.8	4.8	4.9	4.5	4.2	4.1
Government workers	3.5	3.4	3.4	3.4	3.7	3.4	3.3	3.4	3.2	3.0	2.8	2.8	3.0
Agricultural wage and salary workers	9.5	9.4	9.3	10.9	10.6	8.6	10.6	11.1	10.9	11.5	10.2	11.0	10.6

¹ Unemployment as a percent of the civilian labor force.

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

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

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

(Numbers in thousands)

Weeks of unemployment	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
DURATION													
Less than 5 weeks	3,195	3,308	3,138	3,186	3,203	3,220	3,223	3,218	3,229	3,089	3,084	3,009	3,125
5 to 14 weeks	2,256	2,165	2,151	2,144	2,142	1,949	2,093	2,029	1,968	2,263	2,145	2,101	1,956
15 weeks and over	2,060	2,067	2,029	1,920	1,896	1,904	1,801	1,834	1,791	1,733	1,740	1,722	1,540
15 to 26 weeks	984	974	973	945	834	917	844	899	892	839	841	887	725
27 weeks and over	1,076	1,093	1,056	975	1,062	987	957	935	899	894	899	835	816
Average (mean) duration, in weeks	14.8	14.8	14.7	14.2	14.3	14.2	14.1	14.0	14.2	14.4	14.4	13.7	13.4
Median duration, in weeks	6.9	6.6	6.6	6.6	6.4	5.8	6.2	6.1	6.0	6.4	6.4	6.6	5.6
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	42.5	43.9	42.9	43.9	44.2	45.5	45.3	45.4	46.2	43.6	44.3	44.0	47.2
5 to 14 weeks	30.0	28.7	29.4	29.6	29.6	27.6	29.4	28.7	28.2	31.9	30.8	30.8	29.5
15 weeks and over	27.4	27.4	27.7	26.5	26.2	26.9	25.3	25.9	25.6	24.5	25.0	25.2	23.3
15 to 26 weeks	13.1	12.9	13.3	13.0	11.5	13.0	11.9	12.7	12.8	11.8	12.1	13.0	10.9
27 weeks and over	14.3	14.5	14.4	13.4	14.7	14.0	13.4	13.2	12.9	12.6	12.9	12.2	12.3

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

(Numbers in thousands)

Reasons for unemployment	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
NUMBER OF UNEMPLOYED													
Job losers	3,705	3,612	3,554	3,529	3,389	3,313	3,388	3,307	3,200	3,209	3,207	3,139	2,916
On layoff	963	924	919	916	874	820	944	878	856	888	884	899	821
Other job losers	2,742	2,688	2,635	2,613	2,515	2,493	2,444	2,429	2,344	2,320	2,323	2,240	2,095
Job leavers	955	931	959	989	992	981	960	926	946	1,082	961	1,075	993
Reentrants	1,965	1,995	1,980	1,930	1,969	1,908	1,845	1,974	1,945	1,917	1,951	1,756	1,784
New entrants	918	999	854	844	855	882	914	855	909	885	864	887	915
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	49.1	47.9	48.4	48.4	47.0	46.8	47.7	46.8	45.7	45.2	45.9	45.8	44.1
On layoff	12.8	12.3	12.5	12.6	12.1	11.6	13.3	12.4	12.2	12.5	12.7	13.1	12.4
Other job losers	36.4	35.7	35.9	35.8	34.9	35.2	34.4	34.4	33.5	32.7	33.3	32.7	31.7
Job leavers	12.7	12.4	13.1	13.6	13.8	13.8	13.5	13.1	13.5	15.3	13.8	15.7	15.0
Reentrants	26.1	26.5	26.9	26.5	27.3	26.9	26.0	28.0	27.8	27.0	27.9	25.6	27.0
New entrants	12.2	13.3	11.6	11.6	11.9	12.5	12.9	12.1	13.0	12.5	12.4	12.9	13.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.1	3.0	3.0	2.9	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.4
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9	.8	.9	.8
Reentrants	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.5	1.5
New entrants .....	.8	.8	.7	.7	.7	.7	.8	.7	.8	.7	.7	.7	.8

**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	Construc-tion	Manufac-turing	Total	Transpor-tation and public utilities	Whole-sale 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	2,202	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
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:															
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	103,812	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	104,365	87,063	25,354	748	5,185	19,421	79,011	5,507	5,905	18,706	6,689	24,902	2,976	4,002	10,324
March ^P	104,661	87,290	25,449	751	5,265	19,433	79,212	5,533	5,930	18,687	6,701	24,990	2,969	4,019	10,383
April ^P	104,835	87,461	25,506	767	5,262	19,477	79,329	5,545	5,945	18,703	6,718	25,044	2,962	4,035	10,377

¹ Not available.

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

^P = preliminary.

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

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

B-2. Employees on nonagricultural payrolls by detailed industry

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹					
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	
Total		100,462	101,381	102,969	103,754	104,608						
Total private		83,152	84,030	85,396	86,045	86,914	67,102	67,918	68,850	69,405	70,179	
Mining		718	722	742	746	759	506	511	533	536	545	
Metal mining	10	42.3	42.5	46.3	47.0		32.0	32.0	35.3	36.1	-	
Iron ores	101	8.9	9.2	9.6	10.1		6.8	7.0	7.4	8.0	-	
Copper ores	102	12.4	12.4	13.6	13.6		9.9	9.9	10.7	10.7	-	
Coal mining	11,12	163.0	161.2	159.4	155.5		133.0	131.6	129.9	126.8	-	
Bituminous coal and lignite mining	12	160.6	158.8	157.3	153.4		131.0	129.6	128.1	125.0	-	
Oil and gas extraction	13	408.5	409.0	435.1	437.1	443.0	262.0	263.0	292.0	292.9		
Crude petroleum, natural gas, and natural gas liquids	131,2	204.2	203.5	200.6	201.3	-	100.1	100.2	99.7	100.0	-	
Oil and gas field services	138	204.3	205.5	234.5	235.8		161.9	162.8	192.3	192.9	-	
Nonmetallic minerals, except fuels	14	104.0	109.7	101.5	106.5		78.8	84.6	75.7	80.3		
Crushed and broken stone	142	36.9	40.1	36.1	38.5		29.2	32.4	27.3	29.6		
Sand and gravel	144	30.5	32.8	28.7	30.6		-	-	-	-	-	
Chemical and fertilizer minerals	147	17.7	17.8	18.2	18.2		-	-	-	-	-	
Construction		4,599	4,843	4,641	4,812	5,078	3,522	3,750	3,532	3,689	3,936	
General building contractors	15	1,196.4	1,224.0	1,197.9	1,227.4	1,275.8	858.5	881.7	853.0	879.0	-	
Residential building construction	152	614.9	637.6	628.3	647.3	-	427.1	446.1	435.0	451.7	-	
Operative builders	153	53.9	53.8	50.1	50.1		27.3	27.1	22.8	22.7	-	
Nonresidential building construction	154	527.6	532.6	519.5	530.0	-	404.1	408.5	395.2	404.6	-	
Heavy construction contractors	16	676.1	752.6	658.8	707.8	-	552.0	627.0	534.2	580.5		
Highway and street construction	161	223.2	273.4	218.4	244.6		177.8	226.4	169.6	194.2	-	
Heavy construction, except highway	162	452.9	479.2	440.4	463.2	-	374.2	400.6	364.6	386.3	-	
Special trade contractors	17	2,726.2	2,866.2	2,784.3	2,876.9		2,111.0	2,241.7	2,145.2	2,229.6		
Plumbing, heating, and air conditioning	171	624.9	629.4	649.0	653.0		456.1	460.7	473.2	477.1	-	
Painting, paper hanging, and decorating	172	151.5	162.7	147.0	152.6		124.5	135.1	119.6	124.5	-	
Electrical work	173	518.8	523.0	550.7	556.2		396.9	400.7	423.7	428.6	-	
Masonry, stonework, and plastering	174	446.6	470.3	443.7	460.0		376.2	398.5	373.8	391.0	-	
Carpentering and flooring	175	169.1	177.3	155.9	157.9	-	129.1	136.3	118.9	120.0	-	
Roofing and sheet metal work	176	191.3	203.6	186.0	198.8		149.4	161.2	141.8	154.1	-	
Manufacturing		18,897	18,926	19,288	19,334	19,391	12,846	12,874	13,160	13,196	13,241	
Durable goods		11,145	11,155	11,356	11,391	11,441	7,382	7,396	7,560	7,589	7,630	
Lumber and wood products	24	713.5	722.5	728.3	730.9	738.6	595.3	603.4	605.9	608.0	616.4	
Logging camps and logging contractors	241	74.5	73.2	79.0	75.7	-	61.4	60.2	66.0	63.1	-	
Sawmills and planing mills	242	196.5	197.9	202.6	203.8		173.4	174.4	178.6	179.6		
Sawmills and planing mills, general	2421	159.3	160.4	163.6	164.7		140.7	141.4	144.2	145.2		
Hardwood dimension and flooring	2426	34.3	34.5	36.2	36.3		30.1	30.3	31.9	31.9		
Millwork, plywood, and structural members	243	253.8	259.1	256.9	258.0		209.2	214.3	210.6	211.7	-	
Millwork	2431	97.8	99.9	99.2	99.4		79.1	81.1	79.2	79.6		
Wood kitchen cabinets	2434	69.4	70.6	69.4	69.7		55.6	56.8	55.3	55.6	-	
Hardwood veneer and plywood	2435	23.9	24.3	25.3	25.3		21.0	21.4	22.2	22.2	-	
Softwood veneer and plywood	2436	38.2	38.6	38.8	38.8		34.8	35.1	35.3	35.2	-	
Wood containers	244	40.2	40.8	40.9	41.7	-	34.0	34.5	34.7	35.5	-	
Wood buildings and mobile homes	245	68.5	71.2	67.5	69.3	-	51.2	53.9	49.7	51.1	-	
Mobile homes	2451	46.4	48.2	46.3	46.8		36.9	38.9	36.7	37.0	-	
Miscellaneous wood products	249	80.0	80.3	81.4	82.4		66.1	66.1	66.3	67.0	-	

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Durable goods—Continued											
Furniture and fixtures	25	503.2	504.6	532.7	531.8	531.3	403.4	404.2	426.2	425.3	424.3
Household furniture	251	302.5	303.6	321.9	321.6	-	255.7	256.5	272.3	272.3	-
Wood household furniture	2511	134.6	134.9	142.9	143.1	-	117.8	118.2	124.8	125.2	-
Upholstered household furniture	2512	96.4	96.9	103.9	104.0	-	80.5	80.8	87.1	87.2	-
Metal household furniture	2514	28.4	28.5	30.7	30.3	-	23.5	23.5	25.4	25.1	-
Mattresses and bedspings	2515	30.1	30.2	31.7	32.0	-	22.9	22.9	24.4	24.6	-
Office furniture	252	65.5	65.8	68.7	68.1	-	50.0	50.1	51.6	51.1	-
Public building and related furniture	253	27.9	28.1	29.5	29.5	-	21.5	21.5	22.8	22.7	-
Partitions and fixtures	254	71.3	71.3	75.1	75.1	-	51.0	51.1	54.1	54.2	-
Miscellaneous furniture and fixtures	259	36.0	35.8	37.5	37.5	-	25.2	25.0	25.4	25.0	-
Stone, clay, and glass products	32	569.9	581.3	562.9	572.2	586.1	438.1	449.2	433.1	442.2	455.3
Flat glass	321	15.1	15.2	14.3	14.5	-	11.9	11.9	11.1	11.2	-
Glass and glassware, pressed or blown	322	87.9	87.7	85.8	86.1	-	74.8	74.8	74.0	74.4	-
Glass containers	3221	43.9	44.0	42.4	42.3	-	39.3	39.5	38.2	38.2	-
Pressed and blown glass, nec	3229	44.0	43.7	43.4	43.8	-	35.5	35.3	35.8	36.2	-
Products of purchased glass	323	50.5	50.7	52.2	52.2	-	35.4	35.6	38.0	38.2	-
Cement, hydraulic	324	21.5	21.7	20.6	20.7	-	16.7	16.8	15.7	15.8	-
Structural clay products	325	37.4	37.9	38.2	38.6	-	29.3	29.8	29.8	30.1	-
Pottery and related products	326	36.2	36.0	36.5	37.0	-	28.9	28.8	29.2	29.4	-
Concrete, gypsum, and plaster products	327	199.2	209.2	191.8	199.5	-	152.6	162.4	144.4	151.7	-
Concrete block and brick	3271	19.4	20.1	19.2	20.0	-	12.8	13.6	12.5	13.2	-
Concrete products, nec	3272	67.0	68.6	66.4	67.4	-	50.5	52.1	49.7	50.5	-
Ready-mixed concrete	3273	93.4	101.0	87.4	93.2	-	74.4	81.8	67.7	73.5	-
Misc. nonmetallic mineral products	329	109.1	109.5	110.5	110.3	-	78.0	78.7	80.8	81.0	-
Abrasive products	3291	20.5	20.5	20.6	20.7	-	13.7	13.8	14.1	14.3	-
Asbestos products	3292	9.2	9.2	9.2	9.2	-	7.1	7.0	7.0	6.9	-
Mineral wool	3296	24.4	24.5	23.5	23.5	-	-	-	-	-	-
Primary metal industries	33	742.2	747.9	771.4	774.8	775.7	556.4	562.6	587.1	591.3	592.0
Blast furnaces and basic steel products	331	267.0	273.5	284.9	285.9	285.8	199.8	206.4	219.0	220.4	220.6
Blast furnaces and steel mills	3312	201.0	207.5	216.4	217.2	-	151.2	157.7	167.6	168.7	-
Steel pipe and tubes	3317	22.7	22.7	24.2	24.3	-	16.4	16.5	18.3	18.3	-
Iron and steel foundries	332	129.9	130.2	136.5	136.6	-	102.2	102.6	108.8	110.8	-
Gray iron foundries	3321	80.9	81.6	84.0	85.5	-	65.6	66.3	68.4	69.9	-
Malleable iron foundries	3322	8.7	8.5	8.9	9.0	-	6.3	6.2	6.7	6.7	-
Steel foundries, nec	3325	26.4	26.2	29.2	29.4	-	19.7	19.5	22.4	22.7	-
Primary nonferrous metals	333	39.6	39.6	42.0	41.9	-	27.5	27.8	30.5	30.7	-
Primary aluminum	3334	22.1	22.1	23.5	23.5	-	15.2	15.4	17.4	17.5	-
Nonferrous rolling and drawing	335	178.0	177.1	177.5	177.5	-	127.4	126.5	126.8	127.0	-
Copper rolling and drawing	3351	22.7	22.9	23.4	23.6	-	17.8	17.9	18.0	18.1	-
Aluminum sheet, plate, and foil	3353	27.6	27.7	27.3	27.3	-	20.2	20.4	19.1	19.1	-
Nonferrous wire drawing and insulating	3357	75.8	74.8	75.6	75.8	-	53.4	52.5	53.7	54.2	-
Nonferrous foundries	336	86.2	86.1	87.5	87.6	-	69.2	69.1	70.1	70.4	-
Aluminum foundries	3361	53.2	53.1	53.2	53.4	-	43.4	43.3	43.4	43.7	-
Fabricated metal products	34	1,414.5	1,418.3	1,448.5	1,453.1	1,459.2	1,047.4	1,049.5	1,076.9	1,081.2	1,086.0
Metal cans and shipping containers	341	56.2	56.5	55.3	54.9	-	48.2	48.4	47.1	46.6	-
Metal cans	3411	45.4	45.5	44.1	43.8	-	39.7	39.7	38.0	37.6	-
Cutlery, hand tools, and hardware	342	133.6	133.4	134.8	135.2	-	98.7	98.3	99.8	100.3	-
Hand and edge tools, and hand saws and blades	3423.5	46.6	46.8	49.6	49.7	-	34.1	34.2	36.5	36.6	-
Hardware, nec	3429	75.9	75.6	74.3	74.4	-	57.2	56.8	55.8	56.1	-
Plumbing and heating, except electric	343	60.6	60.5	63.4	62.8	-	43.4	43.0	45.4	45.0	-
Plumbing fittings and brass goods	3432	24.5	24.5	25.9	25.6	-	18.0	17.8	18.9	18.8	-
Heating equipment, except electric	3433	25.4	25.4	26.0	25.7	-	17.2	17.1	17.7	17.4	-
Fabricated structural metal products	344	427.5	429.6	435.4	436.3	-	299.5	301.6	310.2	311.0	-
Fabricated structural metal	3441	76.1	75.9	77.3	76.8	-	53.7	53.6	55.2	55.2	-
Metal doors, sash, and trim	3442	89.7	92.0	92.7	93.1	-	65.8	67.7	67.5	67.6	-
Fabricated plate work (boiler shops)	3443	92.6	91.9	93.3	94.1	-	57.4	57.4	61.2	62.1	-
Sheet metal work	3444	108.5	108.7	110.7	111.1	-	80.9	80.7	83.2	83.2	-
Architectural metal work	3446	28.8	28.9	29.0	28.9	-	21.0	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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	93.9	94.3	97.5	98.2		72.0	72.1	75.1	75.7	
Screw machine products	3451	44.7	44.9	47.6	48.2		36.7	36.6	39.4	40.0	
Bolts, nuts, rivets, and washers	3452	49.2	49.4	49.9	50.0		35.3	35.5	35.7	35.7	
Metal forgings and stampings	346	240.6	239.8	235.0	236.7	-	192.5	191.7	187.3	189.2	
Iron and steel forgings	3462	31.1	30.9	30.5	30.3		24.0	23.8	23.3	23.2	
Automotive stampings	3465	102.8	102.0	95.5	96.9		87.6	87.0	81.4	83.0	
Metal stampings, nec	3469	96.3	96.3	98.3	98.7		73.3	73.2	74.8	75.1	
Metal services, nec	347	113.8	113.9	121.9	122.0		91.1	91.0	98.4	98.3	
Plating and polishing	3471	73.4	73.6	78.4	78.4		59.3	59.4	63.8	63.5	
Metal coating and allied services	3479	40.4	40.3	43.5	43.6		31.8	31.6	34.6	34.8	
Ordnance and accessories, nec	348	79.3	79.8	82.1	82.5		50.4	50.7	50.7	51.1	
Ammunition, except for small arms, nec	3483	46.5	46.7	46.7	46.8		28.7	28.5	25.9	26.0	
Misc. fabricated metal products	349	209.0	210.5	223.1	224.5		151.6	152.7	162.9	164.0	
Valves and pipe fittings	3494	75.9	76.2	81.5	82.2		50.7	50.9	55.9	56.4	
Misc. fabricated wire products	3496	51.1	51.3	53.7	53.8		38.7	39.0	40.9	41.0	
Machinery, except electrical	35	2,025.1	2,024.4	2,106.5	2,120.2	2,128.4	1,200.8	1,202.3	1,268.1	1,280.9	1,287.3
Engines and turbines	351	99.2	98.8	98.5	99.8	-	62.1	62.1	65.5	66.5	-
Turbines and turbine generator sets	3511	30.6	30.1	26.9	27.0		16.2	15.9	15.4	15.4	
Internal combustion engines, nec	3519	68.6	68.7	71.6	72.8		45.9	46.2	50.1	51.1	
Farm and garden machinery	352	99.9	101.1	114.3	116.4		65.9	67.3	80.0	82.3	
Farm machinery and equipment	3523	71.3	72.8	80.8	82.2		43.6	45.4	53.9	55.5	
Construction and related machinery	353	215.7	215.2	230.9	233.0		126.5	126.2	140.7	142.7	
Construction machinery	3531	78.8	78.3	83.4	84.0		46.0	45.9	51.5	52.1	
Mining machinery	3532	19.5	19.5	21.0	20.9		11.6	11.7	12.8	12.9	
Oil field machinery	3533	40.3	40.3	45.5	46.4		23.0	22.9	28.1	28.7	
Conveyors and conveying equipment	3535	29.3	29.3	30.0	30.1		15.0	14.8	15.8	15.9	
Industrial trucks and tractors	3537	25.3	25.3	26.5	26.7		17.8	17.7	18.3	18.5	
Metalworking machinery	354	299.0	298.6	303.2	304.3		213.5	213.4	217.4	218.6	
Machine tools, metal cutting types	3541	46.4	45.9	45.7	45.7		29.1	28.7	29.0	28.9	
Machine tools, metal forming types	3542	19.2	19.1	19.1	19.2		11.9	11.9	12.4	12.4	
Special dies, tools, jigs, and fixtures	3544	142.5	142.5	144.9	145.7		109.2	109.1	110.6	111.6	
Machine tool accessories	3545	52.9	53.3	55.9	56.1		37.2	37.5	39.8	40.2	
Power driven hand tools	3546	21.2	21.2	21.1	21.0		15.6	15.7	15.6	15.5	
Special industry machinery	355	157.5	157.6	165.7	167.1		93.6	93.6	99.3	100.6	
Food products machinery	3551	37.6	37.4	39.5	39.9		22.8	22.7	24.0	24.3	
Textile machinery	3552	19.7	19.9	21.2	21.4		13.2	13.3	14.2	14.4	
Printing trades machinery	3555	26.8	26.7	27.8	28.0		15.7	15.6	16.5	16.8	
General industrial machinery	356	251.8	252.1	260.1	261.7		160.5	160.9	168.5	169.4	
Pumps and pumping equipment	3561	43.6	43.5	45.1	45.6		25.0	24.9	26.1	26.5	
Ball and roller bearings	3562	43.1	43.1	44.5	44.9		32.7	32.8	34.6	34.9	
Air and gas compressors	3563	21.6	21.7	21.8	21.8		12.2	12.1	12.9	12.7	
Blowers and fans	3564	30.2	30.5	31.4	31.5		19.3	19.6	20.4	20.4	
Speed changers, drives, and gears	3566	19.5	20.1	20.5	20.6		13.4	13.8	14.1	14.3	
Power transmission equipment, nec	3568	16.2	16.4	17.3	17.4		10.6	10.9	11.7	11.8	
Office and computing machines	357	455.7	453.9	470.3	470.9		147.7	147.5	152.4	153.4	
Electronic computing equipment	3573	399.7	398.5	412.8	413.1		123.8	123.9	127.2	127.1	
Refrigeration and service machinery	358	173.9	174.4	179.0	180.2		124.1	124.6	128.4	129.3	
Refrigeration and heating equipment	3585	124.6	124.8	129.2	130.5		90.8	91.1	95.3	96.2	
Misc. machinery, except electrical	359	272.4	272.7	284.5	286.8		206.9	206.7	215.9	218.1	
Carburetors, pistons, rings, and valves	3592	35.3	34.9	35.3	35.4		29.1	28.8	28.4	28.5	
Machinery, except electrical, nec	3599	237.1	237.8	249.2	251.4		177.8	177.9	187.5	189.6	
Electrical and electronic equipment	36	2,092.6	2,086.0	2,123.9	2,127.1	2,126.6	1,217.1	1,213.3	1,248.4	1,250.7	1,250.3
Electric distributing equipment	361	105.3	105.2	107.4	107.4	-	76.8	76.6	77.9	77.4	-
Transformers	3612	50.1	49.9	51.2	51.2		37.4	37.0	37.4	37.2	
Switchgear and switchboard apparatus	3613	55.2	55.3	56.2	56.2		39.4	39.6	40.5	40.2	
Electrical industrial apparatus	362	185.8	184.2	186.9	187.2		127.6	126.3	129.6	130.1	
Motors and generators	3621	90.8	89.6	91.4	91.6		69.2	68.3	70.7	71.1	
Industrial controls	3622	59.2	58.8	59.2	59.0		34.1	33.8	34.4	34.4	
Household appliances	363	135.4	135.5	135.5	134.5		107.1	106.9	108.1	107.7	
Household refrigerators and freezers	3632	28.6	28.5	28.8	28.5		23.3	23.4	23.4	23.1	
Household laundry equipment	3633	23.4	22.8	22.0	22.0		18.3	17.8	17.6	17.7	
Electric housewares and fans	3634	33.1	34.7	36.8	36.9		25.1	26.2	28.6	28.9	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	192.5	191.8	192.6	192.8	-	139.1	138.7	141.0	141.4	
Electric lamps	3641	27.2	27.0	27.2	27.2	-	23.2	23.2	23.3	23.3	
Current-carrying wiring devices	3643	74.1	74.5	74.0	73.8	-	48.3	48.6	49.6	49.8	
Noncurrent-carrying wiring devices	3644	16.7	16.4	16.6	16.6	-	11.8	11.7	12.1	12.1	
Residential lighting fixtures	3645	27.9	27.0	27.5	27.4	-	21.3	20.5	20.5	20.4	
Radio and TV receiving equipment	365	79.4	78.4	77.8	77.6	-	53.4	52.4	52.8	52.7	
Radio and TV receiving sets	3651	60.7	60.6	59.9	59.5	-	40.0	39.8	39.7	39.3	
Communication equipment	366	617.4	614.7	609.5	609.7	-	258.5	257.5	256.7	257.4	
Telephone and telegraph apparatus	3661	118.4	116.8	114.2	114.1	-	68.3	67.4	67.1	67.3	
Radio and TV communication equipment	3662	499.0	497.9	495.3	495.6	-	190.2	190.1	189.6	190.1	
Electronic components and accessories	367	625.1	625.6	662.1	666.1	-	349.7	350.4	374.6	376.9	
Electronic tubes	3671-3	38.7	38.3	38.2	38.2	-	24.1	24.2	24.6	24.4	
Semiconductors and related devices	3674	263.5	263.3	279.2	280.8	-	102.3	101.7	109.3	110.5	
Electronic components, nec	3679	252.4	253.0	269.8	271.8	-	170.4	171.1	184.2	185.5	
Misc. electrical equipment and supplies	369	151.7	150.6	152.1	151.8	-	104.9	104.5	107.7	107.1	
Storage batteries	3691	29.1	29.0	31.9	31.5	-	22.4	22.3	24.5	24.0	
Engine electrical equipment	3694	65.7	65.4	64.9	64.9	-	50.0	49.7	49.8	49.7	
Transportation equipment	37	2,025.8	2,013.2	2,006.7	2,001.2	2,011.8	1,281.9	1,269.7	1,257.4	1,248.0	1,253.9
Motor vehicles and equipment	371	857.2	847.1	819.8	822.9	829.6	668.4	659.1	641.1	643.1	648.8
Motor vehicles and car bodies	3711	385.7	374.9	342.6	343.9	-	291.7	281.6	260.6	260.7	-
Truck and bus bodies	3713	42.0	42.9	45.1	44.6	-	33.1	33.9	35.2	34.9	-
Motor vehicle parts and accessories	3714	384.4	383.7	383.7	384.8	-	308.7	308.3	307.3	308.5	-
Truck trailers	3715	28.8	29.1	31.3	31.9	-	22.1	22.3	24.7	25.1	-
Aircraft and parts	372	689.3	687.4	694.4	685.5	-	345.9	343.7	343.2	331.9	-
Aircraft	3721	349.9	349.4	370.4	369.4	-	157.4	156.6	166.1	164.4	-
Aircraft engines and engine parts	3724	156.2	155.9	152.2	144.7	-	80.2	80.1	77.3	68.2	-
Aircraft equipment, nec	3728	183.2	182.1	171.8	171.4	-	108.3	107.0	99.8	99.3	-
Ship and boat building and repairing	373	186.2	185.2	193.4	193.5	-	139.2	137.9	148.6	147.6	-
Ship building and repairing	3731	128.2	125.3	130.6	129.8	-	92.2	89.2	97.4	95.9	-
Boat building and repairing	3732	58.0	59.9	62.8	63.7	-	47.0	48.7	51.2	51.7	-
Railroad equipment	374	23.3	22.2	23.1	23.5	-	15.5	14.6	16.4	16.8	-
Guided missiles, space vehicles, and parts	376	206.4	207.1	213.9	213.5	-	69.9	70.2	65.9	66.3	-
Guided missiles and space vehicles	3761	156.1	156.4	160.6	160.1	-	50.2	50.9	47.9	48.2	-
Miscellaneous transportation equipment	379	51.3	51.9	49.6	49.6	-	34.7	35.7	33.1	33.1	-
Travel trailers and campers	3792	20.5	21.1	20.3	20.4	-	16.0	16.7	15.7	15.8	-
Instruments and related products	38	694.3	693.1	702.7	702.9	703.5	377.2	376.3	386.6	387.6	387.2
Engineering and scientific instruments	381	83.1	83.0	84.2	84.2	-	37.3	37.4	38.6	38.6	-
Measuring and controlling devices	382	239.5	238.2	235.5	235.5	-	134.1	132.9	133.2	134.0	-
Environmental controls	3822	41.2	40.8	41.3	41.3	-	26.0	25.8	26.4	26.6	-
Process control instruments	3823	52.0	51.7	51.1	51.0	-	26.9	26.7	27.7	27.7	-
Instruments to measure electricity	3825	101.3	100.8	98.8	99.1	-	51.1	50.6	48.9	49.7	-
Optical instruments and lenses	383	32.3	32.2	32.3	32.3	-	15.7	15.7	15.8	15.7	-
Medical instruments and supplies	384	179.1	179.4	186.7	187.8	-	107.4	107.4	113.6	114.7	-
Surgical and medical instruments	3841	85.6	86.1	87.9	88.3	-	49.3	49.3	50.8	51.3	-
Surgical appliances and supplies	3842	79.4	79.3	84.0	84.6	-	50.2	50.2	54.4	55.0	-
Ophthalmic goods	385	40.9	41.3	44.3	44.4	-	27.5	28.0	30.4	30.5	-
Photographic equipment and supplies	386	108.0	107.8	108.6	107.8	-	47.1	46.9	46.8	46.1	-
Watches, clocks, and watchcases	387	11.4	11.2	11.1	10.9	-	8.1	8.0	8.2	8.0	-
Miscellaneous manufacturing	39	363.8	364.0	372.7	376.7	379.4	264.6	265.3	270.3	273.3	277.2
Jewelry, silverware, and plated ware	391	53.0	53.4	54.0	54.3	-	36.7	37.1	37.4	37.6	-
Jewelry, precious metal	3911	36.9	37.1	37.2	37.4	-	25.3	25.5	25.6	25.7	-
Musical instruments	393	12.5	12.5	13.0	12.7	-	10.2	10.2	10.8	10.6	-
Toys and sporting goods	394	96.7	96.5	105.2	108.2	-	72.0	72.1	79.0	81.2	-
Dolls, games, toys, and children's vehicles	3942,4	44.2	43.9	49.4	50.9	-	31.6	31.4	35.8	37.0	-
Sporting and athletic goods, nec	3949	52.5	52.6	55.8	57.3	-	40.4	40.7	43.2	44.2	-
Pens, pencils, office, and art supplies	395	33.1	33.1	34.2	34.3	-	22.6	22.9	23.8	24.0	-
Costume jewelry and notions	396	42.1	42.4	39.9	39.8	-	33.0	33.2	29.9	29.8	-
Costume jewelry	3961	25.5	25.2	22.4	22.2	-	20.1	19.8	17.0	16.8	-
Miscellaneous manufactures	399	126.4	126.1	126.4	127.4	-	90.1	89.8	89.4	90.1	-
Signs and advertising displays	3993	55.0	54.9	55.9	55.7	-	38.4	38.2	38.7	38.2	-

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Nondurable goods		7,752	7,771	7,932	7,943	7,950	5,464	5,478	5,600	5,607	5,611
Food and kindred products	20	1,576.2	1,579.3	1,603.5	1,599.0	1,594.6	1,098.7	1,100.5	1,122.1	1,116.7	1,113.8
Meat products	201	373.5	374.7	388.0	387.6	-	315.9	317.2	329.5	329.0	-
Meat packing plants	2011	136.0	136.4	142.1	141.4	-	113.3	114.0	119.4	118.7	-
Sausages and other prepared meats	2013	74.7	74.9	74.9	74.7	-	54.9	55.0	55.0	54.9	-
Poultry dressing plants	2016	144.2	144.9	152.0	152.7	-	130.6	131.2	137.8	138.4	-
Dairy products	202	162.2	164.1	164.2	165.7	-	98.2	99.0	97.7	99.3	-
Cheese, natural and processed	2022	38.2	38.8	39.5	40.0	-	29.8	29.5	30.2	30.8	-
Fluid milk	2026	85.1	85.4	85.6	86.2	-	42.8	43.0	42.1	42.7	-
Preserved fruits and vegetables	203	214.8	213.7	213.1	211.1	-	172.1	171.1	169.5	167.1	-
Canned specialties	2032	24.8	24.1	25.0	24.9	-	17.5	16.7	17.2	17.1	-
Canned fruits and vegetables	2033	66.5	66.3	66.6	65.7	-	52.7	52.7	52.6	51.4	-
Frozen fruits and vegetables	2037	42.3	41.9	37.9	37.1	-	36.6	36.3	32.4	31.4	-
Grain mill products	204	118.6	118.8	123.5	123.1	-	81.0	80.7	85.4	84.7	-
Flour and other grain mill products	2041	21.7	22.2	23.4	23.6	-	14.4	14.6	16.1	16.3	-
Prepared feeds, nec	2048	41.8	41.8	42.8	42.7	-	26.6	26.3	27.1	26.9	-
Bakery products	205	208.5	209.1	210.1	210.0	-	125.3	125.7	127.0	126.6	-
Bread, cake, and related products	2051	164.0	164.7	164.1	164.3	-	89.1	89.8	91.2	91.0	-
Cookies and crackers	2052	44.5	44.4	46.0	45.7	-	36.2	35.9	35.8	35.6	-
Sugar and confectionery products	206	92.5	90.1	97.5	94.9	-	71.2	68.4	76.6	73.4	-
Cane and beet sugar	2061-3	22.1	21.3	24.7	23.4	-	16.6	15.5	19.3	17.6	-
Confectionery products	2065	51.5	49.8	53.4	52.7	-	42.0	40.3	44.2	43.3	-
Fats and oils	207	32.9	32.3	33.3	33.3	-	24.1	23.7	24.8	24.7	-
Beverages	208	208.3	208.6	203.2	202.6	-	89.0	89.7	85.2	85.4	-
Malt beverages	2082	40.0	40.2	38.5	38.7	-	25.0	25.2	24.7	24.4	-
Bottled and canned soft drinks	2086	123.4	124.1	122.0	121.5	-	40.0	40.5	39.5	39.8	-
Misc. food and kindred products	209	164.9	167.9	170.6	170.7	-	121.9	125.0	126.4	126.5	-
Tobacco manufactures	21	55.5	53.1	55.9	53.5	51.2	41.6	39.7	41.9	39.4	36.8
Cigarettes	211	40.5	40.0	39.1	39.5	-	30.2	30.1	28.9	29.1	-
Textile mill products	22	722.1	724.3	734.2	732.6	730.9	627.2	628.7	638.3	637.1	634.2
Weaving mills, cotton	221	105.2	105.9	109.8	109.6	-	94.9	95.5	99.2	99.2	-
Weaving mills, synthetics	222	86.1	86.4	90.7	90.6	-	76.7	76.9	80.7	80.7	-
Weaving and finishing mills, wool	223	17.9	17.9	19.2	19.3	-	14.8	14.6	15.7	15.8	-
Narrow fabric mills	224	22.7	22.8	24.2	24.4	-	19.7	19.8	21.0	21.2	-
Knitting mills	225	208.9	209.7	204.2	203.4	-	183.1	184.1	180.5	179.7	-
Women's hosiery, except socks	2251	35.3	35.2	34.0	34.1	-	31.5	31.5	30.5	30.7	-
Hosiery, nec	2252	36.4	36.4	36.7	36.9	-	32.7	32.7	33.0	33.1	-
Knit outerwear mills	2253	71.8	72.0	67.5	66.7	-	63.7	63.9	60.5	59.6	-
Knit underwear mills	2254	23.2	23.2	23.0	23.1	-	19.6	19.6	19.6	19.6	-
Circular knit fabric mills	2257	24.7	25.1	25.8	25.3	-	21.5	22.0	22.5	22.2	-
Textile finishing, except wool	226	60.3	60.4	60.2	59.8	-	50.7	50.6	50.1	49.7	-
Finishing plants, cotton	2261	23.6	23.5	23.7	23.9	-	20.1	19.9	19.7	19.8	-
Finishing plants, synthetics	2262	22.5	22.6	22.0	21.9	-	18.3	18.3	17.8	17.8	-
Floor covering mills	227	57.9	58.1	59.9	59.6	-	47.1	47.2	48.6	48.3	-
Yarn and thread mills	228	108.1	108.1	109.6	109.4	-	97.2	96.7	98.4	98.3	-
Yarn mills, except wool	2281	78.7	78.8	81.1	80.8	-	71.4	71.3	73.6	73.4	-
Throwing and winding mills	2282	16.2	16.1	15.3	15.3	-	14.5	14.3	13.5	13.5	-
Miscellaneous textile goods	229	55.0	55.0	56.4	56.5	-	43.0	43.3	44.1	44.2	-
Apparel and other textile products	23	1,105.2	1,107.4	1,116.4	1,117.2	1,116.1	928.3	931.4	939.0	940.2	940.5
Men's and boys' suits and coats	231	57.4	56.7	57.9	57.9	-	49.2	48.5	50.1	50.2	-
Men's and boys' furnishings	232	307.6	311.2	320.4	320.4	-	266.0	269.1	277.1	276.8	-
Men's and boys' shirts and nightwear	2321	85.3	86.4	85.4	85.2	-	73.1	74.1	73.1	72.9	-
Men's and boys' separate trousers	2327	54.2	54.3	55.3	55.3	-	47.5	47.5	48.2	48.1	-
Men's and boys' work clothing	2328	92.0	94.3	98.5	97.6	-	80.8	82.8	86.5	86.0	-
Women's and misses' outerwear	233	361.4	358.9	353.9	356.9	-	301.1	299.6	294.5	298.1	-
Women's and misses' blouses and waists	2331	51.0	50.2	48.9	48.5	-	42.4	41.8	40.6	40.1	-
Women's and misses' dresses	2335	88.4	87.5	83.7	84.1	-	74.1	73.6	68.7	69.3	-
Women's and misses' suits and coats	2337	40.7	40.6	41.8	43.1	-	32.8	32.8	33.7	35.1	-
Women's and misses' outerwear, nec	2339	181.3	180.6	179.5	181.2	-	151.8	151.4	151.5	153.6	-

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	71.6	73.9	71.9	71.9	-	59.0	60.9	59.4	59.1	
Women's and children's underwear	2341	57.7	60.0	58.7	58.3		48.9	50.9	50.3	49.9	
Brassieres and allied garments	2342	13.9	13.9	13.2	13.6		10.1	10.0	9.1	9.2	
Children's outerwear	236	56.8	55.5	57.5	55.5		47.6	46.4	48.2	46.4	
Children's dresses and blouses	2361	23.6	23.1	23.9	22.8	-	20.6	20.2	20.9	19.7	
Misc. apparel and accessories	238	41.7	41.9	41.1	41.2		34.9	35.4	34.1	34.2	
Misc. fabricated textile products	239	190.4	190.4	195.4	194.7		156.1	156.6	161.1	160.7	
Curtains and draperies	2391	26.6	26.8	26.8	26.8	-	21.4	21.8	22.0	22.1	
House furnishings, nec	2392	50.9	51.6	54.3	53.8	-	43.0	43.6	46.2	45.9	
Automotive and apparel trimmings	2396	40.2	39.8	38.8	39.0		33.8	33.5	31.9	31.9	
Paper and allied products	26	675.0	673.5	677.8	678.1	677.9	512.6	511.3	514.7	514.6	514.5
Paper and pulp mills	261,2,6	193.4	192.5	192.5	192.6	-	147.1	146.3	146.1	146.3	-
Paper mills, except building paper	262	169.3	168.2	168.6	168.7		128.2	127.4	127.3	127.4	
Paperboard mills	263	52.9	52.6	52.8	52.7		39.7	39.4	40.2	40.1	
Misc. converted paper products	264	231.3	231.7	232.5	232.5		172.4	172.7	172.2	172.0	
Paper coating and glazing	2641	58.0	57.8	58.0	57.9		37.2	37.0	37.1	36.6	
Envelopes	2642	27.0	26.9	27.4	27.5		21.2	21.0	21.3	21.4	
Bags, except textile bags	2643	52.3	52.3	53.5	53.8		41.4	41.4	42.0	42.3	
Paperboard containers and boxes	265	197.4	196.7	200.0	200.3		153.4	152.9	156.2	156.2	
Folding paperboard boxes	2651	42.6	42.7	42.9	43.0		33.7	33.8	34.5	34.6	
Corrugated and solid fiber boxes	2653	104.8	103.5	106.1	106.2		79.6	78.3	80.3	80.2	
Sanitary food containers	2654	23.0	23.4	23.9	24.1		19.7	20.2	20.4	20.5	
Printing and publishing	27	1,486.5	1,494.2	1,536.4	1,542.8	1,550.7	832.3	836.5	864.0	868.7	875.3
Newspapers	271	457.0	457.5	466.9	466.3	-	168.3	168.3	170.7	170.3	-
Periodicals	272	120.0	119.7	127.6	127.9		42.9	43.3	46.4	46.5	
Books	273	114.2	115.9	115.0	116.5		62.5	62.5	61.9	62.9	
Book publishing	2731	84.8	86.2	85.1	86.4	-	39.3	39.3	38.2	39.0	
Book printing	2732	29.4	29.7	29.9	30.1		23.2	23.2	23.7	23.9	
Miscellaneous publishing	274	75.9	77.1	81.2	81.6		41.1	41.8	42.3	42.5	
Commercial printing	275	522.9	527.7	544.9	548.0	-	377.5	380.6	398.2	400.6	
Commercial printing, letterpress	2751	165.5	167.1	173.4	174.5	-	119.7	120.3	124.0	125.0	
Commercial printing, lithographic	2752	329.3	332.2	342.3	343.5		235.3	237.7	250.9	251.5	
Manifold business forms	276	49.0	48.6	49.6	49.7		34.3	33.9	34.5	34.5	
Blankbooks and bookbinding	278	73.1	73.7	75.7	76.8		58.8	59.3	60.0	61.0	
Printing trade services	279	52.6	52.8	54.9	55.2		39.3	39.2	40.5	40.7	
Chemicals and allied products	28	1,015.5	1,016.4	1,045.3	1,052.1	1,056.7	569.6	569.0	586.9	594.0	595.0
Industrial inorganic chemicals	281	132.6	132.6	135.5	136.2	-	68.2	68.0	67.5	68.1	-
Industrial inorganic chemicals, nec	2819	88.2	87.7	90.4	91.1		49.4	48.9	48.2	48.7	
Plastics materials and synthetics	282	164.7	164.9	168.2	168.5	-	110.1	109.8	110.2	110.5	
Plastics materials and resins	2821	75.1	75.1	77.8	78.2		44.7	44.5	45.4	45.7	
Organic fibers, noncellulosic	2824	60.9	61.0	60.5	60.5		44.0	43.9	42.4	42.5	
Drugs	283	208.7	209.7	219.2	220.4		96.8	96.6	101.1	101.6	
Pharmaceutical preparations	2834	166.8	167.6	175.6	176.7		76.3	76.2	79.9	80.3	
Soap, cleaners, and toilet goods	284	148.9	147.3	156.6	158.5		94.1	92.7	99.2	101.6	
Soap and other detergents	2841	41.8	41.2	42.4	42.3		26.3	26.0	26.4	26.4	
Polishing, sanitation, and finishing preparations	2842,3	39.8	40.1	41.8	42.4		21.3	21.7	23.5	24.3	
Toilet preparations	2844	67.3	66.0	72.4	73.8		46.5	45.0	49.3	50.9	
Paints and allied products	285	62.5	62.7	61.9	62.0		30.5	30.6	30.0	30.3	
Industrial organic chemicals	286	151.4	151.5	155.1	155.4		83.4	83.9	89.5	90.1	
Cyclic crudes and intermediates	2865	28.9	29.1	30.4	30.5		19.2	19.2	19.3	19.3	
Gum, wood, and industrial organic chemicals, nec	2861,9	122.5	122.4	124.7	124.9		64.2	64.7	70.2	70.8	
Agricultural chemicals	287	54.9	55.5	54.7	56.6		34.9	35.5	35.6	37.6	
Miscellaneous chemical products	289	91.8	92.2	94.1	94.5		51.6	51.9	53.8	54.2	
Petroleum and coal products	29	162.0	163.4	161.7	162.3	164.0	104.0	106.0	104.5	105.1	106.9
Petroleum refining	291	124.7	124.6	125.0	124.7	-	78.2	78.5	79.7	79.5	-
Paving and roofing materials	295	25.9	27.5	25.0	25.8		19.3	21.0	18.3	19.0	

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers ¹				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	807.6	811.1	848.6	852.9	856.6	628.0	630.7	661.3	665.4	668.4
Tires and inner tubes	301	86.5	86.0	86.1	86.3	-	63.0	62.4	61.4	62.0	-
Rubber and plastics footwear	302	10.3	10.4	11.7	11.6	-	8.4	8.5	9.6	9.7	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	21.8	21.9	22.6	22.6	-	15.8	15.8	16.6	16.6	-
Fabricated rubber products, nec	306	103.9	104.0	107.6	108.5	-	80.0	79.8	83.2	83.8	-
Miscellaneous plastics products	307	585.1	586.8	620.6	623.9	-	460.8	464.2	490.5	493.3	-
Leather and leather products	31	146.4	148.0	152.6	152.3	151.7	121.7	123.9	126.8	125.9	125.8
Leather tanning and finishing	311	13.8	14.1	13.3	13.2	-	11.4	11.6	11.0	10.9	-
Footwear, except rubber	314	84.8	86.0	91.6	91.0	-	72.6	74.1	78.3	77.4	-
Men's footwear, except athletic	3143	37.5	37.7	41.9	41.9	-	30.1	30.5	34.2	33.8	-
Women's footwear, except athletic	3144	31.0	31.5	31.7	31.1	-	27.2	27.8	28.0	27.5	-
Luggage	316	10.6	11.1	11.8	11.8	-	7.6	7.9	8.5	8.4	-
Handbags and personal leather goods	317	18.9	18.3	17.9	18.2	-	15.2	15.1	14.3	14.5	-
Transportation and public utilities		5,275	5,314	5,441	5,473	5,510	4,366	4,397	4,508	4,537	4,572
Transportation		3,065	3,099	3,206	3,233	3,262	-	-	-	-	-
Railroad transportation	40	300.5	308.5	289.3	292.9	-	-	-	-	-	-
Class 1 railroads ²	4011	265.7	273.0	253.0	255.8	-	-	-	-	-	-
Local and interurban passenger transit	41	291.0	288.7	292.5	295.2	-	269.7	267.3	270.0	272.0	-
Local and suburban transportation	411	99.8	99.9	102.0	102.9	-	91.2	91.2	93.1	93.6	-
Taxicabs	412	35.9	34.9	34.0	34.0	-	-	-	-	-	-
Intercity highway transportation	413	30.9	31.0	31.5	31.2	-	27.9	28.1	28.5	28.1	-
School buses	415	100.8	99.1	98.7	100.2	-	-	-	-	-	-
Trucking and warehousing	42	1,399.3	1,416.2	1,507.0	1,518.5	-	1,213.5	1,229.3	1,310.1	1,320.9	-
Trucking and trucking terminals	421,3	1,298.4	1,315.3	1,395.2	1,406.6	-	1,129.0	1,145.1	1,216.2	1,227.3	-
Public warehousing	422	100.9	100.9	111.8	111.9	-	84.5	84.2	93.9	93.6	-
Water transportation	44	164.7	171.7	171.5	170.6	-	-	-	-	-	-
Local water transportation	445	24.7	26.1	25.2	25.5	-	-	-	-	-	-
Water transportation services	446	90.1	94.3	93.0	91.0	-	-	-	-	-	-
Transportation by air	45	595.9	597.4	614.3	621.1	-	-	-	-	-	-
Air transportation	451,2	527.7	529.0	540.7	546.2	-	-	-	-	-	-
Air transportation services	458	68.2	68.4	73.6	74.9	-	-	-	-	-	-
Pipe lines, except natural gas	46	17.6	17.5	15.8	15.8	-	12.7	12.7	10.8	10.8	-
Transportation services	47	295.8	298.6	315.6	319.3	-	-	-	-	-	-
Freight forwarding	471	69.4	69.8	77.2	77.5	-	-	-	-	-	-
Communication and public utilities		2,210	2,215	2,235	2,240	2,248	-	-	-	-	-
Communication	48	1,285.3	1,289.9	1,307.2	1,310.0	-	977.8	978.7	994.1	995.4	-
Telephone communication	481	885.5	889.3	888.3	888.2	-	655.6	656.7	657.7	656.2	-
Radio and television broadcasting	483	236.4	236.2	241.1	242.2	-	193.9	193.6	197.9	198.9	-
Radio broadcasting	4832	112.8	113.3	113.0	113.6	-	-	-	-	-	-
Television broadcasting	4833	123.6	122.9	128.1	128.6	-	-	-	-	-	-
Electric, gas, and sanitary services	49	924.7	925.4	927.4	930.0	-	732.7	733.3	729.4	732.9	-
Electric services	491	453.6	452.8	451.6	452.8	-	347.2	346.4	343.3	345.3	-
Gas production and distribution	492	165.1	165.2	165.1	165.0	-	130.8	130.9	130.0	129.7	-
Combination utility services	493	203.9	203.7	199.6	199.0	-	168.0	167.7	162.4	162.1	-
Sanitary services	495	74.8	76.0	82.5	83.9	-	64.8	66.0	71.2	72.5	-
Wholesale trade		5,725	5,748	5,855	5,888	5,921	4,575	4,594	4,680	4,713	4,743
Durable goods	50	3,380	3,390	3,474	3,495	3,510	2,672	2,680	2,747	2,768	-
Motor vehicles and automotive equipment	501	431.1	432.1	434.7	437.3	-	345.8	346.0	348.4	350.7	-
Automobiles and other motor vehicles	5012	111.0	111.2	113.5	114.8	-	-	-	-	-	-
Automotive parts and supplies	5013	289.3	289.7	290.3	292.1	-	-	-	-	-	-

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	135.7	136.3	140.1	139.4	-	109.1	109.1	112.7	112.1	-
Furniture	5021	60.0	59.8	61.8	61.9	-	-	-	-	-	-
Home furnishings	5023	75.7	76.5	78.3	77.5	-	-	-	-	-	-
Lumber and construction materials	503	224.3	225.0	221.9	223.0	-	184.0	185.0	181.1	182.1	-
Lumber, plywood, and millwork	5031	102.3	102.2	102.4	103.3	-	-	-	-	-	-
Construction materials, nec	5039	122.0	122.8	119.5	119.7	-	-	-	-	-	-
Sporting goods, toys, and hobby goods	504	79.2	79.3	81.6	82.9	-	65.2	65.4	67.0	68.5	-
Metals and minerals, except petroleum	505	131.4	131.8	139.6	139.8	-	102.8	103.0	109.7	110.4	-
Electrical goods	506	488.3	488.9	501.4	503.4	-	371.7	372.6	382.4	385.3	-
Electrical apparatus and equipment	5063	268.7	268.2	279.8	280.8	-	-	-	-	-	-
Electrical appliances, TV and radios	5064	72.8	73.5	71.9	72.5	-	-	-	-	-	-
Electronic parts and equipment	5065	146.8	147.2	149.7	150.1	-	-	-	-	-	-
Hardware, plumbing, and heating equipment	507	259.9	260.3	264.1	264.5	-	208.6	209.4	212.5	212.4	-
Hardware	5072	90.1	90.3	91.5	91.6	-	-	-	-	-	-
Plumbing and hydronic heating supplies	5074	108.2	108.2	109.9	109.8	-	-	-	-	-	-
Machinery, equipment, and supplies	508	1,438.7	1,443.8	1,487.8	1,499.3	-	1,132.7	1,136.3	1,170.6	1,181.4	-
Commercial machines and equipment	5081	532.5	533.0	554.1	556.4	-	-	-	-	-	-
Construction and mining machinery	5082	80.1	80.7	83.4	83.8	-	-	-	-	-	-
Farm machinery and equipment	5083	116.7	119.5	119.9	122.8	-	-	-	-	-	-
Industrial machinery and equipment	5084	294.1	294.8	302.3	304.3	-	-	-	-	-	-
Industrial supplies	5085	128.9	129.0	132.8	133.9	-	-	-	-	-	-
Professional equipment and supplies	5086	174.2	174.1	181.0	182.5	-	-	-	-	-	-
Miscellaneous durable goods	509	191.7	192.0	202.6	205.3	-	152.3	153.3	162.6	165.1	-
Scrap and waste materials	5093	87.5	87.4	94.3	96.0	-	-	-	-	-	-
Nondurable goods	51	2,345	2,358	2,381	2,393	2,411	1,903	1,914	1,933	1,945	-
Paper and paper products	511	191.4	191.8	195.2	194.5	-	155.8	156.1	157.1	156.9	-
Drugs, proprietaries, and sundries	512	172.9	173.4	182.9	184.5	-	143.1	144.2	152.7	154.7	-
Apparel, piece goods, and notions	513	191.9	192.1	192.1	192.3	-	143.8	144.1	145.7	145.3	-
Groceries and related products	514	753.3	753.9	759.3	759.3	-	636.6	635.9	640.9	640.0	-
Groceries, general line	5141	246.9	247.1	251.0	251.9	-	-	-	-	-	-
Meats and meat products	5147	63.6	64.0	63.2	63.1	-	-	-	-	-	-
Fresh fruits and vegetables	5148	86.4	86.1	81.7	82.2	-	-	-	-	-	-
Chemicals and allied products	516	130.9	131.7	134.4	135.5	-	95.4	96.1	100.1	101.1	-
Petroleum and petroleum products	517	192.8	193.5	197.4	198.1	-	149.8	150.6	154.2	155.1	-
Petroleum bulk stations and terminals	5171	77.9	78.1	80.8	81.4	-	-	-	-	-	-
Petroleum products, nec	5172	114.9	115.4	116.6	116.7	-	-	-	-	-	-
Beer, wine, and distilled beverages	518	150.4	152.0	152.7	152.9	-	123.6	125.3	125.4	125.3	-
Beer and ale	5181	94.4	95.7	95.4	95.7	-	-	-	-	-	-
Wines and distilled beverages	5182	56.0	56.3	57.3	57.2	-	-	-	-	-	-
Miscellaneous nondurable goods	519	434.9	442.5	442.0	451.1	-	352.0	358.9	355.8	365.9	-
Farm supplies	5191	143.6	150.5	144.1	150.8	-	-	-	-	-	-
Retail trade		17,737	17,997	18,201	18,276	18,497	15,745	15,995	16,115	16,163	16,359
Building materials and garden supplies	52	695.2	721.7	697.1	717.0	-	574.6	599.6	572.5	590.4	-
Lumber and other building materials	521	375.4	384.1	380.4	386.4	-	316.2	324.7	318.1	323.6	-
Hardware stores	525	155.8	158.6	161.5	163.9	-	129.4	131.6	133.3	135.3	-
General merchandise stores	53	2,278.5	2,297.2	2,433.2	2,380.2	2,383.0	2,139.0	2,156.0	2,264.5	2,206.2	-
Department stores	531	1,902.9	1,916.5	2,039.4	1,992.5	-	1,804.7	1,816.3	1,913.9	1,861.2	-
Variety stores	533	237.1	241.0	246.2	242.7	-	214.9	219.0	222.7	219.9	-
Misc. general merchandise stores	539	138.5	139.7	147.6	145.0	-	119.4	120.7	127.9	125.1	-
Food stores	54	2,906.0	2,920.7	3,004.5	3,005.2	3,003.8	2,678.9	2,689.5	2,762.0	2,760.3	-
Grocery stores	541	2,554.9	2,560.7	2,651.1	2,652.2	-	2,365.2	2,368.3	2,448.4	2,447.8	-
Meat markets and freezer provisioners	542	58.7	59.7	58.9	59.4	-	-	-	-	-	-
Dairy products stores	545	34.5	34.8	31.7	31.7	-	-	-	-	-	-
Retail bakeries	546	161.3	164.2	164.4	165.5	-	147.1	149.4	149.3	150.5	-
Automotive dealers and service stations	55	1,958.8	1,970.3	2,012.1	2,032.5	2,041.9	1,641.5	1,651.7	1,681.8	1,698.4	-
New and used car dealers	551,2	959.2	960.8	1,000.2	1,012.5	-	797.5	798.5	828.9	838.6	-
Auto and home supply stores	553	305.4	309.4	309.2	311.1	-	245.6	249.7	249.2	250.9	-
Gasoline service stations	554	601.1	603.2	613.9	615.9	-	524.0	525.7	533.8	535.1	-

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Retail trade—Continued											
Apparel and accessory stores	56	1,081.1	1,092.0	1,064.0	1,057.4		912.3	921.9	897.1	890.0	
Men's and boys' clothing and furnishings	561	106.4	106.6	102.3	101.5		87.0	86.6	83.5	82.7	
Women's ready-to-wear stores	562	386.8	388.7	379.8	379.1		329.3	330.3	318.9	317.5	
Family clothing stores	565	238.6	240.4	234.8	232.3		205.1	207.4	204.0	201.5	
Shoe stores	566	204.5	213.6	209.9	212.0		165.1	173.9	173.7	175.8	
Furniture and home furnishings stores	57	785.0	784.1	828.7	825.6		650.5	649.5	682.7	679.5	
Furniture and home furnishings stores	571	441.8	444.2	463.8	465.1		362.9	364.9	380.0	381.6	
Furniture stores	5712	279.8	280.2	293.2	292.9		-	-	-	-	
Household appliance stores	572	87.5	82.9	88.4	87.4		74.7	70.7	76.1	75.0	
Radio, television, and music stores	573	255.7	257.0	276.5	273.1		212.9	213.9	226.6	222.9	
Radio and television stores	5732	190.2	189.7	206.0	203.0		-	-	-	-	
Music stores	5733	65.5	67.3	70.5	70.1	-	-	-	-	-	
Eating and drinking places	58	5,789.3	5,956.5	5,823.1	5,942.4	6,122.4	5,263.0	5,430.6	5,288.6	5,399.2	
Miscellaneous retail	59	2,243.1	2,254.8	2,338.4	2,315.2		1,885.1	1,895.8	1,966.2	1,939.4	
Drug stores and proprietary stores	591	582.5	580.3	610.4	610.3		493.7	492.5	519.4	518.1	
Liquor stores	592	124.3	125.1	121.2	120.8		-	-	-	-	
Miscellaneous shopping goods stores	594	729.6	732.9	767.0	755.7		609.7	614.4	641.1	628.7	
Sporting goods and bicycle shops	5941	127.4	126.0	134.9	132.1		-	-	-	-	
Book stores	5942	78.5	77.9	81.2	78.0		-	-	-	-	
Stationery stores	5943	76.3	75.9	77.7	77.8		-	-	-	-	
Jewelry stores	5944	141.0	142.3	149.5	146.4		-	-	-	-	
Gift, novelty, and souvenir shops	5947	134.1	137.9	139.1	138.3		-	-	-	-	
Sewing, needlework, and piece goods	5949	63.5	63.6	65.0	64.5		-	-	-	-	
Nonstore retailers	596	254.9	254.1	258.6	258.4		229.5	228.7	231.2	230.8	
Mail order houses	5961	118.6	118.8	120.1	120.0		-	-	-	-	
Merchandising machine operators	5962	80.3	81.0	83.9	83.6		-	-	-	-	
Fuel and ice dealers	598	115.1	113.0	119.0	117.8		95.8	93.5	99.5	98.4	
Retail stores, nec	599	355.4	366.9	372.9	362.4		289.1	299.0	304.6	292.7	
Finance, insurance, and real estate³		6,478	6,530	6,625	6,651	6,689	4,775	4,811	4,817	4,828	4,861
Finance		3,246	3,259	3,287	3,287	3,288					
Banking	60	1,731.3	1,733.5	1,728.6	1,729.8		1,248.4	1,248.8	1,235.3	1,234.6	
Commercial and stock savings banks	602	1,555.3	1,556.6	1,552.8	1,553.0		1,116.6	1,116.6	1,106.2	1,105.0	
State banks, Federal Reserve	6022	341.7	342.9	346.9	346.6		-	-	-	-	
State banks, not Federal Reserve	6023,4	373.1	373.6	375.8	376.4		-	-	-	-	
Mutual savings banks	603	86.2	86.4	86.5	86.8		-	-	-	-	
Credit agencies other than banks	61	883.5	889.4	895.9	894.9		662.6	667.1	664.0	662.1	
Savings and loan associations	612	395.5	396.9	402.2	400.5		301.4	302.8	304.8	302.9	
Federal savings and loan associations	6122	219.2	220.0	223.8	224.2		-	-	-	-	
State associations, insured	6123	168.1	168.5	170.6	168.6		-	-	-	-	
Personal credit institutions	614	232.3	233.1	241.2	242.8		178.8	179.8	184.7	185.8	
Business credit institutions	615	52.6	53.5	59.9	60.6		-	-	-	-	
Mortgage bankers and brokers	616	177.7	180.7	169.3	167.8		-	-	-	-	
Security, commodity brokers, and services	62	425.3	428.8	449.2	447.5						
Security brokers and dealers	621	339.4	342.0	356.7	355.2						
Holding and other investment offices	67	206.2	207.5	213.1	214.6						
Insurance		2,020	2,028	2,089	2,097	2,105	-				
Insurance carriers	63	1,401.6	1,405.2	1,430.8	1,432.7		952.8	953.3	954.3	955.5	
Life insurance	631	581.2	581.7	596.5	596.7		363.0	361.6	357.8	359.1	
Medical service and health insurance	632	193.2	193.3	199.6	200.0		156.0	155.9	161.6	162.0	
Fire, marine, and casualty insurance	633	524.1	526.9	540.4	541.8		353.9	355.8	364.1	363.7	-
Title insurance	636	61.5	61.4	52.3	52.3		-	-	-	-	
Insurance agents, brokers, and service	64	618.8	623.0	658.6	664.3						

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,212	1,243	1,249	1,267	1,296	-	-	-	-	-
Real estate	65	1,199.4	1,230.6	1,236.6	1,254.6	-	-	-	-	-	
Real estate operators and lessors	651	509.4	520.0	502.0	510.8	-	-	-	-	-	
Real estate agents and managers	653	504.9	512.3	539.7	542.6	-	-	-	-	-	
Subdividers and developers	655	150.7	162.7	160.1	166.2	-	-	-	-	-	
Combined real estate, insurance, etc	66	12.2	12.6	12.2	12.1	-	-	-	-	-	
Services		23,723	23,950	24,603	24,865	25,069	20,767	20,986	21,505	21,743	21,922
Hotels and other lodging places	70	1,372.3	1,406.5	1,422.1	1,443.7	-	-	-	-	-	
Hotels, motels, and tourist courts	701	1,339.9	1,372.1	1,391.1	1,411.5	-	1,191.3	1,222.1	1,237.4	1,258.1	
Personal services	72	1,160.0	1,167.7	1,251.3	1,268.6	-	-	-	-	-	
Laundry, cleaning, and garment services	721	395.3	401.8	411.8	415.5	-	352.3	357.0	364.9	368.6	
Photographic studios, portrait	722	58.8	57.6	61.3	62.7	-	-	-	-	-	
Beauty shops	723	350.9	351.6	353.3	353.8	-	316.1	317.8	316.2	316.7	
Funeral service and crematories	726	78.4	78.8	78.8	79.0	-	-	-	-	-	
Business services	73	4,963.9	4,998.4	5,208.7	5,265.3	5,292.2	4,247.5	4,281.4	4,458.1	4,511.4	
Advertising	731	200.6	199.6	199.8	200.4	-	148.5	147.6	149.4	150.6	
Advertising agencies	7311	148.5	146.7	148.3	148.6	-	-	-	-	-	
Credit reporting and collection	732	103.5	105.1	100.5	100.9	-	-	-	-	-	
Mailing, reproduction, and stenographic	733	202.2	204.5	221.2	223.3	-	-	-	-	-	
Services to buildings	734	680.6	686.2	678.8	679.4	-	614.4	621.9	616.6	617.5	
Personnel supply services	736	1,110.4	1,130.9	1,235.9	1,274.5	-	-	-	-	-	
Employment agencies	7361	176.5	178.5	198.3	200.4	-	-	-	-	-	
Temporary help supply services	7362	879.6	896.7	970.9	1,007.4	-	-	-	-	-	
Computer and data processing services	737	622.2	626.0	686.1	692.6	-	489.6	492.6	536.3	540.9	
Computer programming and software	7372	228.6	231.1	257.4	260.6	-	-	-	-	-	
Data processing services	7374	295.2	295.0	319.4	322.1	-	-	-	-	-	
Miscellaneous business services	739	2,035.4	2,037.1	2,077.3	2,085.0	-	-	-	-	-	
Research development laboratories, nec	7391	196.2	196.8	200.8	200.9	-	-	-	-	-	
Management and public relations	7392	568.1	566.2	577.7	583.9	-	-	-	-	-	
Detective and protective services	7393	449.7	450.8	448.1	452.3	-	-	-	-	-	
Equipment rental and leasing	7394	210.1	211.9	219.8	221.0	-	-	-	-	-	
Photofinishing laboratories	7395	76.6	76.8	76.4	75.5	-	-	-	-	-	
Auto repair, services, and garages	75	783.6	779.9	810.8	821.5	-	653.1	650.2	673.8	681.8	
Automotive rentals, without drivers	751	171.7	169.7	173.3	175.9	-	-	-	-	-	
Automotive repair shops	753	460.7	460.9	481.7	487.7	-	379.3	379.8	397.0	400.5	
Miscellaneous repair services	76	319.4	316.7	331.1	333.4	-	265.3	263.4	273.8	275.9	
Electrical repair shops	762	106.9	104.4	104.6	104.2	-	-	-	-	-	
Motion pictures	78	229.2	232.6	232.8	239.5	-	192.4	196.7	196.2	199.4	
Motion picture production and services	781	116.5	116.8	122.7	127.1	-	93.7	94.7	99.9	100.9	
Motion picture theaters	783	100.3	102.9	95.8	97.4	-	-	-	-	-	
Amusement and recreation services	79	883.4	960.6	846.7	880.4	-	759.8	834.8	727.5	759.1	
Health services	80	6,762.1	6,796.4	7,110.6	7,158.3	7,191.9	6,009.4	6,030.7	6,308.6	6,351.4	
Offices of physicians	801	1,045.1	1,050.0	1,139.2	1,147.3	-	860.0	864.4	930.8	937.7	
Offices of dentists	802	473.8	474.9	492.4	495.4	-	418.3	418.1	434.0	436.2	
Nursing and personal care facilities	805	1,284.2	1,285.8	1,311.3	1,318.9	-	1,159.8	1,160.8	1,183.4	1,189.6	
Skilled nursing care facilities	8051	857.2	857.3	874.0	878.8	-	-	-	-	-	
Nursing and personal care, nec	8059	427.0	428.5	437.3	440.1	-	-	-	-	-	
Hospitals	806	3,101.1	3,109.2	3,253.1	3,274.7	-	2,828.2	2,836.4	2,969.5	2,991.4	
General medical and surgical hospitals	8062	2,903.4	2,910.9	3,043.2	3,063.3	-	-	-	-	-	
Psychiatric hospitals	8063	66.4	66.6	70.8	71.5	-	-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	131.3	131.7	139.1	139.9	-	-	-	-	-	
Medical and dental laboratories	807	136.8	138.1	148.4	149.5	-	-	-	-	-	
Outpatient care facilities	808	263.3	265.9	279.3	280.5	-	-	-	-	-	

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Services—Continued											
Legal services	81	778.7	779.8	801.1	802.9	-	654.6	655.5	670.3	672.1	
Educational services	82	1,531.3	1,525.9	1,524.4	1,529.5	-	-				
Elementary and secondary schools	821	375.1	373.7	377.0	378.0	-	-				
Colleges and universities	822	1,001.4	998.2	989.2	992.8	-	-				
Correspondence and vocational schools	824	73.6	72.8	73.7	73.5	-	-				
Social services	83	1,526.8	1,535.4	1,605.1	1,620.7						
Individual and family services	832	306.1	307.1	325.1	332.1	-	-				
Job training and related services	833	260.7	262.2	263.6	264.9						
Residential care	836	330.2	332.5	345.8	347.9	-	-				
Museums, botanical and zoological gardens	84	47.7	49.3	49.9	50.8	-	-				
Membership organizations	86	1,530.4	1,528.8	1,526.4	1,534.0						
Business associations	861	91.4	91.4	91.6	92.3	-	-				
Labor organizations	863	133.1	130.9	130.7	133.7	-	-				
Civic and social associations	864	347.0	347.2	346.9	350.1	-	-				
Miscellaneous services	89	1,299.6	1,304.9	1,360.3	1,371.7		1,061.0	1,064.4	1,103.9	1,112.3	
Engineering and architectural services	891	679.1	684.6	714.3	719.0		572.3	576.1	599.4	602.7	
Noncommercial research organizations	892	129.0	129.5	131.9	132.4		-	-	-	-	
Accounting, auditing, and bookkeeping	893	465.1	464.2	486.1	491.9	-	366.0	365.2	378.2	382.8	
Government		17,310	17,351	17,573	17,709	17,694					
Federal Government ⁴		2,916	2,930	2,955	2,963	2,959	-				
Executive, by agency ⁴		2,859.9	2,873.4	2,896.7							
Department of Defense		973.3	976.2	976.1							
Postal Service ⁵		811.8	813.4	822.5	-		-	-			
Other executive agencies		1,074.8	1,083.8	1,098.1							
Legislative		37.1	37.1	37.9	-						
Judicial		19.2	19.3	20.0							
Federal government, by industry:											
Manufacturing activities		123.3	124.7	124.1	124.0		-	-			
Shipbuilding and repairing	3731	74.5	75.9	76.1	75.6	-	-				
Transportation and public utilities, except Postal Service		39.9	40.2	40.9	40.1						
Services		405.2	408.2	409.6	408.8		-	-			
Hospitals	806	247.2	249.3	253.6	253.0	-	-				
State government		4,036	4,046	4,098	4,124	4,140					
Hospitals	806	446.7	448.1	456.4	459.6	-					
Education	82	1,702.2	1,701.1	1,718.8	1,735.4	-					
General administration, including executive, legislative, and judicial functions		1,326.4	1,334.6	1,353.2	1,358.1						
Local government		10,358	10,375	10,520	10,622	10,595					
Transportation and public utilities		488.2	489.4	494.2	496.6	-					
Hospitals	806	616.0	615.7	641.6	645.5	-		-			
Education	82	5,955.5	5,945.2	6,021.8	6,088.2	-					
General administration, including executive, legislative, and judicial functions		2,980.3	3,000.0	3,035.8	3,058.8		-	-			

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

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

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

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

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

⁵ Includes rural mail carriers.

^p 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	Jan. 1987	Feb. 1987	Dec. 1987	Jan. 1988	Feb. 1988
Total	46,216	46,415	48,777	47,906	48,185
Total private	37,523	37,578	39,699	38,969	39,065
Goods-producing	6,769	6,784	7,024	6,964	6,975
Mining	97	97	99	98	98
Construction	510	510	540	532	532
Manufacturing	6,162	6,177	6,385	6,334	6,345
Durable goods	2,966	2,971	3,060	3,044	3,047
Lumber and wood products	112	113	120	119	119
Furniture and fixtures	157	157	167	167	166
Stone, clay, and glass products	112	112	115	114	114
Primary metal industries	99	100	104	103	104
Fabricated metal products	319	319	329	328	328
Machinery, except electrical	441	443	459	461	464
Electrical and electronic equipment	878	873	890	887	885
Transportation equipment	387	392	397	392	388
Instruments and related products	300	299	305	305	307
Miscellaneous manufacturing	161	164	174	169	173
Nondurable goods	3,196	3,206	3,325	3,290	3,298
Food and kindred products	489	486	517	503	501
Tobacco manufactures	20	19	20	20	18
Textile mill products	347	348	355	351	351
Apparel and other textile products	876	882	892	882	889
Paper and allied products	162	162	168	166	166
Printing and publishing	631	634	661	660	663
Chemicals and allied products	287	289	303	302	303
Petroleum and coal products	24	24	24	24	23
Rubber and misc. plastics products	276	278	294	293	294
Leather and leather products	86	86	92	91	90
Service-producing	39,447	39,631	41,753	40,942	41,210
Transportation and public utilities	1,504	1,505	1,564	1,551	1,560
Wholesale trade	1,672	1,680	1,752	1,741	1,748
Retail trade	9,406	9,299	10,270	9,748	9,629
Finance, insurance, and real estate	4,016	4,029	4,157	4,149	4,146
Services	14,156	14,281	14,932	14,816	15,007
Government	8,693	8,837	9,078	8,937	9,120
Federal	1,027	1,030	1,057	1,051	1,053
State	1,874	1,925	1,979	1,927	1,991
Local	5,792	5,882	6,042	5,959	6,076

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. ^P	Apr. ^P	
Total	101,596	101,708	101,818	102,128	102,275	102,434	102,983	103,285	103,612	103,627	104,365	104,661	104,835	
Total private	84,580	84,677	84,767	85,106	85,229	85,366	85,795	86,072	86,341	86,580	87,083	87,290	87,481	
Goods-producing	24,759	24,752	24,761	24,850	24,866	24,917	25,064	25,189	25,259	25,205	25,354	25,449	25,506	
Mining	729	735	738	744	751	759	764	759	756	746	748	751	767	
Oil and gas extraction	416	420	425	430	434	439	443	439	438	430	431	438	450	
Construction	5,019	4,999	5,008	5,002	5,006	4,989	5,053	5,074	5,121	5,058	5,185	5,265	5,262	
General building contractors	1,272	1,267	1,266	1,281	1,262	1,280	1,279	1,280	1,290	1,303	1,324	1,328	1,326	
Manufacturing	19,011	19,018	19,015	19,104	19,129	19,169	19,247	19,336	19,382	19,401	19,421	19,433	19,477	
Durable goods	11,175	11,175	11,176	11,195	11,248	11,288	11,319	11,367	11,403	11,403	11,415	11,422	11,482	
Lumber and wood products	736	738	735	740	736	740	741	750	753	753	754	752	752	
Furniture and fixtures	504	509	510	518	518	520	524	526	530	533	532	531	531	
Stone, clay, and glass products	588	584	582	582	582	581	583	588	590	585	588	588	591	
Primary metal industries	743	742	748	750	754	764	768	771	771	768	770	771	771	
Blast furnaces and basic steel products	272	272	275	277	278	283	286	287	285	284	285	285	284	
Fabricated metal products	1,423	1,420	1,424	1,424	1,425	1,429	1,438	1,446	1,451	1,452	1,456	1,457	1,464	
Machinery, except electrical	2,022	2,025	2,028	2,033	2,044	2,053	2,064	2,074	2,085	2,097	2,102	2,110	2,126	
Electrical and electronic equipment	2,092	2,087	2,080	2,088	2,095	2,096	2,111	2,118	2,128	2,130	2,128	2,134	2,133	
Transportation equipment	2,011	2,011	2,010	1,995	2,028	2,018	2,019	2,016	2,018	2,005	2,001	1,997	2,010	
Motor vehicles and equipment	847	843	842	814	848	837	838	835	832	820	819	820	830	
Instruments and related products	694	693	693	695	695	695	697	701	701	702	704	703	704	
Miscellaneous manufacturing	364	366	368	370	371	372	374	377	376	378	380	379	380	
Nondurable goods	7,836	7,843	7,839	7,909	7,881	7,901	7,928	7,969	7,979	7,998	8,006	8,011	8,015	
Food and kindred products	1,642	1,633	1,634	1,644	1,632	1,631	1,635	1,645	1,645	1,661	1,662	1,659	1,658	
Tobacco manufactures	56	57	57	57	56	55	55	56	56	57	56	55	54	
Textile mill products	724	727	729	736	732	735	736	738	739	736	738	736	730	
Apparel and other textile products	1,104	1,107	1,108	1,130	1,110	1,117	1,123	1,128	1,121	1,117	1,114	1,115	1,113	
Paper and allied products	677	677	676	678	677	681	681	680	681	681	683	682	681	
Printing and publishing	1,493	1,497	1,498	1,504	1,508	1,509	1,514	1,522	1,525	1,530	1,536	1,541	1,549	
Chemicals and allied products	1,018	1,022	1,014	1,026	1,031	1,031	1,035	1,041	1,047	1,048	1,049	1,053	1,059	
Petroleum and coal products	164	164	164	164	166	166	167	167	167	167	165	164	164	
Rubber and misc. plastics products	809	809	810	815	819	824	833	840	845	847	849	852	855	
Leather and leather products	149	150	149	155	152	152	152	152	153	154	154	154	152	
Service-producing	76,839	76,956	77,057	77,276	77,389	77,517	77,919	78,116	78,353	78,622	79,011	79,212	79,329	
Transportation and public utilities	5,348	5,344	5,350	5,363	5,377	5,416	5,436	5,459	5,473	5,485	5,507	5,533	5,545	
Transportation	3,124	3,120	3,128	3,133	3,147	3,183	3,198	3,218	3,233	3,244	3,261	3,282	3,288	
Communication and public utilities	2,224	2,224	2,222	2,230	2,230	2,233	2,238	2,241	2,240	2,241	2,246	2,251	2,257	
Wholesale trade	5,772	5,775	5,781	5,797	5,807	5,815	5,831	5,851	5,871	5,884	5,905	5,930	5,945	
Durable goods	3,397	3,401	3,405	3,418	3,422	3,431	3,444	3,456	3,473	3,481	3,495	3,513	3,517	
Nondurable goods	2,375	2,374	2,376	2,379	2,385	2,384	2,387	2,395	2,398	2,403	2,410	2,417	2,428	
Retail trade	18,197	18,205	18,226	18,274	18,256	18,314	18,408	18,443	18,458	18,619	18,706	18,687	18,703	
General merchandise stores	2,385	2,390	2,387	2,407	2,411	2,415	2,459	2,454	2,453	2,490	2,521	2,474	2,475	
Food stores	2,953	2,956	2,960	2,959	2,962	2,958	2,969	2,982	2,996	3,019	3,032	3,042	3,037	
Automotive dealers and service stations	1,978	1,978	1,983	1,985	1,985	1,988	2,000	2,003	2,013	2,023	2,041	2,053	2,050	
Eating and drinking places	5,962	5,976	5,982	5,985	5,992	6,018	6,032	6,047	6,064	6,083	6,097	6,114	6,129	
Finance, insurance, and real estate	6,558	6,576	6,586	6,608	6,624	6,629	6,650	6,657	6,668	6,684	6,689	6,701	6,718	
Finance	3,272	3,276	3,280	3,291	3,293	3,292	3,296	3,301	3,301	3,309	3,304	3,297	3,301	
Insurance	2,032	2,037	2,037	2,043	2,050	2,054	2,068	2,069	2,082	2,086	2,091	2,099	2,109	
Real estate	1,254	1,263	1,269	1,274	1,281	1,283	1,288	1,287	1,285	1,289	1,294	1,305	1,308	
Services	23,926	24,025	24,083	24,214	24,279	24,295	24,406	24,493	24,612	24,683	24,902	24,990	25,044	
Business services	5,044	5,083	5,086	5,105	5,133	5,152	5,194	5,195	5,217	5,228	5,304	5,324	5,340	
Health services	6,800	6,822	6,853	6,867	6,923	6,943	6,967	7,023	7,063	7,085	7,132	7,165	7,206	
Government	17,036	17,031	17,031	17,020	17,046	17,048	17,188	17,213	17,271	17,267	17,302	17,371	17,374	
Federal	2,933	2,935	2,935	2,936	2,940	2,962	2,965	2,977	2,981	2,977	2,976	2,969	2,962	
State	3,943	3,947	3,932	3,952	3,964	3,957	3,973	3,978	3,996	3,996	4,002	4,019	4,035	
Local	10,162	10,149	10,164	10,132	10,142	10,129	10,250	10,258	10,294	10,294	10,324	10,383	10,377	

^P = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total	46,654	46,766	46,937	46,999	47,142	47,372	47,461	47,509	47,811	47,910	48,077	48,225	48,430
Total private	38,057	38,133	38,271	38,337	38,445	38,649	38,754	38,783	38,992	39,099	39,219	39,374	39,558
Goods-producing	6,843	6,846	6,863	6,869	6,876	6,923	6,915	6,936	6,976	7,010	7,024	7,036	7,034
Mining	97	96	97	97	98	98	98	99	99	98	99	98	98
Construction	524	526	530	533	534	536	536	537	540	543	544	545	547
Manufacturing	6,222	6,224	6,236	6,239	6,244	6,289	6,281	6,300	6,337	6,369	6,381	6,393	6,389
Durable goods	2,983	2,978	2,980	2,980	2,983	2,990	3,005	3,018	3,036	3,045	3,054	3,058	3,058
Lumber and wood products	117	117	117	118	118	119	118	119	120	120	121	122	122
Furniture and fixtures	156	157	157	159	160	163	162	163	165	165	166	166	165
Stone, clay, and glass products	113	113	114	114	114	113	114	113	114	115	116	116	116
Primary metal industries	100	100	100	99	100	100	102	103	103	104	104	104	104
Fabricated metal products	320	320	322	322	323	323	324	325	327	328	328	329	330
Machinery, except electrical	441	441	444	444	444	446	450	453	455	456	459	461	461
Electrical and electronic equipment	876	870	868	866	864	869	872	876	881	883	887	887	887
Transportation equipment	392	392	391	390	390	385	391	392	393	394	395	393	388
Instruments and related products	300	299	299	299	299	301	300	302	304	304	304	305	307
Miscellaneous manufacturing	168	169	168	169	171	171	172	172	174	176	174	175	178
Nondurable goods	3,239	3,246	3,256	3,259	3,261	3,299	3,276	3,282	3,301	3,324	3,327	3,335	3,331
Food and kindred products	514	517	518	515	515	521	513	513	518	521	520	529	530
Tobacco manufactures	19	19	18	19	18	17	17	17	17	18	19	19	18
Textile mill products	350	352	351	351	352	355	354	353	354	355	354	352	354
Apparel and other textile products	878	878	880	883	883	902	884	890	894	899	894	889	885
Paper and allied products	165	165	165	165	165	165	165	166	165	168	169	169	169
Printing and publishing	634	636	640	641	643	644	647	647	650	655	657	662	663
Chemicals and allied products	290	290	291	292	292	295	298	297	299	302	304	304	304
Petroleum and coal products	24	24	24	24	24	24	24	24	24	24	24	24	23
Rubber and misc. plastics products	278	278	281	280	280	282	283	284	288	291	294	295	294
Leather and leather products	87	87	88	89	89	94	91	91	92	91	92	92	91
Service-producing	39,811	39,920	40,074	40,130	40,266	40,449	40,546	40,573	40,835	40,900	41,053	41,189	41,396
Transportation and public utilities	1,510	1,517	1,520	1,524	1,531	1,531	1,539	1,544	1,554	1,555	1,555	1,554	1,565
Wholesale trade	1,691	1,695	1,695	1,693	1,703	1,712	1,721	1,718	1,724	1,733	1,742	1,752	1,759
Retail trade	9,607	9,603	9,636	9,629	9,642	9,679	9,712	9,720	9,762	9,780	9,790	9,896	9,947
Finance, insurance, and real estate	4,053	4,064	4,087	4,100	4,109	4,126	4,132	4,135	4,148	4,153	4,161	4,170	4,171
Services	14,353	14,408	14,470	14,522	14,584	14,678	14,735	14,730	14,828	14,868	14,947	14,966	15,082
Government	8,597	8,633	8,666	8,662	8,697	8,723	8,707	8,726	8,819	8,811	8,858	8,851	8,872
Federal	1,038	1,041	1,043	1,045	1,044	1,044	1,048	1,056	1,057	1,061	1,063	1,061	1,061
State	1,871	1,883	1,890	1,897	1,896	1,913	1,916	1,908	1,921	1,923	1,935	1,931	1,935
Local	5,688	5,709	5,733	5,720	5,757	5,766	5,743	5,762	5,841	5,827	5,860	5,859	5,876

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. ^p	Apr. ^p
Total private	68,419	68,488	68,598	68,843	68,951	69,028	69,351	69,554	69,835	69,949	70,430	70,599	70,694
Goods-producing	17,375	17,360	17,377	17,441	17,476	17,498	17,620	17,698	17,787	17,700	17,872	17,945	17,970
Mining	518	525	528	534	539	545	551	548	545	536	538	541	553
Construction	3,918	3,889	3,891	3,887	3,899	3,881	3,940	3,953	4,001	3,914	4,060	4,136	4,113
Manufacturing	12,939	12,946	12,958	13,020	13,038	13,072	13,129	13,197	13,241	13,250	13,274	13,268	13,304
Durable goods	7,406	7,409	7,421	7,425	7,475	7,494	7,530	7,568	7,597	7,588	7,606	7,601	7,638
Lumber and wood products	617	618	615	619	615	618	618	627	630	628	630	628	630
Furniture and fixtures	403	407	408	416	415	416	420	422	425	426	425	424	423
Stone, clay, and glass products	453	452	451	449	450	451	453	456	459	454	455	456	459
Primary metal industries	559	557	561	565	569	578	582	586	586	583	587	587	588
Blast furnaces and basic steel products	205	205	207	209	211	214	217	219	218	218	220	220	219
Fabricated metal products	1,053	1,050	1,054	1,055	1,057	1,061	1,067	1,075	1,080	1,080	1,084	1,084	1,089
Machinery, except electrical	1,198	1,203	1,210	1,212	1,222	1,230	1,238	1,245	1,251	1,259	1,262	1,269	1,282
Electrical and electronic equipment	1,216	1,215	1,212	1,221	1,226	1,226	1,238	1,241	1,252	1,248	1,248	1,252	1,253
Transportation equipment	1,265	1,265	1,265	1,241	1,275	1,265	1,262	1,259	1,258	1,250	1,250	1,239	1,249
Motor vehicles and equipment	657	655	655	629	664	652	653	650	648	639	640	638	647
Instruments and related products	376	375	376	378	377	379	381	383	383	385	387	386	387
Miscellaneous manufacturing	266	267	269	269	269	270	271	274	273	275	278	276	278
Nondurable goods	5,533	5,537	5,537	5,595	5,563	5,578	5,599	5,629	5,644	5,662	5,668	5,667	5,666
Food and kindred products	1,158	1,153	1,150	1,159	1,146	1,144	1,150	1,159	1,160	1,174	1,177	1,173	1,172
Tobacco manufactures	43	44	42	43	42	41	40	41	42	43	42	41	40
Textile mill products	628	631	633	640	636	638	639	641	641	639	642	640	634
Apparel and other textile products	929	927	930	950	930	938	943	948	943	941	937	937	938
Paper and allied products	514	513	513	515	514	517	515	516	517	517	519	517	517
Printing and publishing	832	836	839	841	845	846	849	853	856	862	866	869	871
Chemicals and allied products	569	572	568	576	579	579	580	584	589	589	588	593	595
Petroleum and coal products	106	107	108	107	108	108	109	108	110	109	108	107	107
Rubber and misc. plastics products	629	629	629	633	636	639	647	652	658	660	661	663	666
Leather and leather products	125	125	125	131	127	128	127	127	128	128	128	127	126
Service-producing	51,044	51,128	51,221	51,402	51,475	51,530	51,731	51,856	52,048	52,249	52,558	52,654	52,724
Transportation and public utilities	4,428	4,429	4,439	4,449	4,465	4,497	4,514	4,532	4,533	4,548	4,567	4,587	4,604
Wholesale trade	4,622	4,623	4,632	4,641	4,642	4,644	4,653	4,673	4,690	4,709	4,727	4,756	4,772
Retail trade	16,189	16,193	16,195	16,246	16,242	16,257	16,346	16,360	16,384	16,519	16,596	16,560	16,558
Finance, insurance, and real estate	4,840	4,844	4,851	4,853	4,861	4,861	4,862	4,858	4,878	4,879	4,880	4,877	4,890
Services	20,965	21,039	21,104	21,213	21,265	21,271	21,356	21,433	21,563	21,594	21,788	21,874	21,900

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	62.7	^p 58.1	^p 56.5								
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.....	67.0	^p 64.9	^p 61.4									
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	76.8	^p 73.8
	1988.....	^p 70.3											
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	77.0	^p 76.5	^p 77.6		
	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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Alabama	1,473.2	1,511.4	1,514.8	11.2	11.5	11.5	70.7	72.0	73.2
Birmingham	384.6	395.7	397.7	5.7	5.7	5.6	21.9	23.6	24.1
Huntsville	119.6	124.5	124.6	.1	.1	.1	5.2	5.0	5.3
Mobile	159.4	161.4	161.4	.5	.5	.5	9.6	9.2	9.3
Montgomery	122.6	126.7	126.8	.1	.2	.2	7.6	7.8	7.8
Tuscaloosa	57.2	59.2	59.4	2.6	2.5	2.5	2.7	2.7	2.9
Alaska	200.8	199.1	201.0	7.9	8.5	8.6	8.8	7.4	7.7
Arizona	1,378.5	1,417.8	1,422.7	11.2	11.8	11.8	102.7	95.0	94.2
Phoenix	907.9	932.4	935.5	.6	.6	.6	70.3	63.5	62.8
Tucson	244.1	251.4	252.5	1.6	1.7	1.7	19.3	18.7	18.8
Arkansas	816.3	844.4	851.5	3.9	4.0	4.1	31.2	31.1	32.4
Fayetteville-Springdale	46.3	49.4	49.9	(¹)	(¹)	(¹)	1.9	1.7	1.8
Fort Smith	74.5	76.7	77.2	.9	.9	.9	2.8	2.8	2.8
Little Rock-North Little Rock	224.8	231.1	232.8	.4	.4	.4	10.2	10.4	10.9
Pine Bluff	31.5	32.3	32.6	(¹)	(¹)	(¹)	1.4	1.3	1.4
California	11,503.5	11,886.0	11,965.5	40.0	40.6	40.8	548.0	586.2	595.0
Anaheim-Santa Ana	1,069.4	1,100.8	1,104.2	1.9	1.4	1.3	59.8	62.1	63.3
Bakersfield	156.0	159.3	159.7	12.5	13.2	13.3	9.2	8.8	8.7
Fresno	199.3	205.7	207.9	.6	.7	.7	12.1	11.7	11.8
Los Angeles-Long Beach	3,986.9	4,070.4	4,092.4	9.4	9.4	9.5	141.7	151.9	152.5
Modesto	99.9	106.4	106.7	(¹)	(¹)	(¹)	6.7	6.7	6.5
Oakland	803.4	820.5	823.7	3.2	3.2	3.2	44.8	48.0	48.6
Oxnard-Ventura	200.1	208.8	210.0	2.6	2.6	2.7	12.0	12.6	12.9
Riverside-San Bernardino	593.7	632.2	635.6	1.2	1.2	1.3	48.3	52.8	53.5
Sacramento	536.3	563.4	568.1	.8	.7	.7	30.4	32.8	33.4
San Diego	850.0	887.4	892.1	.8	.8	.8	53.4	56.5	57.1
San Francisco	923.0	937.3	941.8	1.0	.9	.9	33.3	33.8	34.2
San Jose	775.9	793.1	796.7	.2	.2	.2	30.4	31.0	31.3
Santa Barbara-Santa Maria-Lompoc	144.3	146.4	146.8	1.2	1.2	1.2	6.1	6.2	6.2
Santa Rosa-Petaluma	121.0	126.6	127.7	.7	.7	.7	7.3	7.9	8.1
Stockton	138.2	141.1	142.0	.1	.1	.1	7.5	7.7	7.8
Vallejo-Fairfield-Napa	120.5	126.4	126.8	.3	.3	.3	7.8	8.6	8.8
Colorado	1,398.4	1,393.1	1,393.4	21.5	21.0	20.7	66.5	58.1	58.2
Boulder-Longmont	103.6	105.2	105.3	.3	.3	.3	3.5	3.0	3.1
Denver	788.9	788.6	788.8	14.1	13.8	13.7	36.1	33.7	34.1
Connecticut	1,617.4	1,645.6	1,657.9	1.5	1.5	1.6	69.2	72.4	75.3
Bridgeport-Milford	192.3	197.5	198.8	(¹)	(¹)	(¹)	7.8	8.4	8.7
Hartford	467.3	479.6	482.2	.3	.2	.2	17.8	18.4	19.3
New Haven-Meriden	245.2	249.9	252.2	.2	.2	.3	11.8	12.2	12.4
Stamford	123.1	126.3	127.3	.6	.5	.5	4.9	5.1	5.4
Waterbury	84.9	86.5	87.2	(¹)	(¹)	(¹)	3.7	3.9	4.2
Delaware	307.9	322.5	326.5	.1	.1	.1	18.5	18.7	20.2
Wilmington	264.9	275.2	278.1	.2	.2	.2	14.9	15.3	16.6
District of Columbia	643.3	656.9	661.7	.1	.1	.1	15.0	15.7	16.3
Washington MSA	2,036.6	2,097.4	2,115.1	1.1	1.1	1.1	123.7	127.0	131.5
Florida	4,823.3	5,061.7	5,099.9	8.6	8.7	8.8	333.6	346.0	346.5
Daytona Beach	112.1	116.6	118.1	(¹)	(¹)	(¹)	7.9	8.4	8.3
Fort Lauderdale-Hollywood-Pompano Beach	468.4	484.7	487.7	.4	.4	.4	35.2	34.9	34.7
Fort Myers-Cape Coral	109.6	116.5	117.9	(¹)	(¹)	(¹)	12.1	12.9	13.1
Jacksonville	389.0	405.9	408.5	.4	.4	.4	27.5	27.1	27.1
Melbourne-Titusville-Palm Bay	140.4	147.4	148.0	(¹)	(¹)	(¹)	8.3	8.3	8.2
Miami-Hialeah	825.0	839.0	840.9	.9	.9	.9	41.3	40.9	40.8
Orlando	469.1	489.5	495.7	(¹)	(¹)	(¹)	32.8	34.3	34.6
Pensacola	121.8	124.5	125.1	.3	.3	.3	8.9	9.0	9.1
Sarasota	104.6	109.4	110.5	(¹)	(¹)	(¹)	10.7	10.8	10.8
Tallahassee	107.8	110.8	111.6	(¹)	(¹)	(¹)	5.6	5.9	5.9
Tampa-St. Petersburg-Clearwater	796.2	815.9	818.4	.7	.6	.6	57.9	59.3	59.7
West Palm Beach-Boca Raton-Delray Beach	327.1	348.0	346.4	(¹)	(¹)	(¹)	26.8	28.6	28.2

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Alabama	358.1	371.3	371.5	72.0	72.0	72.0	321.9	332.0	331.8
Birmingham	53.0	55.0	55.4	27.4	27.6	27.6	98.0	96.9	99.3
Huntsville	30.5	31.1	31.2	2.8	2.9	2.9	22.2	23.4	23.5
Mobile	25.9	26.1	25.8	9.4	9.4	9.2	42.8	43.1	43.1
Montgomery	18.8	19.4	19.4	4.9	5.0	5.0	27.6	28.4	28.5
Tuscaloosa	9.2	9.8	9.8	1.9	1.8	1.8	11.6	12.3	12.3
Alaska	10.2	11.5	12.1	16.8	16.6	16.7	36.4	36.5	36.6
Arizona	186.1	167.2	167.3	69.9	74.4	75.0	336.5	346.6	347.8
Phoenix	135.0	136.8	138.7	46.9	50.7	50.7	231.2	233.3	234.5
Tucson	30.8	30.6	30.6	9.3	9.8	9.8	54.9	57.3	57.4
Arkansas	213.2	223.8	224.4	49.3	51.5	51.1	183.2	189.8	192.3
Fayetteville-Springdale	11.0	12.1	12.2	4.0	5.0	5.0	10.8	11.2	11.3
Fort Smith	25.8	26.5	26.6	3.7	3.9	4.0	15.2	15.4	15.4
Little Rock-North Little Rock	31.0	32.7	33.0	16.2	16.6	16.8	54.4	55.1	55.5
Pine Bluff	6.0	6.4	6.5	2.5	2.4	2.4	6.7	6.7	6.7
California	2,081.6	2,121.0	2,129.1	575.7	573.9	575.6	2,685.5	2,820.6	2,835.3
Anaheim-Santa Ana	245.7	251.6	252.4	34.3	34.0	34.2	263.1	277.7	276.9
Bakersfield	10.5	11.0	11.1	7.8	7.9	7.9	37.2	38.2	38.2
Fresno	20.3	21.8	22.3	10.6	11.0	11.2	51.0	52.9	53.1
Los Angeles-Long Beach	904.6	913.8	915.8	204.7	208.1	208.1	899.6	918.5	924.8
Modesto	20.8	22.8	23.0	4.3	4.5	4.6	25.7	28.1	28.1
Oakland	102.0	104.4	103.8	56.0	55.6	55.7	196.7	202.2	202.2
Oxnard-Ventura	28.4	30.5	30.4	10.6	10.0	10.0	49.0	51.6	51.9
Riverside-San Bernardino	79.0	83.7	84.2	30.2	31.3	31.5	146.7	159.4	160.1
Sacramento	39.2	41.4	41.8	23.9	25.2	25.4	128.3	136.9	137.7
San Diego	122.7	123.2	123.3	33.2	34.2	34.2	199.7	215.2	215.5
San Francisco	79.1	79.8	80.1	77.3	76.0	76.1	207.4	210.8	210.3
San Jose	258.5	261.5	262.0	21.2	21.6	21.5	147.9	154.2	153.6
Santa Barbara-Santa Maria-Lompoc	22.4	21.9	22.0	5.0	5.0	5.0	33.6	34.9	35.0
Santa Rosa-Petaluma	18.1	18.7	18.8	6.0	6.3	6.3	30.7	33.0	33.4
Stockton	21.7	21.7	22.3	8.2	8.1	8.0	31.6	33.1	33.1
Vallejo-Fairfield-Napa	11.1	11.6	11.7	4.6	4.4	4.4	28.2	30.3	30.5
Colorado	182.2	183.6	183.6	63.7	63.1	62.3	347.2	350.4	350.2
Boulder-Longmont	28.0	28.5	28.2	2.3	2.3	2.3	22.3	22.5	22.6
Denver	94.5	94.2	94.4	60.1	60.4	60.1	197.1	199.5	198.7
Connecticut	387.1	381.4	380.3	70.9	72.8	73.8	361.5	371.3	374.3
Bridgeport-Milford	57.9	58.0	57.6	8.5	9.3	9.4	44.3	45.5	45.8
Hartford	91.1	93.5	93.3	17.8	17.9	18.0	99.4	101.8	102.4
New Haven-Meriden	48.5	46.3	46.5	17.5	18.1	18.1	56.3	56.8	57.5
Stamford	24.0	23.8	24.0	5.1	5.3	5.3	30.0	30.7	30.8
Waterbury	25.1	23.7	23.7	3.2	3.2	3.2	17.0	17.5	17.5
Delaware	69.3	68.1	68.4	12.9	14.1	14.1	66.4	70.3	70.9
Wilmington	59.7	57.4	57.6	14.0	15.1	15.0	55.4	58.4	58.2
District of Columbia	15.9	16.4	16.5	24.3	24.2	24.4	61.3	62.3	63.0
Washington MSA	85.9	87.3	87.6	98.8	101.6	102.6	406.8	419.6	421.7
Florida	527.8	542.8	542.2	252.9	259.1	259.9	1,312.8	1,382.9	1,397.4
Daytona Beach	11.7	12.1	12.0	3.3	3.5	3.6	33.7	34.5	35.5
Fort Lauderdale-Hollywood-Pompano Beach	45.1	46.2	46.4	21.7	23.0	23.1	141.1	145.8	146.9
Fort Myers-Cape Coral	5.4	5.7	5.6	4.8	5.2	5.0	33.5	35.0	35.6
Jacksonville	38.4	39.4	39.1	27.5	28.1	28.2	102.8	108.9	109.0
Melbourne-Titusville-Palm Bay	27.8	29.1	29.4	5.6	6.0	6.0	33.0	34.8	34.8
Miami-Hialeah	94.5	97.2	97.4	69.1	68.1	67.8	219.1	224.7	224.8
Orlando	53.6	54.7	54.8	24.1	25.5	25.7	122.8	129.3	130.4
Pensacola	11.5	11.4	11.3	6.3	5.9	5.9	31.4	32.6	33.0
Sarasota	8.6	9.1	9.2	3.5	3.6	3.7	31.0	33.3	33.6
Tallahassee	4.6	4.5	4.6	3.1	3.1	3.1	22.5	23.1	23.1
Tampa-St. Petersburg-Clearwater	91.4	93.7	93.8	38.2	38.8	38.8	221.7	228.8	230.0
West Palm Beach-Boca Raton-Delray Beach	35.9	36.9	36.6	12.0	12.2	12.3	89.2	95.9	95.5

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Alabama	69.9	69.6	69.6	270.5	278.4	280.6	300.9	304.6	304.6
Birmingham	29.0	29.1	29.2	91.8	93.9	94.7	59.8	61.9	61.8
Huntsville	3.5	3.6	3.6	26.4	28.4	28.4	28.9	30.0	29.6
Mobile	8.0	7.9	7.9	35.4	36.7	36.9	27.8	28.5	28.7
Montgomery	7.3	7.6	7.6	25.4	26.2	26.2	31.1	32.1	32.1
Tuscaloosa	2.0	2.1	2.1	8.0	8.4	8.4	19.2	19.6	19.6
Alaska	11.3	10.6	10.6	40.8	39.4	39.8	66.6	66.6	66.9
Arizona	93.0	94.6	94.2	339.1	358.8	361.8	238.0	249.4	250.6
Phoenix	73.5	75.0	74.7	228.5	242.0	244.3	121.9	130.7	131.2
Tucson	12.9	12.4	12.4	64.2	68.1	68.4	51.1	52.8	53.4
Arkansas	37.4	37.4	37.5	150.1	156.1	157.8	148.0	150.9	151.9
Fayetteville-Springdale	1.4	1.5	1.5	6.8	7.2	7.4	10.6	10.7	10.7
Fort Smith	2.7	2.6	2.6	15.9	16.5	16.8	7.5	8.1	8.1
Little Rock-North Little Rock	15.4	15.8	15.9	51.0	53.5	53.7	46.2	46.4	46.6
Pine Bluff	1.5	1.5	1.5	6.0	6.2	6.3	7.4	7.8	7.8
California	793.6	813.3	817.9	2,874.4	2,974.6	2,999.8	1,904.7	1,955.8	1,972.0
Anaheim-Santa Ana	90.8	90.2	89.6	256.7	264.9	267.1	117.1	118.9	119.4
Bakersfield	6.3	6.1	6.0	31.8	33.2	33.3	40.7	40.9	41.2
Fresno	13.6	12.9	13.0	46.1	48.0	48.3	45.0	46.7	47.5
Los Angeles-Long Beach	283.0	289.3	291.4	1,042.6	1,070.2	1,078.6	501.3	509.2	511.7
Modesto	4.4	4.5	4.5	20.7	21.8	21.9	17.3	18.0	18.1
Oakland	53.8	55.1	55.3	186.2	189.5	191.0	160.7	162.5	163.9
Oxnard-Ventura	10.3	10.7	10.6	46.4	49.9	50.3	40.8	40.9	41.2
Riverside-San Bernardino	25.9	26.8	27.0	141.4	149.5	151.0	121.0	127.5	127.0
Sacramento	32.6	33.8	34.1	114.5	123.2	124.4	166.6	169.4	170.6
San Diego	59.9	61.5	61.8	222.6	234.9	236.3	157.7	161.1	163.1
San Francisco	112.7	113.2	113.3	277.0	286.7	289.3	135.2	136.1	137.6
San Jose	34.9	34.6	34.4	194.8	202.4	204.9	88.0	87.6	88.8
Santa Barbara-Santa Maria-Lompoc	8.6	8.7	8.7	39.7	40.5	40.6	27.7	28.0	28.1
Santa Rosa-Petaluma	8.3	8.4	8.4	27.3	28.4	28.7	22.6	23.2	23.3
Stockton	8.8	8.7	8.7	29.5	30.3	30.4	30.8	31.4	31.6
Vallejo-Fairfield-Napa	4.5	4.4	4.4	26.9	29.0	29.0	37.1	37.8	37.7
Colorado	98.9	97.4	97.5	333.1	330.9	331.4	265.3	268.6	269.5
Boulder-Longmont	4.1	4.1	4.1	21.1	21.7	21.7	22.0	22.8	23.0
Denver	66.4	65.8	65.8	194.8	194.3	194.7	125.8	126.9	127.3
Connecticut	147.4	150.3	150.5	375.5	389.2	393.7	204.3	206.7	208.4
Bridgeport-Milford	11.0	12.1	12.1	43.5	44.0	44.9	19.3	20.2	20.3
Hartford	75.9	78.4	78.4	104.8	107.8	108.7	60.2	61.6	61.9
New Haven-Meriden	14.9	15.3	15.4	66.5	68.7	69.6	31.5	32.3	32.4
Stamford	12.8	13.3	13.2	35.0	36.9	37.4	10.7	10.7	10.7
Waterbury	4.2	4.5	4.4	19.4	20.8	21.2	12.3	12.9	13.0
Delaware	25.5	27.2	27.5	69.5	76.5	77.3	45.7	47.5	48.0
Wilmington	22.6	24.3	24.7	61.4	67.1	67.5	36.7	37.4	38.3
District of Columbia	37.0	37.5	37.6	226.3	236.6	239.4	263.4	263.8	264.4
Washington MSA	122.1	127.1	127.5	644.1	677.3	683.7	554.3	556.4	559.4
Florida	353.9	368.4	369.6	1,296.5	1,380.0	1,395.9	737.2	773.8	779.6
Daytona Beach	6.4	6.6	6.7	31.0	32.1	32.5	18.1	19.4	19.5
Fort Lauderdale-Hollywood-Pompano Beach	38.7	41.0	41.1	128.1	133.1	134.1	58.1	60.3	61.0
Fort Myers-Cape Coral	8.0	8.5	8.6	30.2	33.0	33.6	15.5	16.1	16.3
Jacksonville	37.1	38.6	39.0	98.0	104.7	106.6	57.3	58.7	59.1
Melbourne-Titusville-Palm Bay	5.3	5.7	5.7	40.0	42.1	42.5	20.5	21.3	21.3
Miami-Hialeah	66.8	68.2	68.2	226.4	226.1	227.6	106.9	112.9	113.4
Orlando	32.2	34.4	34.7	149.2	154.6	158.3	54.3	56.6	57.1
Pensacola	5.5	5.6	5.7	29.4	30.6	30.7	28.5	29.1	29.1
Sarasota	8.3	8.7	8.8	30.4	31.4	31.9	12.1	12.4	12.5
Tallahassee	4.7	5.0	4.9	21.5	22.2	22.4	45.6	46.7	47.3
Tampa-St. Petersburg-Clearwater	64.9	66.1	66.4	220.6	224.0	224.4	100.8	104.8	104.7
West Palm Beach-Boca Raton-DeLray Beach	28.2	29.5	29.6	95.9	103.4	104.5	39.1	41.4	41.6

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	Total			Mining			Construction		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Georgia	2,725.5	2,777.3	2,783.9	8.4	8.4	8.4	147.1	146.1	147.7
Athens	62.0	63.1	63.3	.2	.2	.2	2.3	2.2	2.3
Atlanta	1,350.0	1,376.3	1,380.1	1.4	1.4	1.4	72.0	69.5	70.2
Augusta	154.1	157.2	157.7	.5	.5	.5	8.9	9.5	9.6
Columbus	90.8	91.8	91.8	.1	.1	.1	4.9	5.1	5.2
Macon-Warner Robins	116.6	118.6	118.8	.1	.1	.1	4.8	4.7	4.8
Savannah	101.3	102.3	102.4	(¹)	(¹)	(¹)	7.3	6.7	6.6
Hawaii	456.4	466.0	467.9	(¹)	(¹)	(¹)	20.8	20.1	20.1
Honolulu	364.3	371.5	373.1	(¹)	(¹)	(¹)	16.5	15.7	15.8
Idaho	323.5	332.7	334.4	2.2	2.8	2.9	11.8	10.5	11.2
Boise City	84.9	87.0	87.3	(²)	(²)	(²)	4.0	3.8	3.8
Illinois	4,840.2	4,914.9	4,942.3	23.2	23.1	23.4	170.1	168.6	173.4
Aurora-Elgin	130.3	135.6	137.0	(¹)	(¹)	(¹)	5.3	5.8	6.0
Bloomington-Normal	55.8	55.4	55.7	(¹)	(¹)	(¹)	1.4	1.4	1.5
Champaign-Urbana-Rantoul	86.4	86.5	87.2	(¹)	(¹)	(¹)	2.2	2.1	2.2
Chicago	2,974.5	3,030.3	3,048.7	2.3	2.2	2.3	106.7	110.1	114.1
Davenport-Rock Island-Moline	154.6	154.5	154.6	(¹)	(¹)	(¹)	4.3	4.0	4.0
Decatur	49.9	49.9	49.9	(¹)	(¹)	(¹)	1.8	1.7	1.7
Joliet	95.4	96.6	96.6	(¹)	(¹)	(¹)	4.7	5.0	5.0
Lake County	177.8	186.4	187.9	(¹)	(¹)	(¹)	7.0	7.8	8.1
Peoria	132.2	133.6	134.6	(¹)	(¹)	(¹)	4.8	4.2	4.7
Rockford	122.5	125.5	126.0	(¹)	(¹)	(¹)	3.9	3.9	4.0
Springfield	96.7	97.7	97.9	(¹)	(¹)	(¹)	2.5	2.8	2.8
Indiana	2,239.5	2,321.4	2,340.5	8.3	7.7	7.9	86.5	90.1	95.3
Anderson	47.9	47.6	47.9	(²)	(²)	(²)	1.2	1.2	1.2
Bloomington	50.0	52.2	52.3	(²)	(²)	(²)	1.7	1.7	1.9
Elkhart-Goshen	94.5	99.1	100.4	(²)	(²)	(²)	2.4	2.5	2.6
Evansville	122.1	124.7	125.9	2.1	2.1	2.0	6.6	6.4	6.6
Fort Wayne	179.8	188.0	190.0	(²)	(²)	(²)	8.0	8.9	9.3
Gary-Hammond	210.7	220.7	222.5	(²)	(²)	(²)	10.3	10.4	10.9
Indianapolis	583.4	605.5	610.8	.8	.7	.8	26.7	28.3	29.6
Lafayette	62.4	64.9	64.7	(²)	(²)	(²)	1.9	2.4	2.5
Muncie	50.2	51.3	51.7	(²)	(²)	(²)	1.7	1.7	1.9
South Bend-Mishawaka	108.6	112.2	113.1	(²)	(²)	(²)	4.3	4.7	5.0
Terre Haute	51.9	53.2	53.6	.4	.3	.3	1.6	1.8	2.0
Iowa	1,083.6	1,117.0	1,125.7	1.9	1.9	2.0	28.6	26.8	28.3
Cedar Rapids	83.8	88.3	89.4	.1	.1	.1	2.8	2.8	2.8
Des Moines	200.2	210.5	212.1	(¹)	(¹)	(¹)	6.1	6.9	7.1
Dubuque	40.5	42.9	43.2	(¹)	(¹)	(¹)	1.0	1.1	1.1
Sioux City	45.7	51.0	51.4	(¹)	(¹)	(¹)	1.6	1.5	1.5
Waterloo-Cedar Falls	59.8	61.8	62.4	(¹)	(¹)	(¹)	1.4	1.3	1.4
Kansas	991.7	1,002.9	1,011.2	11.0	11.5	11.7	41.4	35.8	38.9
Topeka	85.8	87.1	88.5	(¹)	(¹)	(¹)	3.4	3.0	3.2
Wichita	222.2	227.7	229.0	2.1	2.4	2.4	8.7	7.9	8.7
Kentucky	1,290.6	1,332.2	1,337.7	38.4	37.2	36.9	53.0	57.6	59.0
Lexington-Fayette	170.9	175.4	177.0	.7	.5	.5	9.1	8.8	8.9
Louisville	425.5	443.4	446.0	.6	.4	.3	19.5	23.1	23.2
Owensboro	32.8	33.5	33.7	.8	.7	.7	1.8	2.1	2.2
Louisiana	1,464.9	1,489.7	1,494.6	53.2	54.7	55.0	78.9	76.9	78.9
Alexandria	44.5	45.4	45.4	.2	.2	.2	2.2	2.2	2.2
Baton Rouge	209.7	212.2	212.6	.9	.8	.8	19.6	19.7	19.9
Houma-Thibodaux	50.5	52.1	52.5	5.6	5.8	5.9	1.5	1.5	1.6
Lafayette	80.8	82.3	82.2	10.2	10.4	10.4	3.1	2.9	3.0
Monroe	53.9	53.1	53.3	.3	.3	.3	2.8	2.5	2.6
New Orleans	507.0	509.8	510.2	14.3	14.7	14.8	21.6	21.8	22.3
Shreveport	130.1	131.8	131.7	3.3	3.0	2.9	6.3	6.8	6.9
Maine	479.7	507.1	507.0	.1	.1	.1	26.3	28.4	28.4
Lewiston-Auburn	38.5	39.8	39.9	(¹)	(¹)	(¹)	1.9	2.0	2.1
Portland	117.0	122.8	123.0	(¹)	(¹)	(¹)	7.4	8.8	8.5

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Georgia	563.9	572.7	572.8	171.2	174.0	174.7	881.0	687.6	688.6
Athens	14.9	15.3	15.3	1.8	1.8	1.8	12.8	12.9	12.8
Atlanta	187.4	190.2	189.8	111.3	116.2	117.3	373.5	376.2	376.2
Augusta	35.2	36.4	36.6	5.1	5.2	5.2	33.0	33.4	33.4
Columbus	20.1	20.1	20.0	3.8	3.5	3.4	19.9	19.8	19.7
Macon-Warner Robins	18.2	18.0	18.1	5.0	4.8	4.8	26.1	26.8	26.6
Savannah	18.5	17.0	17.0	9.5	9.2	9.3	24.3	24.9	24.8
Hawaii	22.0	21.9	21.5	36.1	36.6	36.8	121.6	124.8	125.1
Honolulu	18.2	16.4	15.8	29.8	30.2	30.4	95.0	98.0	98.3
Idaho	51.6	54.9	54.2	17.2	17.7	17.8	81.5	83.1	83.4
Boise City	10.4	11.7	11.8	5.0	5.1	5.1	22.0	22.8	22.8
Illinois	927.9	938.0	938.7	291.0	301.2	302.8	1,196.7	1,228.6	1,229.8
Aurora-Elgin	35.4	36.7	37.1	2.9	3.0	3.1	38.8	37.6	37.9
Bloomington-Normal	4.9	4.2	4.2	2.6	2.6	2.8	12.7	12.8	12.8
Champaign-Urbana-Rantoul	8.0	7.8	8.0	2.4	2.3	2.3	19.1	19.2	19.2
Chicago	549.8	550.5	551.8	189.3	192.9	193.8	744.8	764.1	787.7
Davenport-Rock Island-Moline	33.2	32.6	32.6	8.2	8.2	8.2	42.1	42.3	42.4
Decatur	13.8	13.1	13.1	4.9	4.8	4.9	11.0	11.4	11.3
Joliet	19.2	19.5	19.5	8.2	8.3	8.3	22.7	22.9	22.9
Lake County	41.2	43.8	43.8	6.7	7.0	7.1	48.5	50.9	51.3
Peoria	30.8	33.1	33.4	6.7	8.7	6.8	32.8	32.8	32.8
Rockford	40.9	43.8	43.8	4.3	4.3	4.3	28.9	28.9	29.0
Springfield	4.1	3.9	3.9	4.7	4.9	4.9	21.9	22.0	22.0
Indiana	804.9	621.3	623.4	114.1	125.3	126.4	523.8	545.8	548.7
Anderson	17.6	18.4	16.4	1.3	1.5	1.5	10.7	11.1	11.2
Bloomington	8.4	9.0	9.0	1.6	1.7	1.7	11.0	11.5	11.5
Elkhart-Goshen	51.3	53.8	54.8	2.7	2.7	2.8	17.3	18.0	18.2
Evansville	30.7	30.3	30.4	8.3	6.6	6.6	31.6	33.1	33.3
Fort Wayne	49.7	51.2	51.5	11.6	12.0	12.1	44.4	46.8	47.3
Gary-Hammond	52.0	55.9	55.7	13.8	14.6	14.7	49.9	51.9	52.4
Indianapolis	106.6	105.2	105.8	35.2	36.9	37.2	148.4	156.7	158.2
Lafayette	11.6	12.0	12.0	1.9	2.0	2.0	12.5	12.8	12.8
Muncie	11.0	10.7	10.7	2.2	2.5	2.5	12.3	12.5	12.7
South Bend-Mishawaka	23.7	23.8	23.8	4.8	5.0	5.0	28.2	29.5	29.7
Terre Haute	10.1	9.8	9.9	2.5	2.8	2.8	13.7	14.4	14.5
Iowa	207.1	220.8	221.6	51.5	53.4	53.7	272.2	280.7	283.4
Cedar Rapids	21.8	23.3	23.3	5.8	6.2	6.4	20.1	21.4	21.5
Des Moines	23.4	25.7	25.8	11.8	12.4	12.5	51.9	54.8	55.2
Dubuque	12.1	12.8	12.9	1.5	1.8	1.7	9.2	9.6	9.6
Sioux City	8.1	10.0	10.0	3.0	3.1	3.2	12.6	13.3	13.5
Waterloo-Cedar Falls	13.0	14.6	14.7	1.8	1.7	1.7	14.0	14.4	14.6
Kansas	175.3	178.7	178.9	81.0	80.4	80.3	245.6	252.8	254.0
Topeka	9.0	8.8	9.1	6.7	6.5	6.5	19.0	20.1	20.5
Wichita	58.3	59.9	59.6	10.5	10.6	10.6	51.5	52.5	52.9
Kentucky	256.9	267.1	267.6	67.3	67.7	67.4	304.6	319.4	321.1
Lexington-Fayette	27.6	29.7	30.1	7.7	7.9	7.8	40.1	41.8	42.4
Louisville	86.1	86.5	87.3	26.8	26.9	26.9	104.3	110.7	111.0
Owensboro	5.6	5.8	5.6	2.1	2.1	2.1	6.3	6.3	6.4
Louisiana	159.5	166.2	167.1	103.2	103.9	103.9	356.3	362.6	362.1
Alexandria	3.4	3.5	3.4	2.1	2.2	2.2	10.8	10.9	11.0
Baton Rouge	18.2	18.7	18.7	10.4	10.4	10.4	49.9	50.3	50.5
Houma-Thibodaux	3.6	4.1	4.3	5.4	5.7	5.8	12.9	13.3	13.3
Lafayette	5.7	6.0	6.0	5.7	5.5	5.5	22.4	22.5	22.4
Monroe	7.3	7.2	7.2	2.8	2.6	2.6	14.3	14.1	14.1
New Orleans	41.1	43.1	43.3	43.1	43.4	43.4	133.6	133.6	133.5
Shreveport	18.1	17.1	17.0	8.3	8.0	8.0	31.4	32.3	32.1
Maine	102.6	106.0	105.8	19.9	20.2	20.3	114.2	125.4	125.3
Lewiston-Auburn	10.0	10.5	10.5	1.4	1.4	1.4	9.3	9.6	9.5
Portland	18.0	18.2	18.5	5.8	6.0	5.9	34.4	35.0	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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Georgia	151.7	155.3	155.5	526.4	546.1	546.4	475.8	487.1	489.7
Athens	1.9	1.9	1.9	9.2	9.7	9.7	19.0	19.2	19.3
Atlanta	96.2	98.4	98.7	314.9	324.1	324.9	193.2	200.2	201.6
Augusta	5.9	6.0	6.1	32.0	32.5	32.6	33.6	33.7	33.7
Columbus	6.1	6.2	6.1	15.7	16.4	16.5	20.5	20.7	20.7
Macon-Warner Robins	7.2	7.6	7.7	21.3	22.8	22.8	33.8	33.8	33.8
Savannah	4.4	4.4	4.4	23.6	23.8	24.0	15.7	16.2	16.3
Hawaii	33.7	34.3	34.3	124.9	129.5	130.1	97.3	98.8	100.0
Honolulu	28.2	28.7	28.7	96.5	99.4	99.9	82.3	83.1	84.2
Idaho	19.0	18.9	18.9	66.6	69.6	70.2	73.6	75.3	75.8
Boise City	7.6	7.4	7.4	18.8	18.8	19.0	17.1	17.4	17.4
Illinois	352.8	360.2	361.9	1,143.7	1,164.0	1,174.7	734.8	731.2	736.6
Aurora-Elgin	6.4	6.6	6.6	28.5	30.4	30.7	14.9	15.4	15.5
Bloomington-Normal	9.3	9.5	9.6	11.7	11.7	11.8	13.2	13.2	13.2
Champaign-Urbana-Rantoul	3.4	3.3	3.4	15.9	16.0	16.2	35.4	35.8	35.9
Chicago	252.3	259.6	260.4	766.1	787.9	793.3	363.4	363.0	365.5
Davenport-Rock Island-Moline	8.0	8.1	8.1	31.1	31.7	31.7	27.7	27.6	27.6
Decatur	2.7	2.7	2.7	10.4	10.6	10.6	5.5	5.6	5.6
Joliet	3.8	3.7	3.7	19.9	19.9	19.9	16.6	17.0	17.0
Lake County	6.8	6.9	6.9	38.1	39.7	40.0	28.9	29.7	30.1
Peoria	7.0	7.0	7.0	33.5	33.6	33.8	16.6	16.2	16.3
Rockford	5.2	5.3	5.3	26.9	26.8	27.0	12.4	12.5	12.6
Springfield	7.9	7.9	7.9	23.8	23.8	23.9	31.7	32.3	32.4
Indiana	112.1	116.4	117.0	435.5	457.8	464.5	354.4	356.9	357.3
Anderson	1.6	1.6	1.6	9.6	9.9	10.0	5.9	5.9	6.0
Bloomington	1.7	1.8	1.8	7.7	8.1	8.2	17.7	18.4	18.1
Elkhart-Goshen	2.4	2.6	2.6	12.6	13.5	13.6	5.8	5.9	5.9
Evansville	4.9	5.2	5.2	27.8	29.0	29.6	12.1	12.0	12.1
Fort Wayne	11.8	12.0	12.0	36.5	39.0	39.6	17.9	18.1	18.3
Gary-Hammond	8.0	8.3	8.4	45.7	48.0	48.7	30.9	31.7	31.9
Indianapolis	43.8	46.7	46.9	130.9	138.6	140.1	90.9	92.4	92.1
Lafayette	2.9	3.1	3.1	10.8	11.2	11.3	20.7	21.4	20.9
Muncie	1.6	1.6	1.7	9.8	10.5	10.6	11.6	11.8	11.8
South Bend-Mishawaka	6.1	6.3	6.3	29.9	31.4	31.6	11.5	11.6	11.6
Terre Haute	1.9	2.1	2.1	10.8	11.0	11.1	10.8	10.9	11.0
Iowa	63.4	65.3	65.6	244.2	249.0	250.6	214.7	219.1	220.5
Cedar Rapids	4.8	4.8	4.9	18.4	19.2	19.6	10.4	10.5	10.8
Des Moines	26.0	28.2	28.6	50.7	52.5	53.0	30.2	29.8	29.9
Dubuque	1.4	1.4	1.4	11.8	12.6	12.6	3.5	3.7	3.8
Sioux City	2.6	2.6	2.6	13.4	14.1	14.2	6.4	6.4	6.4
Waterloo-Cedar Falls	3.0	2.8	2.8	14.2	14.3	14.4	12.5	12.7	12.8
Kansas	55.6	56.4	56.7	198.4	204.3	206.2	203.4	203.0	204.5
Topeka	6.1	6.4	6.5	20.2	20.8	21.0	21.3	21.4	21.6
Wichita	11.2	11.2	11.3	52.5	55.7	55.9	27.4	27.5	27.6
Kentucky	60.1	61.0	61.2	268.5	277.9	279.8	241.8	244.3	244.7
Lexington-Fayette	9.0	9.2	9.2	40.9	41.3	41.4	35.8	36.2	36.7
Louisville	28.2	28.9	29.0	100.1	103.1	104.2	59.9	61.8	62.1
Owensboro	1.5	1.5	1.5	7.6	7.8	7.8	5.1	5.2	5.2
Louisiana	84.1	84.6	84.7	314.5	326.6	328.3	315.2	314.2	314.6
Alexandria	2.5	2.6	2.6	10.8	11.1	11.1	12.5	12.7	12.7
Baton Rouge	13.2	13.4	13.4	42.1	43.6	43.6	55.4	55.3	55.3
Houma-Thibodaux	2.3	2.3	2.3	8.5	8.8	8.8	10.7	10.6	10.5
Lafayette	4.0	3.7	3.7	16.6	18.3	18.3	13.1	13.0	12.9
Monroe	4.4	4.4	4.4	11.4	11.4	11.5	10.6	10.6	10.6
New Orleans	33.6	34.2	34.0	132.9	134.5	134.7	86.6	84.5	84.2
Shreveport	7.5	7.3	7.3	30.0	32.2	32.3	25.2	25.1	25.2
Maine	24.1	24.9	24.9	102.2	109.0	109.4	90.3	93.1	92.8
Lewiston-Auburn	2.1	2.2	2.3	9.9	10.1	10.2	3.9	4.0	3.9
Portland	11.6	12.2	12.3	26.2	28.9	29.1	15.6	15.7	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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Maryland	1,982.0	2,014.6	2,026.0	1.7	1.7	1.7	140.7	144.9	149.3
Baltimore MSA	1,066.5	1,077.1	1,084.8	.3	.3	.3	68.0	68.5	70.8
Baltimore City	452.3	455.9	458.6	(¹)	(¹)	(¹)	18.3	18.0	18.4
Suburban Maryland-D.C.	702.8	714.8	720.5	.5	.5	.6	59.7	59.7	61.8
Massachusetts	2,996.7	3,039.0	3,067.8	1.5	1.6	1.7	119.2	129.4	134.5
Boston	1,693.1	1,719.1	1,734.0	.8	.9	.9	60.9	65.2	67.3
Brockton	71.3	72.3	73.2	(¹)	(¹)	(¹)	3.5	3.5	3.7
Fall River	54.1	54.8	55.2	(¹)	(¹)	(¹)	1.9	1.9	2.1
Fitchburg-Leominster	39.4	39.4	39.7	(¹)	(¹)	(¹)	2.1	2.2	2.4
Lawrence-Haverhill	159.4	162.0	163.0	(¹)	(¹)	(¹)	7.5	7.4	7.5
Lowell	104.3	105.2	105.9	.2	.1	.1	4.7	4.9	5.2
New Bedford	65.7	66.9	67.9	(¹)	(¹)	(¹)	2.8	2.8	3.0
Springfield	234.2	239.3	241.7	.1	.1	.1	8.4	8.8	9.0
Worcester	194.6	202.1	203.4	.1	.1	.1	8.1	8.6	8.9
Michigan	3,678.1	3,683.6	3,696.4	9.1	9.4	9.5	102.4	106.3	109.0
Ann Arbor	163.3	168.7	170.1	(¹)	(¹)	(¹)	4.0	4.8	5.0
Battle Creek	56.7	56.9	56.9	(¹)	(¹)	(¹)	1.5	1.6	1.7
Benton Harbor	62.4	63.2	63.8	(¹)	(¹)	(¹)	1.2	1.0	1.2
Detroit	1,840.9	1,830.6	1,842.4	.8	.7	.8	51.8	51.0	51.8
Flint	174.6	164.8	165.2	(¹)	(¹)	(¹)	3.9	3.6	3.7
Grand Rapids	307.9	314.6	315.5	(¹)	(¹)	(¹)	12.6	12.7	13.0
Kalamazoo	103.0	104.8	105.4	(¹)	(¹)	(¹)	2.8	2.6	2.8
Lansing-East Lansing	203.9	203.0	200.6	(¹)	(¹)	(¹)	4.8	4.4	4.3
Muskegon	55.0	55.3	55.7	(¹)	(¹)	(¹)	1.7	1.8	1.8
Saginaw-Bay City-Midland	147.8	152.5	151.8	(¹)	(¹)	(¹)	4.9	5.4	5.5
Minnesota	1,906.6	1,955.1	1,964.3	4.7	6.0	6.3	65.2	62.6	64.5
Duluth	85.7	87.2	87.4	2.9	4.3	4.5	3.5	2.5	2.3
Minneapolis-St. Paul	1,253.0	1,288.1	1,291.8	(¹)	(¹)	(¹)	44.9	44.6	45.7
Rochester	55.3	56.8	56.9	(²)	(²)	(²)	1.4	1.5	1.5
St. Cloud	67.5	71.8	71.0	(²)	(²)	(²)	2.9	3.3	3.4
Mississippi	850.0	877.3	880.4	5.5	6.4	6.4	31.5	32.6	32.8
Jackson	172.9	178.6	179.3	.9	1.2	1.2	7.7	8.3	8.2
Missouri	2,154.0	2,172.8	2,200.0	5.4	4.9	5.4	92.4	89.7	94.0
Kansas City	729.2	728.9	734.2	.5	.5	.5	35.3	34.1	35.2
St. Louis	1,107.3	1,114.7	1,124.4	3.4	3.4	3.5	53.3	50.6	53.5
Springfield	106.0	110.0	111.5	.1	.1	.1	4.5	4.7	5.2
Montana	267.5	268.3	269.9	5.1	5.7	5.8	6.9	6.6	6.8
Nebraska	652.5	658.5	664.5	1.6	1.4	1.5	21.7	20.4	21.7
Lincoln	110.0	110.5	111.3	(¹)	(¹)	(¹)	3.8	3.5	3.8
Omaha	296.5	300.0	302.1	.2	.2	.2	11.0	10.3	10.6
Nevada	483.7	510.2	515.4	7.1	9.1	9.5	27.6	29.2	30.1
Las Vegas	275.8	292.3	295.0	.3	.3	.3	17.4	18.4	18.8
Reno	127.5	133.7	134.9	.8	.9	.9	6.5	6.7	7.0
New Hampshire	497.8	516.9	519.1	.5	.6	.6	32.5	34.3	34.8
Nashua	90.3	94.0	94.7	.1	.1	.1	4.5	5.1	5.3
Portsmouth-Dover-Rochester,NH-ME	104.1	108.9	109.3	.1	.1	.1	5.3	5.7	5.8
New Jersey	3,519.2	3,577.1	3,610.4	2.2	2.2	2.4	149.4	158.2	166.8
Atlantic City	151.4	151.9	154.8	(¹)	(¹)	(¹)	9.4	9.4	9.9
Bergen-Passaic	656.0	671.8	678.1	.1	.1	.1	28.3	29.2	30.6
Camden	414.3	426.4	431.2	.1	.1	.1	21.0	23.8	25.3
Jersey City	236.8	241.5	243.7	(¹)	(¹)	(¹)	6.2	7.0	7.4
Middlesex-Somerset-Hunterdon	504.9	519.8	524.4	.5	.6	.6	20.6	21.7	22.5
Monmouth-Ocean	309.0	316.2	320.6	(¹)	(¹)	(¹)	19.3	20.5	21.9
Newark	943.5	956.8	962.8	.7	.7	.7	34.8	36.8	38.7
Trenton	191.7	196.0	197.3	(¹)	(¹)	(¹)	4.5	4.5	4.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Maryland	207.0	205.6	205.4	90.7	91.1	91.1	502.8	515.7	516.2
Baltimore MSA	131.2	131.3	131.1	51.4	52.0	52.4	261.3	264.9	265.9
Baltimore City	44.7	44.5	44.6	27.5	27.5	27.5	97.7	98.0	98.9
Suburban Maryland-D.C.	34.8	35.5	35.8	26.1	26.7	26.9	188.6	192.0	192.3
Massachusetts	601.3	584.8	585.2	126.8	129.1	129.5	702.6	707.0	713.0
Boston	282.6	275.1	275.2	74.7	75.0	75.3	380.1	380.9	383.3
Brockton	11.4	11.2	11.5	5.0	5.1	5.1	21.4	22.4	22.6
Fall River	17.1	16.8	16.5	1.9	1.7	1.8	13.6	14.7	14.7
Fitchburg-Leominster	12.0	11.6	11.6	1.5	1.7	1.7	10.0	9.8	9.9
Lawrence-Haverhill	51.2	50.5	50.2	6.7	6.6	6.7	35.3	36.2	36.6
Lowell	35.9	36.0	35.8	3.4	3.6	3.6	22.6	22.7	22.8
New Bedford	19.9	19.0	19.2	2.7	2.8	2.9	15.8	16.5	16.6
Springfield	50.4	51.0	51.3	9.7	9.9	10.0	54.4	56.4	56.7
Worcester	45.6	46.3	46.4	8.3	8.5	8.5	46.6	47.3	47.4
Michigan	978.9	924.4	921.7	149.4	148.1	148.9	825.6	849.5	854.4
Ann Arbor	40.1	38.5	38.5	4.1	4.4	4.4	26.8	26.4	28.5
Battle Creek	15.0	15.2	15.1	1.8	1.8	1.8	11.1	11.4	11.3
Benton Harbor	21.3	21.4	21.3	2.3	2.3	2.2	12.4	12.7	13.0
Detroit	477.6	442.4	445.1	84.3	84.6	85.0	423.2	437.1	439.2
Flint	62.2	48.4	48.3	4.7	4.4	4.5	42.8	45.5	45.6
Grand Rapids	95.5	96.9	96.4	11.0	11.2	11.2	77.5	80.6	81.1
Kalamazoo	29.7	29.6	29.9	3.1	3.3	3.4	22.2	22.9	23.1
Lansing-East Lansing	36.5	31.9	28.5	5.9	5.6	5.7	40.8	41.6	42.2
Muskegon	17.3	17.1	17.1	2.4	2.3	2.3	11.9	12.1	12.2
Saginaw-Bay City-Midland	43.4	42.1	41.0	6.9	6.8	6.9	34.7	36.2	36.2
Minnesota	366.5	377.7	378.7	99.0	100.4	100.3	472.9	480.5	484.3
Duluth	7.1	7.6	7.7	5.7	5.5	5.6	21.2	21.3	21.3
Minneapolis-St. Paul	249.9	257.4	257.8	68.8	71.1	70.5	307.0	315.0	316.0
Rochester	10.3	10.7	10.8	1.6	1.7	1.7	11.3	11.1	11.1
St. Cloud	11.6	12.4	12.3	3.4	3.4	3.4	20.6	21.9	21.9
Mississippi	223.6	233.1	233.3	41.1	42.3	42.6	180.0	185.0	186.0
Jackson	19.8	20.5	20.7	12.1	12.7	12.8	41.2	42.1	42.4
Missouri	417.9	420.0	421.0	140.3	141.3	142.0	522.5	531.2	535.6
Kansas City	113.6	111.4	111.5	55.7	54.8	55.1	187.5	188.7	189.9
St. Louis	219.3	218.0	218.7	72.2	73.5	73.8	267.6	270.5	271.8
Springfield	19.3	21.0	21.1	6.8	7.0	7.2	30.0	30.7	30.9
Montana	19.5	20.4	20.1	19.3	19.0	18.9	69.8	70.1	71.0
Nebraska	84.3	90.2	90.8	42.0	42.2	42.5	167.9	168.4	169.7
Lincoln	13.2	13.6	13.5	5.7	5.8	5.8	25.3	25.2	25.2
Omaha	33.2	34.9	35.1	22.4	22.6	22.7	75.3	76.2	76.7
Nevada	22.5	23.9	23.7	27.1	27.6	28.0	97.3	103.0	103.7
Las Vegas	8.3	8.9	8.8	15.2	15.6	15.8	57.8	61.3	61.7
Reno	8.4	8.1	8.2	8.9	9.2	9.2	28.1	30.0	30.2
New Hampshire	117.4	121.6	122.0	16.8	17.3	17.4	124.5	128.8	129.0
Nashua	35.8	36.9	37.2	2.1	2.1	2.0	20.9	21.3	21.4
Portsmouth-Dover-Rochester,NH-ME	20.5	21.0	20.9	2.8	2.8	2.9	26.2	27.8	27.8
New Jersey	679.8	665.5	666.8	234.5	240.8	241.9	836.4	852.7	856.7
Atlantic City	8.4	8.5	8.4	6.3	6.0	6.0	29.2	29.6	30.7
Bergen-Passaic	161.3	160.2	160.9	28.8	28.3	28.7	186.5	193.1	193.9
Camden	72.3	70.9	71.3	18.3	18.7	18.7	111.7	116.8	117.4
Jersey City	48.6	47.1	47.7	30.6	29.8	30.4	57.9	60.5	60.7
Middlesex-Somerset-Hunterdon	113.1	115.1	115.1	42.3	44.0	43.9	121.1	125.5	126.0
Monmouth-Ocean	31.3	30.0	30.1	15.8	16.4	16.5	82.7	85.3	85.9
Newark	182.9	180.0	179.8	80.3	81.9	82.0	194.8	194.9	196.0
Trenton	31.2	31.1	30.7	6.5	6.7	6.6	30.4	31.7	31.8

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Maryland	122.0	125.9	125.8	520.3	537.4	540.5	396.8	392.3	396.0
Baltimore MSA	73.9	74.5	74.5	275.7	284.0	286.3	204.7	201.6	203.5
Baltimore City	43.4	44.0	43.8	136.4	139.6	140.6	84.2	84.2	84.7
Suburban Maryland-D.C.	40.2	41.7	41.7	201.5	209.1	210.4	151.4	149.6	151.0
Massachusetts	211.6	222.9	223.9	837.0	860.0	872.4	396.7	404.2	407.6
Boston	146.1	153.6	154.6	548.1	559.9	568.3	199.8	208.5	209.1
Brockton	3.1	3.1	3.1	15.2	15.3	15.5	11.7	11.7	11.7
Fall River	2.9	3.2	3.2	10.0	10.1	10.3	6.7	6.4	6.6
Fitchburg-Leominster	1.7	1.8	1.8	7.3	7.9	8.0	4.8	4.4	4.3
Lawrence-Haverhill	6.0	6.4	6.4	31.8	33.3	33.6	20.9	21.6	22.0
Lowell	4.2	4.2	4.2	20.0	19.8	20.2	13.3	13.9	14.0
New Bedford	2.4	2.5	2.5	12.2	12.9	13.1	9.9	10.4	10.6
Springfield	15.9	16.5	16.6	57.1	58.2	59.3	38.2	38.4	38.7
Worcester	13.1	14.6	14.7	48.8	51.0	51.5	24.0	25.7	25.9
Michigan	176.0	182.8	183.0	809.5	820.8	824.0	627.2	642.3	646.0
Ann Arbor	4.4	4.7	4.7	31.5	34.5	34.8	52.2	53.3	54.1
Battle Creek	3.8	3.2	3.2	11.9	12.1	12.2	11.4	11.5	11.5
Benton Harbor	2.5	2.6	2.7	14.1	14.4	14.6	8.6	8.7	8.7
Detroit	104.3	107.0	107.1	455.8	460.1	463.0	243.2	247.7	250.5
Flint	5.8	5.8	5.8	30.4	31.0	31.1	24.7	26.0	26.1
Grand Rapids	13.8	13.9	13.9	65.4	67.3	67.7	31.6	31.7	31.8
Kalamazoo	4.6	5.0	5.0	22.9	23.2	23.2	17.5	18.2	18.1
Lansing-East Lansing	11.1	12.0	12.1	36.3	37.7	37.7	68.2	69.7	70.0
Muskegon	1.4	1.3	1.3	11.2	11.5	11.6	9.0	9.2	9.3
Saginaw-Bay City-Midland	5.8	6.1	6.1	31.0	33.4	33.5	20.8	22.3	22.5
Minnesota	118.0	121.6	122.0	460.4	478.3	481.5	320.0	327.8	326.6
Duluth	3.0	3.1	3.1	20.0	20.4	20.5	22.1	22.4	22.4
Minneapolis-St. Paul	91.8	95.3	95.4	314.3	323.9	325.5	175.7	180.3	180.4
Rochester	1.5	1.6	1.6	23.0	24.0	24.0	6.1	6.1	6.2
St. Cloud	2.4	2.4	2.4	14.0	14.5	14.5	12.6	13.9	13.1
Mississippi	38.1	38.8	38.8	136.9	140.3	141.3	193.3	198.9	199.4
Jackson	14.1	14.3	14.3	38.0	39.4	39.7	39.1	40.0	40.1
Missouri	133.0	133.6	134.6	492.2	499.9	511.0	350.3	352.2	356.4
Kansas City	57.9	57.9	58.2	166.1	168.8	169.9	112.6	112.7	113.9
St. Louis	73.0	73.3	73.4	277.4	283.8	287.0	141.1	141.6	142.7
Springfield	4.8	4.7	4.7	26.8	27.7	28.2	13.7	14.1	14.1
Montana	13.1	12.6	12.4	62.4	64.1	64.7	71.4	69.8	70.2
Nebraska	47.7	47.7	48.0	150.2	148.7	150.8	137.1	139.5	139.5
Lincoln	8.0	8.4	8.5	23.4	23.0	23.4	30.6	31.0	31.1
Omaha	28.8	28.6	28.8	80.3	81.3	82.1	45.3	45.9	45.9
Nevada	22.7	23.8	24.2	214.9	226.8	228.7	64.5	66.8	67.5
Las Vegas	13.6	14.7	15.0	130.8	139.1	139.9	32.4	34.0	34.7
Reno	6.9	6.7	6.8	51.5	55.1	55.7	16.4	17.0	16.9
New Hampshire	30.5	33.2	33.1	109.6	115.2	115.8	66.0	65.9	66.4
Nashua	3.6	4.1	4.2	16.6	17.3	17.3	6.7	7.1	7.2
Portsmouth-Dover-Rochester,NH-ME	6.2	6.6	6.6	18.1	19.6	19.6	24.9	25.3	25.6
New Jersey	220.7	231.2	232.4	848.5	875.2	886.4	547.7	551.3	557.0
Atlantic City	6.7	7.0	7.1	67.0	67.0	68.1	24.3	24.3	24.5
Bergen-Passaic	36.1	38.8	39.0	147.4	154.5	156.5	67.4	67.6	68.4
Camden	23.8	25.6	25.5	95.9	99.2	100.4	71.2	71.3	72.5
Jersey City	11.9	13.1	13.1	41.4	42.8	43.1	40.2	41.2	41.3
Middlesex-Somerset-Hunterdon	35.2	35.9	36.0	101.0	106.1	107.8	71.1	70.9	72.5
Monmouth-Ocean	17.3	18.2	17.9	82.3	84.3	86.1	60.1	61.3	62.0
Newark	75.6	78.5	79.0	239.4	248.4	250.4	135.0	135.6	136.2
Trenton	9.2	9.5	9.5	55.4	56.9	57.7	54.5	55.6	56.2

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
New Mexico	523.8	530.8	534.7	14.1	15.3	15.4	30.5	28.1	28.8
Albuquerque	229.9	232.8	234.7	.2	.2	.2	15.7	14.4	14.8
Las Cruces	40.5	40.8	40.9	.1	.1	.1	2.1	2.0	2.0
Santa Fe	52.7	54.3	54.3	.1	.1	.1	2.3	2.2	2.2
New York	7,932.1	8,051.4	8,101.4	5.2	5.2	5.5	290.3	303.7	313.2
Albany-Schenectady-Troy	394.2	408.4	408.1	.3	.2	.2	15.1	17.0	17.1
Binghamton	118.4	120.9	121.2	(¹)	(¹)	(¹)	4.2	4.3	4.4
Buffalo	426.1	434.2	437.7	.3	.4	.4	13.1	13.8	14.2
Elmira	36.8	39.3	39.7	(¹)	(¹)	(¹)	1.2	1.2	1.2
Nassau-Suffolk	1,109.9	1,127.7	1,138.7	.2	.2	.2	53.8	56.7	60.4
New York PMSA	4,078.8	4,111.3	4,138.2	1.3	1.3	1.3	142.7	147.8	152.8
New York City	3,564.7	3,589.7	3,612.1	.7	.7	.7	112.4	117.4	120.7
Niagara Falls	77.6	79.7	80.3	(¹)	(¹)	(¹)	2.3	2.8	2.8
Orange County	99.1	102.1	102.8	(¹)	(¹)	(¹)	4.6	5.2	5.3
Poughkeepsie	113.9	117.5	118.3	(²)	(²)	(²)	5.7	5.4	5.6
Rochester	453.7	465.8	485.6	.6	.7	.6	15.3	17.2	17.1
Rockland County	94.8	97.8	98.5	(²)	(²)	(²)	4.6	5.0	5.2
Syracuse	291.6	300.7	299.0	.1	.2	.2	12.2	13.9	13.9
Utica-Rome	117.6	121.2	121.8	.1	.1	.2	2.8	3.0	3.1
Westchester County	401.8	405.4	408.9	.3	.3	.3	24.5	24.0	25.3
North Carolina	2,817.0	2,902.5	2,920.5	4.9	4.8	4.9	153.9	160.0	164.1
Asheville	75.0	77.0	78.0	.1	.1	.1	3.7	4.0	4.2
Charlotte-Gastonia-Rock Hill	567.4	592.4	596.2	.4	.4	.4	32.4	36.8	37.2
Greensboro-Winston-Salem-High Point	458.9	468.7	471.1	.3	.3	.3	23.7	24.2	24.4
Raleigh-Durham	377.3	387.7	389.2	.3	.4	.4	20.6	21.3	21.7
North Dakota	245.5	248.9	250.4	3.5	4.1	4.2	7.6	7.3	7.5
Bismarck	36.0	36.2	36.4	.2	.2	.2	1.2	1.1	1.1
Fargo-Moorhead	69.3	71.8	72.2	(¹)	(¹)	(¹)	2.5	2.6	2.7
Grand Forks	29.5	29.7	30.0	(¹)	(¹)	(¹)	1.1	1.0	1.0
Ohio	4,485.0	4,568.8	4,596.4	20.7	19.7	19.3	150.4	158.9	165.5
Akron	260.1	265.5	267.5	.5	.5	.5	7.5	7.7	7.8
Cincinnati	656.6	679.4	678.9	.3	.5	.5	26.1	28.0	29.1
Cleveland	871.3	889.6	893.5	1.0	1.0	1.0	24.0	25.1	25.8
Columbus	647.1	663.0	667.6	.9	.9	.9	23.9	25.5	26.4
Dayton-Springfield	421.9	426.9	430.5	.4	.3	.4	14.1	14.8	15.6
Toledo	273.4	281.5	283.9	.2	.1	.2	8.8	10.1	10.5
Youngstown-Warren	185.2	187.9	189.7	.7	.6	.6	5.7	6.0	6.3
Oklahoma	1,102.3	1,088.5	1,093.8	45.0	43.6	44.2	32.6	30.5	31.4
Enid	21.7	21.9	21.8	1.1	1.0	1.0	.6	.6	.6
Lawton	34.0	33.3	33.3	.2	.2	.2	1.2	1.1	1.1
Oklahoma City	399.3	395.7	396.8	11.4	10.9	11.1	11.4	11.8	12.2
Tulsa	287.6	285.4	286.6	14.9	14.9	15.1	10.1	8.8	9.0
Oregon	1,067.2	1,105.3	1,113.5	1.3	1.3	1.3	29.9	31.7	33.5
Eugene-Springfield	102.6	105.4	106.0	.1	.1	.1	2.6	2.8	2.9
Portland	542.9	561.4	565.1	.5	.5	.4	16.9	18.4	18.8
Salem	91.7	94.7	95.0	.1	.1	.1	2.7	2.9	2.9
Pennsylvania	4,815.5	4,911.2	4,946.2	30.5	29.1	29.5	196.1	197.5	207.3
Allentown-Bethlehem	267.0	269.9	272.1	.8	.5	.5	11.5	12.4	13.1
Altoona	49.4	50.3	50.9	(²)	(²)	(²)	2.5	2.2	2.4
Beaver County	50.4	50.1	50.8	(²)	(²)	(²)	4.2	3.6	4.0
Erie	107.8	110.4	110.6	.2	.2	.2	2.7	2.7	2.8
Harrisburg-Lebanon-Carlisle	286.1	293.9	296.0	.3	.3	.3	11.4	11.7	12.2
Johnstown	76.1	77.0	77.7	3.7	3.6	3.6	2.2	2.1	2.2
Lancaster	174.8	179.5	181.1	.3	.3	.3	9.5	10.2	10.5
Philadelphia PMSA	2,106.6	2,159.6	2,172.2	1.0	1.0	1.1	92.4	98.5	102.6
Philadelphia City	764.5	779.5	781.7	(²)	(²)	(²)	16.5	15.4	15.9
Pittsburgh	837.3	846.5	855.5	5.5	5.7	5.7	38.0	35.0	36.9

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
New Mexico	36.9	39.1	39.5	28.5	28.7	28.7	123.9	127.0	128.2
Albuquerque	20.1	20.2	20.5	12.2	12.4	12.5	57.9	59.9	60.4
Las Cruces	3.7	3.9	3.7	1.4	1.3	1.3	7.6	8.5	8.6
Santa Fe	1.6	1.7	1.7	1.1	1.2	1.2	10.0	10.5	10.6
New York	1,225.1	1,213.5	1,219.4	400.8	402.8	402.9	1,656.0	1,665.8	1,673.2
Albany-Schenectady-Troy	49.3	48.4	48.7	16.0	16.2	16.2	83.7	87.0	87.3
Binghamton	37.5	38.4	38.3	4.3	4.5	4.5	25.8	26.4	26.4
Buffalo	76.0	76.7	77.1	21.0	21.0	21.1	106.4	108.5	109.3
Elmira	7.2	8.6	8.6	1.4	1.4	1.4	10.1	10.4	10.5
Nassau-Suffolk	179.5	175.9	175.5	47.6	48.8	49.1	295.2	298.6	301.1
New York PMSA	467.2	456.9	460.1	239.0	239.7	241.2	750.3	750.4	752.9
New York City	384.1	373.9	377.0	213.6	213.9	215.4	628.4	627.0	629.2
Niagara Falls	24.2	23.6	23.6	3.3	3.6	3.6	17.5	18.5	18.7
Orange County	14.6	14.5	14.8	5.9	6.0	6.0	26.1	27.5	27.7
Poughkeepsie	30.3	29.7	29.7	3.2	3.3	3.2	20.9	23.8	24.2
Rochester	131.4	132.1	131.9	14.3	14.6	14.5	96.3	99.7	100.0
Rockland County	14.9	14.7	14.7	4.0	4.1	4.1	22.0	23.4	23.5
Syracuse	52.8	51.8	51.9	17.6	17.8	17.6	67.6	71.0	71.0
Utica-Rome	24.0	24.2	24.4	4.2	4.5	4.5	25.1	26.2	26.2
Westchester County	66.2	66.3	66.4	20.9	21.1	21.1	95.6	95.6	95.9
North Carolina	845.5	864.7	862.9	137.8	143.4	144.6	625.6	648.7	652.6
Asheville	19.1	19.3	19.2	3.6	3.7	3.7	17.8	18.4	18.4
Charlotte-Gastonia-Rock Hill	152.3	156.4	155.3	47.5	48.5	48.8	134.3	142.5	143.4
Greensboro-Winston-Salem-High Point	152.7	153.1	153.2	26.5	27.6	27.9	100.9	105.0	104.7
Raleigh-Durham	57.5	58.1	58.0	17.2	16.8	16.7	79.7	82.8	83.0
North Dakota	15.3	16.0	16.1	15.9	16.0	16.0	65.2	66.0	66.6
Bismarck	1.9	1.9	1.9	2.6	2.7	2.7	9.4	9.6	9.6
Fargo-Moorhead	4.8	4.9	4.9	4.4	4.7	4.8	20.2	20.6	20.7
Grand Forks	1.7	1.8	1.8	1.6	1.5	1.5	8.0	8.1	8.1
Ohio	1,086.6	1,092.4	1,088.6	202.5	202.3	204.6	1,062.7	1,088.8	1,095.1
Akron	66.0	66.6	67.0	12.8	12.7	12.8	64.1	64.8	65.0
Cincinnati	142.2	144.5	137.9	34.0	35.1	36.0	165.1	169.8	170.6
Cleveland	199.3	201.8	201.8	40.6	39.5	39.9	208.7	214.1	214.8
Columbus	103.4	101.4	101.6	27.4	27.8	27.9	162.5	169.1	169.9
Dayton-Springfield	103.3	101.9	102.3	15.2	15.2	15.4	94.0	96.5	97.2
Toledo	61.9	61.8	61.8	13.1	13.4	13.6	66.5	69.8	70.3
Youngstown-Warren	49.6	49.2	49.7	7.5	7.5	7.5	46.5	48.3	48.8
Oklahoma	154.0	154.8	154.2	63.0	61.1	61.4	266.0	259.8	261.0
Enid	1.6	1.6	1.6	2.2	2.1	2.1	6.3	6.2	6.2
Lawton	3.4	3.3	3.4	1.5	1.2	1.2	8.6	8.4	8.1
Oklahoma City	46.7	46.7	46.9	19.8	19.0	19.1	99.4	97.8	98.2
Tulsa	47.2	47.3	47.4	23.1	23.6	23.6	69.1	68.6	69.1
Oregon	195.4	204.8	204.0	57.2	58.7	58.6	265.2	279.1	280.8
Eugene-Springfield	18.8	19.3	19.5	4.1	4.2	4.2	25.6	26.3	26.4
Portland	91.6	95.9	96.1	34.0	34.9	35.0	140.4	146.5	146.9
Salem	11.8	12.2	12.3	2.8	2.9	2.9	20.6	21.5	21.5
Pennsylvania	1,030.9	1,044.7	1,045.0	242.5	243.6	245.7	1,088.4	1,110.1	1,112.7
Allentown-Bethlehem	78.0	75.7	76.0	14.0	13.8	13.8	59.2	59.9	60.2
Alltoona	11.0	11.1	11.1	4.5	4.6	4.6	12.5	12.7	13.0
Beaver County	9.6	9.5	9.6	5.1	5.1	5.1	10.9	10.7	10.8
Erie	33.9	34.9	34.6	4.0	3.8	3.8	22.8	22.8	22.9
Harrisburg-Lebanon-Carlisle	50.5	52.6	51.8	17.9	17.9	18.1	64.4	66.9	67.1
Johnstown	12.6	12.9	13.2	5.1	5.1	5.1	15.7	15.9	16.0
Lancaster	59.3	59.4	59.4	7.1	6.7	6.8	41.3	42.7	43.0
Philadelphia PMSA	372.6	374.6	374.3	97.2	97.4	97.4	484.4	500.8	501.6
Philadelphia City	96.2	95.4	95.5	44.3	44.9	45.6	144.9	148.1	148.6
Pittsburgh	122.5	124.3	125.3	44.3	42.7	43.4	208.9	209.9	211.3

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
New Mexico	26.6	27.0	27.1	121.6	123.4	124.3	141.5	142.2	142.7
Albuquerque	14.4	14.6	14.8	63.4	64.2	64.4	46.0	46.9	47.1
Las Cruces	1.6	1.6	1.6	6.3	6.7	6.7	17.7	16.7	16.9
Santa Fe	2.0	2.0	2.0	13.6	14.3	14.4	22.0	22.3	22.1
New York	778.4	794.9	792.4	2,165.4	2,232.7	2,247.4	1,411.0	1,432.8	1,447.5
Albany-Schenectady-Troy	21.8	22.9	22.7	97.9	102.7	103.2	110.1	111.9	112.6
Binghamton	4.0	4.0	4.0	21.2	21.9	22.1	21.4	21.4	21.6
Buffalo	26.0	26.9	27.2	109.0	112.4	113.4	74.2	74.6	75.2
Elmira	1.3	1.4	1.4	9.0	10.0	10.1	6.5	6.4	6.5
Nassau-Suffolk	73.6	76.7	77.0	277.5	284.7	287.8	182.5	186.2	187.5
New York PMSA	574.0	581.7	578.8	1,241.4	1,265.6	1,276.3	662.9	668.0	674.8
New York City	541.5	548.0	544.7	1,102.4	1,123.4	1,132.3	581.6	585.5	592.1
Niagara Falls	1.8	1.9	1.9	15.7	16.4	16.7	12.6	12.8	12.9
Orange County	4.1	4.0	4.0	21.4	22.2	22.1	22.4	22.6	22.8
Poughkeepsie	4.4	4.6	4.6	24.9	25.7	25.8	24.4	25.0	25.2
Rochester	21.1	21.5	21.3	109.2	113.2	112.8	65.4	67.0	67.3
Rockland County	4.9	5.3	5.3	23.3	24.0	24.3	21.0	21.3	21.5
Syracuse	19.0	19.3	19.3	71.5	75.1	73.5	50.7	51.7	51.5
Utica-Rome	6.5	6.8	6.8	25.4	26.7	26.8	29.5	29.6	29.7
Westchester County	27.0	27.7	28.0	110.8	112.9	114.4	56.6	57.5	57.5
North Carolina	122.3	129.2	129.8	475.5	496.4	501.8	451.5	455.3	459.8
Asheville	2.7	2.4	2.5	16.4	17.3	17.8	11.5	11.8	12.1
Charlotte-Gastonia-Rock Hill	35.5	36.6	36.9	102.1	107.9	110.1	62.9	63.5	64.1
Greensboro-Winston-Salem-High Point	22.4	23.0	23.5	79.8	81.8	82.7	52.7	53.7	54.4
Raleigh-Durham	22.2	23.2	23.2	91.4	96.4	97.2	88.4	88.7	89.0
North Dakota	12.4	12.2	12.2	59.7	61.5	61.9	65.9	65.8	65.9
Bismarck	1.7	1.6	1.6	10.5	10.6	10.8	8.5	8.5	8.5
Fargo-Moorhead	4.4	4.6	4.6	18.6	19.5	19.7	14.4	14.9	14.8
Grand Forks	1.1	1.1	1.1	6.5	6.8	6.9	9.5	9.4	9.6
Ohio	238.5	246.4	247.1	1,021.8	1,056.5	1,066.9	701.9	703.7	709.2
Akron	10.4	10.5	10.6	54.9	57.9	58.6	43.9	44.8	45.2
Cincinnati	39.3	41.2	41.3	160.9	171.2	173.4	88.6	89.2	90.0
Cleveland	53.5	55.2	55.4	227.5	235.2	236.9	116.8	117.7	118.0
Columbus	56.2	58.4	58.4	151.9	157.8	159.4	120.9	122.2	123.0
Dayton-Springfield	17.5	17.8	17.9	102.3	106.5	107.4	75.1	73.9	74.3
Toledo	11.1	11.2	11.2	68.8	71.6	72.4	43.1	43.5	44.0
Youngstown-Warren	8.0	8.1	8.1	42.5	43.6	43.9	24.8	24.8	24.8
Oklahoma	59.6	57.0	57.1	229.6	230.8	231.3	252.5	250.9	253.2
Enid	1.0	1.0	1.0	5.3	5.8	5.8	3.6	3.6	3.5
Lawton	1.6	1.5	1.5	5.6	5.7	5.8	11.9	11.9	12.0
Oklahoma City	24.8	24.0	23.8	88.1	89.2	88.5	97.7	96.3	97.0
Tulsa	17.2	16.9	16.9	69.6	68.9	69.4	36.4	36.4	36.1
Oregon	70.7	72.0	72.8	239.0	246.5	249.9	208.5	211.2	212.6
Eugene-Springfield	4.8	4.7	4.7	23.5	24.2	24.4	23.1	23.8	23.8
Portland	46.4	47.2	47.5	134.7	138.8	140.5	78.4	79.2	79.9
Salem	5.4	5.5	5.6	18.6	19.7	19.7	29.7	29.9	30.0
Pennsylvania	287.3	290.6	292.5	1,245.8	1,297.3	1,309.3	694.0	698.3	704.2
Allentown-Bethlehem	11.2	11.5	11.6	62.7	66.0	66.6	29.8	30.1	30.3
Altoona	1.4	1.6	1.6	10.4	10.9	10.9	7.1	7.2	7.3
Beaver County	1.8	1.8	1.7	10.9	11.3	11.5	7.9	8.1	8.1
Erie	5.2	5.4	5.4	25.1	26.8	27.0	13.9	13.8	13.9
Harrisburg-Lebanon-Carlisle	16.6	17.2	17.4	59.4	60.6	61.9	65.6	66.7	67.2
Johnstown	4.7	4.7	4.7	19.3	20.1	20.1	12.8	12.6	12.8
Lancaster	6.5	6.9	7.0	35.3	37.3	37.7	15.5	16.0	16.4
Philadelphia PMSA	161.2	162.1	162.9	597.1	622.4	627.8	300.7	302.8	304.5
Philadelphia City	72.5	73.0	73.2	249.2	259.3	259.5	140.9	143.4	143.4
Pittsburgh	53.2	53.0	53.2	259.3	270.8	273.1	105.6	105.1	106.6

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	Total			Mining			Construction		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Pennsylvania—Continued									
Reading	145.3	148.6	150.9	(²)	(²)	(²)	5.8	6.2	6.4
Scranton—Wilkes-Barre	282.6	288.8	290.8	0.7	0.6	0.6	9.6	9.4	10.0
Williamsport	48.0	51.4	52.0	(²)	(²)	(²)	1.7	1.6	1.7
York	165.8	172.6	173.4	.4	.3	.4	8.9	9.6	10.1
Rhode Island									
Pawtucket—Woonsocket—Attleboro	441.2	445.6	449.4	.1	.1	.1	16.7	17.0	17.9
Providence	130.3	130.2	131.3	.1	.1	.1	4.3	4.4	4.7
	313.0	315.7	318.2	.1	.1	.1	12.3	12.8	13.3
South Carolina									
Charleston	1,366.8	1,409.0	1,423.9	1.6	1.6	1.6	85.2	84.2	88.0
Columbia	181.4	189.6	191.1	(¹)	(¹)	(¹)	12.9	13.4	13.5
Greenville—Spartanburg	221.9	230.0	231.5	(¹)	(¹)	(¹)	13.3	13.7	13.9
	302.3	310.3	311.9	(¹)	(¹)	(¹)	20.0	21.0	21.3
South Dakota									
Rapid City	249.1	250.5	252.9	2.5	2.4	2.4	7.5	7.5	7.8
Sioux Falls	32.9	33.7	34.0	.2	.2	.2	1.8	1.7	1.7
	63.5	63.6	64.3	(¹)	(¹)	(¹)	2.1	2.2	2.4
Tennessee									
Chattanooga	1,967.1	2,029.4	2,042.0	6.8	6.2	6.2	88.3	94.0	96.8
Johnson City—Kingsport—Bristol	187.1	190.6	191.8	.7	.7	.8	7.5	8.4	8.6
Knoxville	157.3	163.2	163.3	.3	.2	.2	5.6	6.6	6.6
Memphis	245.1	245.7	246.2	2.0	1.8	1.8	11.5	10.6	10.7
Nashville	411.6	429.4	435.4	.1	.1	.1	18.3	20.0	21.0
	472.9	462.0	465.2	.6	.5	.5	27.4	25.1	25.4
Texas									
Abilene	6,466.2	6,523.0	6,531.7	179.3	182.1	182.0	348.3	318.1	317.9
Amarillo	49.0	48.9	49.1	2.2	2.1	2.1	2.2	2.0	2.0
Austin	77.2	77.6	77.7	1.4	1.3	1.2	3.6	3.5	3.6
Beaumont—Port Arthur	356.6	351.1	351.5	.8	.8	.8	17.4	15.6	15.3
Brazoria	128.2	126.0	126.5	1.4	1.4	1.4	8.2	7.4	7.5
Brownsville—Harlingen	56.7	57.4	57.9	1.8	1.9	1.9	5.7	5.7	8.0
Bryan—College Station	65.2	66.4	67.1	.1	.1	.1	2.3	2.2	2.3
Corpus Christi	47.6	47.8	47.8	.6	.6	.6	1.9	1.9	2.0
Dallas	124.1	124.6	124.6	4.6	3.8	3.8	6.8	6.0	6.1
El Paso	1,324.4	1,323.1	1,324.0	19.4	18.1	18.2	65.2	53.7	53.0
Ft. Worth—Arlington	183.8	186.8	187.2	.1	.1	.1	9.7	9.3	9.2
Galveston—Texas City	511.0	512.7	513.6	3.6	3.5	3.5	26.0	20.2	20.4
Houston	70.9	70.1	70.2	.5	.6	.6	4.5	3.4	3.7
Killeen—Temple	1,369.0	1,365.9	1,395.9	62.2	62.6	63.7	85.9	80.1	80.5
Laredo	68.8	69.9	70.4	.1	.1	.1	3.7	3.4	3.5
Longview—Marshall	35.1	36.2	35.6	1.7	2.0	2.0	1.3	1.3	1.3
Lubbock	63.5	64.7	65.2	3.6	3.5	3.5	2.9	3.1	3.3
McAllen—Edinburg—Mission	90.8	91.5	92.0	.4	.4	.4	3.4	3.1	3.3
Midland	88.9	90.0	90.8	.8	.9	.9	4.0	3.8	4.0
San Angelo	43.2	44.2	44.2	9.5	9.9	9.9	1.2	1.0	1.0
San Antonio	36.2	36.5	36.5	.4	.4	.4	1.7	1.5	1.5
Sherman—Denison	499.3	505.5	507.5	2.6	2.6	2.7	29.6	28.3	28.0
Texarkana	37.3	37.9	38.2	.1	.1	.1	1.7	1.6	1.7
Waco	44.9	45.4	45.6	.1	.1	.1	1.8	2.1	2.1
Wichita Falls	77.1	78.3	78.5	.1	.1	.1	3.4	3.4	3.5
	49.4	50.0	50.2	1.8	1.9	1.9	1.6	1.7	1.7
Utah									
Provo—Orem	632.6	637.0	641.5	7.6	6.1	8.2	25.0	20.2	20.9
Salt Lake City—Ogden	73.1	76.1	78.6	(¹)	(¹)	(¹)	2.3	1.9	2.2
	441.6	446.7	449.5	2.4	2.8	2.8	17.9	15.3	15.7
Vermont									
Barre—Montpelier	239.7	249.5	249.4	.5	.4	.6	13.0	16.5	16.5
Burlington	32.7	34.4	34.7	.2	.1	.2	1.7	1.9	2.0
	72.1	76.3	76.3	(¹)	(¹)	(¹)	3.7	4.9	4.6

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Pennsylvania-Continued									
Reading	47.7	48.7	48.9	6.6	6.8	6.9	31.7	32.5	32.7
Scranton-Wilkes-Barre	71.0	70.9	70.8	15.0	15.3	15.5	64.1	66.6	67.1
Williamsport	15.3	16.5	16.7	1.8	1.8	1.8	10.8	11.7	11.8
York	57.4	60.7	60.1	7.0	7.4	7.5	39.6	40.7	41.2
Rhode Island									
Pawtucket-Woonsocket-Attleboro	116.2	115.1	115.2	14.7	15.3	15.5	99.8	101.6	102.5
Providence	53.6	53.0	53.1	3.4	3.4	3.5	31.2	31.4	31.7
	73.4	71.8	71.9	11.7	12.0	12.1	68.3	69.1	69.7
South Carolina									
Charleston	367.3	377.8	378.3	57.2	59.3	60.1	293.6	315.3	319.5
Columbia	19.3	19.4	19.9	9.4	10.0	9.9	43.6	46.7	46.8
Greenville-Spartanburg	28.7	29.4	29.2	10.1	10.4	10.5	48.4	50.1	50.4
	98.5	100.8	100.6	11.0	11.5	11.5	68.3	71.2	71.6
South Dakota									
Rapid City	28.0	29.4	29.8	12.3	12.3	12.3	64.5	65.1	65.8
Sioux Falls	3.1	3.1	3.1	1.7	1.8	1.8	9.2	9.5	9.6
	8.1	8.2	8.2	4.5	4.6	4.6	17.3	17.3	17.5
Tennessee									
Chattanooga	491.0	499.0	498.2	100.9	105.3	105.4	460.7	472.9	476.8
Johnson City-Kingsport-Bristol	45.7	46.3	46.6	8.7	8.3	8.3	42.2	44.1	44.3
Knoxville	53.3	53.7	53.7	6.0	6.0	6.0	34.7	35.9	35.8
Memphis	50.4	50.6	50.3	9.5	9.9	9.9	60.6	61.5	61.9
Nashville	51.5	52.3	52.5	38.0	39.7	39.9	113.5	119.2	121.2
	89.4	87.1	87.1	23.4	24.1	24.1	114.4	112.4	112.7
Texas									
Abilene	917.7	938.8	939.9	378.0	384.7	384.0	1,628.7	1,630.9	1,628.1
Amarillo	4.5	4.6	4.6	2.5	2.4	2.4	13.6	13.4	13.5
Austin	9.8	9.9	9.9	5.6	5.8	5.8	22.1	22.2	22.2
Beaumont-Port Arthur	39.6	39.2	39.3	11.0	10.8	10.9	78.6	77.7	77.4
Brazoria	24.6	23.8	23.9	9.7	9.6	9.6	31.2	30.8	30.8
Brownsville-Harlingen	15.4	15.5	15.7	2.3	2.3	2.3	10.9	10.9	11.0
Bryan-College Station	9.7	10.0	10.2	2.9	3.1	3.2	17.5	17.1	17.6
Corpus Christi	3.0	3.2	3.2	1.6	1.6	1.6	10.1	9.5	9.1
Dallas	11.9	11.4	11.2	7.0	6.8	6.8	31.5	32.1	32.4
El Paso	220.3	221.5	221.3	87.7	90.0	90.8	345.4	345.0	344.8
Ft. Worth-Arlington	35.5	37.4	37.4	10.0	10.3	10.3	45.6	46.3	46.4
Galveston-Texas City	112.2	117.2	117.5	28.7	30.7	30.7	134.7	134.0	134.1
Houston	8.6	8.8	8.7	5.7	4.8	4.6	13.7	13.9	14.0
Killeen-Temple	142.9	149.2	149.5	97.3	97.4	98.6	345.2	349.1	350.0
Laredo	8.2	8.0	8.0	2.7	2.7	2.7	15.7	15.9	16.0
Longview-Marshall	1.8	1.7	1.5	4.3	4.8	4.7	10.3	10.3	10.1
Lubbock	14.8	15.6	15.8	3.1	3.1	3.1	16.2	16.6	16.6
McAllen-Edinburg-Mission	7.3	7.3	7.4	4.9	5.0	5.0	26.4	27.0	27.1
Midland	12.1	11.4	12.0	3.1	2.7	2.9	26.9	27.2	27.1
San Angelo	2.8	2.9	2.8	2.1	2.1	2.2	9.9	10.0	10.1
San Antonio	5.6	5.5	5.7	3.2	3.1	3.1	9.5	9.6	9.5
Sherman-Denison	46.0	46.2	46.6	18.4	17.9	18.0	127.9	131.2	130.9
Texarkana	11.0	11.2	11.2	2.1	2.0	2.0	8.1	8.2	8.2
Waco	7.2	7.4	7.3	1.9	1.7	1.7	10.7	10.6	10.6
Wichita Falls	14.5	15.1	14.6	3.2	3.3	3.3	18.9	19.1	19.2
	8.4	8.1	8.1	2.6	2.6	2.6	11.8	12.2	12.2
Utah									
Provo-Orem	89.9	93.5	93.8	37.4	38.0	37.9	150.2	148.2	149.3
Salt Lake City-Ogden	10.0	12.5	12.4	2.6	2.9	2.9	15.1	16.2	16.2
	61.2	81.4	62.0	28.7	29.2	29.2	110.5	111.3	111.9
Vermont									
Barre-Montpelier	48.8	48.9	49.1	9.8	10.4	10.5	54.4	57.0	57.0
Burlington	4.5	4.5	4.7	.8	.9	.9	6.9	7.3	7.3
	16.2	16.7	16.8	2.8	2.9	2.9	16.7	17.5	17.6

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Pennsylvania—Continued									
Reading	7.5	7.6	7.7	29.1	30.0	30.7	16.9	16.8	17.6
Scranton—Wilkes-Barre	12.1	12.8	12.9	68.0	71.2	72.0	42.1	42.0	41.9
Williamsport	2.2	2.3	2.3	9.5	10.2	10.4	6.7	7.3	7.3
York	4.8	5.0	5.1	29.5	30.7	30.8	18.2	18.2	18.2
Rhode Island									
Pawtucket—Woonsocket—Attleboro	25.2	25.4	25.7	110.4	112.0	113.5	58.1	59.1	59.0
Providence	3.6	3.6	3.6	23.8	24.1	24.4	10.3	10.2	10.2
	21.1	21.4	21.6	81.5	83.6	84.6	44.6	44.9	44.9
South Carolina									
Charleston	64.3	64.1	64.9	234.1	244.3	249.0	263.3	262.4	264.5
Columbia	8.1	8.3	8.3	38.5	40.5	41.1	49.5	51.2	51.5
Greenville—Spartanburg	18.0	18.2	18.2	41.9	44.3	44.7	61.2	63.6	64.2
	11.8	12.0	12.0	50.4	54.0	54.8	42.1	39.5	39.8
South Dakota									
Rapid City	14.2	14.1	14.1	60.3	60.2	60.9	59.8	59.5	59.8
Sioux Falls	1.7	1.7	1.7	8.4	8.8	8.9	6.7	6.9	6.9
	6.2	6.1	6.2	17.8	17.8	18.1	7.4	7.3	7.3
Tennessee									
Chattanooga	99.7	101.5	101.3	395.5	413.0	418.4	324.1	337.5	338.9
Johnson City—Kingsport—Bristol	11.7	11.7	11.6	37.0	37.0	37.4	33.5	34.1	34.2
Knoxville	5.2	5.4	5.4	27.7	31.0	31.1	24.5	24.4	24.5
Memphis	9.2	9.4	9.5	50.4	49.8	50.3	51.5	52.1	51.8
Nashville	23.8	25.0	24.9	95.6	98.6	100.0	70.8	74.5	75.8
	33.0	33.4	33.3	117.0	111.6	113.5	67.6	67.8	68.6
Texas									
Abilene	443.9	437.4	437.6	1,415.2	1,457.1	1,464.5	1,157.1	1,173.9	1,177.7
Amarillo	2.6	2.6	2.6	13.1	13.1	13.1	8.3	8.7	8.8
Austin	4.6	4.6	4.5	16.0	16.0	16.2	14.1	14.3	14.3
Beaumont—Port Arthur	25.4	24.7	24.8	84.4	83.3	83.8	99.4	99.0	99.2
Brazoria	5.2	5.2	5.2	27.7	27.4	27.7	20.2	20.4	20.4
Brownsville—Harlingen	2.1	2.0	2.0	7.5	7.9	7.9	11.0	11.2	11.1
Bryan—College Station	3.5	3.5	3.6	13.0	13.8	13.7	16.2	16.6	16.4
Corpus Christi	1.8	1.7	1.7	8.0	8.3	8.5	20.6	21.0	21.1
Dallas	6.8	7.0	6.9	28.1	29.3	29.2	27.4	28.2	28.2
El Paso	132.9	128.2	129.0	303.3	316.2	315.8	150.2	150.4	151.1
Ft. Worth—Arlington	9.4	9.4	9.4	34.2	34.7	35.0	39.4	39.3	39.4
Galveston—Texas City	27.8	27.1	27.1	111.7	111.8	112.0	66.3	68.2	68.3
Houston	4.2	4.1	4.1	12.8	13.8	13.9	20.9	20.7	20.6
Killeen—Temple	101.8	96.3	96.9	346.6	362.4	367.6	187.1	188.6	189.1
Laredo	3.0	3.0	3.0	14.8	15.2	15.5	20.6	21.6	21.6
Longview—Marshall	1.6	1.7	1.7	5.8	6.0	5.9	8.3	8.4	8.4
Lubbock	3.3	2.7	2.7	11.2	11.6	11.7	8.4	8.5	8.5
McAllen—Edinburg—Mission	5.3	5.3	5.3	21.2	21.7	22.0	21.9	21.7	21.5
Midland	3.8	3.8	3.7	14.0	14.6	14.7	24.2	25.6	25.5
San Angelo	2.7	2.5	2.5	8.6	8.7	8.7	6.4	7.1	7.0
San Antonio	1.8	1.8	1.8	7.4	7.8	7.7	6.6	6.8	6.8
Sherman—Denison	39.6	39.9	40.0	119.5	122.3	124.0	115.7	117.1	117.3
Texarkana	1.7	1.8	1.8	7.5	8.7	8.8	5.1	4.3	4.4
Waco	1.8	1.9	1.9	8.9	9.3	9.5	12.5	12.3	12.4
Wichita Falls	4.8	4.7	4.7	19.8	20.1	20.6	12.4	12.5	12.5
	2.3	2.3	2.3	11.3	11.5	11.7	9.6	9.7	9.7
Utah									
Provo—Orem	33.7	33.4	33.9	144.2	152.1	153.6	144.7	143.5	143.9
Salt Lake City—Ogden	2.3	2.3	2.3	27.2	28.5	28.7	13.7	13.8	14.1
	27.5	27.7	28.2	97.9	104.0	104.8	95.6	95.0	94.9
Vermont									
Barre—Montpelier	11.8	12.0	11.9	61.2	63.7	62.8	40.2	40.6	41.0
Burlington	3.0	3.0	3.0	7.4	8.3	8.3	8.2	8.4	8.3
	3.5	3.7	3.7	17.4	18.7	18.6	11.8	11.9	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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Virginia	2,622.3	2,709.9	2,737.4	15.6	15.6	15.2	172.2	175.3	181.0
Bristol	30.7	32.2	32.3	.1	.1	.1	.8	.8	.8
Charlottesville	63.7	67.3	67.5	.1	.1	.1	3.4	3.4	3.6
Danville	39.2	39.9	40.1	.1	.1	.1	1.4	1.6	1.7
Lynchburg	71.2	71.7	72.5	.1	.1	.1	3.1	3.2	3.2
Norfolk-Virginia Beach-Newport News	539.5	552.7	558.1	.1	.1	.1	38.4	36.9	37.8
Northern Virginia	690.5	725.0	733.5	.5	.5	.5	46.9	51.5	53.3
Richmond-Petersburg	431.3	443.4	447.7	.5	.5	.5	26.7	28.4	29.2
Roanoke	118.1	117.4	118.4	.2	.2	.2	6.9	6.9	7.3
Washington	1,792.2	1,858.2	1,874.7	2.8	3.1	3.3	80.1	83.4	86.9
Seattle	907.4	952.2	960.6	.5	.6	.6	43.8	47.5	48.7
West Virginia	588.2	591.2	594.6	36.3	34.5	34.2	19.9	18.5	20.0
Charleston	105.1	104.3	104.6	2.2	2.0	2.0	3.7	3.1	3.3
Huntington-Ashland	100.9	101.3	101.4	1.1	1.3	1.3	4.0	3.3	3.5
Parkersburg-Marietta	57.9	58.8	59.2	.6	.6	.6	2.3	2.2	2.4
Wheeling	56.4	57.6	57.6	2.2	2.3	2.0	1.6	1.5	1.7
Wisconsin	2,027.3	2,084.3	2,091.3	1.5	1.4	1.6	58.6	60.0	61.8
Appleton-Oshkosh-Neenah	139.3	144.9	146.1	(¹)	(¹)	(¹)	5.0	6.3	5.9
Eau Claire	54.3	56.1	56.4	(¹)	(¹)	(¹)	1.3	1.3	1.4
Green Bay	92.0	94.9	95.4	(¹)	(¹)	(¹)	3.2	2.7	2.8
Janesville-Beloit	53.3	54.6	55.2	(¹)	(¹)	(¹)	1.3	1.1	1.0
Kenosha	39.3	42.0	41.1	(¹)	(¹)	(¹)	1.2	.6	.7
La Crosse	50.0	51.8	51.6	(¹)	(¹)	(¹)	1.2	1.2	1.1
Madison	193.8	199.2	201.4	(¹)	(¹)	(¹)	5.8	7.2	7.3
Milwaukee	684.2	701.9	702.6	(¹)	(¹)	(¹)	20.0	19.6	20.5
Racine	68.8	70.1	70.5	(¹)	(¹)	(¹)	1.6	1.5	1.6
Wausau	43.9	45.7	46.3	(¹)	(¹)	(¹)	1.4	1.2	1.2
Wyoming	174.7	173.3	173.2	16.5	17.2	17.0	8.8	7.1	7.2
Puerto Rico	743.6	766.5	769.3	.9	.8	.8	33.0	35.8	35.9
Caguas	48.3	50.6	50.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	54.1	54.3	55.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	48.7	49.6	50.0	.1	.2	.2	2.7	3.3	3.4
San Juan	458.7	475.2	476.2	.5	.5	.4	24.9	26.7	26.7
Virgin Islands	39.4	40.6	40.8	(¹)	(¹)	(¹)	1.8	2.2	2.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Virginia	425.8	426.2	423.7	139.2	143.1	144.1	589.7	620.2	628.0
Bristol	10.4	10.7	10.8	1.1	1.1	1.1	7.5	8.1	8.1
Charlottesville	8.1	8.7	8.5	2.2	2.3	2.3	12.3	13.8	13.7
Danville	16.8	16.6	16.4	1.0	1.0	1.0	7.9	8.4	8.7
Lynchburg	23.8	23.3	23.4	2.8	2.8	2.8	14.2	14.6	14.9
Norfolk-Virginia Beach-Newport News	66.9	68.6	68.5	25.4	25.3	25.5	130.6	134.4	135.8
Northern Virginia	35.2	35.3	35.4	48.3	50.5	51.3	156.9	165.2	166.6
Richmond-Petersburg	62.2	62.5	62.7	22.4	23.2	23.4	103.9	107.0	107.9
Roanoke	20.1	19.2	19.3	8.9	8.6	8.5	31.9	31.7	31.8
Washington	306.1	321.9	324.2	95.0	99.2	99.6	435.6	449.3	452.2
Seattle	177.9	189.9	190.9	56.7	58.9	59.2	220.6	230.3	231.3
West Virginia	85.4	84.8	84.7	36.1	36.2	36.1	134.9	139.2	140.5
Charleston	11.5	10.8	10.8	8.4	8.5	8.5	27.5	27.7	27.7
Huntington-Ashland	18.9	19.2	18.9	7.7	7.6	7.6	25.7	26.1	26.2
Parkersburg-Marietta	13.7	13.8	13.9	2.1	2.1	2.1	14.2	14.2	14.2
Wheeling	6.4	7.0	7.0	3.1	3.2	3.2	15.3	15.7	15.9
Wisconsin	512.0	533.3	534.9	91.9	93.8	94.3	473.5	490.0	491.2
Appleton-Oshkosh-Neenah	48.7	50.8	51.4	5.1	5.2	5.3	30.0	30.5	30.6
Eau Claire	10.1	10.1	10.3	3.4	3.5	3.6	15.3	16.1	15.8
Green Bay	23.8	24.5	24.3	6.1	6.1	6.3	24.4	25.2	25.3
Janesville-Beloit	16.9	17.7	17.8	2.4	2.4	2.4	13.0	13.0	13.2
Kenosha	12.4	15.1	14.6	1.3	1.3	1.3	8.6	6.7	8.1
La Crosse	10.6	11.0	11.0	2.4	2.4	2.4	13.4	14.2	14.3
Madison	21.7	22.5	23.0	6.9	7.1	7.2	43.1	44.7	45.3
Milwaukee	168.0	172.6	172.8	34.2	34.9	35.1	154.6	159.6	158.9
Racine	24.4	24.8	24.6	2.2	2.2	2.3	16.0	16.6	17.1
Wausau	11.8	12.7	13.0	2.6	2.8	2.9	10.7	11.1	11.1
Wyoming	7.6	7.8	7.7	12.8	12.6	12.6	38.9	38.7	38.5
Puerto Rico	149.2	153.6	155.8	16.9	15.2	15.1	131.8	137.5	137.3
Caguas	15.2	15.6	15.3	(¹)	(¹)	(¹)	9.0	9.4	9.3
Mayaguez	19.9	19.0	20.1	(¹)	(¹)	(¹)	7.5	7.9	7.8
Ponce	9.7	8.9	9.3	(¹)	(¹)	(¹)	7.6	7.7	7.6
San Juan	64.0	65.9	66.3	13.4	12.2	12.1	90.9	97.0	97.2
Virgin Islands	2.0	2.2	2.2	2.6	2.6	2.7	9.3	9.6	9.7

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Virginia	140.0	145.2	145.9	608.8	641.2	652.6	531.1	543.1	546.7
Bristol	1.1	1.3	1.3	4.6	5.0	5.0	5.1	5.1	5.1
Charlottesville	3.4	3.6	3.8	11.1	11.5	11.5	23.1	23.9	24.2
Danville	1.2	1.2	1.2	5.7	5.7	5.7	5.1	5.3	5.3
Lynchburg	3.7	3.9	3.9	14.3	14.1	14.2	9.2	9.7	10.0
Norfolk-Virginia Beach-Newport News	25.9	27.0	27.0	124.4	132.3	134.7	127.8	128.1	128.7
Northern Virginia	44.9	47.8	48.2	216.2	231.2	234.2	139.6	143.0	144.0
Richmond-Petersburg	35.4	36.1	35.6	89.8	93.8	95.5	90.5	91.9	92.9
Roanoke	8.0	8.3	8.4	27.0	27.3	27.6	15.1	15.2	15.3
Washington	106.0	106.4	107.1	407.5	431.9	436.9	359.1	363.0	364.5
Seattle	67.3	67.0	67.5	209.8	226.6	230.2	130.6	131.4	132.2
West Virginia	23.5	24.4	24.4	122.0	123.1	123.2	130.1	130.5	131.5
Charleston	5.9	6.0	6.0	24.7	25.1	25.1	21.2	21.1	21.2
Huntington-Ashland	3.9	3.8	3.8	19.7	21.1	21.2	19.9	18.9	18.9
Parkersburg-Marietta	2.2	2.3	2.3	13.0	13.7	13.6	9.8	9.9	10.1
Wheeling	2.6	2.7	2.7	15.9	15.7	15.8	9.3	9.5	9.5
Wisconsin	110.4	112.3	112.4	444.1	458.5	459.0	335.3	335.0	336.2
Appleton-Oshkosh-Neenah	7.0	7.3	7.4	26.5	27.8	28.1	16.8	17.0	17.2
Eau Claire	1.9	1.9	1.9	11.5	12.0	12.1	10.9	11.2	11.2
Green Bay	3.3	3.5	3.4	20.2	21.7	22.0	10.9	11.1	11.3
Janesville-Beloit	1.6	1.6	1.8	11.3	12.0	12.2	6.8	6.8	6.8
Kenosha	1.2	1.3	1.3	8.2	8.4	8.4	6.4	6.5	6.6
La Crosse	1.4	1.4	1.4	13.3	13.9	13.8	7.7	7.6	7.6
Madison	17.2	17.7	17.7	41.9	43.1	43.6	57.0	56.7	57.3
Milwaukee	47.7	48.9	48.7	177.0	182.9	183.5	82.5	83.2	83.0
Racine	2.2	2.3	2.2	14.0	14.3	14.3	8.2	8.4	8.3
Wausau	3.4	3.4	3.4	7.8	8.2	8.4	6.2	6.3	6.3
Wyoming	7.5	7.2	7.2	30.7	30.8	30.8	51.7	51.9	52.2
Puerto Rico	34.3	35.8	35.9	109.2	113.9	114.4	268.4	273.9	274.2
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	15.2	15.5	15.5
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	18.0	18.5	18.5
Ponce	(¹)	(¹)	(¹)	9.3	9.5	9.5	16.3	16.9	16.9
San Juan	28.0	29.2	29.3	78.8	81.2	81.7	158.2	162.5	162.7
Virgin Islands	1.7	1.7	1.7	9.3	9.6	9.7	12.7	12.7	12.8

¹ Not available.
² Combined with construction.
^P = preliminary.

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

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Total private ¹			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986	34.8	8.76	304.85	42.2	12.44	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:									
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	34.5	9.18	316.71	41.7	12.61	525.84	36.2	12.77	462.27
March ²	34.5	9.19	317.06	41.6	12.50	520.00	37.5	12.83	481.13
April ³	34.8	9.22	320.86	42.6	12.44	529.94	38.0	12.83	487.54

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:										
April	40.4	\$9.87	\$9.48	\$398.75	38.8	\$11.94	\$463.27	38.1	\$9.53	\$363.09
May	40.9	9.87	9.45	403.68	39.0	11.95	466.05	38.3	9.57	366.53
June	41.1	9.87	9.44	405.66	39.1	11.91	465.68	38.4	9.57	367.49
July	40.6	9.87	9.46	400.72	39.4	12.00	472.80	38.3	9.57	366.53
August	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	40.7	10.06	9.63	409.44	38.9	12.18	473.80	38.0	9.80	372.40
March ²	41.0	10.07	9.64	412.87	38.7	12.12	469.04	38.0	9.78	371.64
April ³	41.0	10.12	9.67	414.92	38.9	12.09	470.30	38.3	9.88	378.40

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986	29.2	6.03	176.08	36.4	8.35	303.94	32.5	8.16	265.20
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:									
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	28.6	6.24	178.46	36.4	9.06	329.78	32.7	8.79	287.43
March ^p	28.7	6.25	179.38	35.8	9.01	322.56	32.3	8.79	283.92
April ^p	29.0	6.27	181.83	36.2	9.03	326.89	32.6	8.81	287.21

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a
Total private		34.6	34.6	34.5	34.5	34.8					
Mining		41.8	41.8	41.7	41.6	42.6					
Metal mining	10	41.8	41.7	42.9	42.6						
Iron ores	101	40.4	40.1	41.9	41.3						
Copper ores	102	42.6	43.3	43.7	44.2						
Coal mining	11,12	42.0	40.9	41.6	41.8						
Bituminous coal and lignite mining	12	42.1	41.0	41.7	41.9						
Oil and gas extraction	13	41.0	41.3	41.3	40.7						
Crude petroleum, natural gas, and natural gas liquids	131,2	39.9	40.4	41.4	40.3						
Oil and gas field services	138	41.8	41.8	41.3	40.8						
Nonmetallic minerals, except fuels	14	44.0	44.6	42.6	44.1						
Crushed and broken stone	142	45.2	45.4	42.7	45.4						
Construction		37.4	37.4	36.2	37.5	38.0					
General building contractors	15	37.4	37.3	36.3	37.4						
Residential building construction	152	36.6	36.8	35.6	36.6						
Operative builders	153	37.2	38.1	37.5	38.3						
Nonresidential building construction	154	38.1	37.8	37.0	38.2						
Heavy construction contractors	16	41.0	40.7	39.2	41.0						
Highway and street construction	161	40.2	40.3	38.0	40.5						
Heavy construction, except highway	162	41.4	40.9	39.8	41.3						
Special trade contractors	17	36.5	36.5	35.3	36.6						
Plumbing, heating, and air conditioning	171	37.8	37.7	36.9	37.8						
Painting, paper hanging, and decorating	172	35.5	35.7	34.0	35.1						
Electrical work	173	38.5	38.2	37.6	38.8						
Masonry, stonework, and plastering	174	34.4	34.4	33.3	35.1						
Carpentering and flooring	175	35.4	34.5	34.0	35.0						
Roofing and sheet metal work	176	32.1	32.8	30.9	33.8						
Manufacturing		40.9	40.4	40.7	41.0	41.0	3.6	3.3	3.6	3.6	3.7
Durable goods		41.6	41.1	41.3	41.6	41.7	3.7	3.4	3.7	3.8	4.0
Lumber and wood products	24	40.7	40.6	39.8	39.9	40.3	3.7	3.6	3.2	3.2	
Logging camps and logging contractors	241	40.2	40.0	40.2	39.4	-	4.0	3.8	4.4	3.7	
Sawmills and planing mills	242	41.8	41.6	41.5	41.3		4.5	4.4	4.1	4.1	
Sawmills and planing mills, general	2421	41.8	42.0	41.9	41.6		4.6	4.7	4.4	4.4	
Hardwood dimension and flooring	2426	41.8	40.4	40.0	40.0		4.2	3.4	3.0	2.9	
Millwork, plywood, and structural members	243	41.0	41.0	39.4	39.4		3.6	3.5	2.6	2.8	
Millwork	2431	41.4	41.1	38.9	39.0		3.1	2.8	1.9	2.1	
Wood kitchen cabinets	2434	40.0	40.3	37.3	38.1		3.1	3.3	1.8	2.2	
Hardwood veneer and plywood	2435	41.2	40.8	41.1	40.9		4.1	4.0	3.7	3.7	
Softwood veneer and plywood	2436	42.4	42.6	43.5	41.6		5.1	5.0	4.8	4.7	
Wood containers	244	38.6	38.0	38.2	38.4	-	2.7	2.8	3.0	3.1	
Wood buildings and mobile homes	245	37.9	38.4	35.6	37.7	-	2.2	2.1	1.2	1.8	
Mobile homes	2451	37.6	37.9	34.8	37.0	-	1.9	1.8	.8	1.4	-
Miscellaneous wood products	249	40.5	40.0	39.9	40.4	-	3.5	3.2	2.9	3.0	
Furniture and fixtures	25	39.8	38.8	39.0	39.1	39.0	2.6	2.2	2.4	2.3	
Household furniture	251	39.9	38.8	39.1	39.0	-	2.7	2.3	2.4	2.2	-
Wood household furniture	2511	40.3	39.2	39.6	39.3	-	2.8	2.5	2.6	2.4	
Upholstered household furniture	2512	39.1	37.9	37.9	37.8	-	2.2	1.8	1.7	1.5	
Metal household furniture	2514	42.4	40.8	41.5	42.3	-	4.5	3.6	3.6	3.8	-
Mattresses and bedsprings	2515	38.7	37.4	38.2	38.7	-	2.8	1.9	2.2	2.3	
Office furniture	252	40.2	39.0	39.9	39.7	-	2.3	2.1	2.1	2.0	
Public building and related furniture	253	39.3	39.3	39.5	40.1	-	2.3	2.4	3.2	3.6	
Partitions and fixtures	254	39.4	39.0	38.9	39.2	-	2.4	2.0	2.7	2.7	
Miscellaneous furniture and fixtures	259	40.0	38.4	37.0	37.6	-	2.6	2.1	1.6	1.9	
Stone, clay, and glass products	32	42.0	42.1	41.3	42.0	42.6	4.7	4.9	4.5	4.8	
Flat glass	321	45.5	45.7	45.9	45.0	-	6.2	6.5	7.8	6.8	
Glass and glassware, pressed or blown	322	41.6	41.3	41.5	41.6		4.5	4.5	4.5	4.5	

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a
Total private		\$8.92	\$8.91	\$9.18	\$9.19	\$9.22	\$308.63	\$308.29	\$316.71	\$317.06	\$320.86
Mining		12.51	12.43	12.61	12.50	12.44	522.92	519.57	525.84	520.00	529.94
Metal mining	10	13.04	13.16	13.13	13.14		545.07	548.77	563.28	559.76	
Iron ores	101	15.25	15.25	14.33	14.34		616.10	611.53	600.43	592.24	
Copper ores	102	11.36	11.49	11.71	11.75		483.94	497.52	511.73	519.35	
Coal mining	11,12	15.59	15.52	15.92	15.77		654.78	634.77	662.27	659.19	
Bituminous coal and lignite mining	12	15.65	15.58	15.96	15.82		658.87	638.78	665.53	662.86	
Oil and gas extraction	13	11.49	11.47	11.54	11.47		471.09	473.71	476.60	466.83	
Crude petroleum, natural gas, and natural gas liquids	131,2	14.01	13.93	14.24	14.27		559.00	562.77	589.54	575.08	
Oil and gas field services	138	10.01	10.00	10.13	10.04		418.42	418.00	418.37	409.63	
Nonmetallic minerals, except fuels	14	10.48	10.52	10.82	10.77		461.12	469.19	460.93	474.96	
Crushed and broken stone	142	9.78	9.83	10.03	10.15		442.06	446.28	428.28	460.81	
Construction		12.59	12.55	12.77	12.83	12.83	470.87	469.37	462.27	481.13	487.54
General building contractors	15	11.57	11.58	12.01	12.06		432.72	431.93	435.96	451.04	
Residential building construction	152	10.91	10.92	11.46	11.50		399.31	401.86	407.98	420.90	
Operative builders	153	10.07	10.12	11.05	10.99		374.60	385.57	414.38	420.92	
Nonresidential building construction	154	12.34	12.38	12.65	12.71		470.15	467.96	468.05	485.52	
Heavy construction contractors	16	11.80	11.85	11.84	11.89		483.80	482.30	464.13	487.49	
Highway and street construction	161	11.23	11.52	11.77	11.73		451.45	464.26	447.26	475.07	
Heavy construction, except highway	162	12.07	12.03	11.87	11.97		499.70	492.03	472.43	494.36	
Special trade contractors	17	13.25	13.16	13.34	13.42		483.63	480.34	470.90	491.17	
Plumbing, heating, and air conditioning	171	13.46	13.44	13.47	13.61		508.79	506.69	497.04	514.46	
Painting, paper hanging, and decorating	172	12.42	12.40	12.72	12.65		440.91	442.68	432.48	444.02	
Electrical work	173	14.67	14.58	14.51	14.70		564.80	556.96	545.58	570.36	
Masonry, stonework, and plastering	174	13.31	13.28	13.34	13.48		457.86	456.83	444.22	473.15	
Carpentering and flooring	175	12.53	12.58	12.76	12.89		443.56	434.01	433.84	451.15	
Roofing and sheet metal work	176	11.38	11.38	11.79	11.83		365.30	373.26	364.31	399.85	
Manufacturing		9.85	9.87	10.06	10.07	10.12	402.87	398.75	409.44	412.87	414.92
Durable goods		10.39	10.39	10.60	10.61	10.66	432.22	427.03	437.78	441.38	444.52
Lumber and wood products	24	8.28	8.34	8.54	8.46	8.48	337.00	338.60	339.89	337.55	341.74
Logging camps and logging contractors	241	10.47	10.74	10.70	10.51	-	420.89	429.60	430.14	414.09	-
Sawmills and planing mills	242	8.40	8.54	8.66	8.61		351.12	355.26	359.39	355.59	
Sawmills and planing mills, general	2421	8.76	8.91	9.02	8.96		366.17	374.22	377.94	372.74	
Hardwood dimension and flooring	2426	6.68	6.74	6.96	6.94		279.22	272.30	278.40	277.60	
Millwork, plywood, and structural members	243	8.30	8.30	8.61	8.59		340.30	340.30	339.23	338.45	
Millwork	2431	8.66	8.57	8.97	8.93		358.52	352.23	348.93	348.27	
Wood kitchen cabinets	2434	7.56	7.65	7.75	7.77		302.40	308.30	289.08	296.04	
Hardwood veneer and plywood	2435	6.81	6.79	6.95	6.94		280.57	277.03	285.65	283.85	
Softwood veneer and plywood	2436	9.60	9.70	10.01	10.09		407.04	413.22	435.44	419.74	
Wood containers	244	6.02	6.07	6.28	6.22	-	232.37	230.66	239.90	238.85	-
Wood buildings and mobile homes	245	7.89	7.87	7.93	7.98	-	299.03	302.21	282.31	300.85	-
Mobile homes	2451	7.95	7.96	7.91	8.03	-	298.92	301.68	275.27	297.11	-
Miscellaneous wood products	249	7.24	7.26	7.29	7.22	-	293.22	290.40	290.87	291.69	-
Furniture and fixtures	25	7.58	7.58	7.75	7.78	7.81	301.68	294.10	302.25	304.20	304.59
Household furniture	251	7.03	6.99	7.17	7.19	-	280.50	271.21	280.35	280.41	-
Wood household furniture	2511	6.52	6.51	6.73	6.75	-	262.76	255.19	266.51	265.28	-
Upholstered household furniture	2512	7.75	7.68	7.85	7.92	-	303.03	291.07	297.52	297.79	-
Metal household furniture	2514	6.92	6.85	6.86	6.85	-	293.41	279.48	284.69	289.76	-
Mattresses and bedsprings	2515	7.54	7.43	7.58	7.50	-	291.80	277.88	289.56	290.25	-
Office furniture	252	8.55	8.64	8.91	8.95	-	343.71	336.96	355.51	355.32	-
Public building and related furniture	253	7.94	8.02	8.08	8.04	-	312.04	315.19	319.16	322.40	-
Partitions and fixtures	254	9.05	9.10	9.21	9.26	-	356.57	354.90	358.27	362.99	-
Miscellaneous furniture and fixtures	259	7.96	8.02	8.24	8.26	-	318.40	307.97	304.88	310.58	-
Stone, clay, and glass products	32	10.13	10.23	10.35	10.37	10.40	425.46	430.68	427.46	435.54	443.04
Flat glass	321	14.31	14.34	15.04	14.85	-	651.11	655.34	690.34	668.25	-
Glass and glassware, pressed or blown	322	11.13	11.44	11.49	11.51	-	463.01	472.47	476.84	478.82	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a
		Durable goods—Continued									
Stone, clay, and glass products—Continued											
Glass containers	3221	42.0	41.9	41.0	41.2		5.5	5.5	5.1	5.1	
Pressed and blown glass, nec	3229	41.2	40.7	42.0	42.0		3.5	3.3	3.8	3.9	
Products of purchased glass	323	41.6	41.3	41.0	42.0		3.7	3.6	3.2	3.3	
Cement, hydraulic	324	41.7	41.5	43.2	42.8		3.5	3.5	4.5	4.2	
Structural clay products	325	42.4	42.0	41.8	41.7		4.2	4.1	4.3	4.3	
Pottery and related products	326	40.1	39.9	41.0	40.6		2.7	2.8	3.4	3.2	
Concrete, gypsum, and plaster products	327	42.6	43.3	40.2	42.1		5.8	6.3	4.8	5.9	
Concrete block and brick	3271	44.8	46.0	42.0	44.2		7.7	8.4	5.8	7.2	
Concrete products, nec	3272	42.7	42.6	41.5	42.5		5.3	5.3	5.0	5.6	
Ready-mixed concrete	3273	41.1	42.3	37.8	40.6		5.3	6.2	4.0	5.4	
Misc. nonmetallic mineral products	329	42.1	41.7	42.4	42.5		4.6	4.2	4.9	4.6	
Abrasive products	3291	41.5	40.1	42.6	43.1		3.4	2.6	3.8	4.1	
Asbestos products	3292	43.7	43.4	43.6	43.0		5.8	6.0	5.3	4.2	
Primary metal industries											
Blast furnaces and basic steel products	331	42.6	42.9	43.9	43.7	43.6	4.5	4.5	5.6	5.3	
Blast furnaces and steel mills	3312	42.4	42.9	44.3	44.0	-	4.4	4.5	5.8	5.5	
Steel pipe and tubes	3317	43.2	42.7	42.8	42.7		4.8	4.4	5.4	5.0	
Iron and steel foundries	332	42.7	42.1	43.3	43.7		4.7	4.5	5.2	5.5	
Gray iron foundries	3321	42.7	41.8	43.3	43.6		5.2	4.8	5.6	5.8	
Malleable iron foundries	3322	41.2	41.8	42.0	42.3		3.6	3.2	3.8	4.6	
Steel foundries, nec	3325	41.8	41.5	43.6	44.2		3.9	3.6	5.0	5.2	
Primary nonferrous metals	333	43.4	43.4	43.6	44.0		4.3	4.5	4.7	5.1	
Primary aluminum	3334	44.3	44.2	43.8	44.4		4.4	4.6	4.3	4.8	
Nonferrous rolling and drawing	335	43.4	42.9	42.9	43.4		5.4	5.0	5.0	5.3	
Copper rolling and drawing	3351	43.5	42.6	43.7	43.9		5.9	5.5	5.8	5.5	
Aluminum sheet, plate, and foil	3353	43.9	44.0	45.2	45.1		6.8	7.0	7.2	7.3	
Nonferrous wire drawing and insulating	3357	43.2	42.2	42.5	43.1		4.8	4.1	4.4	4.8	
Nonferrous foundries	336	42.1	40.9	42.0	42.1		3.9	3.1	3.8	4.0	
Aluminum foundries	3361	42.3	41.2	42.5	42.7		4.1	3.4	4.0	4.5	
Fabricated metal products											
Metal cans and shipping containers	341	43.5	43.8	42.9	43.2	41.7	3.7	3.2	3.9	3.9	
Metal cans	3411	43.5	43.8	43.1	43.3	-	5.2	5.5	5.3	5.6	
Cutlery, hand tools, and hardware	342	41.3	40.2	41.6	41.9		3.1	2.5	3.8	3.7	
Hand and edge tools, and hand saws and blades	3423,5	41.1	40.7	41.8	42.2		2.8	2.5	3.7	3.6	
Hardware, nec	3429	41.2	39.7	41.1	41.4		3.4	2.4	3.7	3.7	
Plumbing and heating, except electric	343	40.6	39.6	40.4	40.6		2.9	2.2	3.2	3.2	
Plumbing fittings and brass goods	3432	41.2	40.3	41.0	41.6		2.6	1.9	3.3	3.5	
Heating equipment, except electric	3433	39.4	38.5	39.5	39.3		2.2	2.1	2.9	2.4	
Fabricated structural metal products	344	40.8	40.1	39.7	40.2		3.2	2.7	3.0	3.2	
Fabricated structural metal	3441	41.8	41.2	40.7	41.3		3.7	3.0	3.6	4.0	
Metal doors, sash, and trim	3442	39.3	39.2	37.6	38.1		2.5	2.3	1.8	1.9	
Fabricated plate work (boiler shops)	3443	42.5	41.0	42.0	42.1		4.2	3.2	3.9	4.2	
Sheet metal work	3444	40.2	39.3	39.4	40.1		2.9	2.4	2.8	2.9	
Architectural metal work	3446	40.4	40.2	39.7	39.7		3.3	3.0	3.6	3.3	
Screw machine products, bolts, etc	345	43.3	42.2	42.7	42.9		5.3	4.4	5.1	5.2	
Screw machine products	3451	41.7	40.8	41.6	41.8		3.8	3.0	4.4	4.5	
Bolts, nuts, rivets, and washers	3452	45.0	43.7	44.0	44.2		6.8	5.8	5.8	6.0	
Metal forgings and stampings	346	42.8	42.0	42.2	42.8		4.8	4.2	4.8	4.8	
Iron and steel forgings	3462	42.4	41.0	42.3	43.1		3.7	3.2	4.3	4.4	
Automotive stampings	3465	44.2	43.8	43.0	43.9		5.9	5.5	5.4	5.8	
Metal stampings, nec	3469	41.1	40.1	41.5	41.4		3.8	3.1	4.3	4.0	
Metal services, nec	347	41.0	40.3	41.0	41.0		3.5	3.1	3.8	3.7	
Plating and polishing	3471	40.9	40.4	41.0	40.9		3.5	3.1	4.0	3.8	
Metal coating and allied services	3479	41.3	40.2	40.9	41.2		3.6	3.2	3.5	3.6	
Ordnance and accessories, nec	348	40.8	40.9	42.2	42.2		2.8	2.7	3.5	3.4	
Ammunition, except for small arms, nec	3483	39.5	39.9	41.0	41.2		2.2	2.2	2.7	2.6	
Misc. fabricated metal products	349	41.0	40.4	41.8	41.7		3.2	2.8	3.8	3.8	
Valves and pipe fittings	3494	41.0	40.6	42.7	42.3		3.1	2.8	4.3	4.3	
Misc. fabricated wire products	3496	40.7	40.2	40.6	41.2		3.0	2.4	3.2	3.3	
Machinery, except electrical											
Engines and turbines	351	43.2	42.8	44.0	44.4	42.6	3.9	3.4	4.3	4.3	
Turbines and turbine generator sets	3511	39.3	39.0	42.7	43.4	-	5.7	5.7	4.7	4.9	
Internal combustion engines, nec	3519	44.5	44.1	44.4	44.7		6.6	6.6	5.2	5.1	
Farm and garden machinery	352	42.1	41.0	43.5	43.6		3.8	3.3	4.5	4.4	
Farm machinery and equipment	3523	42.2	40.8	43.1	43.6		4.0	3.4	4.6	4.5	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^b	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^b
		Durable goods—Continued									
Stone, clay, and glass products—Continued											
Glass containers	3221	\$11.55	\$12.00	\$11.90	\$11.92	-	\$485.10	\$502.80	\$487.90	\$491.10	-
Pressed and blown glass, nec	3229	10.66	10.80	11.07	11.08	-	439.19	439.56	464.94	465.36	-
Products of purchased glass	323	9.01	9.05	8.89	8.87	-	374.82	373.77	364.49	372.54	-
Cement, hydraulic	324	13.28	13.50	13.49	13.29	-	553.78	560.25	582.77	568.81	-
Structural clay products	325	8.44	8.49	8.83	8.84	-	357.86	356.58	369.09	368.63	-
Pottery and related products	326	8.84	8.91	9.23	9.22	-	354.48	355.51	378.43	374.33	-
Concrete, gypsum, and plaster products	327	9.82	9.90	9.98	10.09	-	418.33	428.67	401.20	424.79	-
Concrete block and brick	3271	8.74	8.83	9.26	9.16	-	391.55	406.18	388.92	404.87	-
Concrete products, nec	3272	8.68	8.72	8.98	9.01	-	370.64	371.47	372.67	382.93	-
Ready-mixed concrete	3273	10.75	10.76	10.87	10.98	-	441.83	455.15	410.89	445.79	-
Misc. nonmetallic mineral products	329	10.33	10.33	10.48	10.55	-	434.89	430.76	444.35	448.38	-
Abrasive products	3291	9.70	9.73	9.91	10.01	-	402.55	390.17	422.17	431.43	-
Asbestos products	3292	10.18	10.36	10.49	10.43	-	444.87	449.62	457.36	448.49	-
Primary metal industries	33	11.82	11.96	12.08	12.10	\$12.20	505.90	508.30	523.06	525.14	\$531.92
Blast furnaces and basic steel products	331	13.66	13.84	13.99	13.98	14.10	581.92	593.74	614.16	610.93	620.40
Blast furnaces and steel mills	3312	14.40	14.55	14.71	14.70	-	610.56	624.20	651.65	646.80	-
Steel pipe and tubes	3317	10.97	11.05	11.15	11.08	-	473.90	471.84	477.22	473.12	-
Iron and steel foundries	332	10.68	10.71	10.79	10.83	-	456.04	450.89	467.21	473.27	-
Gray iron foundries	3321	11.10	11.15	11.25	11.36	-	473.97	466.07	487.13	495.30	-
Malleable iron foundries	3322	11.79	11.60	11.83	11.45	-	485.75	484.88	496.86	484.34	-
Steel foundries, nec	3325	10.07	10.10	10.13	10.15	-	420.93	419.15	441.67	448.63	-
Primary nonferrous metals	333	12.79	12.90	12.93	13.15	-	555.09	559.86	563.75	578.60	-
Primary aluminum	3334	13.19	13.23	13.14	13.46	-	584.32	584.77	575.53	597.62	-
Nonferrous rolling and drawing	335	11.25	11.33	11.40	11.49	-	488.25	486.06	489.06	498.67	-
Copper rolling and drawing	3351	10.49	10.55	10.72	10.68	-	456.32	449.43	468.46	468.85	-
Aluminum sheet, plate, and foil	3353	13.71	13.77	13.77	13.84	-	601.87	605.88	622.40	624.18	-
Nonferrous wire drawing and insulating	3357	11.17	11.20	11.37	11.52	-	482.54	472.64	483.23	496.51	-
Nonferrous foundries	336	9.58	9.61	9.59	9.59	-	403.32	393.05	402.78	403.74	-
Aluminum foundries	3361	9.91	9.95	9.81	9.85	-	419.19	409.94	416.93	420.60	-
Fabricated metal products	34	9.99	9.98	10.18	10.19	10.27	414.59	408.18	420.43	422.89	428.26
Metal cans and shipping containers	341	13.02	13.14	13.41	13.45	-	566.37	575.53	575.29	581.04	-
Metal cans	3411	13.74	13.91	14.25	14.36	-	597.69	609.26	614.18	621.79	-
Cutlery, hand tools, and hardware	342	9.90	9.91	10.03	10.05	-	408.87	398.38	417.25	421.10	-
Hand and edge tools, and hand saws and blades ..	3423.5	9.02	9.15	9.22	9.17	-	370.72	372.41	385.40	386.97	-
Hardware, nec	3429	10.36	10.30	10.45	10.52	-	426.83	408.91	429.50	435.53	-
Plumbing and heating, except electric	343	9.15	9.14	9.27	9.30	-	371.49	361.94	374.51	377.58	-
Plumbing fittings and brass goods	3432	8.62	8.65	8.99	9.04	-	355.14	348.60	368.59	376.06	-
Heating equipment, except electric	3433	9.07	9.16	9.00	8.93	-	357.36	352.66	355.50	350.95	-
Fabricated structural metal products	344	9.26	9.22	9.49	9.50	-	377.81	369.72	376.75	381.90	-
Fabricated structural metal	3441	9.73	9.70	10.12	10.18	-	406.71	399.64	411.88	420.43	-
Metal doors, sash, and trim	3442	7.75	7.68	8.07	8.03	-	304.58	301.06	303.43	305.94	-
Fabricated plate work (boiler shops)	3443	10.27	10.25	10.29	10.30	-	436.48	420.25	432.18	433.63	-
Sheet metal work	3444	9.53	9.54	9.71	9.75	-	383.11	374.92	382.57	390.98	-
Architectural metal work	3446	8.71	8.80	8.75	8.79	-	351.88	353.76	347.38	348.96	-
Screw machine products, bolts, etc	345	9.69	9.61	9.95	9.92	-	419.58	405.54	424.87	425.57	-
Screw machine products	3451	8.99	8.88	9.25	9.24	-	374.88	362.30	384.80	386.23	-
Bolts, nuts, rivets, and washers	3452	10.36	10.31	10.67	10.64	-	466.20	450.55	469.48	470.29	-
Metal forgings and stampings	346	11.88	11.84	12.18	12.23	-	508.46	497.28	514.00	523.44	-
Iron and steel forgings	3462	12.49	12.45	12.88	12.93	-	529.58	510.45	544.82	557.28	-
Automotive stampings	3465	13.79	13.75	14.42	14.50	-	609.52	602.25	620.06	636.55	-
Metal stampings, nec	3469	9.25	9.17	9.43	9.34	-	380.18	367.72	391.35	386.68	-
Metal services, nec	347	7.95	8.04	8.13	8.14	-	325.95	324.01	333.33	333.74	-
Plating and polishing	3471	7.92	7.96	8.21	8.20	-	323.93	321.58	336.61	335.38	-
Metal coating and allied services	3479	8.01	8.18	7.97	8.02	-	330.81	328.84	325.97	330.42	-
Ordinance and accessories, nec	348	10.87	10.86	11.24	11.23	-	443.50	444.17	474.33	473.91	-
Ammunition, except for small arms, nec	3483	10.41	10.46	10.85	10.89	-	411.20	417.35	444.85	448.67	-
Misc. fabricated metal products	349	9.27	9.25	9.49	9.44	-	380.07	373.70	396.68	393.65	-
Valves and pipe fittings	3494	9.86	9.83	10.20	10.16	-	404.26	399.10	435.54	429.77	-
Misc. fabricated wire products	3496	8.39	8.40	8.52	8.38	-	341.47	337.68	345.91	345.26	-
Machinery, except electrical	35	10.72	10.70	10.88	10.89	10.96	452.38	445.12	462.40	465.00	466.90
Engines and turbines	351	13.42	13.51	13.37	13.46	-	579.74	578.23	588.28	597.62	-
Turbines and turbine generator sets	3511	12.62	12.76	13.66	13.73	-	495.97	497.64	583.28	595.88	-
Internal combustion engines, nec	3519	13.67	13.74	13.29	13.38	-	608.32	605.93	590.08	598.09	-
Farm and garden machinery	352	10.02	10.12	10.10	10.05	-	421.84	414.92	439.35	438.18	-
Farm machinery and equipment	3523	10.94	11.02	10.94	10.84	-	461.67	449.62	471.51	472.62	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	42.0	41.8	43.5	43.6		3.4	2.9	4.2	4.3	
Construction machinery	3531	42.9	42.6	45.1	45.3		2.7	2.5	4.4	4.3	
Mining machinery	3532	41.5	41.2	43.9	43.4		3.6	3.1	5.1	5.2	
Oil field machinery	3533	41.7	42.8	42.8	43.2		4.9	5.0	4.3	5.1	
Conveyors and conveying equipment	3535	43.1	41.8	42.4	42.9		4.5	3.4	3.9	4.5	
Industrial trucks and tractors	3537	40.0	39.7	41.4	40.9		2.6	2.0	3.5	3.1	
Metalworking machinery	354	42.5	41.9	43.2	43.6		4.7	4.0	5.3	5.4	
Machine tools, metal cutting types	3541	42.3	41.3	42.3	43.0		3.7	2.8	4.3	4.7	
Machine tools, metal forming types	3542	41.2	40.4	44.9	44.3		4.4	3.5	6.7	6.0	
Special dies, tools, jigs, and fixtures	3544	43.5	42.9	44.0	44.2		5.8	4.9	6.1	6.2	
Machine tool accessories	3545	41.0	40.7	42.0	42.4		3.4	3.3	4.6	4.8	
Power driven hand tools	3546	41.2	39.9	41.8	42.8		2.8	2.1	2.7	2.8	
Special industry machinery	355	42.1	41.2	42.3	42.3		4.0	3.3	4.6	4.6	
Food products machinery	3551	41.9	40.9	42.5	42.3		3.3	2.8	4.3	4.1	
Textile machinery	3552	43.9	42.4	43.2	43.2		4.8	3.7	4.3	4.3	
Printing trades machinery	3555	40.6	39.1	39.9	40.2		4.3	2.8	5.0	5.2	
General industrial machinery	356	42.3	41.6	42.6	42.7	-	3.6	3.1	4.4	4.3	
Pumps and pumping equipment	3561	42.6	41.2	43.1	43.5	-	3.4	2.7	4.4	4.3	
Ball and roller bearings	3562	43.4	43.6	44.1	44.0		5.0	4.8	5.6	5.6	
Air and gas compressors	3563	42.9	41.4	42.2	42.8		3.1	2.7	4.5	4.4	
Blowers and fans	3564	40.9	39.8	40.2	40.4		2.0	1.5	2.5	2.2	
Speed changers, drives, and gears	3566	43.9	43.0	44.3	44.7		4.3	3.9	5.1	5.5	
Power transmission equipment, nec	3568	41.6	41.0	42.2	42.2		4.0	3.6	5.2	5.2	
Office and computing machines	357	42.7	42.2	41.7	41.9		3.5	3.2	3.0	3.1	
Electronic computing equipment	3573	42.7	42.1	41.4	41.7		3.6	3.2	2.8	3.0	
Refrigeration and service machinery	358	41.6	40.9	40.9	41.3		2.8	2.7	2.9	3.0	
Refrigeration and heating equipment	3585	41.7	40.8	41.2	41.6		2.6	2.4	3.2	3.1	
Misc. machinery, except electrical	359	41.7	41.1	41.9	42.1		3.9	3.4	4.4	4.6	
Carburetors, pistons, rings, and valves	3592	42.4	41.4	42.2	42.4		4.3	3.6	4.4	4.4	
Machinery, except electrical, nec	3599	41.5	41.0	41.8	42.0		3.8	3.4	4.4	4.6	
Electrical and electronic equipment	36	40.9	40.3	40.7	41.0	40.9	2.8	2.5	3.0	3.1	
Electric distributing equipment	361	40.3	39.8	41.9	42.3	-	2.4	2.0	3.4	3.4	
Transformers	3612	40.9	40.4	41.7	42.5		2.2	1.8	3.3	3.6	
Switchgear and switchboard apparatus	3613	39.8	39.3	42.0	42.2		2.5	2.2	3.6	3.3	
Electrical industrial apparatus	362	41.2	40.5	42.1	42.5		3.1	2.5	3.4	3.7	
Motors and generators	3621	41.3	40.4	41.1	42.1		3.5	2.8	3.4	4.2	
Industrial controls	3622	40.3	39.9	42.4	42.4		2.3	1.8	2.6	2.6	
Household appliances	363	40.3	40.1	39.8	39.8		2.6	2.4	2.4	2.6	
Household refrigerators and freezers	3632	41.6	41.0	40.9	41.1		2.6	2.7	2.6	4.9	
Household laundry equipment	3633	41.2	40.5	41.0	40.4	-	2.6	2.1	2.6	1.7	
Electric housewares and fans	3634	39.5	40.5	40.8	40.5		2.4	2.4	2.8	2.7	
Electric lighting and wiring equipment	364	40.4	39.5	40.0	40.4		2.8	2.4	2.9	3.0	
Electric lamps	3641	40.0	40.1	40.1	40.3		2.9	2.6	3.6	3.6	
Current-carrying wiring devices	3643	40.6	39.3	39.7	40.1		2.8	2.4	2.6	2.8	
Noncurrent-carrying wiring devices	3644	41.1	40.8	41.7	42.3		2.6	2.5	3.5	3.6	
Residential lighting fixtures	3645	39.3	37.6	38.9	38.4		1.6	.9	2.0	1.7	
Radio and TV receiving equipment	365	40.9	40.3	39.2	39.8		2.2	2.0	2.3	2.6	
Radio and TV receiving sets	3651	41.3	40.6	38.6	39.5		1.9	1.4	1.7	1.8	
Communication equipment	366	41.8	41.0	41.0	41.0	-	2.6	2.3	2.8	2.7	
Telephone and telegraph apparatus	3661	41.9	41.2	42.8	42.8	-	2.0	1.8	3.9	3.4	
Radio and TV communication equipment	3662	41.8	40.9	40.3	40.4	-	2.8	2.4	2.3	2.4	
Electronic components and accessories	367	40.7	40.3	40.4	40.7	-	3.0	3.0	3.2	3.2	
Electronic tubes	3671-3	41.8	42.8	42.1	42.4	-	2.5	2.5	2.7	2.5	
Semiconductors and related devices	3674	40.6	40.3	40.1	40.2	-	3.4	4.1	3.4	3.2	
Electronic components, nec	3679	41.0	40.2	40.6	41.1		3.1	2.8	3.3	3.4	
Misc. electrical equipment and supplies	369	41.0	39.9	41.1	41.7		3.3	2.7	3.3	3.4	
Storage batteries	3691	39.5	38.9	40.7	41.9	-	1.9	1.8	3.0	3.1	-
Engine electrical equipment	3694	42.1	40.7	41.5	41.9		4.4	3.8	3.7	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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.13	\$11.12	\$11.15	\$11.18		\$467.46	\$464.82	\$485.03	\$487.45	
Construction machinery	3531	12.35	12.43	12.57	12.59		529.82	529.52	566.91	570.33	
Mining machinery	3532	11.39	11.20	11.35	11.55		472.69	461.44	498.27	501.27	
Oil field machinery	3533	11.32	11.34	10.63	10.66		472.04	485.35	454.96	460.51	
Conveyors and conveying equipment	3535	9.82	9.70	9.79	9.75		423.24	405.46	415.10	418.28	
Industrial trucks and tractors	3537	9.71	9.66	9.78	9.75		388.40	383.50	404.89	398.78	
Metalworking machinery	354	11.14	11.08	11.33	11.34		473.45	464.25	489.46	494.42	
Machine tools, metal cutting types	3541	11.05	10.93	11.24	11.33		467.42	451.41	475.45	487.19	
Machine tools, metal forming types	3542	11.40	11.39	11.73	11.63		469.68	460.16	526.68	515.21	
Special dies, tools, jigs, and fixtures	3544	11.91	11.86	12.13	12.14		518.09	508.79	533.72	536.59	
Machine tool accessories	3545	9.99	9.94	10.08	10.08		409.59	404.56	423.36	427.39	
Power driven hand tools	3546	8.49	8.50	8.79	8.78		349.79	339.15	367.42	375.78	
Special industry machinery	355	10.60	10.54	10.93	10.99		446.26	434.25	462.34	464.88	
Food products machinery	3551	10.71	10.59	10.89	11.00		448.75	433.13	462.83	465.30	
Textile machinery	3552	8.72	8.60	9.04	9.11		382.81	364.64	390.53	393.55	
Printing trades machinery	3555	11.31	11.24	11.92	11.89		459.19	439.48	475.61	477.98	
General industrial machinery	356	10.37	10.30	10.50	10.47		438.65	428.48	447.30	447.07	
Pumps and pumping equipment	3561	11.03	11.02	11.08	10.97		469.88	454.02	477.55	477.20	
Ball and roller bearings	3562	11.05	10.88	11.02	11.03		479.57	474.37	485.98	485.32	
Air and gas compressors	3563	10.19	10.20	10.32	10.31		437.15	422.28	435.50	441.27	
Blowers and fans	3564	9.13	9.14	9.38	9.31		373.42	363.77	377.08	376.12	
Speed changers, drives, and gears	3566	10.22	10.02	10.19	10.28		448.66	430.86	451.42	459.52	
Power transmission equipment, nec	3568	10.61	10.54	10.55	10.56		441.38	432.14	445.21	445.63	
Office and computing machines	357	10.14	10.18	10.46	10.43		432.98	429.60	436.18	437.02	
Electronic computing equipment	3573	10.17	10.19	10.45	10.42		434.26	429.00	432.63	434.51	
Refrigeration and service machinery	358	10.31	10.26	10.47	10.49		428.90	419.63	428.22	433.24	
Refrigeration and heating equipment	3585	10.51	10.44	10.67	10.67		438.27	425.95	439.60	443.87	
Misc. machinery, except electrical	359	10.39	10.37	10.58	10.60		433.26	426.21	443.30	446.26	
Carburetors, pistons, rings, and valves	3592	12.70	12.59	13.04	12.93		538.48	521.23	550.29	548.23	
Machinery, except electrical, nec	3599	10.01	10.00	10.21	10.24		415.42	410.00	426.78	430.08	
Electrical and electronic equipment	36	9.84	9.82	10.04	10.05	\$10.10	402.46	395.75	408.63	412.05	\$413.09
Electric distributing equipment	361	9.11	9.11	9.45	9.40	-	367.13	362.58	395.96	397.62	-
Transformers	3612	8.98	8.95	9.28	9.24		367.28	361.58	386.98	392.70	
Switchgear and switchboard apparatus	3613	9.23	9.27	9.60	9.54		367.35	364.31	403.20	402.59	
Electrical industrial apparatus	362	9.71	9.72	9.84	9.97		400.05	393.66	414.26	423.73	
Motors and generators	3621	9.64	9.62	9.85	10.05		398.13	388.65	404.84	423.11	
Industrial controls	3622	9.59	9.57	9.62	9.71		386.48	381.84	407.89	411.70	
Household appliances	363	9.77	9.67	10.00	10.01		393.73	387.77	398.00	398.40	
Household refrigerators and freezers	3632	11.00	11.01	11.44	11.76		457.60	451.41	467.90	483.34	
Household laundry equipment	3633	11.42	11.41	12.01	11.87		470.50	462.11	492.41	479.55	
Electric housewares and fans	3634	7.44	7.34	7.35	7.37		293.88	297.27	299.88	298.49	
Electric lighting and wiring equipment	364	9.07	9.10	9.25	9.26		366.43	359.45	370.00	374.10	
Electric lamps	3641	10.06	10.11	10.72	10.76		402.40	405.41	429.87	433.63	
Current-carrying wiring devices	3643	8.61	8.64	8.67	8.59		349.57	339.55	344.20	344.46	
Noncurrent-carrying wiring devices	3644	9.35	9.36	9.31	9.27		384.29	381.89	388.23	392.12	
Residential lighting fixtures	3645	6.54	6.65	6.92	6.84		257.02	250.04	269.19	262.66	
Radio and TV receiving equipment	365	9.34	9.32	9.29	9.52		382.01	375.60	364.17	378.90	
Radio and TV receiving sets	3651	9.76	9.62	9.71	9.94		403.09	390.57	374.81	392.63	
Communication equipment	366	11.62	11.64	11.96	11.98		485.72	477.24	490.36	491.18	
Telephone and telegraph apparatus	3661	11.12	11.13	11.37	11.28		465.93	458.56	486.64	482.78	
Radio and TV communication equipment	3662	11.81	11.82	12.18	12.25		493.66	483.44	490.85	494.90	
Electronic components and accessories	367	8.89	8.87	9.12	9.10		361.82	357.46	368.45	370.37	
Electronic tubes	3671-3	11.17	11.08	11.08	11.16		466.91	474.22	466.47	473.18	
Semiconductors and related devices	3674	10.60	10.51	11.02	11.00		430.36	423.55	441.90	442.20	
Electronic components, nec	3679	8.01	8.03	8.16	8.16		328.41	322.81	331.30	335.38	
Misc. electrical equipment and supplies	369	10.47	10.45	10.66	10.64		429.27	416.96	438.13	443.69	
Storage batteries	3691	10.77	10.96	11.33	11.19		425.42	426.34	461.13	468.86	
Engine electrical equipment	3694	11.13	11.05	11.22	11.27		468.57	449.74	465.63	472.21	

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a
Durable goods—Continued											
Transportation equipment	37	42.6	41.9	42.0	42.6	43.0	4.4	4.0	4.2	4.3	-
Motor vehicles and equipment	371	43.2	42.3	42.4	43.1	44.0	4.6	4.1	4.3	4.6	-
Motor vehicles and car bodies	3711	43.1	42.1	42.0	43.0	-	4.7	4.1	4.0	4.5	-
Truck and bus bodies	3713	42.3	41.4	42.7	43.7	-	4.0	3.5	3.6	4.7	-
Motor vehicle parts and accessories	3714	43.5	42.7	43.0	43.5	-	4.9	4.4	4.9	5.0	-
Truck trailers	3715	40.5	40.7	39.3	39.6	-	2.3	2.7	1.9	2.1	-
Aircraft and parts	372	42.7	42.0	42.8	42.6	-	4.7	4.3	4.8	4.7	-
Aircraft	3721	42.1	41.6	42.0	42.1	-	4.2	3.9	4.3	4.2	-
Aircraft engines and engine parts	3724	42.7	41.8	42.2	42.4	-	4.8	4.2	4.7	4.7	-
Aircraft equipment, nec	3728	43.5	42.6	43.7	43.7	-	5.5	5.0	5.9	5.6	-
Ship and boat building and repairing	373	40.9	40.5	40.2	40.5	-	3.0	2.7	2.7	2.9	-
Ship building and repairing	3731	40.9	40.4	40.3	40.7	-	2.9	2.5	2.9	3.0	-
Boat building and repairing	3732	40.9	40.7	39.8	40.1	-	3.1	3.1	2.5	2.6	-
Railroad equipment	374	40.2	39.9	42.1	42.4	-	2.1	2.0	3.6	3.4	-
Guided missiles, space vehicles, and parts	376	42.5	42.3	42.6	43.1	-	4.2	4.2	4.5	4.0	-
Guided missiles and space vehicles	3761	42.8	42.5	42.5	43.1	-	4.3	4.5	4.5	4.0	-
Miscellaneous transportation equipment	379	40.6	40.1	38.0	39.7	-	3.6	3.5	2.1	2.6	-
Travel trailers and campers	3792	39.0	38.1	36.0	38.0	-	2.0	2.1	.9	1.3	-
Instruments and related products	38	41.5	40.8	41.3	41.7	41.5	2.9	2.5	3.1	3.3	-
Engineering and scientific instruments	381	41.6	40.9	41.7	41.9	-	2.9	2.4	3.2	3.3	-
Measuring and controlling devices	382	41.8	40.8	41.3	41.9	-	2.8	2.3	2.9	3.1	-
Environmental controls	3822	40.6	39.6	40.2	41.7	-	3.0	2.5	2.9	3.3	-
Process control instruments	3823	43.2	42.3	43.2	44.2	-	3.7	2.8	3.7	4.1	-
Instruments to measure electricity	3825	41.3	39.8	40.6	41.0	-	2.3	1.9	2.4	2.8	-
Optical instruments and lenses	383	41.8	40.8	44.2	43.7	-	3.0	2.6	3.4	3.8	-
Medical instruments and supplies	384	41.0	40.3	40.4	40.9	-	3.1	2.5	3.0	3.4	-
Surgical and medical instruments	3841	41.8	41.0	40.5	40.8	-	3.4	2.9	2.6	3.2	-
Surgical appliances and supplies	3842	40.3	39.6	40.2	40.8	-	2.8	2.1	3.3	3.5	-
Ophthalmic goods	385	40.6	40.1	39.6	40.2	-	3.0	2.6	2.6	3.0	-
Photographic equipment and supplies	386	42.7	43.0	43.6	43.8	-	3.3	3.5	4.3	4.0	-
Watches, clocks, and watchcases	387	39.8	39.3	37.6	38.9	-	1.5	1.8	1.6	1.8	-
Miscellaneous manufacturing	39	39.3	38.8	38.8	39.1	38.8	2.4	2.2	2.2	2.3	-
Jewelry, silverware, and plated ware	391	38.2	37.9	37.3	37.7	-	2.0	1.9	1.4	1.8	-
Jewelry, precious metal	3911	37.1	36.9	36.5	36.7	-	1.4	1.5	1.1	1.3	-
Musical instruments	393	41.5	40.5	40.3	41.1	-	3.3	2.9	2.9	2.9	-
Toys and sporting goods	394	39.1	38.8	39.0	39.5	-	2.1	2.0	2.1	2.2	-
Dolls, games, toys, and children's vehicles	3942,4	38.6	38.3	38.0	38.3	-	2.1	1.8	1.8	1.5	-
Sporting and athletic goods, nec	3949	39.5	39.1	39.9	40.4	-	2.1	2.1	2.4	2.9	-
Pens, pencils, office, and art supplies	395	40.7	40.0	40.5	41.1	-	2.4	1.9	2.3	2.5	-
Costume jewelry and notions	396	37.7	36.2	37.1	37.2	-	3.1	2.2	1.8	1.7	-
Costume jewelry	3961	36.1	33.7	36.3	35.9	-	3.1	1.7	1.5	1.1	-
Miscellaneous manufactures	399	39.8	39.8	39.3	39.3	-	2.5	2.4	2.7	2.8	-
Signs and advertising displays	3993	39.7	39.6	38.9	38.9	-	2.5	2.3	2.8	2.7	-
Nondurable goods		40.0	39.5	39.9	40.0	40.0	3.4	3.1	3.4	3.4	3.4
Food and kindred products	20	39.5	39.3	39.7	39.5	39.7	3.5	3.4	3.5	3.4	-
Meat products	201	38.4	38.5	38.7	38.7	-	2.9	2.9	3.1	3.2	-
Meat packing plants	2011	40.9	40.7	40.6	40.6	-	3.9	3.9	3.9	4.0	-
Sausages and other prepared meats	2013	39.3	39.9	39.2	39.1	-	2.9	3.1	3.0	3.3	-
Poultry dressing plants	2016	36.0	36.4	37.1	37.1	-	2.1	2.2	2.5	2.4	-
Dairy products	202	41.0	41.3	41.0	41.1	-	4.0	4.5	4.0	4.1	-
Cheese, natural and processed	2022	39.4	38.9	39.6	39.4	-	3.6	3.9	3.7	3.5	-
Fluid milk	2026	42.0	42.6	41.9	41.6	-	4.5	5.2	4.5	4.4	-
Preserved fruits and vegetables	203	39.0	37.9	38.9	38.5	-	2.9	2.7	2.9	2.7	-
Canned specialties	2032	38.1	37.2	38.5	38.1	-	2.3	1.4	3.7	3.2	-
Canned fruits and vegetables	2033	38.5	37.7	39.4	38.9	-	2.7	2.8	3.6	2.9	-
Frozen fruits and vegetables	2037	38.6	38.5	38.1	37.5	-	2.9	2.8	2.4	2.2	-
Grain mill products	204	43.7	43.0	43.8	43.4	-	5.7	5.3	5.6	5.1	-
Flour and other grain mill products	2041	46.5	46.2	45.4	44.0	-	6.3	6.0	6.2	5.0	-
Prepared feeds, nec	2048	42.5	43.0	42.5	42.6	-	5.3	5.6	5.4	5.2	-
Bakery products	205	39.7	40.0	39.4	39.1	-	3.7	3.9	3.8	3.4	-
Bread, cake, and related products	2051	38.3	39.1	38.2	38.1	-	3.4	4.0	3.8	3.6	-
Cookies and crackers	2052	43.2	42.5	42.4	41.6	-	4.4	3.8	3.8	3.0	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Durable goods—Continued											
Transportation equipment	37	\$12.86	\$12.80	\$13.18	\$13.20	\$13.26	\$547.84	\$536.32	\$553.56	\$562.32	\$570.18
Motor vehicles and equipment	371	13.49	13.40	13.88	13.94	14.07	582.77	566.82	588.51	600.81	619.08
Motor vehicles and car bodies	3711	15.16	15.06	16.01	16.02	-	653.40	634.03	672.42	688.86	-
Truck and bus bodies	3713	11.42	11.36	11.65	11.81	-	483.07	470.30	497.46	516.10	-
Motor vehicle parts and accessories	3714	12.64	12.61	12.93	13.03	-	549.84	538.45	555.99	566.81	-
Truck trailers	3715	9.35	9.37	9.03	9.08	-	378.68	381.36	354.88	359.57	-
Aircraft and parts	372	13.03	13.02	13.44	13.43	-	556.38	546.84	572.54	572.12	-
Aircraft	3721	(⁹)	(⁹)	(⁹)	(⁹)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.09	\$13.05	\$13.60	\$13.57	-	558.94	545.49	573.92	575.37	-
Aircraft equipment, nec	3728	12.09	12.11	12.48	12.46	-	525.92	515.89	545.38	544.50	-
Ship and boat building and repairing	373	10.31	10.19	10.33	10.32	-	421.68	412.70	415.27	417.96	-
Ship building and repairing	3731	11.52	11.42	11.50	11.50	-	471.17	461.37	463.45	468.05	-
Boat building and repairing	3732	7.93	7.94	8.07	8.11	-	324.34	323.16	321.19	325.21	-
Railroad equipment	374	12.25	12.17	12.40	12.36	-	492.45	485.58	522.04	524.06	-
Guided missiles, space vehicles, and parts	376	(⁹)	(⁹)	(⁹)	(⁹)	-	(⁹)	(⁹)	(⁹)	(⁹)	-
Guided missiles and space vehicles	3761	(⁹)	(⁹)	(⁹)	(⁹)	-	(⁹)	(⁹)	(⁹)	(⁹)	-
Miscellaneous transportation equipment	379	\$10.74	\$10.65	\$10.13	\$10.01	-	\$436.04	\$427.07	\$384.94	\$397.40	-
Travel trailers and campers	3792	8.95	8.79	8.36	8.39	-	349.05	334.90	300.96	318.82	-
Instruments and related products	38	9.67	9.67	9.95	9.87	9.85	401.31	394.54	410.94	411.58	408.78
Engineering and scientific instruments	381	10.53	10.55	10.86	10.92	-	438.05	431.50	452.86	457.55	-
Measuring and controlling devices	382	9.56	9.48	9.80	9.73	-	399.61	386.78	404.74	407.69	-
Environmental controls	3822	9.01	9.06	9.33	9.18	-	365.81	358.78	375.07	382.81	-
Process control instruments	3823	9.53	9.41	9.56	9.50	-	411.70	398.04	412.99	419.90	-
Instruments to measure electricity	3825	9.77	9.60	10.01	9.96	-	403.50	382.08	406.41	408.36	-
Optical instruments and lenses	383	10.50	10.60	10.51	10.71	-	438.90	432.48	464.54	468.03	-
Medical instruments and supplies	384	8.68	8.66	8.92	8.91	-	355.88	349.00	360.37	364.42	-
Surgical and medical instruments	3841	8.76	8.76	9.09	9.07	-	366.17	359.16	368.15	370.06	-
Surgical appliances and supplies	3842	8.60	8.55	8.76	8.75	-	346.58	338.58	352.15	357.00	-
Ophthalmic goods	385	7.33	7.29	7.43	7.47	-	297.60	292.33	294.23	300.29	-
Photographic equipment and supplies	386	12.95	13.12	13.64	13.25	-	552.97	564.16	594.70	580.35	-
Watches, clocks, and watchcases	387	7.08	7.16	7.24	7.27	-	281.78	281.39	272.22	282.80	-
Miscellaneous manufacturing	39	7.66	7.67	7.88	7.89	7.90	301.04	297.60	305.74	308.50	306.52
Jewelry, silverware, and plated ware	391	8.28	8.32	8.45	8.50	-	316.30	315.33	315.19	320.45	-
Jewelry, precious metal	3911	8.35	8.46	8.60	8.64	-	309.79	312.17	313.90	317.09	-
Musical instruments	393	7.39	7.35	7.83	7.98	-	306.69	297.68	315.55	327.98	-
Toys and sporting goods	394	7.08	7.06	7.27	7.28	-	276.83	273.93	283.53	287.56	-
Dolls, games, toys, and children's vehicles	3942.4	6.95	6.95	7.10	7.05	-	268.27	266.19	269.80	270.02	-
Sporting and athletic goods, nec	3949	7.18	7.14	7.41	7.46	-	283.61	279.17	295.66	301.38	-
Pens, pencils, office, and art supplies	395	7.70	7.69	7.61	7.57	-	313.39	307.60	308.21	311.13	-
Costume jewelry and notions	396	6.10	6.05	6.44	6.52	-	229.97	219.01	238.92	242.54	-
Costume jewelry	3961	5.52	5.45	6.08	6.11	-	199.27	183.67	220.70	219.35	-
Miscellaneous manufactures	399	8.45	8.47	8.73	8.71	-	336.31	337.11	343.09	342.30	-
Signs and advertising displays	3993	8.85	8.76	9.08	9.04	-	351.35	346.90	353.21	351.66	-
Nondurable goods		9.09	9.14	9.29	9.31	9.34	363.60	361.03	370.67	372.40	373.60
Food and kindred products	20	8.93	8.95	9.05	9.05	9.10	352.74	351.74	359.29	357.48	361.27
Meat products	201	7.40	7.40	7.51	7.47	-	284.16	284.90	290.64	289.09	-
Meat packing plants	2011	8.36	8.28	8.36	8.32	-	341.92	337.00	339.42	337.79	-
Sausages and other prepared meats	2013	8.74	8.85	8.88	8.92	-	343.48	353.12	348.10	348.77	-
Poultry dressing plants	2016	6.03	6.07	6.27	6.21	-	217.08	220.95	232.62	230.39	-
Dairy products	202	9.56	9.62	9.82	9.75	-	391.96	397.31	402.62	400.73	-
Cheese, natural and processed	2022	8.82	8.94	9.07	9.05	-	347.51	347.77	359.17	356.57	-
Fluid milk	2026	10.03	10.14	10.25	10.13	-	421.26	431.96	429.48	421.41	-
Preserved fruits and vegetables	203	8.46	8.52	8.57	8.62	-	329.94	322.91	333.37	331.87	-
Canned specialties	2032	10.31	10.28	10.52	10.50	-	392.81	382.42	405.02	400.05	-
Canned fruits and vegetables	2033	8.38	8.54	8.60	8.58	-	322.63	321.96	338.84	333.76	-
Frozen fruits and vegetables	2037	7.84	7.96	7.91	8.01	-	302.62	290.54	301.37	300.38	-
Grain mill products	204	10.65	10.48	10.90	10.86	-	465.41	450.64	477.42	471.32	-
Flour and other grain mill products	2041	10.34	10.27	10.81	10.83	-	480.81	474.47	490.77	476.52	-
Prepared feeds, nec	2048	8.31	8.35	8.50	8.56	-	353.18	359.05	361.25	364.66	-
Bakery products	205	9.93	10.02	10.13	10.14	-	394.22	400.80	399.12	396.47	-
Bread, cake, and related products	2051	9.81	9.90	10.16	10.17	-	375.72	387.09	388.11	387.48	-
Cookies and crackers	2052	10.18	10.27	10.07	10.09	-	439.78	436.48	426.97	419.74	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.2	39.1	41.0	40.2	-	3.0	2.5	3.5	3.1	
Cane and beet sugar	2061-3	42.6	41.4	44.1	43.6		5.1	4.3	6.3	5.9	
Confectionery products	2065	38.8	38.0	39.1	38.2		2.1	1.7	2.2	1.9	
Fats and oils	207	40.7	41.2	42.6	42.3	-	4.4	4.5	4.8	4.7	
Beverages	208	40.1	40.1	39.7	40.1		3.5	3.6	3.2	3.6	
Malt beverages	2082	41.8	42.1	41.4	42.1		4.9	4.8	5.5	5.8	
Bottled and canned soft drinks	2086	40.2	40.0	38.9	39.4		3.3	3.5	2.5	3.0	
Misc. food and kindred products	209	38.2	37.9	38.2	38.3		3.7	3.6	3.4	3.3	
Tobacco manufactures	21	38.1	37.6	38.7	39.8	38.1	2.0	1.7	2.3	2.0	
Cigarettes	211	38.5	38.1	39.2	40.1	-	2.2	1.9	2.8	2.3	
Textile mill products	22	42.0	40.9	41.5	41.2	41.2	4.5	3.8	4.0	3.8	
Weaving mills, cotton	221	43.3	41.9	41.9	41.1	-	6.1	5.6	4.8	4.5	
Weaving mills, synthetics	222	42.1	41.9	41.9	41.6		4.4	4.1	4.3	4.2	
Weaving and finishing mills, wool	223	42.0	41.0	41.0	41.9		2.5	.4	2.6	3.0	
Narrow fabric mills	224	41.3	39.5	41.2	41.3		3.8	2.8	3.5	3.4	
Knitting mills	225	40.2	39.0	40.3	40.1		3.5	2.6	3.3	3.1	
Women's hosiery, except socks	2251	39.6	37.9	39.4	39.0		3.2	2.2	2.8	2.7	-
Hosiery, nec	2252	40.1	37.3	41.3	40.6		2.8	1.7	3.4	3.1	
Knit outerwear mills	2253	38.6	38.1	39.4	39.6		3.1	2.2	3.1	3.0	
Knit underwear mills	2254	40.3	39.4	38.1	38.4		3.1	2.1	1.5	1.5	
Circular knit fabric mills	2257	43.4	42.8	41.5	41.1		5.5	5.3	4.7	4.4	
Textile finishing, except wool	226	42.1	41.1	41.9	41.6		4.9	4.1	4.3	4.2	
Finishing plants, cotton	2261	42.5	42.0	42.4	42.2		4.7	4.3	4.3	4.1	
Finishing plants, synthetics	2262	42.4	40.6	41.5	41.7		4.9	3.6	4.3	4.5	
Floor covering mills	227	42.7	41.3	42.7	42.9		4.3	3.4	3.8	3.7	
Yarn and thread mills	228	43.1	42.0	41.3	40.8		5.1	4.7	4.3	4.0	
Yarn mills, except wool	2281	44.1	42.8	42.0	41.1		5.7	5.2	4.6	4.2	
Throwing and winding mills	2282	38.5	38.5	38.4	39.8		3.1	2.9	2.6	3.2	
Miscellaneous textile goods	229	43.4	42.3	43.3	43.4		4.7	4.1	4.6	4.6	
Apparel and other textile products	23	37.0	35.8	36.7	37.1	36.9	1.8	1.3	1.7	1.8	
Men's and boys' suits and coats	231	35.5	34.5	36.6	36.9	-	1.0	.6	1.4	1.5	
Men's and boys' furnishings	232	37.0	35.8	36.3	37.0		1.5	1.0	1.4	1.4	
Men's and boys' shirts and nightwear	2321	37.5	36.5	36.9	37.3		1.6	1.3	1.4	1.3	
Men's and boys' separate trousers	2327	36.6	35.3	36.5	36.7		1.1	.8	1.5	1.6	
Men's and boys' work clothing	2328	36.2	35.1	35.5	36.5		1.4	1.0	1.3	1.4	
Women's and misses' outerwear	233	35.9	34.6	36.0	36.4		1.7	1.3	1.8	1.9	
Women's and misses' blouses and waists	2331	35.8	34.6	36.2	36.3		1.4	.9	1.6	1.6	
Women's and misses' dresses	2335	36.1	34.1	35.4	36.1		1.7	1.3	1.5	1.9	
Women's and misses' suits and coats	2337	34.8	33.4	35.7	36.6		1.3	1.1	1.5	1.6	
Women's and misses' outerwear, nec	2339	36.1	35.1	36.4	36.5		1.9	1.5	2.0	2.0	
Women's and children's undergarments	234	36.8	35.9	37.7	37.7		1.0	.6	1.8	1.6	
Women's and children's underwear	2341	37.1	36.1	38.0	37.9		1.0	.5	1.7	1.5	
Brassieres and allied garments	2342	35.4	34.9	36.2	36.4		1.1	1.2	2.1	2.1	
Children's outerwear	236	36.6	35.8	37.6	36.8		1.7	.9	2.0	1.5	
Children's dresses and blouses	2361	35.1	35.2	36.5	34.7		1.5	.7	1.9	1.1	
Misc. apparel and accessories	238	38.9	37.9	37.2	38.3		2.4	1.7	1.8	2.1	
Misc. fabricated textile products	239	39.7	38.2	38.1	38.3		3.2	2.5	2.4	2.4	
Curtains and draperies	2391	38.6	36.3	34.9	35.0		1.8	1.5	.7	.7	
House furnishings, nec	2392	39.2	37.7	37.3	38.1		2.6	2.0	2.0	2.2	
Automotive and apparel trimmings	2396	42.5	40.4	41.5	41.6		6.5	5.0	5.4	5.0	
Paper and allied products	26	42.9	42.8	43.0	43.0	43.1	4.7	4.7	4.7	4.7	
Paper and pulp mills	261,2,6	45.0	45.7	45.3	45.2	-	6.2	6.5	6.3	6.3	
Paper mills, except building paper	262	45.1	45.8	45.4	45.3		6.4	6.6	6.5	6.4	
Paperboard mills	263	43.7	43.9	43.6	43.4		6.9	7.1	6.1	5.9	
Misc. converted paper products	264	42.0	41.3	41.9	41.9		3.6	3.4	3.7	3.7	
Paper coating and glazing	2641	43.9	43.5	43.3	43.3		4.1	3.8	3.8	3.9	
Envelopes	2642	41.7	40.9	40.9	41.0		3.0	2.5	3.1	3.3	
Bags, except textile bags	2643	41.8	40.7	41.6	41.6		3.7	3.5	4.2	4.3	
Paperboard containers and boxes	265	41.8	41.6	41.8	42.0		3.9	3.8	4.0	4.0	
Folding paperboard boxes	2651	42.1	41.6	42.0	41.6		4.2	3.8	4.3	4.1	
Corrugated and solid fiber boxes	2653	42.2	42.3	42.4	42.6		4.1	4.1	4.2	4.3	
Sanitary food containers	2654	41.2	40.4	41.1	42.7		3.9	3.5	3.8	3.5	

See footnotes at end of table.

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^a	Apr. 1988 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.11	\$9.31	\$9.42	\$9.42	-	\$366.22	\$364.02	\$386.22	\$378.68	
Cane and beet sugar	2061-3	10.67	11.08	10.73	10.77	-	454.54	458.71	473.19	469.57	
Confectionery products	2065	7.87	8.02	8.22	8.24	-	305.36	304.76	321.40	314.77	
Fats and oils	207	9.14	9.19	9.04	9.09	-	372.00	378.63	385.10	384.51	
Beverages	208	11.83	11.89	11.89	11.99	-	474.38	476.79	472.03	480.80	
Malt beverages	2082	16.57	16.65	16.83	16.92	-	692.63	700.97	696.76	712.33	
Bottled and canned soft drinks	2086	9.44	9.50	9.32	9.49	-	379.49	380.00	362.55	373.91	
Misc. food and kindred products	209	8.28	8.22	8.37	8.40	-	316.30	311.54	319.73	321.72	
Tobacco manufactures	21	13.80	14.28	13.91	14.20	\$14.74	525.78	536.93	538.32	565.16	\$561.59
Cigarettes	211	16.23	16.34	17.02	16.78	-	624.86	622.55	667.18	672.88	-
Textile mill products	22	7.12	7.12	7.31	7.33	7.36	299.04	291.21	303.37	302.00	303.23
Weaving mills, cotton	221	7.44	7.45	7.67	7.65	-	322.15	312.16	321.37	314.42	-
Weaving mills, synthetics	222	7.62	7.64	7.90	7.91	-	320.80	320.12	331.01	329.06	
Weaving and finishing mills, wool	223	7.58	7.62	7.76	7.98	-	318.36	312.42	318.16	334.36	
Narrow fabric mills	224	6.71	6.76	6.75	6.80	-	277.12	267.02	278.10	280.84	
Knitting mills	225	6.49	6.47	6.63	6.65	-	260.90	252.33	267.19	266.67	
Women's hosiery, except socks	2251	6.37	6.23	6.55	6.54	-	252.25	236.12	258.07	255.06	
Hosiery, nec	2252	6.14	6.12	6.36	6.34	-	246.21	228.28	262.67	257.40	
Knit outerwear mills	2253	6.46	6.48	6.44	6.45	-	249.36	246.89	253.74	255.42	
Knit underwear mills	2254	6.13	6.01	6.33	6.40	-	247.04	236.79	241.17	245.76	
Circular knit fabric mills	2257	7.12	7.11	7.36	7.42	-	309.01	304.31	305.44	304.96	
Textile finishing, except wool	226	7.41	7.43	7.59	7.66	-	311.96	305.37	318.02	318.66	
Finishing plants, cotton	2261	7.40	7.40	7.61	7.67	-	314.50	310.80	322.66	323.67	
Finishing plants, synthetics	2262	7.66	7.69	7.90	7.91	-	324.78	312.21	327.85	329.85	
Floor covering mills	227	7.57	7.54	7.55	7.58	-	323.24	311.40	322.39	325.18	
Yarn and thread mills	228	6.69	6.71	6.99	6.95	-	288.34	281.82	288.69	283.56	
Yarn mills, except wool	2281	6.71	6.73	6.96	6.94	-	295.91	288.04	292.32	285.23	
Throwing and winding mills	2282	6.60	6.66	7.13	7.05	-	254.10	256.41	273.79	280.59	
Miscellaneous textile goods	229	8.16	8.14	8.33	8.33	-	354.14	344.32	360.69	361.52	
Apparel and other textile products	23	5.93	5.94	6.03	6.05	6.06	219.41	212.65	221.30	224.46	223.61
Men's and boys' suits and coats	231	6.67	6.85	6.90	6.88	-	236.79	236.33	252.54	253.87	
Men's and boys' furnishings	232	5.43	5.47	5.55	5.55	-	200.91	195.83	201.47	205.35	
Men's and boys' shirts and nightwear	2321	5.21	5.27	5.44	5.46	-	195.38	192.36	200.74	203.66	
Men's and boys' separate trousers	2327	5.30	5.34	5.37	5.38	-	193.98	188.50	196.01	197.45	
Men's and boys' work clothing	2328	5.55	5.59	5.58	5.56	-	200.91	196.21	198.09	202.94	
Women's and misses' outerwear	233	5.72	5.71	5.82	5.85	-	205.35	197.57	209.52	212.94	
Women's and misses' blouses and waists	2331	5.06	5.02	5.16	5.12	-	181.15	173.69	186.79	185.86	
Women's and misses' dresses	2335	6.06	6.01	6.18	6.11	-	218.77	204.94	218.77	220.57	
Women's and misses' suits and coats	2337	6.46	6.51	6.48	6.58	-	224.81	217.43	231.34	240.83	
Women's and misses' outerwear, nec	2339	5.58	5.60	5.69	5.76	-	201.44	196.56	207.12	210.24	
Women's and children's undergarments	234	5.42	5.49	5.65	5.68	-	199.46	197.09	213.01	214.14	
Women's and children's underwear	2341	5.25	5.31	5.45	5.49	-	194.78	191.69	207.10	208.07	
Brassieres and allied garments	2342	6.31	6.43	6.79	6.77	-	223.37	224.41	245.80	246.43	
Children's outerwear	236	5.22	5.23	5.44	5.45	-	191.05	187.23	204.54	200.56	
Children's dresses and blouses	2361	5.02	5.01	5.44	5.45	-	176.20	176.35	198.56	189.12	
Misc. apparel and accessories	238	5.66	5.60	5.86	5.88	-	220.17	212.24	217.99	225.20	
Misc. fabricated textile products	239	7.31	7.26	7.25	7.26	-	290.21	277.33	276.23	278.06	
Curtains and draperies	2391	5.73	5.84	5.96	5.94	-	221.18	211.99	208.00	207.90	
House furnishings, nec	2392	6.03	6.07	6.14	6.19	-	236.38	228.84	229.02	235.84	
Automotive and apparel trimmings	2396	11.38	11.19	11.30	11.33	-	483.65	452.08	468.95	471.33	
Paper and allied products	26	11.27	11.37	11.49	11.50	11.57	483.48	486.64	494.07	494.50	498.67
Paper and pulp mills	261,2,6	13.77	13.88	14.07	14.12	-	619.65	634.32	637.37	638.22	-
Paper mills, except building paper	262	13.85	13.95	14.16	14.18	-	624.64	638.91	642.86	642.35	
Paperboard mills	263	14.13	14.28	14.09	14.18	-	617.48	626.89	614.32	615.41	
Misc. converted paper products	264	9.77	9.87	10.04	10.02	-	410.34	407.63	420.68	419.84	
Paper coating and glazing	2641	10.93	11.06	11.14	11.16	-	479.83	481.11	482.36	483.23	
Envelopes	2642	9.04	9.03	9.50	9.53	-	376.97	369.33	388.55	390.73	
Bags, except textile bags	2643	9.02	9.18	9.30	9.32	-	377.04	373.63	386.88	387.71	
Paperboard containers and boxes	265	9.59	9.62	9.77	9.78	-	400.86	400.19	408.39	410.76	
Folding paperboard boxes	2651	10.66	10.10	10.14	10.23	-	423.53	420.16	425.88	425.57	
Corrugated and solid fiber boxes	2653	9.77	9.75	9.88	9.92	-	412.29	412.43	418.91	422.59	
Sanitary food containers	2654	9.26	9.30	9.65	9.42	-	381.51	375.72	396.62	402.23	

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Nondurable goods—Continued											
Printing and publishing	27	38.0	37.6	37.8	38.2	37.9	3.0	2.7	2.9	3.1	-
Newspapers	271	33.5	33.6	33.3	33.6	-	1.3	1.5	1.2	1.4	-
Periodicals	272	39.2	38.5	38.3	38.5	-	2.9	3.0	3.3	3.4	-
Books	273	38.7	38.6	40.1	40.1	-	4.0	3.8	3.5	3.5	-
Book publishing	2731	38.2	38.1	39.6	39.1	-	3.8	3.5	3.4	3.2	-
Book printing	2732	39.4	39.6	40.9	41.7	-	4.3	4.3	3.5	4.0	-
Miscellaneous publishing	274	36.8	36.5	36.5	36.8	-	2.8	2.8	2.1	2.2	-
Commercial printing	275	39.6	39.1	39.1	39.4	-	3.6	3.2	3.5	3.8	-
Commercial printing, letterpress	2751	39.4	38.8	38.8	38.8	-	3.1	2.8	3.0	3.0	-
Commercial printing, lithographic	2752	39.5	39.1	39.0	39.5	-	3.8	3.3	3.5	4.1	-
Manifold business forms	276	40.9	40.3	41.1	41.9	-	3.0	2.6	3.3	3.9	-
Blankbooks and bookbinding	278	36.2	37.4	38.5	39.3	-	2.3	1.7	2.6	2.8	-
Printing trade services	279	38.4	37.6	38.3	38.9	-	3.7	2.8	4.0	4.1	-
Chemicals and allied products	28	42.1	42.2	42.5	42.6	42.4	3.9	3.8	4.0	4.2	-
Industrial inorganic chemicals	281	42.2	42.2	43.2	43.1	-	3.8	4.0	4.2	4.3	-
Industrial inorganic chemicals, nec	2819	42.9	42.8	43.3	43.3	-	3.8	3.8	4.1	4.3	-
Plastics materials and synthetics	282	42.8	43.1	43.2	43.3	-	4.2	4.1	4.6	4.6	-
Plastics materials and resins	2821	43.7	43.8	43.7	43.8	-	4.7	4.5	4.9	4.9	-
Organic fibers, noncellulosic	2824	41.8	42.6	42.6	42.8	-	3.5	3.8	4.0	4.1	-
Drugs	283	41.5	41.5	41.3	41.2	-	3.1	2.8	3.2	3.1	-
Pharmaceutical preparations	2834	41.9	41.3	41.2	41.2	-	3.3	2.9	3.2	3.1	-
Soap, cleaners, and toilet goods	284	41.1	40.5	41.2	41.3	-	3.3	2.7	3.2	3.5	-
Soap and other detergents	2841	43.6	42.3	43.5	44.1	-	5.2	4.2	5.1	5.8	-
Polishing, sanitation, and finishing preparations	2842,3	40.8	40.9	42.0	41.6	-	2.9	2.3	3.3	3.2	-
Toilet preparations	2844	39.9	39.3	39.6	39.6	-	2.4	2.0	2.2	2.5	-
Paints and allied products	285	41.6	41.4	41.8	42.3	-	3.5	3.2	3.3	3.9	-
Industrial organic chemicals	286	43.5	44.0	44.3	44.3	-	5.0	5.3	5.2	5.4	-
Cyclic crudes and intermediates	2865	42.6	43.8	41.9	41.8	-	5.1	5.3	4.3	4.5	-
Gum, wood, and industrial organic chemicals, nec	2861,9	43.7	44.1	45.0	45.0	-	5.0	5.3	5.5	5.6	-
Agricultural chemicals	287	43.0	43.4	43.1	43.5	-	4.9	5.4	4.7	5.4	-
Miscellaneous chemical products	289	41.2	41.2	41.5	41.8	-	3.2	3.2	3.4	3.6	-
Petroleum and coal products	29	43.9	43.8	43.0	43.6	44.1	5.1	5.0	4.7	4.8	-
Petroleum refining	291	44.2	43.9	43.4	43.6	-	4.9	4.7	4.6	4.4	-
Paving and roofing materials	295	43.6	44.6	42.0	44.5	-	6.7	7.1	5.5	7.0	-
Rubber and misc. plastics products	30	41.5	40.9	41.4	41.6	41.7	3.8	3.5	4.0	4.1	-
Tires and inner tubes	301	42.5	42.9	44.9	44.9	-	4.3	4.1	6.0	5.8	-
Rubber and plastics footwear	302	41.5	40.8	41.8	38.6	-	2.1	1.5	2.7	1.4	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	41.3	40.4	43.6	43.3	-	2.6	2.4	4.3	4.2	-
Fabricated rubber products, nec	306	41.6	40.3	41.3	41.6	-	3.7	3.0	3.7	3.7	-
Miscellaneous plastics products	307	41.3	40.7	40.9	41.2	-	3.9	3.5	3.8	4.0	-
Leather and leather products	31	37.5	36.7	36.9	37.5	36.7	1.8	1.6	1.6	1.8	-
Leather tanning and finishing	311	41.8	41.5	40.8	40.8	-	4.6	4.5	3.5	4.4	-
Footwear, except rubber	314	36.8	35.8	36.3	37.0	-	1.5	1.4	1.3	1.5	-
Men's footwear, except athletic	3143	37.7	36.2	36.8	37.9	-	1.5	1.4	1.4	1.5	-
Women's footwear, except athletic	3144	35.4	35.0	35.3	35.7	-	1.6	1.5	1.3	1.4	-
Luggage	316	38.9	39.4	39.6	40.0	-	1.3	1.3	1.6	2.4	-
Handbags and personal leather goods	317	37.2	34.9	36.0	36.7	-	1.8	1.0	2.1	2.4	-
Transportation and public utilities		38.9	38.8	38.9	38.7	38.9					
Railroad transportation:											
Class I railroads ³	4011	43.5	42.5	42.3	42.3	-	-	-	-	-	-
Local and interurban passenger transit	41	33.9	33.6	33.9	34.1	-	-	-	-	-	-
Local and suburban transportation	411	38.7	38.6	38.4	37.8	-	-	-	-	-	-
Intercity highway transportation	413	38.2	40.6	40.6	40.3	-	-	-	-	-	-
Trucking and warehousing	42	38.2	38.1	37.7	37.9	-	-	-	-	-	-
Trucking and trucking terminals	421,3	38.2	38.1	37.7	37.8	-	-	-	-	-	-
Public warehousing	422	38.0	37.9	38.7	38.7	-	-	-	-	-	-
Pipe lines, except natural gas	46	40.7	41.2	42.4	42.7	-	-	-	-	-	-

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					
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	
Nondurable goods—Continued												
Printing and publishing	27	\$10.17	\$10.14	\$10.41	\$10.44	\$10.40	\$386.46	\$381.26	\$393.50	\$398.81	\$394.16	
Newspapers	271	10.02	10.08	10.32	10.31	-	335.67	338.69	343.66	346.42	-	
Periodicals	272	10.67	10.70	10.70	10.78	-	418.26	411.95	409.81	415.03	-	
Books	273	9.18	9.13	9.41	9.29	-	355.27	352.42	377.34	372.53	-	
Book publishing	2731	8.73	8.70	9.03	8.90	-	333.49	331.47	357.59	347.99	-	
Book printing	2732	9.92	9.82	9.99	9.88	-	390.85	388.87	408.59	412.00	-	
Miscellaneous publishing	274	9.10	9.13	9.77	9.77	-	334.88	333.25	356.61	359.54	-	
Commercial printing	275	10.52	10.45	10.71	10.79	-	416.59	408.60	418.76	425.13	-	
Commercial printing, letterpress	2751	10.10	12.08	10.35	10.40	-	397.94	391.10	401.58	405.52	-	
Commercial printing, lithographic	2752	10.71	10.61	10.85	10.95	-	423.05	414.85	423.15	432.53	-	
Manifold business forms	276	10.50	10.59	10.80	10.84	-	429.45	426.78	443.88	454.20	-	
Blankbooks and bookbinding	278	8.10	8.00	8.27	8.28	-	309.42	299.20	318.40	325.40	-	
Printing trade services	279	12.49	12.44	12.89	12.89	-	479.62	467.74	493.69	501.42	-	
Chemicals and allied products	28	12.24	12.30	12.55	12.55	12.52	515.30	519.06	533.38	534.63	530.85	
Industrial inorganic chemicals	281	13.42	13.51	13.78	13.84	-	566.32	570.12	595.30	596.50	-	
Industrial inorganic chemicals, nec	2819	13.52	13.59	13.75	13.81	-	580.01	581.65	595.38	597.97	-	
Plastics materials and synthetics	282	12.37	12.47	12.75	12.74	-	529.44	537.46	550.80	551.64	-	
Plastics materials and resins	2821	13.31	13.49	13.66	13.67	-	581.65	590.86	596.94	598.75	-	
Organic fibers, noncellulosic	2824	11.90	11.90	12.30	12.27	-	497.42	506.94	523.98	525.16	-	
Drugs	283	11.51	11.54	11.95	11.96	-	477.67	478.91	493.54	492.75	-	
Pharmaceutical preparations	2834	11.12	11.26	11.59	11.59	-	465.93	465.04	477.51	477.51	-	
Soap, cleaners, and toilet goods	284	10.89	10.88	11.09	11.11	-	447.58	440.64	456.91	458.84	-	
Soap and other detergents	2841	14.06	14.04	14.55	14.64	-	613.02	593.89	632.93	645.62	-	
Polishing, sanitation, and finishing preparations	2842,3	10.10	9.99	10.02	10.12	-	412.08	408.59	420.84	420.99	-	
Toilet preparations	2844	9.31	9.36	9.61	9.56	-	371.47	367.85	380.56	378.58	-	
Paints and allied products	285	10.74	10.79	11.11	11.22	-	446.78	446.71	464.40	474.61	-	
Industrial organic chemicals	286	14.72	14.82	14.79	14.71	-	640.32	652.08	655.20	651.65	-	
Cyclic crudes and intermediates	2865	14.43	14.54	14.81	14.85	-	614.72	636.85	620.54	620.73	-	
Gum, wood, and industrial organic chemicals, nec	2861,9	14.81	14.90	14.79	14.67	-	647.20	657.09	665.55	660.15	-	
Agricultural chemicals	287	11.64	11.54	12.10	12.19	-	500.52	500.84	521.51	530.27	-	
Miscellaneous chemical products	289	11.22	11.32	11.46	11.44	-	462.26	466.38	475.59	478.19	-	
Petroleum and coal products	29	14.50	14.50	14.91	14.92	15.10	636.55	635.10	641.13	650.51	665.91	
Petroleum refining	291	15.62	15.69	15.94	16.00	-	690.40	688.79	691.80	697.60	-	
Paving and roofing materials	295	11.21	11.29	11.59	11.72	-	488.76	503.53	486.78	521.54	-	
Rubber and misc. plastics products	30	8.80	8.82	8.97	8.97	9.00	365.20	360.74	371.36	373.15	375.30	
Tires and inner tubes	301	13.87	13.75	14.27	14.16	-	589.48	589.88	640.72	635.78	-	
Rubber and plastics footwear	302	5.87	5.94	6.16	6.14	-	243.61	242.35	257.49	237.00	-	
Reclaimed rubber, and rubber and plastics hose and belting	303,4	8.85	8.88	8.96	8.97	-	365.51	358.75	390.66	388.40	-	
Fabricated rubber products, nec	306	8.47	8.52	8.69	8.66	-	352.35	343.36	358.90	360.26	-	
Miscellaneous plastics products	307	8.19	8.22	8.34	8.36	-	338.25	334.55	341.11	344.43	-	
Leather and leather products	31	6.06	6.12	6.14	6.19	6.27	227.25	224.60	226.57	232.13	230.11	
Leather tanning and finishing	311	8.10	8.12	8.20	8.37	-	338.58	336.98	334.56	341.50	-	
Footwear, except rubber	314	5.75	5.82	5.90	5.95	-	211.60	208.36	214.17	220.15	-	
Men's footwear, except athletic	3143	6.19	6.26	6.26	6.31	-	233.36	226.61	230.37	239.15	-	
Women's footwear, except athletic	3144	5.36	5.41	5.60	5.66	-	189.74	189.35	197.68	202.06	-	
Luggage	316	6.32	6.29	6.28	6.35	-	245.85	247.83	248.69	254.00	-	
Handbags and personal leather goods	317	5.81	5.86	5.75	5.80	-	216.13	204.51	207.00	212.86	-	
Transportation and public utilities		11.90	11.94	12.18	12.12	12.09	462.91	463.27	473.80	469.04	470.30	
Railroad transportation:												
Class I railroads ²	4011	14.13	14.23	14.20	13.95	-	614.66	604.78	600.66	590.09	-	
Local and interurban passenger transit	41	8.16	8.24	8.43	8.38	-	276.62	276.86	285.78	285.76	-	
Local and suburban transportation	411	8.80	8.85	9.05	8.99	-	340.56	341.61	347.52	339.82	-	
Intercity highway transportation	413	11.55	11.62	11.34	11.25	-	441.21	471.77	460.40	453.38	-	
Trucking and warehousing	42	10.77	10.83	10.90	10.90	-	411.41	412.62	410.93	413.11	-	
Trucking and trucking terminals	421,3	10.95	11.01	11.09	11.07	-	418.29	419.48	418.09	418.45	-	
Public warehousing	422	8.27	8.35	8.55	8.63	-	314.26	316.47	330.89	333.98	-	
Pipe lines, except natural gas	46	15.35	15.24	15.73	15.68	-	624.75	627.89	666.95	669.54	-	

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Transportation and public utilities—Continued											
Communication	48	39.5	39.8	39.9	39.6						
Telephone communication	481	40.6	41.0	41.2	41.1						
Radio and television broadcasting	483	36.4	36.3	36.2	35.8						
Electric, gas, and sanitary services	49	41.0	41.2	41.5	41.1						
Electric services	491	40.6	41.0	41.5	41.3						
Gas production and distribution	492	40.4	40.6	41.1	40.0						
Combination utility services	493	42.0	42.1	42.5	42.1						
Sanitary services	495	41.8	41.8	41.2	41.1						
Wholesale trade		37.9	38.1	38.0	38.0	38.3					
Durable goods	50	38.5	38.5	38.6	38.5						
Motor vehicles and automotive equipment	501	38.0	38.1	38.1	37.8						
Furniture and home furnishings	502	37.1	36.8	38.4	38.1						
Lumber and construction materials	503	38.8	39.1	38.7	39.3						
Sporting goods, toys, and hobby goods	504	36.6	36.2	35.8	36.1						
Metals and minerals, except petroleum	505	40.5	40.2	40.8	40.9						
Electrical goods	506	38.2	38.3	38.3	38.0						
Hardware, plumbing, and heating equipment	507	38.0	38.2	38.4	38.1						
Machinery, equipment, and supplies	508	38.9	38.9	39.0	38.8	-					
Miscellaneous durable goods	509	38.0	37.7	37.7	37.9						
Nondurable goods	51	37.2	37.4	37.2	37.2						
Paper and paper products	511	36.8	36.7	36.7	36.6						
Drugs, proprietaries, and sundries	512	37.3	37.1	36.9	37.3						
Apparel, piece goods, and notions	513	36.3	36.0	37.0	37.3	-					
Groceries and related products	514	37.5	37.9	37.5	37.5						
Chemicals and allied products	516	39.2	38.9	39.5	39.3						
Petroleum and petroleum products	517	38.8	38.8	39.0	38.1						
Beer, wine, and distilled beverages	518	35.7	35.9	35.1	35.5						
Miscellaneous nondurable goods	519	36.7	37.2	36.7	36.7						
Retail trade		28.9	29.2	28.6	28.7	29.0					
Building materials and garden supplies	52	36.3	36.5	36.0	36.3						
Lumber and other building materials	521	38.1	38.2	37.7	38.5						
Hardware stores	525	32.7	33.1	32.4	32.2						
General merchandise stores	53	27.7	28.4	25.6	26.4						
Department stores	531	27.5	28.2	25.1	26.0						
Variety stores	533	28.4	29.3	27.9	28.5						
Misc. general merchandise stores	539	29.2	29.9	28.4	28.7						
Food stores	54	29.4	30.1	29.7	29.5						
Grocery stores	541	29.6	30.4	29.7	29.6						
Retail bakeries	546	27.1	27.4	28.7	28.2						
Automotive dealers and service stations	55	36.3	36.5	36.5	36.3						
New and used car dealers	551,2	37.3	37.3	37.6	37.4						
Auto and home supply stores	553	38.8	39.2	38.2	38.2						
Gasoline service stations	554	33.7	34.0	34.1	33.8						
Apparel and accessory stores	56	26.1	27.0	26.0	26.7						
Men's and boys' clothing and furnishings	561	29.1	30.1	28.8	28.5						
Women's ready-to-wear stores	562	25.2	25.9	24.2	25.0						
Family clothing stores	565	26.3	27.2	26.0	26.6						
Shoe stores	566	26.8	28.4	27.2	27.9						
Furniture and home furnishings stores	57	32.9	32.7	32.7	32.6						
Furniture and home furnishings stores	571	32.6	32.6	33.1	33.2						
Household appliance stores	572	33.4	33.4	33.2	32.8						
Radio, television, and music stores	573	33.1	32.8	31.8	31.5						
Eating and drinking places ⁴	58	25.6	25.7	25.3	25.4	-					

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				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.27	\$12.28	\$12.58	\$12.57		\$484.67	\$488.74	\$501.94	\$497.77	
Telephone communication	481	13.05	13.03	13.34	13.30		529.83	534.23	549.61	546.63	
Radio and television broadcasting	483	10.66	10.80	11.28	11.35		388.02	392.04	408.34	406.33	
Electric, gas, and sanitary services	49	13.76	13.65	14.02	14.07		564.16	562.38	581.83	578.28	
Electric services	491	13.77	13.73	14.15	14.29		559.06	562.93	587.23	590.18	
Gas production and distribution	492	12.98	12.95	13.08	13.08		524.39	525.77	537.59	523.20	
Combination utility services	493	16.14	15.84	16.38	16.29		677.88	666.86	696.15	685.81	
Sanitary services	495	9.96	9.99	10.51	10.58	-	416.33	417.58	433.01	434.84	
Wholesale trade		9.53	9.53	9.80	9.78	\$9.88	361.19	363.09	372.40	371.64	\$378.40
Durable goods	50	9.64	9.65	9.96	9.96		371.14	371.53	384.46	383.46	
Motor vehicles and automotive equipment	501	8.58	8.59	8.99	8.99		326.04	327.28	342.52	339.82	
Furniture and home furnishings	502	8.83	8.92	9.06	9.02		327.59	328.26	347.90	343.66	
Lumber and construction materials	503	9.10	9.15	9.36	9.38		353.08	357.77	362.23	368.63	
Sporting goods, toys, and hobby goods	504	9.80	9.81	9.54	9.38		358.68	355.12	341.53	338.62	
Metals and minerals, except petroleum	505	10.34	10.28	10.52	10.53		418.77	413.26	429.22	430.68	
Electrical goods	506	9.91	9.91	10.35	10.34		378.56	379.55	396.41	392.92	
Hardware, plumbing, and heating equipment	507	9.16	9.17	9.36	9.40		348.08	350.29	359.42	358.14	
Machinery, equipment, and supplies	508	10.30	10.30	10.64	10.67		400.67	400.67	414.96	414.00	
Miscellaneous durable goods	509	7.73	7.67	7.90	7.80		293.74	289.16	297.83	295.62	
Nondurable goods	51	9.37	9.37	9.57	9.52		348.56	350.44	356.00	354.14	
Paper and paper products	511	10.02	10.01	10.35	10.39		368.74	367.37	379.85	380.27	
Drugs, proprietaries, and sundries	512	10.73	10.77	10.92	10.78		400.23	399.57	402.95	402.09	
Apparel, piece goods, and notions	513	9.17	9.23	9.35	9.28		332.87	332.28	345.95	346.14	
Groceries and related products	514	9.48	9.48	9.69	9.70		355.50	359.29	363.38	363.75	
Chemicals and allied products	516	11.97	12.10	12.18	12.13		469.22	470.69	481.11	476.71	
Petroleum and petroleum products	517	9.73	9.63	9.79	9.66		377.52	373.64	381.81	368.05	
Beer, wine, and distilled beverages	518	10.97	10.97	10.84	10.94		391.63	393.82	380.48	388.37	
Miscellaneous nondurable goods	519	7.67	7.66	7.84	7.75		281.49	284.95	287.73	284.43	
Retail trade		6.08	6.09	6.24	6.25	6.27	175.71	177.83	178.46	179.38	181.83
Building materials and garden supplies	52	6.92	6.94	7.23	7.23	-	251.20	253.31	260.28	262.45	
Lumber and other building materials	521	7.25	7.29	7.60	7.60		276.23	278.48	286.52	292.60	
Hardware stores	525	5.88	5.93	6.14	6.19		192.28	196.28	198.94	199.32	
General merchandise stores	53	6.43	6.45	6.48	6.48		178.11	183.18	165.89	171.07	
Department stores	531	6.73	6.75	6.78	6.79		185.08	190.35	170.18	176.54	
Variety stores	533	4.81	4.81	4.86	4.81		136.60	140.93	135.59	137.09	
Misc. general merchandise stores	539	5.07	5.03	5.23	5.25		148.04	150.40	148.53	150.68	
Food stores	54	6.95	6.97	6.98	7.01		204.33	209.80	207.31	206.80	
Grocery stores	541	7.10	7.12	7.11	7.14	-	210.16	216.45	211.17	211.34	
Retail bakeries	546	5.53	5.56	5.81	5.82		149.86	152.34	166.75	164.12	
Automotive dealers and service stations	55	7.67	7.73	7.93	8.06		278.42	282.15	289.45	292.58	
New and used car dealers	551,2	9.31	9.41	9.52	9.75		347.26	350.99	357.95	364.65	
Auto and home supply stores	553	6.58	6.62	6.91	7.00		255.30	259.50	263.96	267.40	
Gasoline service stations	554	5.45	5.47	5.66	5.63		183.67	185.98	193.01	190.29	
Apparel and accessory stores	56	5.48	5.53	5.67	5.70		143.03	149.31	147.42	152.19	
Men's and boys' clothing and furnishings	561	6.30	6.63	6.78	6.77		183.33	199.56	195.26	192.95	
Women's ready-to-wear stores	562	5.17	5.22	5.34	5.39		130.28	135.20	129.23	134.75	
Family clothing stores	565	5.49	5.43	5.49	5.46		144.39	147.70	142.74	145.24	
Shoe stores	566	5.45	5.56	5.83	5.93		146.06	157.90	158.58	165.45	-
Furniture and home furnishings stores	57	7.33	7.47	7.65	7.67		241.16	244.27	250.16	250.04	
Furniture and home furnishings stores	571	7.49	7.56	7.78	7.77	-	244.17	246.46	257.52	257.96	
Household appliance stores	572	7.24	7.35	7.64	7.63		241.82	245.49	253.65	250.26	
Radio, television, and music stores	573	7.09	7.35	7.42	7.51	-	234.68	241.08	235.96	236.57	
Eating and drinking places ⁴	58	4.39	4.38	4.50	4.50		112.38	112.57	113.85	114.30	

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Retail trade—Continued											
Miscellaneous retail	59	29.8	30.1	29.9	29.5	-	-	-	-	-	-
Drug stores and proprietary stores	591	27.7	28.0	27.4	27.2	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	28.1	28.5	28.2	28.2	-	-	-	-	-	-
Nonstore retailers	596	32.9	33.2	31.9	31.9	-	-	-	-	-	-
Fuel and ice dealers	598	38.6	37.6	39.8	38.5	-	-	-	-	-	-
Retail stores, nec	599	31.2	32.5	33.0	31.2	-	-	-	-	-	-
Finance, insurance, and real estate⁵		36.3	36.3	36.4	35.8	36.2	-	-	-	-	-
Banking	60	36.0	36.0	36.1	35.5	-	-	-	-	-	-
Commercial and stock savings banks	602	36.0	36.0	36.0	35.4	-	-	-	-	-	-
Credit agencies other than banks	61	36.6	36.8	36.8	36.1	-	-	-	-	-	-
Savings and loan associations	612	36.0	36.1	36.1	35.5	-	-	-	-	-	-
Personal credit institutions	614	36.2	36.5	36.9	36.4	-	-	-	-	-	-
Insurance carriers	63	37.6	37.4	37.7	37.3	-	-	-	-	-	-
Life insurance	631	37.0	37.0	37.3	36.8	-	-	-	-	-	-
Medical service and health insurance	632	38.1	38.1	38.9	38.3	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	37.5	37.2	37.4	37.0	-	-	-	-	-	-
Services		32.4	32.3	32.7	32.3	32.6	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁵	701	30.6	30.2	31.3	30.4	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	33.8	34.4	33.7	34.0	-	-	-	-	-	-
Beauty shops ⁴	723	29.8	29.7	29.4	29.4	-	-	-	-	-	-
Business services	73	33.4	33.3	33.7	33.6	-	-	-	-	-	-
Advertising	731	36.0	36.4	37.2	36.5	-	-	-	-	-	-
Services to buildings	734	28.6	28.6	29.1	29.0	-	-	-	-	-	-
Computer and data processing services	737	37.2	37.3	37.9	37.4	-	-	-	-	-	-
Auto repair, services, and garages	75	36.8	36.9	36.4	36.1	-	-	-	-	-	-
Automotive repair shops	753	38.2	38.4	37.8	37.9	-	-	-	-	-	-
Miscellaneous repair services	76	37.5	37.7	37.6	37.3	-	-	-	-	-	-
Motion pictures	78	28.6	28.0	30.1	29.4	-	-	-	-	-	-
Motion picture production and services	781	36.4	35.2	37.8	37.1	-	-	-	-	-	-
Amusement and recreation services	79	28.2	28.3	28.4	27.9	-	-	-	-	-	-
Health services	80	32.2	32.2	32.5	32.2	-	-	-	-	-	-
Offices of physicians	801	30.7	30.7	31.4	31.1	-	-	-	-	-	-
Offices of dentists	802	28.1	28.2	28.5	28.3	-	-	-	-	-	-
Nursing and personal care facilities	805	31.2	31.2	31.7	31.1	-	-	-	-	-	-
Hospitals	806	34.1	34.0	34.2	33.9	-	-	-	-	-	-
Legal services	81	34.2	34.5	35.2	34.4	-	-	-	-	-	-
Miscellaneous services	89	39.0	39.2	39.2	39.0	-	-	-	-	-	-
Engineering and architectural services	891	39.5	39.4	39.3	39.4	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	39.2	39.9	39.8	39.5	-	-	-	-	-	-

See footnotes at end of table.

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

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

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.31	\$6.31	\$6.50	\$6.49	-	\$188.04	\$189.93	\$194.35	\$191.46	
Drug stores and proprietary stores	591	5.84	5.85	6.06	6.05	-	161.77	163.80	166.04	164.56	-
Miscellaneous shopping goods stores	594	5.87	5.87	6.11	6.11	-	164.95	167.30	172.30	172.30	-
Nonstore retailers	596	7.09	7.19	7.26	7.27	-	233.26	238.71	231.59	231.91	
Fuel and ice dealers	598	9.10	8.98	9.43	9.21	-	351.26	337.65	375.31	354.59	
Retail stores, nec	599	6.46	6.46	6.47	6.52	-	201.55	209.95	213.51	203.42	
Finance, insurance, and real estate⁵		8.72	8.71	9.06	9.01	\$9.03	316.54	316.17	329.78	322.56	\$326.89
Banking	60	7.50	7.46	7.75	7.72	-	270.00	268.56	279.78	274.06	-
Commercial and stock savings banks	602	7.25	7.20	7.52	7.46	-	261.00	259.20	270.72	264.08	-
Credit agencies other than banks	61	7.90	7.87	8.12	8.10	-	289.14	289.62	298.82	292.41	-
Savings and loan associations	612	7.31	7.32	7.62	7.62	-	263.16	264.25	275.08	270.51	-
Personal credit institutions	614	7.44	7.36	7.61	7.63	-	269.33	268.64	280.81	277.73	-
Insurance carriers	63	9.53	9.54	10.07	10.06	-	358.33	356.80	379.64	375.24	-
Life insurance	631	9.08	9.11	9.72	9.72	-	335.96	337.07	362.56	357.70	-
Medical service and health insurance	632	9.44	9.34	9.67	9.69	-	359.66	355.85	376.16	371.13	-
Fire, marine, and casualty insurance	633	9.83	9.86	10.51	10.43	-	368.63	366.79	393.07	385.91	-
Services		8.41	8.40	8.79	8.79	8.81	272.48	271.32	287.43	283.92	287.21
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁵	701	6.07	6.10	6.38	6.31	-	185.74	184.22	199.69	191.82	-
Personal services:											
Laundry, cleaning, and garment services	721	6.08	6.08	6.23	6.23	-	205.50	209.15	209.95	211.82	-
Beauty shops ⁴	723	6.19	6.38	6.48	6.80	-	184.46	189.49	190.51	199.92	-
Business services	73	8.61	8.62	9.02	8.98	-	287.57	287.05	303.97	301.73	-
Advertising	731	11.69	11.63	12.28	12.26	-	420.84	423.33	456.82	447.49	-
Services to buildings	734	6.60	6.71	6.71	6.77	-	188.76	191.91	195.26	196.33	-
Computer and data processing services	737	11.99	11.95	12.48	12.35	-	446.03	445.74	472.99	461.89	-
Auto repair, services, and garages	75	7.72	7.76	8.06	8.06	-	284.10	286.34	293.38	290.97	-
Automotive repair shops	753	8.34	8.37	8.68	8.71	-	318.59	321.41	328.10	330.11	-
Miscellaneous repair services	76	8.98	8.98	9.39	9.41	-	336.75	338.55	353.06	350.99	-
Motion pictures	78	12.15	11.90	12.51	12.83	-	347.49	333.20	376.55	377.20	-
Motion picture production and services	781	16.14	15.96	16.34	16.80	-	587.50	561.79	617.65	623.28	-
Amusement and recreation services	79	7.40	7.34	7.62	7.60	-	208.68	207.72	216.41	212.04	-
Health services	80	8.57	8.60	9.01	9.04	-	275.95	276.92	292.83	291.09	-
Offices of physicians	801	8.31	8.29	8.65	8.65	-	255.12	254.50	271.61	269.02	-
Offices of dentists	802	8.44	8.45	8.75	8.79	-	237.16	238.29	249.38	248.76	-
Nursing and personal care facilities	805	5.90	5.93	6.20	6.20	-	184.08	185.02	196.54	192.82	-
Hospitals	806	9.66	9.72	10.25	10.28	-	329.41	330.48	350.55	348.49	-
Legal services	81	11.92	11.69	12.49	12.41	-	407.66	403.31	439.65	426.90	-
Miscellaneous services	89	11.93	11.81	12.28	12.23	-	465.27	462.95	481.38	476.97	-
Engineering and architectural services	891	12.98	12.88	13.28	13.25	-	512.71	507.47	521.90	522.05	-
Accounting, auditing, and bookkeeping	893	10.06	9.93	10.36	10.28	-	394.35	396.21	412.33	406.06	-

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	13.96	^P 13.99									
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	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	14.29	^P 14.32									

^P = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

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

Industry	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Manufacturing	\$9.44	\$9.48	\$9.63	\$9.64	\$9.67
Durable goods	9.95	9.98	10.14	10.14	10.18
Lumber and wood products	7.92	7.99	8.21	8.13	(?)
Furniture and fixtures	7.34	7.37	7.52	7.55	(?)
Stone, clay, and glass products	9.59	9.67	9.82	9.81	(?)
Primary metal industries	11.21	11.37	11.41	11.43	(?)
Fabricated metal products	9.56	9.60	9.73	9.74	(?)
Machinery, except electrical	10.25	10.27	10.37	10.37	(?)
Electrical and electronic equipment	9.51	9.52	9.68	9.69	(?)
Transportation equipment	12.23	12.22	12.55	12.56	(?)
Instruments and related products	9.34	9.38	9.59	9.50	(?)
Miscellaneous manufacturing	7.44	7.46	7.66	7.66	(?)
Nondurable goods	8.72	8.79	8.91	8.93	\$8.96
Food and kindred products	8.56	8.58	8.66	8.67	(?)
Tobacco manufactures	13.45	13.96	13.51	13.85	(?)
Textile mill products	6.76	6.80	6.98	7.00	(?)
Apparel and other textile products	5.79	5.84	5.89	5.90	(?)
Paper and allied products	10.68	10.77	10.89	10.90	(?)
Printing and publishing	9.79	9.79	10.02	10.03	(?)
Chemicals and allied products	11.70	11.77	11.99	11.97	(?)
Petroleum and coal products	13.71	13.72	14.15	14.15	(?)
Rubber and misc. plastics products	8.41	8.46	8.55	8.55	(?)
Leather and leather products	5.92	5.99	6.01	6.04	(?)

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 workers on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.

Industry	Average hourly earnings					Average weekly earnings				
	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p	Mar. 1987	Apr. 1987	Feb. 1988	Mar. 1988 ^p	Apr. 1988 ^p
Total private:										
Current dollars	\$8.92	\$8.91	\$9.18	\$9.19	\$9.22	\$308.63	\$308.29	\$316.71	\$317.06	\$320.86
Constant (1977) dollars	4.90	4.87	4.88	4.86	(¹)	169.48	168.28	168.19	167.76	(¹)
Mining:										
Current dollars	12.51	12.43	12.61	12.50	\$12.44	522.92	519.57	525.84	520.00	\$529.94
Constant (1977) dollars	6.87	6.79	6.70	6.61	(¹)	287.16	283.76	279.26	275.13	(¹)
Construction:										
Current dollars	12.59	12.55	12.77	12.83	\$12.83	470.87	469.37	462.27	481.13	\$487.54
Constant (1977) dollars	6.92	6.85	6.78	6.79	(¹)	258.58	256.35	245.50	254.57	(¹)
Manufacturing:										
Current dollars	9.85	9.87	10.06	10.07	\$10.12	402.87	398.75	409.44	412.87	\$414.92
Constant (1977) dollars	5.41	5.39	5.34	5.33	(¹)	221.24	217.78	217.44	218.45	(¹)
Transportation and public utilities:										
Current dollars	11.90	11.94	12.18	12.12	\$12.09	462.91	463.27	473.80	469.04	\$470.30
Constant (1977) dollars	6.53	6.52	6.47	6.41	(¹)	254.21	253.01	251.62	248.17	(¹)
Wholesale trade:										
Current dollars	9.53	9.53	9.80	9.78	\$9.88	361.19	363.09	372.40	371.64	\$378.40
Constant (1977) dollars	5.23	5.21	5.20	5.17	(¹)	198.35	198.30	197.77	196.63	(¹)
Retail trade:										
Current dollars	6.08	6.09	6.24	6.25	\$6.27	175.71	177.83	178.46	179.38	\$181.83
Constant (1977) dollars	3.34	3.33	3.31	3.31	(¹)	96.49	97.12	94.77	94.91	(¹)
Finance, insurance, and real estate:										
Current dollars	8.72	8.71	9.06	9.01	\$9.03	316.54	316.17	329.78	322.56	\$326.89
Constant (1977) dollars	4.79	4.76	4.81	4.77	(¹)	173.83	172.68	175.14	170.67	(¹)
Services:										
Current dollars	8.41	8.40	8.79	8.79	\$8.81	272.48	271.32	287.43	283.92	\$287.21
Constant (1977) dollars	4.62	4.59	4.67	4.65	(¹)	149.63	148.18	152.64	150.22	(¹)

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

² Not available.
^p = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. ^P	Apr. ^P
Total private	34.7	34.9	34.8	34.8	34.9	34.6	34.9	34.9	34.6	34.8	34.9	34.6	34.9
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	40.6	41.0	41.0	41.0	41.0	40.6	41.3	41.2	41.0	41.2	41.0	41.0	41.2
<i>Overtime hours</i>	3.5	3.8	3.7	3.8	3.8	3.6	4.0	3.9	3.8	3.9	3.7	3.7	4.0
Durable goods	41.2	41.6	41.5	41.6	41.6	41.0	41.9	41.9	41.5	41.7	41.6	41.6	41.9
<i>Overtime hours</i>	3.6	3.9	3.8	3.8	4.0	3.7	4.1	4.0	3.9	4.0	3.8	3.8	4.2
Lumber and wood products	40.6	41.0	40.6	40.6	40.4	39.4	40.4	40.8	40.4	40.1	40.4	40.1	40.3
Furniture and fixtures	39.1	39.9	40.0	40.0	40.1	39.3	40.0	40.0	39.8	39.4	39.7	39.3	39.3
Stone, clay, and glass products	41.9	42.3	42.0	42.2	42.1	41.9	42.6	42.5	42.5	42.0	42.4	42.5	42.4
Primary metal industries	42.3	43.1	43.1	43.4	43.5	43.4	43.7	43.7	43.6	43.5	43.2	43.2	43.4
Blast furnaces and basic steel products ..	42.4	43.3	43.5	44.1	44.0	45.2	44.3	44.0	44.3	44.0	43.7	43.5	43.5
Fabricated metal products	41.2	41.6	41.5	41.4	41.5	40.8	42.0	42.1	41.7	41.9	41.5	41.5	42.0
Machinery, except electrical	41.8	42.2	42.2	42.4	42.2	41.6	42.6	42.7	42.5	42.8	42.6	42.5	42.8
Electrical and electronic equipment	40.6	40.8	41.1	41.1	41.0	40.4	41.1	41.0	40.9	41.2	40.9	41.0	41.2
Transportation equipment	41.9	42.2	41.9	41.7	41.9	41.3	42.5	42.4	41.4	42.3	42.1	42.3	43.0
Motor vehicles and equipment	42.1	42.5	42.0	41.9	41.9	41.3	43.0	43.1	41.4	42.4	42.6	42.8	43.8
Instruments and related products	41.0	41.5	41.5	41.6	41.7	41.1	42.1	41.7	41.3	41.9	41.3	41.4	41.8
Miscellaneous manufacturing	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Nondurable goods	39.7	40.2	40.2	40.3	40.3	40.1	40.5	40.4	40.3	40.4	40.3	40.1	40.2
<i>Overtime hours</i>	3.3	3.7	3.6	3.7	3.7	3.6	3.8	3.8	3.7	3.8	3.6	3.5	3.6
Food and kindred products	39.8	40.1	40.1	39.9	40.3	40.2	40.5	40.6	40.6	40.8	40.4	40.0	40.2
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	41.4	42.0	42.1	42.4	42.1	41.3	41.9	41.8	41.7	41.7	41.9	41.4	41.7
Apparel and other textile products	36.1	37.2	37.1	37.3	37.4	36.3	37.4	37.1	37.2	36.9	37.0	37.1	37.2
Paper and allied products	43.0	43.5	43.3	43.5	43.4	43.8	43.7	43.5	43.2	43.6	43.3	43.1	43.3
Printing and publishing	37.7	37.9	38.1	38.1	37.9	38.2	38.0	38.0	37.9	38.0	38.1	38.1	38.0
Chemicals and allied products	42.2	42.1	42.0	42.2	42.4	42.8	42.7	42.7	42.7	42.7	42.6	42.5	42.4
Petroleum and coal products	43.9	44.3	43.3	44.4	43.3	43.2	43.5	43.6	44.3	44.2	43.6	43.7	44.2
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	39.2	38.8	39.2	39.3	39.1	39.3	39.1	39.0	39.4	39.1	38.7	39.1
Wholesale trade	38.2	38.3	38.2	38.1	38.3	38.0	38.4	38.3	38.1	38.2	38.3	38.2	38.4
Retail trade	29.5	29.4	29.2	29.3	29.6	29.6	29.3	29.2	28.8	29.0	29.2	29.0	29.3
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.6	32.4	32.6	32.9	32.4	32.7

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

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

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

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

**ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED**

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

(1977 = 100)

Industry	1987									1988			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. ^P	Apr. ^P
Total private	119.6	120.2	120.0	120.6	121.2	120.4	121.9	122.2	121.8	122.4	123.7	123.1	124.3
Goods-producing	98.0	99.2	98.9	99.5	99.7	97.7	101.3	101.4	101.6	100.6	101.6	102.2	102.9
Mining	81.3	83.4	83.5	85.0	85.2	84.9	87.7	86.4	85.8	82.7	83.9	84.3	88.5
Construction	132.8	134.3	132.6	133.2	133.6	124.9	136.8	136.1	138.5	130.5	137.6	142.4	141.6
Manufacturing	92.1	93.1	93.1	93.6	93.8	93.1	95.0	95.4	95.2	95.6	95.5	95.3	96.1
Durable goods	89.6	90.5	90.5	90.6	91.2	90.1	92.6	93.0	92.6	93.0	92.9	92.8	93.9
Lumber and wood products	102.0	103.2	101.7	102.4	101.2	99.2	101.7	104.2	103.7	102.6	103.7	102.6	103.4
Furniture and fixtures	105.7	109.0	109.5	111.6	111.7	109.7	112.7	113.3	113.5	112.6	113.2	111.8	111.5
Stone, clay, and glass products	86.3	86.9	86.1	86.1	86.1	85.9	87.7	88.1	88.7	86.7	87.7	88.1	88.5
Primary metal industries	62.1	63.1	63.5	64.4	65.0	65.9	66.8	67.3	67.1	66.6	66.6	66.6	67.1
Blast furnaces and basic steel products	49.6	50.7	51.4	52.6	53.0	55.2	54.9	55.0	55.1	54.8	54.9	54.6	54.4
Fabricated metal products	88.4	89.0	89.1	89.0	89.4	88.2	91.3	92.2	91.7	92.2	91.6	91.6	93.2
Machinery, except electrical	84.8	86.0	86.5	87.0	87.4	86.7	89.3	90.1	90.1	91.3	91.1	91.4	92.9
Electrical and electronic equipment	99.0	99.4	99.9	100.6	100.8	99.3	102.0	102.0	102.7	103.1	102.4	102.9	103.5
Transportation equipment	96.6	97.3	96.6	94.3	97.4	95.2	97.8	97.3	94.9	96.4	95.9	95.5	97.9
Motor vehicles and equipment	85.6	86.1	85.1	81.5	86.1	83.3	86.9	86.7	83.0	83.8	84.4	84.5	87.7
Instruments and related products	101.0	102.0	102.2	103.0	103.0	102.1	105.1	104.6	103.6	105.7	104.7	104.7	106.0
Miscellaneous manufacturing	79.9	81.0	81.4	81.9	82.3	80.7	82.7	82.5	82.0	82.8	83.9	83.1	83.5
Nondurable goods	95.7	97.0	97.0	98.1	97.7	97.4	98.7	99.0	99.2	99.6	99.4	99.0	99.3
Food and kindred products	99.3	99.6	99.3	99.6	99.5	99.1	100.3	101.4	101.4	103.2	102.4	101.1	101.5
Tobacco manufactures	77.3	80.1	76.3	73.1	71.0	72.4	73.8	75.4	78.5	78.9	77.7	75.6	72.8
Textile mill products	81.3	82.9	83.3	84.8	83.7	82.4	83.7	83.8	83.6	83.3	84.1	82.8	82.7
Apparel and other textile products	83.5	85.8	85.9	88.2	86.6	84.8	87.8	87.6	87.3	86.4	86.3	86.5	86.9
Paper and allied products	99.5	100.5	100.0	100.8	100.4	101.9	101.3	101.0	100.5	101.5	101.2	100.3	100.8
Printing and publishing	128.7	130.0	131.1	131.4	131.4	132.6	132.3	133.0	133.1	134.4	135.4	135.8	135.8
Chemicals and allied products	93.4	93.7	92.8	94.5	95.5	96.4	96.3	97.0	97.8	97.8	97.4	98.0	98.1
Petroleum and coal products	82.9	84.5	83.4	84.7	83.4	83.2	84.5	83.9	86.9	85.9	83.9	83.4	84.3
Rubber and misc. plastics products	112.6	114.5	114.8	115.0	115.5	115.5	118.4	119.3	119.8	120.2	119.8	120.2	121.6
Leather and leather products	57.4	59.5	59.7	62.2	61.4	60.0	61.1	60.2	60.2	60.2	59.7	59.7	57.8
Service-producing	131.5	131.9	131.7	132.3	133.1	132.9	133.3	133.6	133.0	134.4	135.9	134.7	136.2
Transportation and public utilities	107.9	108.5	107.6	109.0	109.7	109.9	110.9	110.7	110.5	112.0	111.6	110.9	112.5
Wholesale trade	117.4	117.7	117.6	117.5	118.2	117.3	118.8	119.0	118.8	119.6	120.3	120.8	121.8
Retail trade	121.6	121.2	120.4	121.2	122.4	122.5	121.9	121.6	120.1	122.0	123.4	122.3	123.5
Finance, insurance, and real estate	142.0	142.5	142.7	142.0	143.0	141.4	142.2	142.9	141.1	143.1	143.2	141.1	143.1
Services	150.3	151.2	151.7	152.5	152.9	152.9	153.5	154.6	154.5	155.7	158.6	156.8	158.4

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

^P = preliminary.

NOTE: Establishment survey estimates 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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. ^p	Apr. ^p
Hourly Earnings Index²(1977 = 100)													
Total private (in current dollars)	172.6	172.9	172.9	173.2	174.1	174.6	174.9	175.8	175.7	176.4	176.5	176.8	177.6
Mining	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Construction	153.7	154.1	155.0	154.3	154.7	154.0	154.7	156.6	154.4	157.1	155.8	156.9	157.3
Manufacturing	175.0	174.4	174.7	174.7	175.5	176.7	176.3	176.6	176.9	176.9	177.3	177.5	178.0
Transportation and public utilities	175.2	176.2	175.6	176.4	177.0	176.6	176.9	177.1	177.4	176.9	177.8	177.8	177.7
Wholesale trade	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Retail trade	159.8	160.2	160.3	160.9	161.5	162.7	162.2	162.3	162.7	163.1	162.7	163.3	164.5
Finance, insurance, and real estate	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Services	179.4	179.9	179.9	180.5	182.4	182.3	183.9	185.2	185.1	186.4	186.0	187.1	188.4
Total private (in constant dollars) ⁴	94.2	94.0	93.8	93.7	93.7	93.8	93.6	93.8	93.6	93.7	93.6	93.4	(³)
Average hourly earnings													
Total private	\$8.91	\$8.95	\$8.94	\$8.96	\$9.02	\$9.02	\$9.08	\$9.12	\$9.11	\$9.15	\$9.13	\$9.17	\$9.22
Mining	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)	(³)
Construction	\$12.61	\$12.65	\$12.72	\$12.67	\$12.71	\$12.67	\$12.68	\$12.84	\$12.65	\$12.87	\$12.74	\$12.86	\$12.89
Manufacturing	9.86	9.88	9.88	9.87	9.93	10.02	10.00	10.01	10.02	10.02	10.03	10.04	10.11
Transportation and public utilities	11.96	12.05	11.97	12.04	12.08	12.04	12.09	12.09	12.10	12.07	12.13	12.13	12.11
Wholesale trade	9.52	9.59	9.58	9.59	9.68	9.65	9.72	9.75	9.69	9.77	9.75	9.78	9.87
Retail trade	6.08	6.09	6.10	6.11	6.13	6.19	6.16	6.17	6.21	6.21	6.19	6.22	6.26
Finance, insurance, and real estate	8.69	8.74	8.68	8.74	8.88	8.79	8.85	8.97	8.84	8.99	8.97	8.95	9.01
Services	8.39	8.41	8.40	8.44	8.54	8.53	8.60	8.67	8.65	8.72	8.70	8.75	8.80
Average weekly earnings													
Total private:													
In current dollars	309.18	312.36	311.11	311.81	314.80	312.09	316.89	318.29	315.21	318.42	318.64	317.28	321.78
In constant (1977) dollars ⁴	168.67	169.85	168.71	168.64	169.43	167.61	169.55	169.94	168.02	169.10	168.95	167.61	(³)

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

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

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

components and consequently cannot be separated with sufficient precision.

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

⁵ Not available.

^p = preliminary.

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

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Alabama	40.9	40.8	41.0	\$8.71	\$8.98	\$8.98	\$356.24	\$366.38	\$368.18
Birmingham	40.8	41.3	41.9	8.83	9.15	9.10	360.26	377.90	381.29
Mobile	41.7	40.9	40.7	10.14	10.60	10.54	422.84	433.54	428.98
Alaska	42.9	38.9	43.8	12.13	11.87	11.39	520.38	453.96	498.88
Arizona	40.3	40.9	41.0	9.92	9.74	9.89	399.78	398.37	405.49
Arkansas	40.7	40.7	40.7	7.81	8.01	8.04	317.87	328.01	327.23
Fayetteville-Springdale	40.1	42.0	41.1	7.11	7.25	7.32	285.11	304.50	300.85
Fort Smith	41.0	41.3	40.4	8.36	8.58	8.58	342.78	354.35	345.82
Little Rock-North Little Rock	41.2	40.3	40.8	8.55	8.63	8.70	352.28	347.79	354.98
Pine Bluff	41.5	42.3	42.2	10.81	10.61	10.52	448.82	448.60	443.94
California	40.4	(¹)	(¹)	10.70	(¹)	(¹)	432.28	(¹)	(¹)
Colorado	40.8	39.7	39.9	10.05	10.29	10.27	408.03	408.51	409.77
Denver	38.4	39.3	39.6	10.77	10.55	10.81	413.57	414.62	420.16
Connecticut	42.1	41.6	41.9	10.31	10.72	10.76	434.05	445.95	450.84
Bridgeport-Milford	41.9	42.4	42.1	10.87	11.22	11.24	455.45	475.73	473.20
Hartford	42.5	42.6	42.8	10.64	10.99	11.04	452.20	468.17	472.51
New Haven-Meriden	40.9	40.3	40.4	9.88	10.16	10.19	404.09	409.45	411.88
Stamford	40.3	40.2	40.7	11.17	11.60	12.08	450.15	474.36	491.66
Waterbury	43.2	42.2	42.5	9.02	9.28	9.12	389.88	391.62	387.60
Delaware	42.3	40.2	38.8	10.79	10.65	10.75	456.42	428.13	417.10
Wilmington	43.7	40.8	40.6	12.89	12.92	13.00	554.55	527.14	527.80
District of Columbia:									
Washington MSA	39.3	39.5	38.7	10.75	10.77	11.08	422.48	425.42	428.80
Florida	40.7	40.7	40.5	8.10	8.25	8.28	329.67	335.76	335.34
Fort Lauderdale-Hollywood-Pompano Beach	42.8	41.7	41.2	7.89	8.31	8.41	336.11	346.53	346.49
Jacksonville	41.7	41.2	40.3	6.84	6.94	6.99	368.63	368.33	362.30
Miami-Hialeah	39.1	39.5	39.3	6.97	7.12	7.16	272.53	281.24	281.39
Orlando	40.7	41.2	40.3	8.48	8.64	8.76	345.14	355.97	353.03
Pensacola	41.8	39.9	41.4	10.50	10.87	10.88	438.90	433.71	450.43
Tampa-St. Petersburg-Clearwater	40.2	40.5	40.9	7.49	7.84	7.91	301.10	317.52	323.52
West Palm Beach-Boca Raton-Delray Beach	42.9	43.0	42.1	9.15	9.40	9.28	392.54	404.20	390.69
Georgia	41.0	41.6	41.4	8.43	8.55	8.80	345.63	355.68	356.04
Atlanta	41.0	41.9	41.8	10.00	10.05	10.17	410.00	421.10	425.11
Savannah	44.0	47.6	47.4	10.69	11.16	11.33	470.36	531.22	537.04
Hawaii	39.3	40.7	40.5	9.18	9.65	9.72	360.77	392.76	393.66
Honolulu	39.5	40.0	40.1	9.38	9.77	9.80	370.51	390.80	392.98
Idaho	37.8	37.1	37.5	9.56	9.74	9.55	361.37	361.35	358.13
Illinois	41.5	41.9	41.9	10.85	11.06	11.10	450.28	463.41	465.09
Aurora-Elgin	41.9	42.1	41.7	10.37	10.58	10.63	434.50	445.42	443.27
Bloomington-Normal	39.3	40.0	41.3	10.56	11.11	11.14	415.01	444.40	460.08
Champaign-Urbana-Rantoul	39.5	40.9	39.6	9.44	9.24	9.27	372.88	377.92	368.95
Chicago	41.8	42.4	42.4	10.58	10.70	10.71	442.24	453.68	454.10
Davenport-Rock Island-Moline	40.7	40.0	40.2	12.90	12.65	12.52	525.03	506.00	503.30
Decatur	41.6	42.6	42.3	13.97	14.16	14.12	581.15	603.22	597.28
Joliet	40.8	41.4	41.6	11.48	11.90	11.89	468.36	492.66	494.82
Lake County	39.5	40.8	40.7	10.67	11.14	11.21	421.47	454.51	456.25
Peoria	42.2	46.4	44.6	12.97	13.45	13.40	547.33	624.08	597.64
Rockford	41.4	42.9	42.7	10.68	11.73	11.78	442.15	503.22	503.01
Springfield	42.5	41.6	42.6	11.48	11.43	11.35	487.05	475.49	483.51
Indiana	41.7	40.8	41.6	11.03	11.29	11.31	459.95	460.63	470.50

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Iowa	40.9	41.5	41.5	\$10.53	\$10.61	\$10.54	\$430.68	\$440.32	\$437.41
Cedar Rapids	40.2	40.3	39.8	11.41	11.77	11.94	458.68	474.33	475.21
Des Moines	41.5	43.6	42.7	11.71	11.94	11.80	485.97	520.58	503.86
Dubuque	41.7	40.7	39.9	12.85	11.97	12.02	535.85	487.18	479.60
Sioux City	39.4	34.7	35.5	9.00	8.27	8.38	354.60	286.97	297.49
Kansas	41.1	40.4	40.8	10.07	10.05	10.02	413.88	406.02	408.82
Topeka	42.2	43.9	43.8	10.99	11.62	11.34	463.78	510.12	496.69
Wichita	39.0	40.6	41.2	10.85	10.39	10.35	423.15	421.83	426.42
Kentucky	40.0	39.8	40.3	9.92	10.08	10.04	396.80	401.18	404.61
Lexington-Fayette	40.1	40.1	39.3	10.41	10.19	10.17	417.44	408.62	399.68
Louisville	41.2	41.1	41.3	11.19	11.65	11.74	461.03	478.82	484.86
Louisiana	41.8	41.9	42.3	10.95	10.83	10.78	457.71	453.78	455.99
Baton Rouge	42.8	43.3	42.7	12.13	12.49	12.40	519.16	540.82	529.48
New Orleans	40.4	40.3	40.9	10.68	10.51	10.29	431.47	423.55	420.86
Shreveport	40.2	40.5	41.3	12.07	11.46	11.64	485.21	464.13	480.73
Maine	41.7	40.0	41.0	8.71	8.90	8.81	363.21	356.00	361.21
Lewiston-Auburn	40.1	39.0	41.4	7.27	7.82	7.75	291.53	304.98	320.85
Portland	39.9	39.9	42.5	9.19	9.47	9.41	366.68	377.85	399.93
Maryland	40.8	40.6	40.6	10.08	10.25	10.29	411.26	416.15	417.77
Baltimore MSA	41.8	41.7	42.0	10.74	11.05	11.07	448.93	460.79	464.94
Massachusetts	40.9	40.4	41.4	9.58	10.06	10.08	391.82	406.42	417.31
Boston	40.6	41.2	41.7	10.48	10.84	10.85	425.49	446.61	452.45
Springfield	42.3	42.1	42.7	9.11	9.51	9.50	385.35	400.37	405.65
Worcester	40.9	39.8	40.7	9.68	10.22	10.26	395.91	406.76	417.58
Michigan	42.8	42.1	42.7	12.99	13.26	13.28	555.97	558.25	567.06
Ann Arbor	45.1	44.3	44.7	14.04	14.10	14.28	633.20	624.63	638.32
Battle Creek	43.8	41.5	41.6	13.48	14.01	14.75	590.42	581.41	613.60
Detroit	44.1	43.5	43.6	13.80	14.19	14.17	608.58	617.26	617.81
Flint	44.4	41.2	42.7	14.92	16.55	16.48	662.45	681.86	703.70
Grand Rapids	40.2	40.3	40.9	11.09	11.23	11.39	445.82	452.57	465.85
Kalamazoo	43.2	42.8	42.1	12.10	12.29	12.32	522.72	526.01	518.67
Lansing-East Lansing	43.0	40.1	43.7	14.16	14.57	14.52	608.88	584.26	634.52
Muskegon	40.9	40.5	39.9	11.65	12.08	12.02	476.48	489.24	479.60
Saginaw-Bay City-Midland	43.2	42.2	43.0	14.48	15.00	15.13	625.54	633.00	650.59
Minnesota	40.7	40.5	40.3	10.41	10.45	10.39	423.69	423.23	418.72
Duluth	38.0	38.7	39.2	10.94	11.13	11.14	415.72	430.73	436.69
Minneapolis-St. Paul	40.8	40.8	40.7	11.16	11.11	11.10	455.33	453.29	451.77
St. Cloud	39.5	39.7	39.3	9.09	9.53	9.70	359.06	378.34	381.21
Mississippi	39.9	39.5	40.0	7.59	7.76	7.76	302.84	306.52	310.40
Jackson	39.6	40.5	40.5	8.57	8.72	8.85	339.37	353.16	358.43
Missouri	40.1	40.0	40.5	10.02	10.10	10.11	401.80	404.00	409.46
Kansas City	40.2	39.4	40.8	11.50	11.44	11.63	462.30	450.74	474.50
St. Louis	41.2	41.0	41.4	11.53	11.65	11.70	475.04	477.65	484.38
Springfield	39.5	39.0	39.6	8.70	8.53	8.50	343.65	332.67	336.60
Montana	37.4	39.7	38.9	10.69	10.58	10.43	399.81	420.03	405.73
Nebraska	40.0	40.0	40.0	9.30	9.44	9.46	372.00	377.60	378.40
Lincoln	40.4	40.8	41.2	9.81	10.12	9.93	396.32	412.90	409.12
Omaha	39.8	41.1	41.2	9.85	10.20	10.23	392.03	419.22	421.48
Nevada	40.9	39.8	39.7	9.59	9.91	10.06	392.23	394.42	399.38
Las Vegas	40.7	39.9	39.8	11.60	12.30	12.69	472.12	490.77	505.06
New Hampshire	41.1	39.1	40.3	9.09	9.49	9.52	373.60	371.06	383.66
Nashua	42.0	39.1	41.3	11.01	11.69	11.68	462.42	457.08	482.38

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
New Jersey	41.5	41.1	41.3	\$10.24	\$10.77	\$10.77	\$424.96	\$442.65	\$444.80
New Mexico	40.2	41.1	40.9	8.49	8.79	8.66	341.30	361.27	354.19
Albuquerque	39.5	40.8	41.3	8.89	9.26	9.25	351.16	377.81	382.03
New York	40.0	39.6	39.8	10.03	10.23	10.30	401.20	405.11	409.94
Albany-Schenectady-Troy	40.0	40.1	40.2	10.46	10.95	10.92	418.40	439.10	438.98
Binghamton	40.1	40.6	41.4	9.14	9.51	9.46	366.51	386.11	391.64
Buffalo	41.7	42.5	42.8	12.07	12.08	12.17	503.32	513.40	520.88
Elmira	41.0	42.0	41.4	9.70	9.63	9.69	397.70	404.46	401.17
Nassau-Suffolk	40.9	39.3	39.9	10.37	10.86	11.04	424.13	426.80	440.50
New York PMSA	37.9	37.3	37.2	9.36	9.65	9.66	354.74	359.95	359.35
New York City	37.6	37.1	36.9	9.21	9.48	9.50	346.30	351.71	350.55
Niagara Falls	41.6	42.0	42.5	12.88	13.21	13.32	534.98	554.82	566.10
Orange County	39.4	38.0	39.2	7.89	8.00	8.03	310.87	304.00	314.78
Poughkeepsie	42.5	40.8	40.8	9.14	9.75	9.80	388.45	397.80	399.84
Rochester	41.7	42.0	42.3	11.91	12.31	12.43	496.65	517.02	525.79
Rockland County	40.8	37.3	38.1	9.99	10.47	10.35	407.59	390.53	394.34
Syracuse	41.5	41.6	41.8	11.21	11.58	11.54	465.22	481.73	482.37
Utica-Rome	42.0	41.0	41.1	9.68	9.62	9.68	406.56	394.42	397.85
Westchester County	39.1	39.1	39.8	10.41	10.75	10.71	407.03	420.33	426.26
North Carolina	41.4	40.7	40.3	7.76	7.99	8.01	321.26	325.19	322.80
Asheville	41.3	41.5	40.9	7.83	8.05	8.11	323.38	334.08	331.70
Charlotte-Gastonia-Rock Hill	42.3	41.0	40.7	7.99	8.22	8.29	337.98	337.02	337.40
Greensboro-Winston-Salem-High Point	41.4	40.8	40.1	8.58	8.84	8.76	355.21	360.67	351.28
Raleigh-Durham	42.4	41.7	41.6	8.85	9.07	9.09	375.24	378.22	378.14
North Dakota	39.4	38.6	38.2	8.43	8.27	8.32	332.14	319.22	317.82
Fargo-Moorhead	36.7	38.0	37.9	8.31	8.33	8.30	304.98	316.54	314.57
Ohio	42.5	42.4	42.8	11.73	11.86	11.92	498.53	502.86	510.18
Akron	42.8	43.0	43.0	11.30	11.35	11.49	483.64	488.05	494.07
Cincinnati	42.5	42.1	42.0	10.88	11.08	10.79	462.40	466.47	453.18
Cleveland	42.9	42.9	43.4	11.61	11.66	11.75	498.07	500.21	509.95
Columbus	41.7	41.7	41.4	11.45	11.45	11.53	477.47	477.47	477.34
Dayton-Springfield	41.7	42.4	43.0	11.85	12.19	12.38	494.15	516.86	532.34
Toledo	42.8	41.3	43.0	12.70	12.75	13.14	543.56	526.58	565.02
Youngstown-Warren	43.3	41.5	41.6	13.39	13.37	13.40	579.79	554.86	557.44
Oklahoma	41.2	40.9	40.4	9.99	10.21	10.27	411.59	417.59	414.91
Oklahoma City	40.5	40.8	40.0	11.09	11.34	11.50	449.15	462.67	460.00
Tulsa	40.7	41.3	41.1	10.51	10.82	10.80	427.76	446.87	443.88
Oregon	39.1	39.9	39.1	10.53	10.72	10.73	411.72	427.73	419.54
Eugene-Springfield	40.3	42.0	40.4	10.53	10.59	10.63	424.36	444.78	429.45
Portland	38.9	39.6	39.7	10.85	10.91	10.96	422.07	432.04	435.11
Salem	37.7	38.2	38.4	9.51	9.54	9.50	358.53	364.43	364.80

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Pennsylvania	40.5	40.8	40.8	\$9.84	\$10.15	\$10.13	\$398.52	\$414.12	\$413.30
Allentown-Bethlehem	39.5	39.5	40.3	10.43	10.31	10.19	411.99	407.25	410.66
Altoona	38.6	40.7	40.5	8.80	8.56	8.74	339.68	348.39	353.97
Beaver County	41.3	42.7	42.2	10.98	10.78	10.74	453.47	460.31	453.23
Erie	41.6	42.9	42.8	10.25	10.36	10.37	426.40	444.44	443.84
Harrisburg-Lebanon-Carlisle	39.5	39.5	39.7	9.33	9.44	9.42	368.54	372.88	373.97
Johnstown	38.8	39.8	39.6	8.32	8.54	8.43	322.82	339.89	333.83
Lancaster	39.9	40.2	40.0	9.59	9.85	9.88	382.64	395.97	395.20
Philadelphia PMSA	41.0	40.3	40.3	10.66	11.01	10.99	437.06	443.70	442.90
Pittsburgh	41.7	42.2	41.5	11.06	11.29	11.22	461.20	476.44	465.63
Reading	40.8	40.7	40.6	9.98	10.49	10.56	407.18	426.94	428.74
Scranton-Wilkes-Barre	39.1	38.0	38.8	8.62	8.80	8.77	337.04	334.40	340.28
Williamsport	40.5	40.5	41.3	8.52	8.69	8.75	345.06	351.95	361.38
York	42.2	42.6	42.3	9.31	9.68	9.66	392.88	412.37	408.62
Rhode Island	39.9	39.8	39.9	8.03	8.36	8.39	320.40	332.73	334.76
Pawtucket-Woonsocket-Attleboro	40.8	40.5	40.7	7.62	7.91	7.94	310.90	320.36	323.16
Providence	39.7	39.5	39.7	8.12	8.35	8.37	322.36	329.83	332.29
South Carolina	41.6	41.6	41.7	8.06	8.25	8.26	335.30	343.20	344.44
Charleston	42.1	41.0	41.9	9.16	9.08	9.10	385.64	372.28	381.29
Columbia	41.0	41.3	41.1	7.89	8.21	8.26	323.49	339.07	339.49
Greenville-Spartanburg	41.9	42.0	41.7	7.97	8.21	8.23	333.94	344.82	343.19
South Dakota	42.2	42.2	41.0	8.00	8.07	8.00	337.60	340.55	328.00
Sioux Falls	45.5	45.0	43.3	8.24	8.35	8.16	374.92	375.75	353.33
Tennessee	41.3	41.0	42.1	8.67	8.82	8.86	358.07	361.62	373.01
Chattanooga	42.3	43.1	41.9	7.85	7.73	7.91	332.06	333.16	331.43
Johnson City-Kingsport-Bristol	44.7	43.6	43.9	9.06	9.36	9.64	404.98	408.10	423.20
Knoxville	39.8	39.8	40.5	8.95	9.13	9.06	356.21	363.37	366.93
Memphis	43.0	40.9	44.2	8.80	9.02	8.98	378.40	368.92	396.92
Nashville	42.9	39.8	41.1	9.99	10.28	10.31	428.57	409.14	423.74
Texas	41.1	41.4	41.8	9.82	9.89	9.90	403.60	409.45	413.82
Dallas	41.5	41.0	41.2	9.66	9.72	9.65	400.89	398.52	397.58
Ft. Worth-Arlington	40.5	40.6	41.4	9.79	10.89	10.91	396.50	442.13	451.67
Houston	43.2	43.3	43.5	11.25	11.21	11.27	486.00	485.39	490.25
San Antonio	40.9	39.9	39.8	7.63	7.72	7.70	312.07	308.03	306.46
Utah	39.1	40.0	39.3	9.82	9.82	9.87	383.96	392.80	387.89
Salt Lake City-Ogden	39.6	40.8	39.9	9.75	9.89	9.90	386.10	403.51	395.01
Vermont	40.6	40.1	40.5	8.92	9.24	9.29	362.15	370.52	376.24
Burlington	41.8	40.5	41.1	9.96	9.62	9.51	416.33	389.61	390.86
Virginia	40.8	40.4	40.9	9.07	9.31	9.39	370.06	376.12	384.05
Bristol	42.7	43.3	42.0	7.85	7.88	7.92	335.20	341.20	332.64
Charlottesville	40.0	40.4	39.7	7.33	7.57	7.65	293.20	305.83	303.71
Danville	42.4	41.4	41.7	8.00	8.58	8.65	339.20	355.21	360.71
Lynchburg	41.9	39.8	40.8	8.73	8.52	8.64	365.79	339.10	352.51
Northern Virginia	39.1	40.1	40.1	9.79	10.12	10.37	382.79	405.81	415.84
Richmond-Petersburg	40.5	41.6	41.0	11.37	12.05	11.67	460.49	501.28	478.47
Roanoke	41.6	41.8	40.3	8.82	8.95	9.34	366.91	374.11	376.40
Washington	40.1	39.8	40.1	11.76	11.79	11.69	471.58	469.24	468.77

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
West Virginia	40.4	41.2	41.1	\$10.36	\$10.63	\$10.76	\$418.54	\$437.96	\$442.24
Charleston	42.0	42.3	42.4	12.90	13.23	13.48	541.80	559.63	571.55
Huntington-Ashland	39.7	41.8	41.8	11.74	11.90	11.85	466.08	497.42	495.33
Parkersburg-Marietta	41.8	42.8	42.4	12.15	12.34	12.25	507.87	528.15	519.40
Wheeling	40.4	41.2	40.9	10.79	11.73	11.58	435.92	483.28	473.62
Wisconsin	41.2	41.6	41.5	10.59	10.68	10.64	436.31	444.29	441.56
Appleton-Oshkosh	42.4	43.0	43.3	10.77	11.19	11.17	456.65	481.17	483.66
Eau Claire	40.2	39.8	39.7	10.64	10.86	10.83	427.73	432.23	429.95
Green Bay	40.8	41.9	41.2	11.29	11.45	11.52	460.63	479.76	474.62
Janesville-Beloit	38.6	41.7	39.5	12.48	11.73	12.09	481.73	489.14	477.56
Kenosha	40.5	42.9	41.6	12.08	13.23	12.86	489.24	567.57	534.98
La Crosse	39.5	38.3	38.6	9.21	9.19	9.18	363.80	351.98	354.35
Madison	40.3	40.4	40.8	9.93	10.11	10.26	400.18	408.44	418.61
Milwaukee	41.6	41.4	41.7	11.76	11.60	11.55	489.22	480.24	481.64
Racine	40.1	40.9	40.8	11.02	11.03	11.06	441.90	451.13	451.25
Wausau	41.6	41.7	41.3	9.84	10.24	10.03	409.34	427.01	414.24
Wyoming	38.4	36.6	33.4	9.70	9.50	9.73	372.48	347.70	324.98
Puerto Rico	39.0	39.1	39.0	5.44	5.43	5.45	212.16	212.31	212.55
Virgin Islands	41.4	40.4	40.1	9.26	9.41	9.44	383.36	380.16	378.54

¹ Not available.

^P = preliminary.

NOTE: Area definitions are published annually in the May issue of this

publication. All State and area data have been adjusted to March 1987 benchmarks, except Colorado. Data for Colorado have been adjusted to December 1986 benchmarks.

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) ¹			Percent change		
	Feb. 1988 ^r	Mar. 1988 ^r	Apr. 1988 ^p	Apr. 1987 to Apr. 1988 ^p	Feb. 1988 to Mar. 1988 ^r	Mar. 1988 to Apr. 1988 ^p
Total	194,773	194,515	195,903	4.4	-0.1	0.7
Private sector	160,152	159,680	160,960	3.9	-.3	.8
Mining	1,633	1,642	1,707	7.1	.6	4.0
Construction	10,116	10,385	10,412	6.5	2.7	.3
Manufacturing	41,331	41,304	41,443	3.5	-.1	.3
Durable goods	24,547	24,550	24,700	3.7	.0	.6
Nondurable goods	16,784	16,754	16,743	3.2	-.2	-.1
Transportation and public utilities	11,231	11,204	11,315	4.0	-.2	1.0
Wholesale trade	11,789	11,762	11,888	3.6	-.2	1.1
Retail trade	28,498	28,292	28,509	2.1	-.7	.8
Finance, insurance, and real estate	12,680	12,471	12,643	2.1	-1.6	1.4
Services	42,874	42,619	43,042	5.5	-.6	1.0
Government	34,621	34,834	34,943	6.4	.6	.3

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 ^a	1985		1986				1987				1988
			III	IV	I	II	III	IV	I	II	III	IV ^b		P
Business sector													
Output per hour of all persons	109.5	110.5	108.2	107.9	109.5	109.7	109.6	109.6	109.7	110.1	111.3	110.9	111.1
Output	128.0	132.2	124.7	125.3	127.3	127.5	128.1	129.0	130.2	131.1	133.1	134.4	135.3
Hours	116.9	119.7	115.2	116.1	116.3	116.3	116.9	117.8	118.7	119.1	119.6	121.2	121.7
Compensation per hour	182.8	188.2	177.0	179.3	180.7	182.2	183.6	185.2	185.8	187.3	189.1	190.6	192.2
Real compensation per hour	101.1	100.4	99.5	99.7	100.1	101.3	101.5	101.7	100.7	100.3	100.3	100.2	100.2
Unit labor costs	166.9	170.3	163.6	166.1	165.0	166.2	167.5	169.0	169.4	170.2	169.8	171.8	173.0
Unit nonlabor payments	163.8	169.4	161.8	160.2	163.1	163.9	165.7	162.4	166.0	168.6	172.2	170.8	170.2
Implicit price deflator	165.8	170.0	163.0	164.0	164.3	165.4	166.9	166.7	168.2	169.6	170.7	171.4	172.0
Nonfarm business sector													
Output per hour of all persons	107.5	108.4	106.4	105.9	107.7	107.7	107.5	107.5	107.6	108.0	109.1	108.8	109.1
Output	127.5	131.8	124.3	124.9	126.9	127.1	127.6	128.5	129.7	130.7	132.7	134.1	135.0
Hours	118.6	121.6	116.9	117.9	117.9	118.0	118.7	119.6	120.6	121.1	121.7	123.2	123.7
Compensation per hour	182.0	187.1	176.2	178.3	180.0	181.3	182.6	184.4	184.9	186.3	187.9	189.5	191.1
Real compensation per hour	100.6	99.8	99.0	99.2	99.8	100.8	100.9	101.2	100.2	99.7	99.7	99.6	99.7
Unit labor costs	169.3	172.7	165.7	168.3	167.2	168.4	169.8	171.5	171.8	172.5	172.2	174.1	175.2
Unit nonlabor payments	165.2	170.4	163.4	160.8	164.7	165.2	167.0	163.9	167.4	169.2	173.0	171.8	171.3
Implicit price deflator	167.8	171.9	164.9	165.7	166.4	167.3	168.8	168.8	170.3	171.4	172.5	173.3	173.8
Manufacturing													
Output per hour of all persons	128.8	133.1	125.3	126.1	127.6	128.4	129.3	129.8	130.8	132.9	134.1	134.3	135.3
Output	125.9	131.3	123.2	124.1	125.2	125.3	126.0	127.1	128.4	129.9	132.3	134.7	136.1
Hours	97.8	98.7	98.3	98.4	98.1	97.5	97.5	97.9	98.1	97.7	98.7	100.3	100.6
Compensation per hour	182.7	185.1	178.0	180.2	181.0	182.1	183.1	184.3	183.9	184.8	185.4	186.3	188.1
Real compensation per hour	101.0	98.7	100.0	100.3	100.3	101.3	101.2	101.2	99.6	98.9	98.3	97.9	98.1
Unit labor costs	141.8	139.1	142.1	142.9	141.9	141.8	141.7	142.0	140.5	139.0	138.2	138.7	139.0
Durable goods													
Output per hour of all persons	136.8	142.1	131.6	133.1	135.3	136.0	137.5	138.4	139.9	141.7	143.0	143.8	144.7
Output	134.1	139.6	130.8	132.2	133.6	133.2	134.1	135.3	136.9	137.8	140.1	143.6	144.6
Hours	98.0	98.2	99.4	99.4	98.8	98.0	97.5	97.8	97.8	97.2	98.0	99.8	100.0
Compensation per hour	181.4	183.3	176.6	179.4	179.9	180.8	181.6	183.1	182.2	182.9	183.4	184.4	186.7
Real compensation per hour	100.3	97.8	99.2	99.8	99.7	100.5	100.4	100.5	98.7	98.0	97.3	97.0	97.3
Unit labor costs	132.6	129.0	134.2	134.8	133.0	132.9	132.1	132.3	130.2	129.1	128.3	128.3	129.0
Nondurable goods													
Output per hour of all persons	116.8	119.7	115.6	115.4	116.0	117.0	117.0	117.1	117.4	119.9	121.1	120.4	121.5
Output	113.7	119.0	111.8	112.1	112.7	113.4	113.9	114.9	115.8	118.1	120.6	121.5	123.4
Hours	97.4	99.4	96.8	97.1	97.2	96.9	97.3	98.1	98.6	98.5	99.6	100.9	101.6
Compensation per hour	184.8	188.4	180.0	181.2	182.7	184.3	185.8	186.5	186.9	188.2	189.0	189.8	190.9
Real compensation per hour	102.2	100.5	101.1	100.8	101.2	102.5	102.7	102.4	101.3	100.8	100.3	99.8	99.5
Unit labor costs	158.3	157.4	155.7	157.0	157.5	157.5	158.8	159.3	159.1	156.9	156.1	157.6	157.1
Nonfinancial corporations													
Output per all-employee hour	109.9	110.2	109.2	108.9	109.8	109.7	109.9	110.5	109.7	109.9	110.8	110.5	(^c)
Output	129.4	132.7	127.4	127.7	129.1	128.8	129.3	130.4	130.9	131.6	133.7	134.8	(^c)
Hours	117.7	120.5	116.6	117.3	117.6	117.4	117.6	118.0	119.3	119.8	120.6	122.0	(^c)
Compensation per hour	178.9	182.7	173.8	175.7	177.2	178.4	179.5	181.0	180.8	182.0	183.3	184.8	(^c)
Real compensation per hour	98.9	97.5	97.6	97.8	98.2	99.2	99.2	99.4	98.0	97.5	97.2	97.1	(^c)
Total unit costs	167.7	171.0	163.7	166.0	166.3	167.2	168.5	168.7	169.7	170.9	171.0	172.5	(^c)
Unit labor costs	162.8	165.8	159.1	161.4	161.5	162.6	163.2	163.8	164.8	165.6	165.5	167.2	(^c)
Unit nonlabor costs	182.2	186.5	177.5	179.4	180.7	180.6	184.2	183.2	184.1	186.6	187.3	188.0	(^c)
Unit profits	129.3	136.1	142.5	128.7	129.7	129.5	130.6	127.7	132.2	132.9	142.1	137.0	(^c)
Implicit price deflator	163.1	166.8	161.2	161.5	161.9	162.7	164.0	163.8	165.2	166.3	167.5	168.2	(^c)

^a Not available.

^b =preliminary.

=revised.

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					
	IV 1986	I 1987	II 1987	III 1987	IV 1987 ¹	I 1988 ^p	IV 1986	I 1987	II 1987	III 1987	IV 1987 ¹	I 1988 ^p
Business sector												
Output per hour of all persons	-0.1	0.5	1.4	4.7	-1.5	0.8	1.5	0.2	0.4	1.6	1.3	1.3
Output	3.0	3.5	3.0	6.3	4.0	2.5	2.9	2.3	2.8	3.9	4.2	3.9
Hours	3.1	3.0	1.6	1.5	5.6	1.7	1.4	2.1	2.5	2.3	2.9	2.6
Compensation per hour	3.6	1.4	3.3	3.8	3.2	3.5	3.3	2.8	2.8	3.0	2.9	3.4
Real compensation per hour .....	.8	-3.8	-1.5	.0	-.5	.1	2.0	.6	-1.0	-1.1	-1.5	-.5
Unit labor costs	3.7	.9	1.8	-.9	4.7	2.7	1.8	2.7	2.4	1.4	1.6	2.1
Unit nonlabor payments	-7.7	9.0	6.4	8.8	-3.2	-1.4	1.4	1.8	2.6	3.9	5.1	2.5
Implicit price deflator	-.5	3.7	3.4	2.5	1.8	1.2	1.7	2.3	2.6	2.3	2.8	2.2
Nonfarm business sector												
Output per hour of all persons .....	.0	.4	1.4	4.2	-1.0	.9	1.5	-.1	.3	1.5	1.3	1.4
Output	2.9	3.8	3.2	6.3	4.2	2.7	2.9	2.2	2.9	4.0	4.4	4.1
Hours	2.9	3.4	1.7	2.0	5.2	1.7	1.4	2.3	2.6	2.5	3.1	2.6
Compensation per hour	4.0	1.1	3.0	3.6	3.5	3.4	3.4	2.7	2.7	2.9	2.8	3.4
Real compensation per hour	1.3	-4.1	-1.8	-.3	-.1	.0	2.1	.4	-1.1	-1.2	-1.6	-.5
Unit labor costs	4.0	.8	1.5	-.6	4.5	2.4	1.9	2.8	2.4	1.4	1.5	2.0
Unit nonlabor payments	-7.2	8.8	4.6	9.3	-2.7	-1.3	1.9	1.6	2.4	3.6	4.9	2.3
Implicit price deflator .....	.0	3.4	2.6	2.7	1.9	1.1	1.9	2.4	2.4	2.2	2.7	2.1
Manufacturing												
Output per hour of all persons	1.7	3.2	6.4	3.7	.7	2.9	2.9	2.5	3.5	3.7	3.5	3.4
Output	3.7	4.0	4.7	7.6	7.5	4.3	2.4	2.5	3.7	5.0	5.9	6.0
Hours	2.0	.8	-1.6	3.8	6.7	1.3	-.5	.0	.2	1.2	2.4	2.5
Compensation per hour	2.7	-1.0	2.0	1.3	2.1	3.9	2.3	1.6	1.5	1.2	1.1	2.3
Real compensation per hour	-.1	-6.1	-2.7	-2.4	-1.5	.5	1.0	-.7	-2.3	-2.9	-3.2	-1.6
Unit labor costs .....	.9	-4.1	-4.2	-2.3	1.4	1.0	-.6	-1.0	-2.0	-2.4	-2.3	-1.1
Durable goods												
Output per hour of all persons	2.6	4.5	5.3	3.6	2.3	2.6	4.0	3.4	4.2	4.0	3.9	3.4
Output	3.8	4.5	2.8	7.0	10.1	3.1	2.4	2.4	3.4	4.5	6.1	5.7
Hours	1.1	.0	-2.4	3.3	7.7	.4	-1.5	-.9	-.7	.5	2.1	2.2
Compensation per hour	3.4	-1.9	1.6	1.1	2.2	5.0	2.1	1.3	1.2	1.0	.7	2.5
Real compensation per hour .....	.7	-6.9	-3.1	-2.6	-1.4	1.5	.7	-1.0	-2.5	-3.0	-3.5	-1.4
Unit labor costs .....	.8	-6.1	-3.5	-2.4	-.1	2.3	-1.8	-2.1	-2.9	-2.8	-3.1	-.9
Nondurable goods												
Output per hour of all persons .....	.4	1.1	8.7	3.9	-2.3	3.7	1.4	1.3	2.5	3.5	2.8	3.4
Output	3.6	3.1	8.2	8.8	3.0	6.5	2.5	2.7	4.1	5.9	5.7	6.6
Hours	3.3	1.9	-.5	4.7	5.4	2.6	1.1	1.4	1.6	2.3	2.9	3.0
Compensation per hour	1.5	.7	2.8	1.7	1.6	2.4	2.9	2.3	2.1	1.7	1.7	2.2
Real compensation per hour	-1.1	-4.5	-1.9	-2.0	-1.9	-1.0	1.6	.0	-1.7	-2.4	-2.6	-1.7
Unit labor costs	1.2	-.5	-5.4	-2.1	4.0	-1.3	1.5	1.0	-.4	-1.7	-1.0	-1.3
Nonfinancial corporations												
Output per all-employee hour	2.1	-2.9	.7	3.3	-1.0	(¹)	1.5	.0	.2	.8	.0	(¹)
Output	3.4	1.5	2.2	6.4	3.5	(¹)	2.1	1.4	2.2	3.4	3.4	(¹)
Hours	1.3	4.6	1.6	3.0	4.6	(¹)	.6	1.5	2.0	2.6	3.4	(¹)
Compensation per hour	3.5	-.5	2.6	2.9	3.3	(¹)	3.0	2.0	2.0	2.1	2.1	(¹)
Real compensation per hour .....	.7	-5.6	-2.1	-.9	-.4	(¹)	1.7	-.2	-1.7	-2.0	-2.3	(¹)
Total unit costs .....	.3	2.4	2.9	.1	3.6	(¹)	1.6	2.0	2.2	1.4	2.2	(¹)
Unit labor costs	1.3	2.5	2.0	-.4	4.3	(¹)	1.5	2.1	1.8	1.3	2.1	(¹)
Unit nonlabor costs	-2.3	2.2	5.4	1.5	1.6	(¹)	2.1	1.9	3.3	1.7	2.7	(¹)
Unit profits	-8.5	14.7	2.1	30.7	-13.4	(¹)	-.8	1.9	2.6	8.8	7.3	(¹)
Implicit price deflator	-.5	3.5	2.8	2.8	1.7	(¹)	1.4	2.0	2.3	2.1	2.7	(¹)

¹ Not available.
^p = preliminary.

= revised.
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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Alabama	1,865.2	1,872.9	1,851.3	167.6	144.2	137.2	9.0	7.7	7.4
Birmingham	439.2	442.5	437.9	32.4	28.5	27.1	7.4	6.4	6.2
Huntsville	127.3	130.3	129.1	7.6	6.8	6.6	6.0	5.2	5.1
Mobile	209.2	208.4	206.2	20.6	19.5	19.6	9.9	9.3	9.5
Montgomery	134.0	136.5	134.8	8.9	8.7	8.5	6.7	6.4	6.3
Tuscaloosa	68.8	69.7	69.1	4.7	4.1	4.0	6.8	5.8	5.7
Alaska	242.4	239.6	241.7	32.6	26.5	26.0	13.4	11.1	10.8
Arizona	1,612.5	1,637.7	1,640.9	103.5	92.9	90.6	6.4	5.7	5.5
Phoenix	997.7	1,012.2	1,015.1	54.9	47.8	46.8	5.5	4.7	4.6
Tucson	307.2	313.5	314.5	16.4	14.8	14.4	5.3	4.7	4.6
Arkansas	1,075.6	1,109.9	1,123.2	99.4	97.0	92.2	9.2	8.7	8.2
Fayetteville-Springdale	56.1	60.3	61.5	2.4	2.8	2.6	4.3	4.6	4.3
Fort Smith	89.5	93.5	94.1	5.9	6.2	6.0	6.6	6.7	6.3
Little Rock-North Little Rock	254.0	263.4	265.8	19.6	18.5	18.3	7.7	7.0	6.9
Pine Bluff	36.6	37.2	37.5	3.9	3.4	3.3	10.6	9.0	8.7
California¹	13,596.6	13,975.4	13,957.6	858.1	811.9	739.9	6.3	5.8	5.3
Anaheim-Santa Ana	1,288.8	1,303.1	1,300.1	42.7	40.9	38.1	3.3	3.1	2.9
Bakersfield	223.3	227.0	228.2	29.4	24.4	27.0	13.2	10.8	11.8
Fresno	285.3	288.9	287.1	40.4	35.8	38.3	14.1	12.4	13.3
Los Angeles-Long Beach ¹	4,187.0	4,403.0	4,379.0	261.0	249.0	193.0	6.2	5.7	4.4
Modesto	146.1	151.8	150.9	21.6	20.8	20.5	14.8	13.7	13.6
Oakland	1,026.0	1,031.5	1,031.0	55.1	49.7	47.5	5.4	4.8	4.6
Oxnard-Ventura	331.7	340.8	341.2	18.5	17.1	15.7	5.6	5.0	4.6
Riverside-San Bernardino	894.0	938.0	941.6	48.6	52.2	49.6	5.4	5.6	5.3
Sacramento	661.7	686.4	688.1	39.7	39.3	37.2	6.0	5.7	5.4
San Diego	1,044.9	1,080.7	1,080.0	47.1	47.8	45.0	4.5	4.4	4.2
San Francisco	863.4	866.1	866.5	34.0	31.4	29.9	3.9	3.6	3.4
San Jose	807.8	808.5	807.3	40.1	33.8	32.5	5.0	4.2	4.0
Santa Barbara-Santa Maria-Lompoc	176.7	176.2	176.9	9.4	8.8	8.5	5.3	5.0	4.8
Santa Rosa-Petaluma	183.0	188.4	189.6	10.0	9.5	9.0	5.5	5.0	4.7
Stockton	185.8	184.2	186.2	21.6	21.2	20.1	11.6	11.5	10.8
Vallejo-Fairfield-Napa	178.3	184.4	183.8	11.8	11.0	10.6	6.6	5.9	5.8
Colorado	1,708.1	1,716.9	1,702.3	151.0	138.9	130.3	8.8	8.1	7.7
Boulder-Longmont	130.0	131.6	130.9	8.5	7.8	7.3	6.6	5.9	5.6
Denver	892.1	893.7	887.7	71.7	64.3	61.2	8.0	7.2	6.9
Connecticut	1,736.2	1,689.3	1,691.1	65.2	60.9	52.3	3.8	3.6	3.1
Bridgeport-Milford	228.3	222.9	222.7	11.0	9.9	8.7	4.8	4.4	3.9
Hartford	422.8	412.9	412.9	14.6	13.4	11.5	3.4	3.2	2.8
New Haven-Meriden	268.1	261.4	262.1	9.4	8.9	7.6	3.5	3.4	2.9
Stamford	116.5	113.8	114.2	3.1	2.7	2.4	2.6	2.4	2.1
Waterbury	101.9	98.5	98.6	5.5	4.8	4.1	5.4	4.8	4.2
Delaware	321.0	332.7	337.4	11.2	13.2	12.1	3.5	4.0	3.6
Wilmington	282.6	292.6	295.6	11.3	13.0	11.9	4.0	4.4	4.0
District of Columbia	327.0	325.9	330.3	23.0	19.0	17.6	7.0	5.8	5.3
Washington	2,090.3	2,131.7	2,157.0	69.7	66.0	62.2	3.3	3.1	2.9
Florida¹	5,810.1	5,959.3	6,045.2	312.4	298.1	286.8	5.4	5.0	4.7
Daytona Beach	145.3	149.7	153.1	6.9	6.9	6.5	4.8	4.6	4.2
Fort Lauderdale-Hollywood-Pompano Beach	612.8	633.2	642.1	25.0	28.2	25.4	4.1	4.5	4.0
Fort Myers-Cape Coral	134.3	140.0	144.0	4.8	4.6	4.7	3.6	3.3	3.3
Jacksonville	434.2	449.9	458.3	23.7	24.4	24.4	5.5	5.4	5.3
Melbourne-Titusville-Palm Bay	171.0	175.8	178.9	11.1	8.3	8.3	6.5	4.7	4.7
Miami-Hialeah	907.0	912.4	923.0	53.7	49.1	47.0	5.9	5.4	5.1
Orlando	542.4	560.1	570.2	25.9	25.8	24.9	4.8	4.6	4.4
Pensacola	146.8	146.9	149.5	10.9	9.0	9.0	7.5	6.1	6.0
Sarasota	115.6	120.2	122.9	4.0	4.2	4.0	3.4	3.5	3.3
Tallahassee	121.5	123.1	125.1	5.2	4.7	4.5	4.3	3.8	3.6
Tampa-St. Petersburg-Clearwater	950.6	964.7	977.5	47.9	45.8	44.3	5.0	4.7	4.5
West Palm Beach-Boca Raton-Delray Beach	391.8	411.0	414.5	18.7	17.8	17.7	4.8	4.3	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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Georgia	3,012.5	3,057.2	3,066.9	179.4	183.5	178.7	6.0	6.0	5.8
Athens	71.8	72.4	72.1	3.6	3.5	3.0	5.1	4.8	4.2
Atlanta	1,423.2	1,446.0	1,455.1	69.2	73.5	72.1	4.9	5.1	5.0
Augusta	177.2	178.2	178.9	11.7	11.3	11.2	6.6	6.3	6.3
Columbus	99.0	99.6	99.3	6.7	7.1	7.1	6.8	7.2	7.2
Macon-Warner Robins	126.4	128.4	128.3	6.8	7.6	7.2	5.4	5.9	5.6
Savannah	109.5	111.0	111.6	6.8	7.8	7.9	6.3	7.1	7.1
Hawaii	507.3	525.9	528.9	19.3	17.5	16.7	3.8	3.3	3.2
Honolulu	379.4	392.4	395.2	13.4	11.6	11.2	3.5	2.9	2.8
Idaho	460.9	454.5	458.4	46.4	41.8	38.5	10.1	9.2	8.4
Boise City	103.4	102.6	102.4	6.9	5.9	5.1	6.7	5.8	5.0
Illinois ¹	5,608.9	5,738.9	5,677.4	453.7	469.2	440.5	8.1	8.2	7.8
Aurora-Elgin	167.2	174.0	171.9	12.1	11.8	10.7	7.3	6.8	6.3
Bloomington-Normal	64.3	66.3	68.4	3.0	3.9	4.5	4.6	5.9	6.7
Champaign-Urbana-Rantoul	87.6	89.2	88.3	4.3	4.7	4.2	4.9	5.3	4.8
Chicago	3,074.9	3,151.5	3,129.4	219.0	224.8	213.8	7.1	7.1	6.8
Davenport-Rock Island-Moline	180.8	181.2	179.0	15.9	15.9	14.6	8.8	8.8	8.2
Decatur	57.7	58.1	57.0	5.9	6.0	5.6	10.2	10.4	9.8
Joliet	191.9	196.3	192.7	17.6	18.7	17.2	9.2	9.5	8.9
Lake County	250.6	263.8	262.6	13.2	13.6	12.7	5.3	5.2	4.8
Peoria	151.6	152.1	150.6	13.9	12.4	11.6	9.2	8.2	7.7
Rockford	146.0	147.1	145.3	15.9	13.3	12.6	10.9	9.0	8.6
Springfield	106.4	108.9	107.2	6.0	7.1	6.5	5.7	6.6	6.0
Indiana	2,687.2	2,701.2	2,703.7	194.4	170.0	155.6	7.2	6.3	5.8
Anderson	59.2	57.9	57.4	4.4	4.4	3.7	7.4	7.7	6.4
Bloomington	57.1	58.3	58.3	2.5	2.3	2.1	4.4	4.0	3.6
Elkhart-Goshen	89.1	92.0	92.8	3.9	4.2	3.8	4.4	4.5	4.1
Evansville	139.3	138.9	139.2	11.3	10.1	9.6	8.1	7.3	6.9
Fort Wayne	188.9	192.0	193.0	10.4	9.8	9.3	5.5	5.1	4.8
Gary-Hammond	250.8	246.0	246.6	30.2	19.4	16.4	12.0	7.9	7.5
Indianapolis	633.9	643.1	644.0	34.3	32.4	29.3	5.4	5.0	4.6
Lafayette	63.8	65.0	64.5	2.4	2.3	2.1	3.8	3.6	3.3
Muncie	59.4	59.5	59.3	4.4	4.2	3.7	7.4	7.1	6.3
South Bend-Mishawaka	124.7	125.5	125.7	7.4	6.7	6.2	6.0	5.3	5.0
Terre Haute	58.3	58.3	58.4	4.5	4.2	4.0	7.7	7.2	6.9
Iowa	1,448.3	1,450.7	1,448.8	105.2	96.1	83.0	7.3	6.6	5.7
Cedar Rapids	91.5	94.8	95.2	6.1	5.2	4.6	6.7	5.5	4.8
Des Moines	217.5	225.8	225.5	12.2	11.2	9.8	5.6	5.0	4.4
Dubuque	43.4	45.7	45.2	3.5	3.8	3.2	8.1	8.3	7.1
Sioux City	58.5	59.5	59.4	4.8	4.5	4.0	8.1	7.6	6.7
Waterloo-Cedar Falls	69.6	69.3	69.0	7.5	5.8	5.0	10.8	8.4	7.2
Kansas	1,256.4	1,270.0	1,284.8	71.4	70.3	63.7	5.7	5.5	5.0
Topeka	90.1	92.5	94.1	4.7	5.1	4.4	5.2	5.5	4.7
Wichita	247.4	254.4	255.7	14.8	13.8	13.0	6.0	5.4	5.1
Kentucky	1,676.2	1,703.9	1,699.4	171.1	165.4	160.1	10.2	9.7	9.4
Lexington-Fayette	179.0	183.9	184.6	10.1	9.8	9.8	5.7	5.4	5.3
Louisville	489.4	507.2	507.6	37.5	35.2	34.5	7.7	6.9	6.8
Owensboro	45.2	44.9	44.7	5.6	4.5	4.4	12.5	10.1	9.8
Louisiana	1,966.4	1,910.3	1,900.4	276.2	233.8	222.3	14.0	12.2	11.7
Alexandria	60.8	60.5	60.2	7.0	6.8	6.5	11.6	11.2	10.7
Baton Rouge	265.0	261.4	259.7	29.5	27.1	25.4	11.1	10.4	9.8
Houma-Thibodaux	74.9	70.1	69.6	15.6	9.7	9.2	20.9	13.9	13.2
Lafayette	103.1	97.8	97.0	15.9	11.2	10.6	15.4	11.5	10.9
Monroe	70.3	68.2	67.9	8.1	8.0	7.6	11.5	11.7	11.2
New Orleans	606.0	590.2	587.8	67.7	59.2	57.3	11.2	10.0	9.8
Shreveport	169.1	165.5	164.3	22.5	19.5	18.5	13.3	11.8	11.3
Maine	560.2	584.9	583.0	30.8	30.7	30.5	5.5	5.2	5.2
Lewiston-Auburn	40.8	42.0	41.7	2.5	2.3	2.3	6.2	5.5	5.5
Portland	118.1	124.4	123.5	3.4	3.4	3.3	2.9	2.7	2.6

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Maryland	2,383.6	2,398.9	2,405.1	110.9	122.6	111.3	4.7	5.1	4.6
Baltimore	1,158.1	1,158.2	1,160.9	59.0	64.7	58.9	5.1	5.6	5.1
Massachusetts¹	3,057.9	3,101.3	3,168.6	136.5	116.4	113.8	4.5	3.8	3.6
Boston	1,521.5	1,546.6	1,576.8	55.2	47.3	46.7	3.6	3.1	3.0
Brockton	96.4	97.4	99.9	4.7	4.0	3.9	4.9	4.1	3.9
Fall River	76.7	76.2	77.2	6.4	5.5	5.2	8.4	7.2	6.7
Fitchburg-Leominster	47.0	44.9	46.1	2.7	2.0	1.9	5.7	4.4	4.2
Lawrence-Haverhill	181.8	184.8	188.0	9.3	8.5	7.9	5.1	4.6	4.2
Lowell	148.8	149.0	151.9	6.9	5.3	5.4	4.6	3.6	3.5
New Bedford	85.1	83.8	88.2	6.7	5.6	5.3	7.9	6.7	6.0
Springfield	249.9	254.3	259.8	11.4	9.5	9.3	4.6	3.7	3.6
Worcester	211.5	218.9	223.3	8.7	7.5	7.5	4.1	3.4	3.3
Michigan¹	4,463.3	4,469.2	4,448.8	375.6	398.3	384.7	8.4	8.9	8.6
Ann Arbor	155.3	159.9	159.9	6.5	7.1	6.8	4.2	4.4	4.3
Battle Creek	63.6	64.0	64.0	5.1	5.6	5.8	8.0	8.7	9.0
Benton Harbor	76.0	76.3	76.8	6.0	5.7	5.7	7.8	7.5	7.4
Detroit	2,162.4	2,151.7	2,141.0	173.8	189.1	178.0	8.0	8.8	8.3
Flint	198.0	197.0	196.1	19.5	30.1	29.8	9.9	15.3	15.2
Grand Rapids	341.2	346.0	343.8	21.0	20.9	19.9	6.2	6.0	5.8
Kalamazoo	112.8	113.9	113.8	5.9	5.9	5.8	5.2	5.2	5.1
Lansing-East Lansing	237.9	237.0	233.2	15.2	17.1	17.1	6.4	7.2	7.3
Muskegon	67.3	66.1	66.0	7.5	6.4	6.4	11.2	9.8	9.7
Saginaw-Bay City-Midland	180.6	184.3	182.6	17.8	17.5	16.9	9.8	9.5	9.3
Minnesota	2,217.4	2,241.4	2,266.3	149.8	124.4	109.1	6.8	5.6	4.8
Duluth	106.5	104.7	105.0	12.6	9.2	7.9	11.8	8.8	7.6
Minneapolis-St. Paul	1,324.9	1,343.3	1,353.5	67.2	57.6	50.5	5.1	4.3	3.7
Rochester	56.2	57.0	57.7	2.7	2.2	1.9	4.8	3.8	3.3
St. Cloud	90.2	94.8	94.6	6.8	6.2	5.4	7.6	6.5	5.7
Mississippi	1,153.2	1,168.9	1,159.6	137.8	114.2	100.1	12.0	9.8	8.6
Jackson	197.2	202.4	202.5	16.4	13.3	12.0	8.3	6.6	5.9
Missouri	2,558.1	2,522.1	2,541.2	173.3	154.6	137.3	6.8	6.1	5.4
Kansas City	831.6	827.5	833.4	45.7	44.5	39.7	5.5	5.4	4.8
St. Louis	1,257.7	1,249.1	1,251.7	93.2	86.0	78.2	7.4	6.9	6.2
Springfield	120.0	121.9	122.8	6.0	5.5	4.8	5.0	4.5	3.9
Montana	397.2	399.5	402.9	38.5	36.4	36.9	9.7	9.1	9.2
Nebraska	802.9	779.4	784.1	47.8	37.9	34.8	6.0	4.9	4.4
Lincoln	120.6	117.0	117.9	4.8	3.7	3.5	4.0	3.2	3.0
Omaha	321.3	313.9	315.4	19.1	15.8	14.5	5.9	5.0	4.6
Nevada	544.5	566.5	567.9	37.9	37.6	35.2	7.0	6.6	6.2
Las Vegas	317.3	330.7	331.9	21.8	21.8	21.2	6.9	6.6	6.4
Reno	135.2	139.3	139.3	9.0	8.8	8.0	6.6	6.3	5.8
New Hampshire	567.1	585.7	590.8	16.6	18.4	16.8	2.9	3.1	2.8
Nashua	94.4	97.5	100.2	2.7	2.9	2.6	2.9	2.9	2.6
Portsmouth-Dover-Rochester	124.7	128.8	131.5	3.6	3.7	3.1	2.9	2.8	2.3
New Jersey¹	3,964.9	3,970.2	3,976.2	169.7	160.6	173.1	4.3	4.0	4.4
Atlantic City	166.7	164.6	165.7	11.3	11.5	12.0	6.8	7.0	7.2
Bergen-Passaic	724.1	725.2	726.8	27.7	24.5	27.0	3.8	3.4	3.7
Jersey City	269.5	269.2	271.0	18.4	17.3	19.5	6.8	6.4	7.2
Middlesex-Somerset-Hunterdon	553.6	559.2	559.4	16.2	15.4	16.6	2.9	2.8	3.0
Monmouth-Ocean	461.6	465.2	467.2	16.5	17.6	18.2	3.6	3.8	3.9
Newark	972.3	965.2	964.9	42.3	38.3	42.0	4.4	4.0	4.4
Trenton	173.6	173.6	173.6	6.4	5.5	6.2	3.7	3.2	3.5
New Mexico	681.0	681.2	690.4	67.3	58.4	59.7	9.9	8.6	8.6
Albuquerque	262.0	261.0	265.9	17.1	16.0	16.4	6.5	6.1	6.2
Las Cruces	54.3	54.0	55.1	4.2	4.0	4.3	7.7	7.4	7.8
Santa Fe	64.0	65.2	66.0	4.1	3.9	3.8	6.4	5.9	5.8

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
New York¹	8,438.8	8,425.9	8,428.8	449.4	371.7	362.1	5.3	4.4	4.3
Albany-Schenectady-Troy	410.0	418.3	415.2	18.9	17.2	15.1	4.8	4.1	3.6
Binghamton	124.3	125.7	125.2	8.4	5.2	4.9	5.2	4.1	3.9
Buffalo	439.3	442.1	441.0	28.3	25.6	23.8	8.4	5.8	5.4
Elmira	39.4	41.9	41.5	2.2	1.9	1.6	5.6	4.4	3.8
Nassau-Suffolk	1,401.9	1,411.8	1,413.3	49.9	46.5	41.6	3.6	3.3	2.9
New York	3,942.0	3,872.3	3,890.6	211.3	154.3	164.5	5.4	4.0	4.2
New York City ¹	3,261.0	3,205.0	3,223.0	191.0	135.0	147.0	5.8	4.2	4.8
Orange County	128.4	130.8	130.6	5.9	5.4	5.0	4.6	4.1	3.9
Poughkeepsie	123.4	126.2	126.1	3.9	3.7	3.3	3.1	2.9	2.6
Rochester	488.0	494.6	489.8	24.9	21.9	19.9	5.1	4.4	4.1
Syracuse	314.0	320.0	315.5	21.8	20.7	19.4	8.9	6.5	6.2
Utica-Rome	132.7	134.7	134.4	9.2	7.9	7.4	6.9	5.8	5.5
North Carolina¹	3,218.8	3,284.0	3,265.0	158.8	137.5	129.1	4.9	4.2	4.0
Asheville	64.9	66.2	66.3	4.8	3.4	3.1	5.4	4.0	3.6
Charlotte-Gastonia-Rock Hill	617.5	640.4	637.6	24.1	21.2	20.0	3.9	3.3	3.1
Greensboro-Winston-Salem-High Point	510.4	519.2	517.3	20.5	17.1	16.5	4.0	3.3	3.2
Raleigh-Durham	390.8	400.8	397.9	12.0	11.1	10.9	3.1	2.8	2.7
North Dakota	326.0	320.7	318.9	22.8	20.6	17.8	7.0	6.4	5.6
Bismarck	44.1	44.8	44.5	2.9	3.2	2.7	6.6	7.1	8.1
Fargo-Moorhead	83.3	85.1	85.2	4.0	3.6	3.1	4.8	4.2	3.7
Grand Forks	37.1	36.3	36.3	1.5	1.7	1.4	4.0	4.7	3.9
Ohio¹	5,161.3	5,278.9	5,295.0	405.7	374.4	416.4	7.9	7.1	7.9
Akron	315.3	323.9	324.4	25.1	24.6	26.5	8.0	7.6	8.2
Cincinnati	730.3	752.2	754.4	51.2	43.2	47.3	7.0	5.7	6.3
Cleveland	909.1	930.3	934.3	63.4	57.5	68.0	7.0	6.2	7.3
Columbus	882.4	703.1	705.0	39.4	37.8	43.0	5.8	5.4	6.1
Dayton-Springfield	455.5	465.9	466.2	27.8	28.6	30.6	8.1	6.1	6.6
Toledo	303.4	311.3	312.2	24.4	20.9	22.8	8.0	6.7	7.3
Youngstown-Warren	217.9	219.9	221.3	22.4	19.2	20.9	10.3	8.7	9.5
Oklahoma	1,576.6	1,522.4	1,523.0	135.5	104.9	102.6	8.6	6.9	6.7
Enid	30.5	29.7	29.8	2.6	1.8	1.7	8.5	6.1	5.7
Lawton	49.8	49.3	50.0	2.6	2.6	2.9	5.2	5.4	5.7
Oklahoma City	511.7	496.9	498.3	35.6	28.5	27.6	6.9	5.7	5.5
Tulsa	351.5	339.1	339.2	33.5	25.8	25.4	9.5	7.6	7.5
Oregon	1,360.5	1,410.8	1,418.4	103.4	100.7	94.4	7.6	7.1	6.7
Eugene-Springfield	136.3	140.8	141.1	9.1	9.1	8.4	6.7	6.5	5.9
Portland	625.2	647.8	651.7	38.5	36.0	34.3	6.2	5.6	5.3
Salem	123.0	130.2	130.4	9.7	10.1	9.1	7.9	7.7	7.0
Pennsylvania¹	5,450.3	5,653.0	5,617.5	339.8	334.1	313.8	6.2	5.9	5.6
Allentown-Bethlehem	309.2	316.4	315.1	16.4	15.9	15.0	5.3	5.0	4.8
Altoona	56.5	58.5	58.6	4.6	4.7	4.4	8.1	8.1	7.5
Beaver County	60.9	62.0	61.9	6.1	6.5	6.3	10.0	10.5	10.2
Erie	123.1	127.3	125.8	10.2	9.4	9.0	8.3	7.4	7.1
Harrisburg-Lebanon-Carlisle	298.7	312.4	311.1	13.3	13.8	13.4	4.5	4.4	4.3
Johnstown	90.9	93.4	92.6	8.8	8.8	8.0	9.6	9.4	8.7
Lancaster	201.6	210.5	210.0	7.8	7.5	7.1	3.9	3.6	3.4
Philadelphia	2,319.7	2,401.2	2,389.5	106.9	105.9	102.6	4.6	4.4	4.3
Pittsburgh	919.4	945.6	938.9	69.0	68.3	61.0	7.5	7.2	6.5
Reading	164.9	170.7	171.3	9.1	8.0	8.5	5.5	4.7	5.0
Scranton-Wilkes-Barre	336.3	346.8	344.2	26.4	24.3	23.1	7.8	7.0	6.7
Williamsport	54.7	59.7	59.3	3.7	4.1	3.6	6.8	6.8	6.1
York	200.8	211.8	210.6	9.8	9.4	9.2	4.9	4.4	4.4
Rhode Island	511.5	518.5	520.5	24.0	22.5	21.2	4.7	4.3	4.1
Pawtucket-Woonsocket-Attleboro	166.3	166.8	168.2	9.3	8.3	7.9	5.6	5.0	4.7
Providence	333.8	339.9	341.3	15.2	14.3	13.6	4.5	4.2	4.0
South Carolina	1,605.2	1,631.8	1,639.7	98.1	90.8	83.5	6.1	5.6	5.1
Charleston	218.2	220.9	223.4	10.9	10.3	9.8	5.0	4.6	4.4
Columbia	224.7	227.6	230.9	8.6	7.6	8.1	3.8	3.3	3.5
Greenville-Spartanburg	318.9	318.7	320.5	15.3	13.3	12.3	4.8	4.2	3.8
South Dakota	345.3	343.2	348.0	17.0	14.6	12.7	4.9	4.2	3.7
Rapid City	38.1	38.9	39.4	1.9	1.7	1.5	5.0	4.3	3.8
Sioux Falls	70.5	71.7	72.8	2.7	3.7	3.0	3.8	5.2	4.2

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		
	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P	Mar. 1987	Feb. 1988	Mar. 1988 ^P
Tennessee	2,301.6	2,381.4	2,375.4	171.1	157.1	139.0	7.4	6.6	5.9
Chattanooga	204.1	211.2	212.2	12.7	11.8	11.5	6.2	5.6	5.4
Johnson City-Kingsport-Bristol	211.4	222.1	221.1	16.1	14.7	12.9	7.6	6.6	5.8
Knoxville	277.4	282.6	281.9	22.0	18.7	16.6	7.9	6.6	5.9
Memphis LMA	428.1	455.9	456.9	26.5	24.9	22.5	6.2	5.5	4.9
Nashville	524.7	520.6	518.9	24.1	25.8	22.9	4.6	5.0	4.4
Texas¹	8,008.2	8,210.2	8,167.1	660.3	717.7	674.1	8.2	8.7	8.3
Abilene	53.7	54.1	53.8	4.6	4.3	4.1	8.5	7.9	7.6
Amarillo	96.9	99.8	98.6	5.9	7.0	6.4	6.1	7.0	6.5
Austin	421.6	426.6	423.8	25.5	30.4	29.1	6.1	7.1	6.9
Beaumont-Port Arthur	157.8	159.8	157.7	18.9	20.4	18.4	12.0	12.8	11.6
Brazoria	78.1	81.1	80.8	7.3	7.9	7.5	9.4	9.8	9.3
Brownsville-Harlingen	91.9	98.0	97.1	12.7	16.1	14.6	13.8	16.4	15.0
Bryan-College Station	55.9	56.8	56.3	3.2	3.1	2.8	5.7	5.4	5.0
Corpus Christi	158.5	160.9	160.1	18.4	18.7	17.2	11.6	11.6	10.8
Dallas	1,405.6	1,441.4	1,430.4	80.5	96.5	91.0	5.7	6.7	8.4
El Paso	222.9	236.2	233.5	22.4	29.3	26.9	10.1	12.4	11.5
Fort Worth-Arlington	653.0	672.8	669.3	41.1	49.5	46.9	6.3	7.4	7.0
Galveston-Texas City	105.9	106.7	106.3	10.5	11.3	10.9	9.9	10.6	10.3
Houston	1,558.2	1,584.4	1,581.6	140.5	131.8	123.9	9.0	8.3	7.8
Killeen-Temple	89.4	93.6	93.2	6.5	8.1	7.7	7.3	8.6	8.3
Laredo	44.6	47.2	46.5	7.3	8.5	7.9	16.4	17.9	16.9
Longview-Marshall	76.3	79.2	78.5	7.9	8.6	7.8	10.4	10.9	10.0
Lubbock	109.4	112.3	111.8	6.4	7.1	6.7	5.9	6.3	6.0
McAllen-Edinburg-Mission	143.3	152.4	151.1	25.8	31.4	29.8	18.0	20.6	19.7
Midland	49.0	49.6	49.0	4.7	3.8	3.5	9.5	7.7	7.2
San Angelo	44.2	45.1	45.0	2.8	2.9	2.8	6.3	6.4	6.3
San Antonio	590.3	616.0	612.1	44.3	54.3	50.5	7.5	8.8	8.3
Sherman-Denison	47.4	49.8	49.3	3.6	4.0	3.7	7.7	8.1	7.4
Texarkana	56.4	58.5	58.3	4.9	5.2	4.9	8.6	8.9	8.5
Waco	89.5	93.7	92.7	6.7	8.1	7.4	7.5	8.7	8.0
Wichita Falls	55.5	57.5	57.0	4.3	4.8	4.3	7.8	8.3	7.6
Utah	753.9	757.7	757.8	55.1	48.0	43.9	7.3	6.3	5.8
Provo-Orem	99.0	99.4	99.1	8.4	6.1	5.3	8.5	6.1	5.3
Salt Lake City-Ogden	498.6	502.6	503.5	31.7	29.3	27.6	6.4	5.8	5.5
Vermont	289.2	300.9	298.1	13.6	12.2	11.0	4.7	4.0	3.7
Burlington	72.3	76.0	75.2	2.5	2.1	1.8	3.4	2.7	2.4
Virginia	2,951.2	3,007.7	3,038.4	135.9	123.5	114.4	4.6	4.1	3.8
Charlottesville	64.5	67.6	68.6	2.3	2.0	2.0	3.6	2.9	2.9
Danville	50.3	50.5	50.6	3.9	3.7	3.4	7.9	7.3	6.7
Lynchburg	71.7	70.6	71.8	4.3	3.7	3.5	5.9	5.2	4.8
Norfolk-Virginia Beach-Newport News	586.3	596.2	602.4	29.0	26.5	25.0	4.9	4.4	4.1
Richmond-Petersburg	425.2	434.6	439.9	15.1	14.7	14.0	3.6	3.4	3.2
Roanoke	117.6	116.8	118.2	4.8	4.7	4.6	4.1	4.0	3.9
Washington	2,201.5	2,277.8	2,298.2	186.3	178.1	167.2	8.5	7.8	7.3
Seattle	977.5	1,024.5	1,035.2	63.5	59.2	57.8	6.5	5.8	5.6
West Virginia	752.7	755.8	748.2	98.4	99.5	88.3	13.1	13.2	11.8
Charleston	117.4	117.0	115.4	12.3	13.0	11.3	10.5	11.2	9.8
Huntington-Ashland	128.7	128.0	126.6	16.2	14.5	13.6	12.6	11.3	10.7
Parkersburg-Marietta	71.8	72.0	71.8	7.9	7.0	6.8	11.0	9.8	9.4
Wheeling	71.6	72.4	72.1	7.7	7.8	8.1	10.8	10.8	11.2
Wisconsin	2,445.1	2,455.8	2,462.9	190.7	166.9	152.5	7.8	6.8	6.2
Appleton-Oshkosh-Neenah	161.3	162.7	163.8	12.4	10.3	9.2	7.7	6.3	5.6
Eau Claire	70.5	71.1	71.5	5.4	4.8	4.4	7.7	6.8	6.1
Green Bay	103.9	104.8	104.8	7.4	7.1	6.3	7.2	6.8	6.0
Janesville-Beloit	71.2	69.9	70.5	6.8	4.9	4.5	9.6	7.0	6.3
Kenosha	53.9	55.0	53.9	4.8	3.5	3.3	8.8	6.4	6.1
La Crosse	52.9	53.4	53.3	3.5	3.0	2.8	6.6	5.5	5.2
Madison	210.3	211.8	214.0	9.5	8.8	7.6	4.5	4.2	3.5
Milwaukee	732.8	732.4	733.0	45.2	40.1	36.9	6.2	5.5	5.0
Racine	86.4	85.4	85.7	7.0	5.8	5.3	8.2	6.8	6.2
Wausau	57.5	58.6	59.1	5.3	4.9	4.4	9.3	8.4	7.4
Wyoming	239.0	228.4	227.1	29.0	19.8	18.0	12.1	8.7	7.9

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.

Annual Averages

States and Areas

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls in States and selected areas by major industry

(In thousands)

State and area	Total			Mining			Construction		
	1985	1986	1987	1985	1988	1987	1985	1988	1987
Alabama	1,427.1	1,483.3	1,502.2	14.5	12.4	11.4	71.4	74.9	74.0
Birmingham	369.4	381.3	391.8	7.5	8.2	5.7	21.2	22.9	23.8
Huntsville	111.5	117.1	122.9	.1	.1	.1	4.3	4.8	5.5
Mobile	156.9	158.3	180.7	.9	.7	.5	11.8	10.6	9.5
Montgomery	118.3	121.5	125.0	.1	.1	.2	7.8	8.8	7.8
Tuscaloosa	54.0	56.1	58.0	2.9	2.8	2.5	2.5	2.9	2.9
Alaska	230.7	220.7	210.3	9.5	9.1	8.5	18.6	13.4	10.6
Arizona	1,278.8	1,337.8	1,383.7	11.9	11.0	11.4	112.1	113.1	102.4
Phoenix	842.4	882.6	912.7	.8	.5	.6	79.0	78.7	69.2
Tucson	231.9	239.8	243.8	2.3	1.7	1.8	21.0	21.4	19.5
Arkansas	797.1	813.8	834.5	5.5	4.3	4.0	35.3	36.2	34.2
Fayetteville-Springdale	43.4	44.8	47.5	(¹)	(¹)	(¹)	1.9	1.9	2.0
Fort Smith	69.6	72.3	76.2	1.3	1.0	.9	3.0	2.9	2.9
Little Rock-North Little Rock	221.2	225.2	229.1	.4	.4	.4	11.7	11.5	11.0
Pine Bluff	31.1	33.0	32.1	(¹)	(¹)	(¹)	1.6	3.3	1.6
California	10,979.1	11,258.1	11,657.7	49.9	42.8	40.4	496.2	531.0	582.0
Anaheim-Santa Ana	999.1	1,040.2	1,085.7	3.1	2.1	1.8	50.5	56.2	62.5
Bakersfield	154.3	158.0	157.1	16.4	13.8	12.8	9.4	9.9	9.3
Fresno	191.5	196.2	203.1	1.0	.7	.6	11.4	11.7	12.4
Los Angeles-Long Beach	3,825.1	3,908.2	4,011.9	12.4	10.5	9.4	120.9	130.7	147.2
Modesto	93.5	96.0	104.3	.1	(¹)	(¹)	6.0	6.3	7.0
Oakland	767.1	786.5	811.2	2.1	2.7	3.2	44.8	45.0	47.6
Oxnard-Ventura	186.6	193.7	203.8	3.3	2.9	2.6	9.4	10.7	12.7
Riverside-San Bernardino	524.8	561.6	604.2	1.3	1.3	1.2	38.4	43.9	50.9
Sacramento	494.5	520.0	548.6	.9	.8	.8	27.3	30.8	33.3
Salinas-Seaside-Monterey	100.1	101.9	106.0	.5	.4	.4	3.8	4.1	4.5
San Diego	783.9	819.7	862.9	.8	.8	.8	47.5	50.9	55.9
San Francisco	917.4	919.6	931.1	1.9	1.1	1.0	32.2	33.3	34.7
San Jose	782.0	768.2	783.5	.1	.1	.2	33.0	31.5	32.0
Santa Barbara-Santa Maria-Lompoc	138.8	143.7	145.3	1.5	1.3	1.2	8.4	6.5	6.4
Santa Rosa-Petaluma	114.4	118.3	124.4	.8	.6	.7	7.2	7.9	8.3
Stockton	131.5	138.3	142.0	.1	.1	.1	7.3	8.0	8.2
Vallejo-Fairfield-Napa	114.4	119.9	124.4	.4	.3	.3	7.0	7.9	8.8
Colorado	1,418.7	1,408.3	1,400.2	32.9	25.8	21.3	86.3	77.8	88.5
Boulder-Longmont	103.8	103.2	104.4	.3	.3	.3	4.8	4.1	3.6
Denver	817.5	804.7	793.8	21.5	18.7	14.1	48.8	42.9	37.7
Connecticut	1,582.3	1,604.2	1,639.3	1.6	1.6	1.6	65.8	71.3	76.5
Bridgeport-Milford	189.4	192.9	196.8	(¹)	(¹)	(¹)	7.3	7.8	8.7
Hartford	442.1	459.1	474.7	.2	.3	.3	18.0	18.1	19.8
New Britain	62.7	65.0	65.4	(¹)	(¹)	(¹)	3.1	3.7	4.3
New Haven-Meriden	237.5	243.7	249.8	.3	.3	.3	10.8	12.3	12.8
Stamford	120.8	122.5	126.1	.8	.6	.6	5.2	5.2	5.4
Waterbury	84.8	84.9	88.5	(¹)	(¹)	(¹)	3.6	3.9	4.3
Delaware	293.4	303.2	319.5	.1	.1	.1	17.6	18.9	19.9
Wilmington	256.4	261.2	272.5	.2	.2	.2	18.8	17.1	16.5
District of Columbia	629.0	640.1	655.3	.1	.1	.1	13.6	14.1	15.5
Washington MSA	1,906.3	1,966.0	2,075.1	1.1	1.1	1.2	110.9	121.9	130.4
Florida	4,410.0	4,599.4	4,852.5	10.1	9.3	8.7	334.3	339.5	340.8
Daytona Beach	101.0	108.0	111.6	(¹)	(¹)	(¹)	7.4	7.7	6.3
Fort Lauderdale-Hollywood-Pompano Beach	426.4	442.6	465.3	.4	.4	.4	35.9	36.7	35.4
Fort Myers-Cape Coral	94.0	99.6	107.8	(¹)	(¹)	(¹)	11.1	11.6	12.1
Gainesville	65.9	69.8	92.4	(¹)	(¹)	(¹)	4.7	4.6	4.2
Jacksonville	359.1	374.7	394.2	.5	.5	.5	28.6	27.8	27.6
Lakeland-Winter Haven	133.0	134.3	140.7	4.7	4.1	3.7	8.7	8.3	8.6
Melbourne-Titusville-Palm Bay	135.9	138.9	142.8	(¹)	(¹)	(¹)	9.5	9.1	8.5
Miami-Hialeah	782.6	798.8	826.1	.8	.9	.9	39.1	40.1	41.5
Orlando	413.5	444.4	474.9	(¹)	(¹)	(¹)	32.7	33.6	33.6
Pensacola	117.1	121.6	123.9	.4	.4	.3	9.5	10.3	9.2
Sarasota	93.0	97.8	104.3	(¹)	(¹)	(¹)	10.1	10.1	10.6
Tallahassee	97.9	103.1	106.5	(¹)	(¹)	(¹)	5.0	5.3	5.8
Tampa-St. Petersburg-Clearwater	732.4	761.2	797.0	.6	.7	.7	60.9	60.6	58.9
West Palm Beach-Boca Raton-DeLray Beach	284.8	302.6	328.3	(¹)	(¹)	(¹)	27.2	27.8	28.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Alabama	358.1	358.6	367.6	72.7	71.7	72.4	305.6	319.6	331.9
Birmingham	55.2	54.5	54.0	29.2	27.4	27.7	90.1	95.3	98.2
Huntsville	30.9	30.8	31.0	2.4	2.7	2.9	21.3	22.3	23.2
Mobile	25.9	26.1	26.2	9.7	9.3	9.1	41.2	42.9	43.5
Montgomery	16.8	17.9	18.9	4.7	4.8	4.9	25.9	27.2	28.2
Tuscaloosa	8.3	8.7	9.5	2.0	2.0	1.9	11.0	11.5	12.1
Alaska	12.1	12.6	13.5	18.7	17.9	17.7	45.8	43.7	41.4
Arizona	181.6	184.6	187.2	62.9	65.9	72.0	311.1	325.6	339.5
Phoenix	131.1	132.3	135.7	41.0	43.9	49.0	212.7	222.6	230.9
Tucson	31.4	31.6	31.0	9.4	9.2	9.5	51.6	53.7	55.2
Arkansas	209.6	211.8	219.5	47.2	48.4	51.0	180.7	184.8	189.1
Fayetteville-Springdale	9.6	10.2	11.7	3.7	3.9	4.3	10.5	10.6	10.9
Fort Smith	23.7	24.7	26.5	3.3	3.6	3.8	15.5	15.6	15.7
Little Rock-North Little Rock	33.8	32.4	32.1	14.9	15.1	16.5	53.6	55.0	55.4
Pine Bluff	5.8	5.9	6.2	3.0	2.7	2.5	6.4	6.7	6.9
California	2,076.1	2,069.7	2,104.9	568.7	574.6	583.0	2,626.1	2,686.4	2,754.6
Anaheim-Santa Ana	241.9	241.7	248.3	33.1	33.8	34.5	249.9	259.1	270.5
Bakersfield	10.3	10.2	10.9	8.2	8.1	7.9	39.0	38.6	37.7
Fresno	21.1	21.0	21.8	10.0	10.3	10.9	49.4	51.2	52.7
Los Angeles-Long Beach	887.1	891.4	906.5	200.9	202.7	206.5	894.9	910.2	915.2
Modesto	20.4	21.7	23.2	4.4	4.4	4.4	23.6	24.6	26.7
Oakland	102.8	101.6	103.6	50.4	54.8	56.3	194.4	197.1	201.0
Oxnard-Ventura	29.8	29.2	29.4	7.9	9.2	10.4	47.5	48.2	50.3
Riverside-San Bernardino	69.8	74.5	81.0	29.4	30.0	30.9	132.8	141.2	151.6
Sacramento	35.1	38.2	40.7	23.8	23.8	24.8	121.8	127.0	133.9
Salinas-Seaside-Monterey	9.0	9.4	10.1	4.9	4.7	4.9	27.5	27.5	28.2
San Diego	121.6	121.8	122.4	31.6	32.3	33.6	186.9	196.2	206.1
San Francisco	80.5	78.3	79.4	83.5	79.7	77.3	211.4	212.0	211.2
San Jose	280.2	263.7	260.9	22.2	21.3	21.5	149.4	148.6	151.0
Santa Barbara-Santa Maria-Lompoc	23.4	23.8	22.4	5.5	5.4	5.1	33.2	34.0	34.9
Santa Rosa-Petaluma	18.1	18.1	18.5	5.7	5.6	6.3	29.5	30.7	32.1
Stockton	21.5	21.9	23.2	8.7	8.5	8.5	30.6	31.6	33.0
Vallejo-Fairfield-Napa	11.1	11.8	11.9	4.4	4.5	4.6	27.1	28.6	29.6
Colorado	192.2	185.3	184.2	88.5	87.0	84.0	352.1	348.5	350.2
Boulder-Longmont	29.4	28.2	28.3	2.4	2.4	2.3	22.0	22.7	22.8
Denver	101.3	96.8	94.8	63.2	62.4	60.6	204.8	201.1	199.5
Connecticut	408.3	395.0	384.0	68.4	69.0	72.0	347.4	361.5	369.1
Bridgeport-Milford	62.8	59.8	58.1	7.4	7.7	8.7	43.2	44.9	45.5
Hartford	93.3	91.9	91.8	16.6	17.1	17.8	94.6	98.7	101.1
New Britain	22.7	22.3	20.8	3.2	3.1	3.1	12.1	12.9	13.3
New Haven-Meriden	47.9	47.1	46.5	17.6	17.4	18.0	54.9	56.9	57.6
Stamford	28.3	25.4	23.8	4.8	4.9	5.2	28.8	29.2	30.6
Waterbury	28.2	25.7	24.4	3.1	3.1	3.1	16.2	16.9	17.4
Delaware	72.2	68.7	69.5	12.0	12.7	13.5	64.4	67.3	70.6
Wilmington	62.1	58.6	59.4	13.0	13.6	14.5	52.9	55.0	57.6
District of Columbia	14.8	15.7	16.1	25.4	24.9	24.5	62.7	62.7	62.9
Washington MSA	81.7	85.6	86.3	88.7	95.2	101.0	379.5	400.3	414.1
Florida	514.4	517.2	529.9	243.0	247.4	255.9	1,184.8	1,238.8	1,317.7
Daytona Beach	12.1	12.0	11.7	3.3	3.3	3.4	28.9	30.8	32.9
Fort Lauderdale-Hollywood-Pompano Beach	43.8	43.3	45.4	21.0	21.0	22.3	124.9	130.9	139.4
Fort Myers-Cape Coral	4.6	5.1	5.4	4.2	4.6	4.8	28.3	29.5	32.0
Gainesville	5.3	5.4	5.5	1.7	1.7	1.7	18.8	20.1	20.9
Jacksonville	37.2	37.4	38.5	26.9	26.9	27.8	97.0	100.1	105.8
Lakeland-Winter Haven	21.9	21.3	22.2	6.0	6.0	6.2	36.3	37.0	38.8
Melbourne-Titusville-Palm Bay	27.4	27.6	27.9	5.6	5.7	5.8	30.3	31.5	33.2
Miami-Hialeah	94.2	93.4	95.0	68.2	68.6	68.8	208.1	211.9	221.1
Orlando	48.1	51.7	54.0	21.7	23.4	24.6	108.8	115.3	124.6
Pensacola	11.9	11.5	11.5	6.3	6.1	6.1	29.1	31.4	32.3
Sarasota	7.6	8.0	8.8	3.5	3.6	3.5	27.8	29.0	30.7
Tallahassee	4.0	4.4	4.6	2.8	2.9	3.1	21.0	21.8	22.9
Tampa-St. Petersburg-Clearwater	91.5	90.4	91.9	36.9	37.5	38.3	202.3	209.9	221.5
West Palm Beach-Boca Raton-Delray Beach	37.6	36.9	36.0	10.6	10.9	11.9	73.7	79.3	87.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Alabama	65.8	69.1	70.5	243.1	259.0	274.8	295.9	298.0	299.6
Birmingham	26.6	28.5	29.2	81.8	87.4	92.8	57.8	59.1	60.4
Huntsville	3.2	3.4	3.6	21.2	24.8	27.4	28.1	28.2	29.2
Mobile	7.8	7.8	8.1	32.6	33.7	36.0	27.0	27.2	27.8
Montgomery	7.0	7.3	7.5	23.2	24.2	25.8	31.0	31.2	31.7
Tuscaloosa	1.8	2.0	2.1	7.3	7.5	8.1	18.2	18.7	18.9
Alaska	12.8	12.4	11.2	44.8	43.7	41.7	68.3	68.0	65.7
Arizona	81.0	88.9	94.4	299.9	323.8	343.9	218.1	225.0	232.9
Phoenix	63.5	70.4	74.8	202.9	218.0	231.6	111.7	116.3	120.9
Tucson	11.5	12.1	12.7	56.2	61.3	64.6	48.3	48.6	49.6
Arkansas	36.5	37.4	37.7	139.3	146.0	153.4	143.0	145.1	145.8
Fayetteville-Springdale	1.5	1.5	1.5	5.9	6.4	7.0	10.4	10.3	10.2
Fort Smith	2.6	2.7	2.7	13.3	14.6	16.4	7.0	7.2	7.3
Little Rock-North Little Rock	14.9	15.2	15.7	47.3	50.3	52.4	44.7	45.3	45.7
Pine Bluff	1.5	1.5	1.5	5.7	5.8	6.1	7.1	7.2	7.3
California	724.5	763.7	803.7	2,644.8	2,751.3	2,899.5	1,792.8	1,838.8	1,889.4
Anaheim-Santa Ana	75.8	85.0	91.0	237.0	250.4	262.8	107.8	112.0	114.4
Bakersfield	5.8	6.2	6.3	28.9	30.4	32.3	36.3	38.7	40.0
Fresno	13.2	13.4	13.5	43.2	44.2	47.4	42.4	43.6	43.8
Los Angeles-Long Beach	260.9	273.6	285.2	970.7	1,001.7	1,045.4	477.2	487.4	496.6
Modesto	4.0	4.4	4.5	19.7	20.2	21.1	15.4	16.3	17.3
Oakland	46.8	50.6	54.4	171.5	178.3	186.7	154.3	156.3	158.6
Oxnard-Ventura	10.3	10.1	10.4	39.3	43.6	47.8	39.1	39.7	40.3
Riverside-San Bernardino	21.9	24.0	26.4	121.5	130.7	142.3	109.8	116.0	120.0
Sacramento	28.6	30.8	33.3	101.5	108.3	117.1	155.7	160.4	164.8
Salinas-Seaside-Monterey	4.7	5.0	5.4	24.0	24.7	25.8	25.8	26.1	26.8
San Diego	52.0	56.6	60.6	197.9	211.1	227.6	145.7	149.9	155.8
San Francisco	112.3	113.6	112.9	261.5	268.3	280.8	134.1	133.4	133.9
San Jose	32.0	33.3	34.7	184.4	185.0	196.5	80.7	84.7	86.5
Santa Barbara-Santa Maria-Lompoc	7.4	8.1	8.7	35.8	38.1	39.6	25.6	26.5	27.0
Santa Rosa-Petaluma	7.6	8.0	8.4	25.0	26.1	28.1	20.8	21.3	22.1
Stockton	7.8	8.2	8.7	27.1	28.5	29.8	28.5	29.6	30.4
Vallejo-Fairfield-Napa	4.5	4.6	4.5	24.2	26.0	27.8	35.7	36.2	36.9
Colorado	95.8	98.7	98.8	321.9	329.4	331.8	248.9	256.0	261.5
Boulder-Longmont	3.7	4.0	4.1	20.8	20.9	21.4	20.4	20.8	21.6
Denver	65.4	66.8	66.9	194.0	196.6	196.0	118.7	121.5	124.0
Connecticut	130.4	140.6	149.6	351.8	369.9	384.7	188.8	195.3	201.8
Bridgeport-Milford	9.7	10.6	11.6	41.0	43.8	44.8	18.0	18.3	19.3
Hartford	68.3	73.4	77.1	97.0	101.9	106.5	56.1	57.7	60.4
New Britain	3.2	3.7	4.1	12.0	12.8	13.2	6.4	6.5	6.5
New Haven-Meriden	13.8	14.6	15.1	62.4	65.2	67.9	29.8	30.0	31.4
Stamford	10.1	11.6	13.0	33.6	35.6	36.8	9.2	10.0	10.7
Waterbury	3.7	4.1	4.4	19.5	19.5	20.4	10.5	11.7	12.5
Delaware	19.5	22.9	26.5	62.8	66.6	73.0	44.8	46.1	46.4
Wilmington	18.1	20.8	23.5	55.5	59.3	64.2	35.8	36.4	36.7
District of Columbia	34.8	36.6	37.2	212.7	219.2	230.0	265.0	268.9	269.1
Washington MSA	107.0	115.4	124.4	582.2	615.8	659.6	555.2	552.7	558.2
Florida	319.2	339.7	360.1	1,129.8	1,205.6	1,305.3	674.4	701.9	734.1
Daytona Beach	6.1	6.4	6.5	26.9	28.6	30.9	16.3	17.2	17.9
Fort Lauderdale-Hollywood-Pompano Beach	35.6	36.7	39.6	112.7	119.1	125.3	52.1	54.5	57.5
Fort Myers-Cape Coral	6.9	7.6	8.1	24.7	26.5	30.0	14.0	14.5	15.3
Gainesville	3.6	4.2	4.3	19.1	20.0	21.3	32.6	33.7	34.4
Jacksonville	32.7	35.6	37.5	84.5	90.9	99.7	53.7	55.7	56.8
Lakeland-Winter Haven	7.5	8.1	8.3	29.9	31.1	33.8	18.0	18.4	19.1
Melbourne-Titusville-Palm Bay	4.9	5.1	5.4	38.9	39.8	41.1	19.2	20.0	20.8
Miami-Hialeah	64.8	66.3	67.5	207.8	214.9	224.1	99.6	102.7	107.2
Orlando	27.9	29.8	33.2	125.9	139.8	151.0	48.3	50.7	53.7
Pensacola	5.1	5.4	5.6	28.0	28.6	30.4	26.8	27.9	28.5
Sarasota	7.6	8.1	8.5	25.1	27.3	30.1	11.2	11.5	12.0
Tallahassee	4.4	4.6	4.9	18.9	20.6	21.8	41.5	43.3	45.1
Tampa-St. Petersburg-Clearwater	57.0	61.9	65.6	191.2	204.3	219.6	92.0	95.9	100.5
West Palm Beach-Boca Raton-Deerway Beach	23.5	26.1	28.6	78.5	85.4	95.2	33.7	36.4	38.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued

(In thousands)

State and area	Total			Mining			Construction		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Georgia	2,569.8	2,672.4	2,763.3	8.1	8.2	8.4	143.8	151.9	151.5
Albany	49.4	48.6	48.9	(¹)	(¹)	(¹)	2.3	2.3	2.7
Athens	58.7	60.6	62.3	.1	.1	.2	2.4	2.5	2.4
Atlanta	1,262.2	1,323.8	1,367.6	1.2	1.3	1.4	71.6	73.9	72.9
Augusta	145.6	151.0	156.3	.5	.5	.5	8.7	9.0	9.4
Columbus	88.9	89.8	92.1	.1	.1	.1	5.2	5.4	5.2
Macon-Warner Robins	113.3	115.1	117.9	.2	.1	.1	5.0	4.9	4.9
Savannah	95.4	99.3	102.3	(¹)	(¹)	(¹)	5.4	7.2	7.1
Hawaii	425.7	438.6	458.9	(¹)	(¹)	(¹)	17.2	18.6	21.0
Honolulu	342.3	351.4	366.1	(¹)	(¹)	(¹)	14.1	15.1	16.5
Idaho	336.0	328.2	333.5	3.8	2.9	2.6	15.1	14.6	13.6
Boise City	85.5	86.1	86.6	(²)	(²)	(²)	5.4	4.9	4.3
Illinois	4,755.3	4,790.7	4,895.7	27.6	25.0	23.9	171.6	181.3	190.6
Aurora-Elgin	127.4	130.3	134.3	(¹)	(¹)	(¹)	4.4	5.4	6.2
Bloomington-Normal	51.8	53.3	55.7	(¹)	(¹)	(¹)	1.2	1.4	1.6
Champaign-Urbana-Rantoul	77.7	82.0	84.4	(¹)	(¹)	(¹)	2.0	2.3	2.4
Chicago	2,933.4	2,954.4	3,015.1	2.8	2.9	2.5	108.8	111.0	118.5
Davenport-Rock Island-Moline	150.1	153.3	155.2	(¹)	(¹)	(¹)	4.8	4.8	4.7
Decatur	49.8	50.6	50.1	(¹)	(¹)	(¹)	1.6	2.0	1.9
Joliet	92.8	94.6	96.4	(¹)	(¹)	(¹)	4.3	4.5	5.2
Kankakee	32.2	32.2	32.8	(¹)	(¹)	(¹)	1.2	1.3	1.1
Lake County	172.2	175.7	184.7	(¹)	(¹)	(¹)	6.6	6.8	8.4
Peoria	130.5	131.6	133.0	(¹)	(¹)	(¹)	5.4	5.3	5.1
Rockford	121.1	123.8	124.1	(¹)	(¹)	(¹)	3.6	3.8	4.4
Springfield	91.9	94.4	97.9	(¹)	(¹)	(¹)	2.6	2.7	3.0
Indiana	2,168.6	2,221.8	2,303.9	10.1	8.9	8.6	87.0	92.9	99.8
Anderson	48.0	48.5	48.4	(²)	(²)	(²)	1.3	1.3	1.4
Bloomington	47.3	48.9	50.7	(²)	(²)	(²)	1.7	1.9	2.1
Elkhart-Goshen	87.5	91.5	97.6	(²)	(²)	(²)	2.3	2.6	2.7
Evansville	121.6	123.2	125.3	2.8	2.4	2.2	7.0	8.0	7.3
Fort Wayne	166.7	176.1	185.0	(²)	(²)	(²)	7.3	8.6	9.3
Gary-Hammond	215.3	209.9	218.8	(²)	(²)	(²)	11.7	10.7	11.5
Indianapolis	554.8	577.9	601.5	.9	.8	.8	25.1	27.9	30.1
Kokomo	44.2	44.0	44.3	(²)	(²)	(²)	1.1	1.2	1.2
Lafayette	59.5	60.9	63.2	(²)	(²)	(²)	1.7	1.9	2.5
Muncie	47.6	48.8	50.3	(²)	(²)	(²)	1.5	1.8	2.0
South Bend-Mishawaka	103.7	106.4	111.1	(²)	(²)	(²)	4.3	4.6	5.0
Terre Haute	51.5	52.1	52.9	.5	.5	.3	1.7	1.8	1.9
Iowa	1,074.2	1,073.8	1,107.2	2.1	2.0	2.2	36.6	35.2	35.0
Cedar Rapids	80.8	82.6	86.1	.2	.2	.2	2.8	2.8	3.2
Des Moines	193.3	196.5	205.9	(¹)	(¹)	(¹)	7.4	7.4	7.6
Dubuque	40.2	39.6	41.7	(¹)	(¹)	(¹)	1.2	1.2	1.3
Iowa City	48.5	49.4	50.8	(¹)	(¹)	(¹)	1.3	1.3	1.3
Sioux City	48.4	48.4	49.6	(¹)	(¹)	(¹)	1.7	1.7	1.9
Waterloo-Cedar Falls	60.4	57.7	60.4	(¹)	(¹)	(¹)	1.7	1.7	1.7
Kansas	967.9	984.8	999.6	16.7	12.2	11.5	42.3	43.9	44.5
Lawrence	29.3	30.8	31.9	(¹)	(¹)	(¹)	.9	1.2	1.4
Topeka	83.5	83.9	86.0	(¹)	(¹)	(¹)	3.3	3.5	3.6
Wichita	202.2	217.5	226.1	3.2	2.4	2.3	9.4	9.7	9.7
Kentucky	1,250.3	1,274.1	1,312.7	43.7	40.1	38.6	54.0	56.3	58.5
Lexington-Fayette	164.4	167.8	173.3	.9	.9	.7	9.0	9.4	10.0
Louisville	410.8	421.2	436.0	.6	.7	.5	19.2	20.6	22.2
Owensboro	32.5	33.0	33.3	1.1	.9	.8	1.9	1.9	2.0
Louisiana	1,591.2	1,518.5	1,482.5	81.2	62.2	54.3	105.2	90.5	80.3
Alexandria	44.9	45.1	45.5	.2	.2	.2	2.9	2.6	2.4
Baton Rouge	216.5	213.3	211.2	1.2	1.0	.8	22.1	20.0	19.6
Houma-Thibodaux	62.0	55.2	51.9	8.4	6.4	5.7	2.8	1.9	1.5
Lafayette	98.8	87.9	81.2	16.8	11.9	10.3	5.3	3.8	3.1
Lake Charles	59.0	57.8	57.8	2.1	1.3	.9	4.3	5.3	4.1
Monroe	56.1	55.4	54.5	.6	.4	.4	3.6	3.3	2.8
New Orleans	533.5	519.9	509.0	19.3	16.3	14.5	27.8	25.3	21.9
Shreveport	142.5	134.5	132.2	4.8	3.8	3.3	8.6	7.5	6.9
Maine	458.4	477.4	501.0	.1	.1	.1	23.4	26.9	30.9
Lewiston-Auburn	36.8	37.9	39.2	(¹)	(¹)	(¹)	1.7	1.9	2.2
Portland	108.8	116.5	123.0	(¹)	(¹)	(¹)	6.0	7.4	9.1

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Georgia	557.1	564.6	569.4	163.0	168.3	174.6	643.0	667.7	692.2
Albany	10.6	9.2	8.3	2.5	2.2	2.2	12.1	12.4	12.5
Athens	14.7	14.9	15.2	1.7	1.7	1.8	12.3	12.5	12.9
Atlanta	185.5	191.1	187.9	104.8	109.4	114.9	350.7	366.4	378.4
Augusta	36.8	36.1	35.7	5.0	5.0	5.2	31.0	32.4	34.0
Columbus	20.9	20.1	20.1	3.3	3.4	3.7	19.3	19.5	20.4
Macon-Warner Robins	19.4	18.7	18.4	4.9	5.0	4.9	24.9	25.2	26.6
Savannah	15.8	16.2	17.0	9.9	9.7	9.3	23.7	24.2	24.9
Hawaii	21.9	22.0	22.1	33.2	34.2	36.6	115.6	118.0	123.4
Honolulu	15.9	16.2	16.4	27.1	28.0	30.1	91.9	92.7	96.6
Idaho	54.7	52.1	54.1	19.2	18.3	17.9	84.4	83.9	84.9
Boise City	10.6	10.3	10.9	5.5	5.5	5.2	22.3	22.1	22.7
Illinois	970.7	925.8	931.7	280.9	281.4	295.4	1,166.9	1,184.5	1,222.2
Aurora-Elgin	37.4	35.7	36.1	3.5	4.0	3.0	34.5	36.1	37.9
Bloomington-Normal	4.5	4.6	5.1	3.3	3.0	2.6	12.6	12.6	12.7
Champaign-Urbana-Rantoul	7.1	7.5	7.9	2.4	2.3	2.3	19.0	19.0	19.2
Chicago	576.4	552.6	550.6	184.5	187.5	192.6	725.3	735.6	758.5
Davenport-Rock Island-Moline	32.6	32.0	33.0	8.0	8.2	8.2	41.2	42.4	42.3
Decatur	14.9	14.2	13.3	4.4	4.7	4.9	10.8	11.2	11.4
Joliet	19.4	19.5	19.4	8.9	8.7	8.3	21.7	22.4	22.8
Kankakee	5.1	5.2	4.9	1.5	1.5	1.4	8.1	8.0	8.3
Lake County	41.7	40.6	41.9	6.1	6.4	6.7	43.4	46.3	50.0
Peoria	32.3	31.5	31.3	6.5	6.6	6.8	33.1	33.0	33.1
Rockford	45.5	45.0	42.1	4.5	4.4	4.3	27.2	28.5	28.9
Springfield	4.4	4.0	3.9	4.6	4.7	4.8	18.8	20.2	22.1
Indiana	609.8	604.0	616.0	109.3	113.0	119.2	505.9	524.7	546.7
Anderson	19.1	18.7	17.3	1.2	1.4	1.5	10.3	10.6	11.2
Bloomington	7.6	8.0	8.7	1.6	1.7	1.7	10.7	11.3	11.5
Elkhart-Goshen	47.1	48.8	52.8	2.8	2.8	2.8	16.3	17.4	18.1
Evansville	31.5	30.7	30.6	6.5	6.5	6.5	30.3	31.0	32.8
Fort Wayne	46.7	48.5	50.5	10.9	11.5	12.0	41.1	43.4	45.9
Gary-Hammond	60.4	53.6	54.2	13.7	13.9	14.7	49.0	50.0	52.2
Indianapolis	108.0	107.4	107.0	32.6	34.3	36.6	142.1	148.2	155.5
Kokomo	20.8	19.6	18.7	1.4	1.4	1.4	9.0	9.3	9.5
Lafayette	11.4	11.3	11.8	1.7	1.8	2.0	12.5	12.7	13.0
Muncie	11.1	10.9	10.7	2.2	2.2	2.3	11.6	12.1	12.6
South Bend-Mishawaka	24.5	23.7	23.9	4.4	4.7	4.9	27.1	27.8	29.4
Terre Haute	10.5	10.6	10.4	2.5	2.6	2.7	14.0	14.1	14.4
Iowa	204.7	201.7	213.4	52.0	51.5	52.9	276.6	274.4	281.4
Cedar Rapids	21.7	22.2	22.3	3.9	4.3	5.7	20.3	20.5	20.9
Des Moines	22.7	22.1	23.9	11.9	11.8	12.0	51.3	52.0	54.1
Dubuque	12.0	10.9	12.2	1.7	1.6	1.6	9.0	9.2	9.6
Iowa City	3.8	3.7	4.1	1.1	1.1	1.1	9.3	9.4	9.9
Sioux City	9.8	9.8	8.8	3.2	3.1	3.1	12.6	12.4	13.2
Waterloo-Cedar Falls	13.9	11.3	13.2	2.0	1.8	1.7	14.3	14.1	14.6
Kansas	174.4	175.7	175.9	63.9	62.7	61.4	243.3	247.8	251.4
Lawrence	4.3	4.4	4.5	1.3	1.3	1.3	6.5	6.8	7.1
Topeka	9.5	9.2	8.9	7.2	6.9	6.7	18.8	18.7	19.4
Wichita	53.8	57.8	59.4	9.8	10.5	10.7	49.5	52.9	52.7
Kentucky	255.3	253.8	260.2	66.6	65.8	67.6	297.0	303.3	314.5
Lexington-Fayette	29.9	28.2	27.9	7.6	7.7	7.7	38.5	39.8	41.5
Louisville	87.0	86.1	86.3	25.1	25.8	27.7	102.2	104.3	107.9
Owensboro	6.1	5.8	5.8	2.3	2.2	2.1	8.3	8.6	8.5
Louisiana	178.0	166.0	163.5	116.0	107.2	103.9	383.3	370.3	362.8
Alexandria	3.4	3.3	3.4	2.3	2.3	2.2	10.7	10.7	11.0
Baton Rouge	20.7	18.9	18.4	10.4	10.4	10.2	52.6	52.0	50.8
Houma-Thibodaux	5.4	4.5	4.2	7.6	6.2	5.5	15.3	14.0	13.5
Lafayette	6.3	6.0	5.9	7.3	6.6	5.7	25.7	23.8	22.1
Lake Charles	9.2	8.9	10.6	4.2	3.9	3.8	14.7	14.1	14.3
Monroe	7.3	7.4	7.2	2.9	2.9	2.8	15.5	15.0	14.5
New Orleans	45.8	43.5	41.8	46.2	43.7	43.1	139.1	137.2	134.6
Shreveport	22.3	18.6	17.8	8.9	8.4	8.3	33.9	32.5	32.4
Maine	105.9	103.6	103.6	19.3	19.4	20.4	108.0	116.1	124.1
Lewiston-Auburn	10.5	10.2	10.2	1.4	1.4	1.4	8.5	8.9	9.6
Portland	16.4	16.6	16.0	5.7	5.9	5.9	31.8	34.3	36.3

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Georgia	136.8	148.1	155.1	469.3	503.3	536.1	448.7	462.2	476.0
Albany	2.4	2.3	2.4	7.5	7.7	8.2	11.9	12.4	12.6
Athens	1.8	1.9	1.9	8.2	9.0	9.5	17.4	18.0	18.4
Atlanta	88.6	93.4	98.1	281.7	302.8	319.6	178.0	185.5	194.1
Augusta	5.2	5.7	6.1	26.5	29.7	32.1	31.9	32.8	33.3
Columbus	5.8	6.0	8.2	14.2	15.1	15.9	20.0	20.2	20.6
Macon-Warner Robins	8.8	7.2	7.4	19.5	20.5	22.1	32.6	33.6	33.4
Savannah	4.2	4.4	4.4	20.0	22.5	23.7	18.4	15.2	15.8
Hawaii	31.9	33.2	33.9	112.8	118.7	126.3	93.3	93.9	95.6
Honolulu	27.0	28.0	28.5	87.3	92.2	97.6	79.0	79.2	80.4
Idaho	23.8	18.9	19.2	85.0	66.6	68.1	70.2	70.9	73.4
Boise City	8.2	8.0	7.6	17.5	18.8	19.1	18.0	16.5	16.9
Illinois	339.1	348.1	357.8	1,100.8	1,129.8	1,155.1	697.8	714.8	719.1
Aurora-Elgin	6.7	6.7	6.4	26.7	28.0	29.8	14.2	14.4	14.8
Bloomington-Normal	8.8	9.2	9.4	10.8	11.4	11.8	10.6	11.2	12.5
Champaign-Urbana-Rantoul	2.8	3.3	3.3	13.5	15.0	16.0	30.9	32.5	33.3
Chicago	242.7	251.3	257.2	741.8	758.6	780.2	351.1	355.0	355.1
Davenport-Rock Island-Moline	7.5	7.8	8.0	28.9	30.7	31.4	27.1	27.4	27.7
Decatur	2.8	2.8	2.7	9.8	10.4	10.5	5.3	5.5	5.5
Joliet	3.7	3.8	3.8	19.0	19.4	20.1	15.6	16.0	16.4
Kankakee	1.6	1.5	1.5	8.0	8.3	8.6	6.7	6.4	6.9
Lake County	5.9	6.7	6.8	37.9	39.5	41.1	29.8	28.8	29.1
Peoria	8.8	6.8	7.0	31.0	32.6	33.7	15.4	16.0	16.1
Rockford	4.9	5.2	5.3	23.3	25.1	26.7	12.0	11.7	12.3
Springfield	7.7	7.8	7.9	22.6	23.4	24.1	31.1	31.5	31.9
Indiana	105.5	110.4	115.4	408.1	428.3	450.2	332.9	339.7	348.1
Anderson	1.6	1.6	1.6	8.8	9.2	9.7	5.7	5.8	5.9
Bloomington	1.8	1.6	1.8	7.2	7.6	7.9	16.8	16.9	17.1
Elkhart-Goshen	2.3	2.3	2.5	11.6	12.2	13.0	5.1	5.4	5.7
Evansville	4.7	4.9	5.1	27.3	28.0	28.8	11.5	11.7	11.8
Fort Wayne	10.8	11.6	12.1	33.0	35.6	37.8	16.9	16.9	17.4
Gary-Hammond	7.8	8.0	8.3	42.7	43.8	47.3	30.0	29.9	30.8
Indianapolis	40.9	43.0	45.8	119.6	128.1	135.6	85.5	88.1	90.2
Kokomo	1.3	1.3	1.4	5.8	6.1	6.4	5.0	5.2	5.8
Lafayette	2.7	2.9	3.0	10.4	10.9	11.2	19.1	19.3	19.7
Muncie	1.6	1.6	1.6	9.5	9.9	10.3	10.2	10.4	10.7
South Bend-Mishawaka	5.1	5.8	6.2	27.6	29.0	30.4	10.7	11.0	11.2
Terre Haute	1.7	1.9	2.0	10.5	10.8	10.9	10.1	10.1	10.3
Iowa	82.8	83.3	84.8	232.5	238.5	248.3	206.8	207.3	211.2
Cedar Rapids	4.9	4.7	4.9	17.3	17.9	18.9	9.8	10.0	10.2
Des Moines	24.8	25.3	28.9	46.7	48.9	51.8	28.8	29.0	29.4
Dubuque	1.4	1.4	1.4	11.4	11.7	12.1	3.5	3.5	3.5
Iowa City	1.4	1.4	1.5	7.4	7.7	7.7	24.3	24.7	25.2
Sioux City	2.8	2.8	2.8	12.2	12.5	13.7	6.3	6.3	6.4
Waterloo-Cedar Falls	3.1	3.1	3.0	13.5	13.8	14.1	11.7	11.8	12.0
Kansas	52.8	54.7	56.4	185.8	193.7	200.8	188.7	194.1	197.8
Lawrence .....	.9	1.0	1.1	5.0	5.3	5.7	10.4	10.7	10.8
Topeka	5.8	5.9	6.2	18.2	18.8	20.5	20.8	20.9	20.8
Wichita	10.5	11.2	11.4	41.3	47.9	53.2	24.7	25.2	28.7
Kentucky	58.9	59.2	60.9	248.8	259.6	273.5	230.0	236.0	238.8
Lexington-Fayette	8.2	8.7	9.1	38.8	38.9	41.1	33.5	34.3	35.3
Louisville	26.6	27.5	28.7	91.7	97.0	102.3	58.3	59.2	60.3
Owensboro	1.2	1.4	1.5	6.9	7.3	7.6	4.7	4.9	5.0
Louisiana	85.4	85.7	84.7	320.0	317.3	320.3	322.4	319.3	312.8
Alexandria	2.8	2.8	2.6	10.0	10.7	11.1	12.9	12.7	12.8
Baton Rouge	13.7	13.8	13.5	41.1	41.8	43.0	54.8	55.7	54.9
Houma-Thibodaux	2.6	2.5	2.3	9.1	8.8	8.6	11.1	11.0	10.8
Lafayette	4.2	4.1	3.9	20.2	18.6	17.7	13.1	13.1	12.6
Lake Charles	2.7	2.7	2.7	11.0	10.8	11.1	10.8	10.7	10.3
Monroe	4.3	4.5	4.6	11.0	11.3	11.6	10.9	10.7	10.7
New Orleans	33.4	33.9	34.1	132.4	132.5	132.7	89.5	87.5	86.4
Shreveport	7.9	7.8	7.4	30.7	31.2	31.6	25.4	24.7	24.5
Maine	20.9	22.9	24.8	95.8	101.6	108.4	84.9	86.7	88.6
Lewiston-Auburn	1.9	2.0	2.2	9.2	9.7	9.9	3.6	3.9	3.8
Portland	9.6	10.9	12.2	25.3	26.7	26.4	14.0	14.6	15.1

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued

(In thousands)

State and area	Total			Mining			Construction		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Maryland	1,887.8	1,952.0	2,017.6	1.7	1.7	1.9	128.8	139.5	150.2
Baltimore MSA	1,024.4	1,052.5	1,084.3	.2	.3	.3	61.4	66.3	72.3
Baltimore City	454.5	450.9	456.5	(¹)	(¹)	(¹)	18.7	18.2	19.2
Suburban Maryland-D.C.	663.2	689.1	712.5	.5	.6	.6	54.8	59.7	62.6
Massachusetts	2,926.0	2,984.8	3,045.8	1.5	1.6	1.8	109.4	123.2	136.7
Boston	1,642.4	1,675.1	1,712.0	.6	.7	.9	57.4	63.7	68.7
Brockton	68.4	70.2	72.1	(¹)	(¹)	(¹)	3.0	3.6	3.8
Fall River	54.4	55.0	55.2	(¹)	(¹)	(¹)	1.8	2.1	2.4
Fitchburg-Leominster	39.2	39.3	39.7	(¹)	(¹)	(¹)	2.0	2.2	2.5
Lawrence-Haverhill	157.0	159.6	161.4	(¹)	(¹)	(¹)	9.9	9.4	8.2
Lowell	102.5	104.1	105.1	.3	.2	.2	4.3	4.9	5.5
New Bedford	66.6	65.2	66.6	(¹)	(¹)	(¹)	2.3	2.8	3.1
Pittsfield	40.9	41.6	42.2	.1	.1	.1	1.6	1.9	2.3
Springfield	225.7	229.5	237.1	.1	.2	.1	7.5	8.4	9.8
Worcester	183.8	192.8	198.5	.1	.1	.1	7.4	8.5	9.4
Michigan	3,561.5	3,657.3	3,713.2	9.9	9.6	9.8	107.8	115.2	121.2
Ann Arbor	150.2	158.2	163.8	(¹)	(¹)	(¹)	3.8	5.1	5.3
Battle Creek	54.2	55.4	57.1	(¹)	(¹)	(¹)	1.4	1.5	1.8
Benton Harbor	60.3	61.7	63.3	(¹)	(¹)	(¹)	1.3	1.3	1.4
Detroit	1,790.1	1,834.7	1,857.0	.9	.9	.8	52.6	57.6	59.3
Flint	174.8	176.9	173.1	(¹)	(¹)	(¹)	5.0	4.7	4.4
Grand Rapids	292.4	303.6	312.5	(¹)	(¹)	(¹)	11.7	13.2	14.3
Jackson	48.1	50.2	50.7	(¹)	(¹)	(¹)	1.2	1.2	1.2
Kalamazoo	97.6	101.1	103.7	(¹)	(¹)	(¹)	2.9	3.0	3.1
Lansing-East Lansing	191.7	198.6	202.2	(¹)	(¹)	(¹)	4.9	5.5	5.2
Muskegon	56.2	56.3	56.2	(¹)	(¹)	(¹)	2.2	2.0	2.1
Saginaw-Bay City-Midland	147.9	149.8	152.8	(¹)	(¹)	(¹)	5.5	6.0	6.1
Minnesota	1,864.8	1,892.5	1,959.5	8.3	6.5	6.0	71.3	75.0	81.9
Duluth	83.1	86.8	88.4	5.0	3.7	3.8	2.8	3.7	4.4
Minneapolis-St. Paul	1,211.0	1,232.8	1,281.2	(¹)	(¹)	(¹)	46.7	49.3	53.7
Rochester	55.1	55.1	56.7	(²)	(²)	(²)	1.9	1.8	1.8
St. Cloud	62.4	66.0	68.9	(²)	(²)	(²)	3.2	3.4	3.9
Mississippi	838.9	848.2	863.9	8.9	6.7	6.0	36.7	35.2	33.9
Jackson	165.7	170.1	175.9	1.6	1.2	1.0	8.2	8.4	8.4
Missouri	2,094.7	2,142.6	2,185.3	6.3	5.9	5.5	92.9	98.1	99.5
Kansas City	703.0	723.8	732.3	.6	.6	.5	32.3	35.8	36.9
St. Joseph	36.1	35.9	35.7	(¹)	(¹)	(¹)	1.4	1.4	1.4
St. Louis	1,068.9	1,102.5	1,121.9	3.8	3.6	3.5	53.8	56.6	56.6
Springfield	99.2	104.3	107.2	.1	.1	.1	4.1	4.6	5.0
Montana	279.1	275.4	274.1	6.8	5.8	5.7	11.5	10.2	8.8
Nebraska	650.5	652.5	659.4	1.9	1.7	1.7	26.1	24.6	23.9
Lincoln	106.4	107.7	110.4	(¹)	(¹)	(¹)	4.0	3.9	4.1
Omaha	289.6	293.1	299.3	.3	.2	.2	12.7	12.2	12.0
Nevada	446.4	468.1	499.0	6.1	6.3	7.9	23.9	27.7	29.6
Las Vegas	246.6	262.2	283.7	.2	.3	.3	14.3	16.9	18.4
Reno	121.7	126.2	131.9	.7	.8	.9	6.0	6.8	7.0
New Hampshire	466.0	490.1	513.6	.4	.6	.6	30.9	35.2	37.2
Nashua	83.9	87.6	92.9	.1	.1	.1	3.8	4.6	5.1
Portsmouth-Dover-Rochester, NH-ME	98.9	103.8	109.1	.1	.1	.1	4.4	5.4	6.0
New Jersey	3,414.1	3,490.5	3,589.2	2.2	2.1	2.3	141.0	153.4	167.6
Atlantic City	150.5	156.3	161.8	(¹)	(¹)	(¹)	7.7	9.1	10.2
Bergen-Passaic	635.5	647.4	668.6	.2	.1	.1	26.3	29.1	31.1
Camden	395.1	408.6	422.6	.1	.1	.1	18.5	20.4	24.3
Jersey City	232.1	236.5	240.8	(¹)	(¹)	(¹)	5.7	6.4	6.9
Middlesex-Somerset-Hunterdon	478.7	494.3	515.1	.6	.6	.6	20.1	21.9	22.8
Monmouth-Ocean	294.6	307.1	321.9	(¹)	(¹)	(¹)	16.8	18.9	21.1
Newark	936.7	942.4	955.2	.7	.7	.7	32.8	35.7	38.3
Trenton	179.5	187.9	194.1	(¹)	(¹)	(¹)	4.2	4.6	5.2
Vineland-Millville-Bridgeton	52.7	54.4	56.1	.3	.3	.3	1.8	2.1	2.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Maryland	217.2	210.2	207.2	90.5	91.2	92.8	473.5	497.4	516.7
Baltimore MSA	140.6	133.2	131.5	57.2	53.7	53.0	246.7	259.1	267.3
Baltimore City	52.5	47.2	44.6	31.2	27.6	27.9	97.0	95.9	98.0
Suburban Maryland-D.C.	35.1	35.4	34.9	21.0	24.6	27.0	175.1	184.1	191.3
Massachusetts	654.3	614.4	597.0	125.4	125.9	129.3	681.4	709.7	719.0
Boston	310.8	286.5	280.9	73.3	74.4	75.2	366.4	380.6	385.0
Brockton	12.1	11.6	11.4	4.9	5.2	5.1	19.9	20.7	21.9
Fall River	18.3	17.4	17.0	1.7	1.8	1.8	13.4	14.1	14.4
Fitchburg-Leominster	13.6	12.6	11.7	1.5	1.5	1.6	9.2	9.9	10.0
Lawrence-Haverhill	55.3	52.6	51.0	6.2	6.6	6.8	32.1	34.9	36.2
Lowell	39.6	37.3	36.0	3.6	3.3	3.6	21.3	22.3	22.4
New Bedford	23.0	20.6	19.4	2.7	2.9	2.8	15.1	15.1	16.3
Pittsfield	12.2	12.6	11.9	1.0	1.1	1.1	10.4	9.6	9.7
Springfield	53.7	50.8	50.9	8.7	9.1	9.6	52.7	54.5	56.0
Worcester	47.5	47.5	46.0	8.2	8.2	8.6	43.7	46.7	47.5
Michigan	1,002.4	1,000.4	966.0	145.9	149.0	150.3	792.0	819.7	855.1
Ann Arbor	37.9	39.7	39.5	4.3	4.1	4.1	23.6	26.5	28.3
Battle Creek	14.7	14.9	15.2	1.8	1.9	1.8	10.2	10.7	11.4
Benton Harbor	20.9	21.3	21.4	2.6	2.3	2.3	11.8	12.5	13.0
Detroit	493.4	490.7	468.4	80.9	84.1	84.6	410.3	418.3	437.7
Flint	65.3	66.2	57.6	4.8	4.7	4.6	41.3	41.7	44.8
Grand Rapids	95.1	95.4	95.9	10.9	10.9	11.2	73.0	76.8	80.4
Jackson	12.4	13.0	12.8	4.3	4.2	4.1	10.8	11.3	11.5
Kalamazoo	29.0	29.6	29.6	3.2	3.1	3.2	21.3	22.2	23.1
Lansing-East Lansing	38.8	38.1	34.9	5.7	5.6	5.9	37.5	39.7	41.5
Muskegon	18.8	17.7	17.5	2.7	2.6	2.3	11.7	12.2	12.4
Saginaw-Bay City-Midland	47.1	45.2	43.7	7.2	7.0	6.9	33.4	34.8	36.2
Minnesota	375.3	369.1	374.9	98.3	98.0	100.4	465.6	471.1	488.1
Duluth	7.0	7.2	7.5	6.1	5.8	5.8	21.6	21.6	21.9
Minneapolis-St. Paul	257.5	251.4	253.7	67.1	67.3	69.9	297.2	303.1	315.9
Rochester	11.2	10.8	10.6	1.9	1.7	1.7	11.3	11.2	11.5
St. Cloud	10.8	11.5	11.8	3.6	3.5	3.4	18.3	19.9	21.1
Mississippi	221.6	223.7	228.0	39.7	39.7	42.0	177.5	182.1	185.5
Jackson	20.2	20.1	20.4	10.9	11.2	12.5	40.0	41.5	42.2
Missouri	430.3	424.7	419.7	139.1	140.1	142.6	505.7	519.6	538.2
Kansas City	120.9	118.1	111.0	53.7	55.2	56.1	181.0	185.7	191.5
St. Joseph	9.2	8.9	8.2	2.1	2.1	2.5	8.8	9.0	9.1
St. Louis	224.3	222.3	218.8	72.5	73.0	73.0	255.4	265.3	274.4
Springfield	19.4	20.6	20.2	6.4	6.6	6.9	27.4	28.4	30.3
Montana	21.8	21.1	20.8	20.7	20.4	19.5	74.6	72.6	72.6
Nebraska	88.4	86.0	88.1	43.9	42.7	42.8	169.0	169.1	170.2
Lincoln	13.0	12.7	13.3	6.0	5.9	5.8	24.4	25.0	25.5
Omaha	33.5	32.4	34.0	23.4	22.7	22.8	74.7	75.5	76.5
Nevada	21.9	22.3	23.2	25.3	26.5	27.7	90.9	94.7	101.4
Las Vegas	7.8	8.1	8.6	14.4	14.9	15.6	52.2	54.9	59.7
Reno	8.3	8.2	8.3	7.9	8.6	9.1	27.4	28.3	29.5
New Hampshire	122.5	118.1	118.3	15.7	16.5	17.0	111.7	121.4	129.8
Nashua	37.3	35.6	36.6	2.1	2.2	2.1	17.3	19.6	21.1
Portsmouth-Dover-Rochester, NH-ME	20.9	20.7	20.5	2.5	2.7	2.9	25.3	27.3	28.8
New Jersey	712.8	690.5	676.4	226.0	231.2	238.3	813.2	834.9	861.3
Atlantic City	8.3	8.3	8.4	6.0	6.0	6.2	33.5	34.2	34.9
Bergen-Passaic	167.1	162.8	160.5	29.4	28.4	28.7	179.9	184.1	192.4
Camden	75.8	74.8	71.8	16.7	17.3	18.3	105.5	109.2	114.7
Jersey City	54.8	51.8	49.1	29.7	30.9	31.0	53.9	56.6	59.2
Middlesex-Somerset-Hunterdon	112.9	112.3	113.8	38.3	40.0	43.0	116.6	120.1	124.8
Monmouth-Ocean	31.7	30.7	30.6	14.2	15.3	16.2	81.0	85.2	88.1
Newark	199.4	185.6	181.9	79.3	80.3	81.1	190.7	194.2	196.7
Trenton	31.7	31.5	31.1	5.8	6.1	6.5	29.1	30.2	31.4
Vineland-Millville-Bridgeton	14.7	15.0	15.4	2.1	2.1	2.2	10.6	10.8	11.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1988	1987	1985	1988	1987	1985	1988	1987
Maryland	109.7	117.8	124.3	472.8	502.8	535.3	393.8	391.8	389.2
Baltimore MSA	66.7	71.4	74.9	248.5	284.7	283.1	203.1	203.8	201.9
Baltimore City	42.3	43.5	43.8	125.7	131.0	138.5	87.1	87.5	84.5
Suburban Maryland-D.C.	35.7	38.4	41.0	185.4	188.8	207.1	155.8	149.7	148.0
Massachusetts	188.1	202.8	217.2	784.7	818.4	847.3	381.3	389.0	397.5
Boston	128.5	139.8	149.8	512.8	534.0	549.7	192.8	195.5	201.7
Brockton	2.9	3.1	3.1	14.3	14.8	15.0	11.3	11.8	11.8
Fall River	2.7	2.7	3.0	10.2	10.2	10.2	6.4	6.6	6.6
Fitchburg-Leominster	1.4	1.8	1.8	8.9	7.2	7.7	4.4	4.3	4.4
Lawrence-Haverhill	5.4	5.9	6.3	29.5	30.7	32.7	18.7	19.8	20.3
Lowell	3.5	4.0	4.3	17.3	19.2	20.1	12.7	12.9	13.2
New Bedford	2.5	2.4	2.5	11.4	12.0	12.7	9.4	9.4	9.8
Pittsfield	2.1	2.0	2.1	8.9	9.7	10.2	4.8	4.7	4.8
Springfield	14.5	15.4	18.1	52.5	54.2	58.7	36.1	38.9	37.9
Worcester	11.5	12.8	13.9	42.9	46.2	48.9	22.5	23.1	24.2
Michigan	163.3	171.0	179.1	759.5	793.8	817.5	580.7	598.6	614.1
Ann Arbor	4.2	4.3	4.6	29.1	30.0	32.4	47.2	48.2	49.4
Battle Creek	3.7	3.8	3.8	11.2	11.4	11.9	11.1	11.2	11.3
Benton Harbor	2.2	2.3	2.5	13.0	13.8	14.1	8.5	8.3	8.4
Detroit	95.3	100.3	104.8	427.8	448.9	481.6	228.9	235.9	239.8
Flint	5.8	5.9	5.8	29.9	30.1	30.8	22.9	23.5	25.1
Grand Rapids	12.5	13.8	13.8	59.3	62.9	65.5	29.4	30.4	31.1
Jackson	1.5	1.7	1.8	9.4	9.4	9.3	8.4	9.3	9.8
Kalamazoo	4.1	4.4	4.7	21.5	22.4	23.2	15.5	16.3	16.7
Lansing-East Lansing	10.4	10.7	11.5	32.3	35.0	36.9	61.7	63.6	66.1
Muskegon	1.4	1.4	1.3	10.9	11.8	11.6	8.4	8.7	8.9
Saginaw-Bay City-Midland	5.9	6.0	6.0	29.3	30.5	32.7	19.4	20.1	21.1
Minnesota	110.3	115.2	119.8	434.4	449.7	474.2	301.2	307.9	314.2
Duluth	3.1	3.1	3.1	19.5	19.9	20.5	18.2	21.8	21.5
Minneapolis-St. Paul	84.3	88.9	93.2	295.8	306.1	322.8	161.6	186.1	171.5
Rochester	1.5	1.6	1.5	21.7	22.3	23.7	5.6	5.8	5.9
St. Cloud	2.2	2.4	2.4	12.9	13.5	14.2	11.5	11.9	12.3
Mississippi	35.6	37.3	38.5	130.6	134.0	138.4	188.5	189.5	191.5
Jackson	12.9	13.6	14.3	34.7	36.3	38.4	37.2	37.9	38.7
Missouri	121.9	129.7	134.5	464.5	486.0	503.2	334.1	338.5	342.1
Kansas City	52.9	56.5	58.0	156.8	164.3	168.4	104.9	107.6	109.8
St. Joseph	2.0	1.9	1.9	7.0	7.1	7.0	5.6	5.7	5.7
St. Louis	65.9	70.8	73.9	256.7	272.1	282.9	136.4	138.8	138.9
Springfield	4.7	5.0	4.8	24.6	26.2	26.8	12.5	12.8	13.1
Montana	13.3	13.1	13.2	60.6	62.1	64.1	69.9	70.2	69.4
Nebraska	45.4	46.8	47.8	142.1	146.7	149.5	133.8	134.9	135.5
Lincoln	7.6	7.7	8.1	21.5	22.2	23.2	29.9	30.3	30.3
Omaha	27.0	28.4	28.8	74.8	78.1	80.1	43.3	43.7	44.8
Nevada	21.4	22.4	23.4	196.4	206.6	221.7	60.5	61.6	64.1
Las Vegas	12.6	13.3	14.2	115.8	123.0	134.6	29.3	30.8	32.3
Reno	6.4	6.8	6.9	48.3	51.1	54.1	16.7	15.6	16.1
New Hampshire	25.5	28.3	31.7	99.3	108.0	113.9	60.0	62.0	65.0
Nashua	2.7	3.2	3.9	14.9	16.3	17.4	5.7	6.0	6.6
Portsmouth-Dover-Rochester, NH-ME	5.1	5.7	6.5	16.5	18.1	19.9	24.1	23.8	24.4
New Jersey	194.9	210.8	226.6	792.8	832.1	874.3	531.1	535.6	542.3
Atlantic City	6.8	6.7	7.2	64.1	67.2	70.8	24.2	24.8	24.3
Bergen-Passaic	32.4	34.3	37.7	135.3	142.8	151.0	65.0	65.8	67.0
Camden	20.2	22.0	24.5	89.6	94.4	98.5	68.8	70.4	70.4
Jersey City	9.3	11.0	12.6	37.9	39.6	41.7	40.7	40.3	40.4
Middlesex-Somerset-Hunterdon	29.0	33.2	35.5	92.3	96.1	104.3	69.0	70.1	70.3
Monmouth-Ocean	15.2	16.6	17.8	77.1	80.8	87.6	58.5	59.5	60.4
Newark	70.0	73.5	76.8	229.4	238.6	246.0	134.5	133.9	133.8
Trenton	8.7	8.9	9.4	49.0	53.4	55.8	51.1	53.1	54.8
Vineland-Millville-Bridgeton	2.7	2.8	3.0	9.3	10.0	10.3	11.2	11.3	11.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued

(In thousands)

State and area	Total			Mining			Construction		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
New Mexico	520.7	526.1	529.5	21.0	16.2	15.0	37.5	35.1	31.6
Albuquerque	220.3	227.7	231.4	.2	.2	.2	17.7	17.0	15.9
Las Cruces	36.8	40.2	40.3	.1	.1	.1	2.5	2.5	2.2
Santa Fe	50.7	53.0	53.9	.1	.1	.1	3.4	3.0	2.5
New York	7,750.8	7,904.4	8,052.9	6.6	5.9	5.9	285.6	308.9	329.5
Albany-Schenectady-Troy	381.9	393.3	404.0	.3	.3	.3	15.3	17.1	19.3
Binghamton	118.3	118.1	120.5	(¹)	(¹)	(¹)	5.0	5.2	5.1
Buffalo	413.2	423.0	435.3	.5	.4	.4	14.9	15.5	16.8
Elmira	34.8	36.0	38.2	(¹)	(¹)	(¹)	1.1	1.5	1.5
Glens Falls	42.2	44.6	46.9	(¹)	(¹)	(¹)	1.6	1.9	2.2
Nassau-Suffolk	1,068.0	1,103.8	1,130.0	.3	.2	.2	50.6	55.3	60.0
New York PMSA	3,991.3	4,055.0	4,105.8	1.8	1.4	1.3	133.5	145.7	152.4
New York City	3,488.1	3,539.0	3,580.1	1.2	.8	.7	106.3	113.7	118.7
Niagara Falls	78.3	78.6	80.4	(¹)	(¹)	(¹)	2.8	2.8	3.2
Orange County	92.3	96.9	101.4	(¹)	(¹)	(¹)	3.6	4.4	5.5
Poughkeepsie	114.6	115.4	116.5	.2	(²)	(²)	5.4	6.0	6.3
Rochester	451.1	454.5	462.6	.7	.8	.7	15.1	16.3	18.6
Rockland County	93.5	95.4	97.2	(²)	(²)	(²)	4.1	4.7	5.3
Syracuse	287.8	291.9	298.9	.3	.2	.2	15.8	15.2	15.2
Utica-Rome	117.0	118.9	120.9	.1	.1	.2	3.4	3.7	3.9
Westchester County	393.7	403.3	410.1	.3	.3	.3	22.0	26.1	26.9
North Carolina	2,651.2	2,744.1	2,856.2	4.8	4.8	4.9	149.2	155.2	159.1
Asheville	75.4	75.9	77.2	.1	.1	.1	3.8	3.8	4.1
Charlotte-Gastonia-Rock Hill	522.8	545.4	576.9	.3	.4	.4	29.5	31.6	34.1
Greensboro-Winston-Salem-High Point	438.5	450.3	463.6	.3	.3	.3	23.0	24.4	24.6
Raleigh-Durham	355.2	368.3	381.3	.3	.4	.4	23.8	23.2	21.5
North Dakota	252.0	249.9	252.0	6.9	4.7	4.1	11.7	10.8	10.8
Bismarck	35.9	36.1	36.7	.2	.2	.2	1.6	1.6	1.6
Fargo-Moorhead	67.0	68.3	70.6	(¹)	(¹)	(¹)	3.3	3.2	3.4
Grand Forks	28.0	28.7	29.7	(¹)	(¹)	(¹)	1.4	1.6	1.6
Ohio	4,372.9	4,471.4	4,578.9	26.1	22.6	20.9	154.0	160.7	177.0
Akron	257.6	260.7	264.8	.8	.7	.5	8.2	8.6	8.9
Canton	151.5	151.9	155.9	1.2	1.0	1.0	5.3	5.3	6.1
Cincinnati	628.1	650.8	677.1	.4	.4	.4	23.5	26.1	29.6
Cleveland	868.7	879.2	891.6	1.2	1.1	1.1	27.5	26.4	28.2
Columbus	603.6	630.7	657.7	1.0	.9	1.0	21.9	24.0	27.1
Dayton-Springfield	408.9	419.4	427.9	.4	.4	.4	13.5	14.8	16.4
Toledo	264.5	272.0	279.4	.2	.2	.2	8.5	9.5	10.6
Youngstown-Warren	184.2	187.1	188.1	.7	.6	.7	6.3	6.7	7.3
Oklahoma	1,165.3	1,124.4	1,104.6	65.4	51.8	45.9	45.1	38.0	33.7
Enid	24.2	22.7	21.8	1.9	1.3	1.0	.9	.8	.6
Lawton	33.6	33.7	33.7	.3	.2	.2	1.4	1.3	1.2
Oklahoma City	424.4	409.7	401.2	16.9	12.7	11.4	16.3	13.1	12.4
Tulsa	305.2	297.3	288.7	20.0	16.6	15.3	13.5	11.8	10.2
Oregon	1,030.0	1,058.5	1,094.0	1.5	1.4	1.4	33.1	34.3	34.5
Eugene-Springfield	96.9	99.2	104.3	.2	.2	.2	2.9	2.9	3.2
Portland	518.9	535.3	555.1	.6	.5	.5	17.8	18.8	19.4
Salem	88.7	91.0	96.0	.1	.1	.1	2.9	3.0	3.1
Pennsylvania	4,730.3	4,790.9	4,914.5	36.3	33.5	30.9	187.1	201.8	222.1
Allentown-Bethlehem	263.5	263.7	271.0	.5	.5	.6	9.7	10.9	13.1
Altoona	48.8	49.5	50.9	(²)	(²)	(²)	2.4	2.5	2.7
Beaver County	53.0	51.3	50.7	(²)	(²)	(²)	3.4	3.7	4.0
Erie	109.6	109.1	110.2	.3	.3	.2	3.1	3.2	3.4
Harrisburg-Lebanon-Carlisle	276.9	282.9	293.4	.4	.4	.3	10.3	11.2	12.3
Johnstown	75.4	76.1	77.8	4.8	3.8	3.7	2.5	2.8	2.8
Lancaster	165.4	172.2	178.9	.3	.4	.4	8.3	9.2	10.5
Philadelphia PMSA	2,045.9	2,089.5	2,146.0	1.2	1.2	1.1	82.7	92.3	102.8
Philadelphia City	755.4	760.3	774.7	(²)	(²)	(²)	17.5	17.8	17.7
Pittsburgh	844.1	843.3	852.6	6.9	6.6	5.7	38.7	40.7	41.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
New Mexico	37.3	37.4	38.4	30.0	29.4	28.7	122.6	126.3	128.0
Albuquerque	19.2	19.7	20.0	12.1	12.3	12.3	56.2	58.1	59.6
Las Cruces	3.3	3.5	4.1	1.4	1.3	1.3	7.4	7.6	8.1
Santa Fe	1.5	1.6	1.7	1.2	1.2	1.2	9.4	10.2	10.5
New York	1,293.1	1,251.6	1,221.9	416.1	402.2	404.6	1,631.2	1,674.4	1,699.0
Albany-Schenectady-Troy	51.9	50.4	49.2	16.6	16.0	16.4	81.2	84.7	86.0
Binghamton	40.1	38.0	37.8	4.2	4.2	4.4	23.8	24.9	26.5
Buffalo	78.3	76.5	76.8	21.6	21.4	21.5	101.8	106.1	108.8
Elmira	7.1	6.8	7.8	1.3	1.3	1.4	9.6	10.1	10.5
Glens Falls	10.0	10.0	10.4	1.3	1.3	1.3	9.5	10.4	11.1
Nassau-Suffolk	179.5	180.0	177.0	45.7	46.4	48.2	287.7	298.2	305.3
New York PMSA	494.8	475.6	461.1	257.4	242.4	240.1	758.9	762.9	762.1
New York City	407.7	391.2	378.8	232.0	217.3	214.4	638.1	638.5	637.0
Niagara Falls	24.8	24.4	24.1	3.6	3.6	3.7	17.7	17.8	18.6
Orange County	15.1	15.0	14.7	5.5	5.6	5.9	23.7	25.4	27.0
Poughkeepsie	34.4	32.1	30.1	3.2	3.3	3.3	20.0	21.0	22.6
Rochester	147.7	138.6	132.2	13.7	13.9	14.5	92.3	96.0	99.8
Rockland County	16.0	15.5	14.8	4.2	4.1	4.0	21.8	22.8	23.1
Syracuse	57.7	54.3	52.7	16.0	16.7	17.9	66.0	69.0	70.5
Utica-Rome	25.8	24.8	24.1	4.6	4.5	4.4	24.7	25.8	26.7
Westchester County	69.4	67.2	65.6	20.6	20.4	21.0	95.0	97.3	97.7
North Carolina	828.6	832.8	855.3	130.5	133.7	141.3	579.5	612.6	642.4
Asheville	21.0	20.2	19.2	3.6	3.6	3.7	16.8	17.6	18.4
Charlotte-Gastonia-Rock Hill	148.6	148.1	153.5	44.4	46.4	48.4	124.2	130.1	138.5
Greensboro-Winston-Salem-High Point	153.3	152.0	153.0	24.6	25.1	27.2	95.0	99.6	103.7
Raleigh-Durham	60.0	58.9	57.9	17.1	17.5	17.1	72.8	76.4	81.6
North Dakota	15.4	15.3	15.7	16.5	16.1	16.2	67.6	67.0	67.4
Bismarck	1.9	1.9	1.9	2.9	2.7	2.6	9.6	9.7	9.8
Fargo-Moorhead	4.8	4.9	4.9	4.0	4.1	4.5	20.0	20.2	20.9
Grand Forks	1.4	1.5	1.6	1.5	1.5	1.6	8.0	8.0	8.3
Ohio	1,124.2	1,109.8	1,095.3	202.7	203.4	206.9	1,031.7	1,062.8	1,096.5
Akron	68.1	67.2	66.5	12.8	12.9	12.9	62.3	63.9	65.5
Canton	46.2	43.7	43.5	5.9	5.7	5.7	36.7	38.2	39.3
Cincinnati	147.1	147.7	145.4	33.8	33.5	35.3	159.3	164.4	170.0
Cleveland	211.2	204.9	200.8	41.1	41.4	41.2	209.2	212.6	214.8
Columbus	106.1	105.8	103.1	26.0	26.6	27.9	150.8	157.4	162.2
Dayton-Springfield	106.3	105.7	103.8	14.5	14.9	15.4	90.1	93.6	96.8
Toledo	65.7	63.4	62.1	13.9	13.8	13.7	64.6	66.6	69.0
Youngstown-Warren	52.7	51.7	48.8	7.6	7.5	7.6	45.3	46.4	48.1
Oklahoma	172.0	160.4	154.4	64.6	64.1	62.8	286.5	276.2	268.9
Enid	2.0	1.6	1.6	2.4	2.3	2.2	6.9	6.7	6.4
Lawton	3.3	3.5	3.4	1.4	1.4	1.3	9.0	8.8	8.5
Oklahoma City	52.4	48.7	47.0	21.5	20.6	19.7	108.5	103.8	100.8
Tulsa	53.1	50.1	47.1	21.6	22.9	23.2	73.6	72.3	70.2
Oregon	199.3	198.4	204.9	57.3	57.2	58.3	258.6	267.3	276.3
Eugene-Springfield	18.6	18.0	19.6	4.3	4.1	4.2	24.7	25.5	26.5
Portland	92.9	91.9	94.3	33.8	33.7	34.5	138.0	141.6	145.2
Salem	13.4	13.5	14.5	2.5	2.7	2.9	20.2	20.6	21.5
Pennsylvania	1,089.5	1,048.9	1,042.1	240.6	239.5	245.3	1,067.4	1,092.3	1,122.6
Allentown-Bethlehem	87.5	79.6	77.1	14.0	14.0	14.0	55.2	58.0	59.8
Altoona	11.1	11.1	11.3	4.8	4.7	4.5	12.3	12.4	12.8
Beaver County	14.0	11.0	9.8	5.0	5.1	5.2	11.0	11.0	11.2
Erie	36.3	35.0	34.5	4.2	4.1	3.9	23.5	23.2	23.6
Harrisburg-Lebanon-Carlisle	52.0	50.4	52.0	18.1	17.8	18.1	61.3	63.4	66.5
Johnstown	12.2	12.5	12.9	5.0	5.0	5.1	16.0	16.1	16.2
Lancaster	57.9	58.5	60.0	6.8	7.0	7.0	39.9	41.7	42.8
Philadelphia PMSA	394.7	382.6	374.6	94.6	95.0	98.4	473.3	485.5	497.7
Philadelphia City	103.2	99.8	96.0	45.2	44.3	45.0	145.7	147.4	148.6
Pittsburgh	138.8	128.9	123.6	46.0	44.8	44.9	213.3	213.4	214.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
New Mexico	25.8	26.6	27.1	113.2	118.9	122.5	133.3	138.2	138.2
Albuquerque	13.5	14.2	14.8	57.6	61.5	63.7	43.7	44.7	45.0
Las Cruces	1.5	1.6	1.6	5.2	5.7	6.3	15.4	17.9	16.8
Santa Fe	1.9	2.0	2.0	12.5	13.5	14.3	20.5	21.3	21.6
New York	721.7	758.0	781.3	2,042.9	2,121.0	2,201.0	1,353.6	1,382.3	1,389.8
Albany-Schenectady-Troy	19.6	21.3	22.6	81.7	95.4	100.4	105.4	108.1	109.7
Binghamton	3.8	3.9	4.0	21.1	21.3	21.8	20.3	20.7	20.8
Buffalo	22.7	24.5	28.3	101.7	106.2	111.3	71.6	72.4	73.4
Elmira	1.1	1.2	1.4	6.3	8.8	9.4	6.2	6.4	6.2
Glens Falls	1.9	1.9	2.0	9.2	10.0	10.6	8.6	8.6	9.0
Nassau-Suffolk	65.3	71.2	75.2	263.7	275.0	285.3	175.2	177.4	178.7
New York PMSA	535.6	559.4	582.1	1,173.1	1,213.8	1,250.7	636.2	653.8	656.1
New York City	507.6	529.3	548.9	1,038.5	1,074.5	1,107.1	556.6	573.5	574.7
Niagara Falls	1.9	1.8	1.9	15.2	15.8	16.1	12.2	12.2	12.7
Orange County	3.8	4.0	4.0	19.8	20.6	21.9	21.2	21.6	22.2
Poughkeepsie	3.6	4.0	4.5	23.8	25.0	25.5	23.9	23.9	24.2
Rochester	19.7	20.8	21.8	100.2	105.2	111.2	61.7	62.9	63.6
Rockland County	3.6	4.0	5.0	22.7	23.2	24.0	21.1	21.1	20.9
Syracuse	18.6	19.0	19.2	65.3	68.4	72.6	48.1	49.2	50.6
Utica-Rome	6.2	6.4	6.7	23.6	24.7	26.1	28.8	28.6	29.0
Westchester County	23.9	25.4	27.4	107.6	111.3	114.4	54.9	55.5	56.7
North Carolina	109.4	117.9	126.6	428.7	456.3	485.5	420.5	430.9	441.2
Asheville	2.6	2.7	2.7	15.7	18.4	17.5	11.9	11.5	11.4
Charlotte-Gastonia-Rock Hill	29.2	32.6	36.3	90.1	96.7	104.4	56.7	59.6	61.3
Greensboro-Winston-Salem-High Point	20.6	21.6	22.8	72.9	76.8	80.9	48.8	50.6	51.2
Raleigh-Durham	18.8	21.4	22.8	80.0	86.0	93.7	83.0	84.7	86.4
North Dakota	12.4	12.5	12.5	57.9	59.2	60.7	63.8	64.4	64.6
Bismarck	1.7	1.7	1.7	9.9	10.2	10.5	8.1	8.2	8.4
Fargo-Moorhead	4.2	4.3	4.4	17.3	18.0	18.7	13.4	13.5	13.8
Grand Forks	1.1	1.1	1.1	6.0	6.2	6.6	8.6	8.8	8.9
Ohio	219.3	232.3	243.1	949.5	1,001.0	1,051.2	665.2	678.9	688.1
Akron	9.6	10.2	10.5	54.0	55.8	57.6	41.6	41.7	42.3
Canton	6.1	6.4	6.5	32.4	33.5	35.3	17.6	18.1	18.5
Cincinnati	35.7	36.2	40.3	147.1	155.9	166.8	81.2	84.7	87.3
Cleveland	49.5	51.8	54.4	213.2	224.6	233.5	115.7	116.2	117.5
Columbus	49.4	53.7	57.2	136.0	145.9	154.9	112.4	116.4	119.4
Dayton-Springfield	16.6	17.2	17.8	95.4	100.2	104.3	72.1	72.6	73.0
Toledo	10.2	11.0	11.4	61.7	66.6	70.9	39.6	40.9	41.5
Youngstown-Warren	7.5	8.0	8.2	41.1	42.6	43.8	23.0	23.5	23.7
Oklahoma	63.2	62.4	59.1	222.6	224.6	231.6	245.7	246.8	248.4
Enid	1.3	1.1	1.0	5.1	5.3	5.5	3.6	3.6	3.5
Lawton	1.6	1.6	1.6	5.3	5.6	5.7	11.2	11.4	11.6
Oklahoma City	27.0	26.3	24.8	85.3	86.7	88.9	96.5	97.8	96.2
Tulsa	17.5	17.7	17.4	70.2	69.5	70.0	35.8	36.5	35.5
Oregon	66.8	69.5	71.7	215.6	230.2	242.4	197.7	200.2	204.5
Eugene-Springfield	4.5	4.6	4.8	20.5	22.1	23.8	21.2	21.8	22.2
Portland	42.2	44.5	47.1	119.8	129.0	136.7	73.9	75.4	77.4
Salem	5.0	5.3	5.5	16.6	17.8	19.0	28.0	28.1	29.4
Pennsylvania	263.1	278.3	291.7	1,166.1	1,216.9	1,274.3	680.2	679.8	685.5
Allentown-Bethlehem	10.2	10.5	11.5	57.8	61.0	65.5	28.6	29.3	29.5
Altoona	1.5	1.5	1.6	9.6	10.2	10.7	7.1	7.2	7.3
Beaver County	1.8	1.8	1.8	10.4	10.9	11.1	7.4	7.8	7.7
Erie	4.9	5.1	5.4	24.4	24.9	25.9	13.0	13.3	13.3
Harrisburg-Lebanon-Carlisle	15.1	16.0	17.1	55.7	59.0	61.4	63.9	64.9	65.7
Johnstown	4.4	4.7	4.7	18.0	18.5	19.5	12.6	12.6	12.9
Lancaster	6.0	6.5	6.7	31.6	34.1	36.4	14.5	14.9	15.2
Philadelphia PMSA	142.4	152.8	183.2	561.2	585.0	609.2	295.8	295.2	299.2
Philadelphia City	66.6	69.5	73.3	235.9	242.5	250.6	141.5	138.9	143.3
Pittsburgh	50.0	51.6	53.8	243.3	252.8	264.2	107.2	104.5	104.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued

(In thousands)

State and area	Total			Mining			Construction		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Pennsylvania—Continued									
Reading	142.3	143.5	147.2	(²)	(²)	(²)	5.6	5.9	6.6
Scranton-Wilkes-Barre	276.1	282.3	288.7	0.9	0.8	0.7	10.8	11.1	11.8
Sharon	40.0	39.9	40.4	.2	.2	.2	1.0	1.1	1.1
State College	49.3	50.8	52.9	.3	.2	.2	1.7	2.0	2.3
Williamsport	45.6	47.1	50.1	(²)	(²)	(²)	1.6	1.8	1.9
York	160.9	164.2	169.2	.4	.4	.4	7.9	8.2	9.7
Rhode Island									
Pawtucket-Woonsocket-Attleboro	429.2	442.5	451.4	.1	.1	.1	15.2	17.4	19.2
Providence	126.2	130.0	132.6	.1	.1	.1	4.0	4.5	4.9
Providence	301.4	309.7	317.9	.1	.1	.1	11.2	13.0	14.3
South Carolina									
Charleston	1,296.2	1,338.0	1,392.5	1.7	1.6	1.6	83.8	87.8	86.6
Columbia	174.1	179.3	186.3	(¹)	(¹)	(¹)	13.3	13.6	13.4
Greenville-Spartanburg	208.0	215.3	225.0	(¹)	(¹)	(¹)	12.8	13.8	13.5
Greenville-Spartanburg	285.2	295.4	307.0	(¹)	(¹)	(¹)	20.2	21.2	21.2
South Dakota									
Rapid City	249.4	251.9	254.9	2.5	2.6	2.5	9.5	9.6	10.0
Rapid City	33.1	33.9	34.5	.3	.3	.3	2.0	2.3	2.2
Sioux Falls	61.8	63.0	64.4	(¹)	(¹)	(¹)	2.6	2.4	2.7
Tennessee									
Chattanooga	1,867.8	1,929.8	2,008.5	7.7	7.2	6.7	85.6	90.0	96.6
Johnson City-Kingsport-Bristol	174.9	179.7	187.7	.9	.9	.8	7.5	7.5	8.2
Knoxville	151.1	154.4	159.4	.2	.2	.3	6.2	5.9	6.5
Memphis	235.0	242.0	248.8	1.8	1.8	1.9	11.1	11.9	11.8
Memphis	388.7	403.0	421.2	.1	.1	.1	18.1	18.5	19.6
Nashville	434.1	456.1	470.6	.7	.7	.7	25.7	28.2	27.9
Texas									
Abilene	6,663.1	6,564.2	6,497.8	259.2	205.2	181.4	443.8	404.2	346.0
Amarillo	53.8	50.6	48.6	4.0	2.6	2.1	2.9	2.4	2.1
Austin	81.0	78.4	77.5	1.9	1.6	1.3	4.5	3.8	3.6
Beaumont-Port Arthur	357.5	360.1	352.7	1.1	1.0	.8	27.3	23.6	17.0
Brazoria	136.1	130.3	128.6	2.6	1.8	1.5	9.4	7.8	7.6
Brownsville-Harlingen	59.4	57.3	56.8	1.9	1.8	1.8	6.3	5.6	5.7
Bryan-College Station	65.2	65.8	65.6	.1	.1	.1	3.2	2.9	2.2
Corpus Christi	48.6	48.4	47.0	1.3	.8	.6	2.7	2.4	1.9
Dallas	135.0	129.0	123.6	7.7	6.0	4.2	10.1	8.3	6.6
Dallas	1,322.6	1,337.5	1,330.3	23.7	21.3	18.7	87.2	81.5	62.9
El Paso	178.5	182.8	185.4	.3	.2	.1	9.3	10.0	9.7
Ft. Worth-Arlington	503.4	512.2	514.8	4.4	3.8	3.6	33.7	30.4	24.7
Galveston-Texas City	72.4	70.9	71.0	.7	.6	.6	3.9	4.2	3.9
Houston	1,479.0	1,410.9	1,381.3	88.4	71.6	62.4	107.0	94.9	84.1
Killeen-Temple	66.4	68.3	69.3	.1	.1	.1	4.1	3.8	3.6
Laredo	34.3	34.6	35.3	2.0	1.7	1.9	1.4	1.3	1.2
Longview-Marshall	68.5	65.6	64.2	4.6	3.9	3.6	3.6	3.2	2.9
Lubbock	91.0	90.6	90.9	.5	.3	.4	4.5	4.1	3.4
McAllen-Edinburg-Mission	84.0	85.9	88.2	1.7	1.1	.8	4.5	4.3	3.9
Midland	49.9	45.7	43.3	11.6	9.9	9.6	2.4	1.7	1.3
Odessa	52.4	45.1	42.1	9.1	6.5	5.9	3.6	2.7	2.1
San Angelo	37.5	36.9	36.3	.9	.6	.4	2.3	2.0	1.6
San Antonio	485.9	495.4	501.2	3.3	2.8	2.6	37.8	35.2	29.9
Sherman-Denison	37.6	37.8	37.6	.3	.2	.1	1.7	1.8	1.7
Texarkana	45.3	45.3	45.4	.1	.1	.1	2.3	2.0	2.0
Tyler	62.6	61.8	61.1	3.0	2.1	1.9	2.9	3.0	2.4
Victoria	29.9	28.2	27.1	3.1	1.9	1.6	2.5	2.1	1.8
Waco	78.1	77.6	77.3	.2	.1	.1	4.4	3.9	3.6
Wichita Falls	51.7	50.4	49.9	3.0	2.2	1.9	2.2	2.2	1.7
Utah									
Provo-Orem	624.3	634.1	639.4	9.7	7.8	8.0	35.5	32.2	26.7
Salt Lake City-Ogden	70.1	72.5	74.4	.1	(¹)	(¹)	3.4	2.9	2.6
Salt Lake City-Ogden	434.4	442.9	445.1	2.5	1.8	2.6	23.9	23.0	18.8
Vermont									
Barre-Montpelier	224.7	234.4	244.4	.5	.5	.5	13.8	15.3	16.4
Burlington	(¹)	31.4	33.5	(¹)	.2	.2	(¹)	2.0	2.1
Burlington	68.5	70.9	74.0	(¹)	(¹)	(¹)	3.9	4.2	4.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Pennsylvania-Continued									
Reading	50.6	48.0	48.0	6.0	6.3	6.6	29.8	31.4	32.7
Scranton-Wilkes-Barre	73.9	72.7	71.5	14.4	14.8	15.4	60.3	63.4	66.0
Sharon	10.2	9.6	9.6	2.1	1.8	1.7	9.9	10.3	10.5
State College	7.7	7.4	7.3	1.2	1.2	1.2	9.0	9.5	10.1
Williamsport	14.7	15.1	16.2	1.9	1.8	1.9	10.0	10.5	11.5
York	58.7	57.9	58.3	6.9	6.9	7.3	37.8	39.3	40.9
Rhode Island									
Pawtucket-Woonsocket-Attleboro	119.2	118.9	116.5	13.9	14.6	15.5	94.6	99.3	103.4
Providence	54.5	54.7	53.8	3.5	3.4	3.4	28.9	30.6	32.1
	75.6	74.8	73.3	10.7	11.1	11.9	64.8	67.3	69.9
South Carolina									
Charleston	365.4	365.2	373.4	56.0	56.4	58.7	277.4	290.9	310.4
Columbia	19.8	19.5	19.5	9.1	9.1	9.7	42.6	44.2	46.2
Greenville-Spartanburg	28.0	28.0	28.9	9.5	9.9	10.2	45.8	47.9	49.5
	97.9	98.0	100.2	10.2	10.6	11.2	64.4	66.6	70.6
South Dakota									
Rapid City	27.5	28.2	28.7	12.7	12.6	12.3	65.9	65.2	66.8
Sioux Falls	3.2	3.0	3.2	1.9	1.9	1.8	9.7	9.7	9.9
	7.9	8.5	8.3	4.6	4.7	4.6	16.9	16.8	17.4
Tennessee									
Chattanooga	492.4	490.5	495.4	93.0	97.6	103.3	435.3	452.1	474.0
Johnson City-Kingsport-Bristol	43.7	43.8	45.3	8.3	8.7	8.6	40.1	41.2	43.5
Knoxville	52.7	52.8	53.4	6.0	6.1	6.0	33.5	34.4	35.8
Memphis	50.9	51.0	50.3	8.8	9.0	9.8	57.5	60.7	63.0
Nashville	52.2	51.8	52.3	33.3	35.5	38.7	108.2	111.2	116.9
	89.4	90.5	89.7	22.2	22.7	23.1	105.5	111.5	115.2
Texas									
Abilene	998.6	951.1	928.2	380.8	374.1	383.8	1,699.0	1,678.1	1,642.4
Amarillo	5.4	4.9	4.6	2.8	2.6	2.5	14.6	14.0	13.5
Austin	9.9	9.8	9.8	6.4	6.1	5.8	24.0	23.1	22.4
Beaumont-Port Arthur	42.0	40.8	39.6	10.6	11.1	10.8	80.6	81.0	79.1
Brazoria	27.6	25.5	24.9	10.3	10.0	9.9	32.9	32.3	31.8
Brownsville-Harlingen	17.1	15.7	15.3	2.3	2.4	2.3	11.2	11.3	11.1
Bryan-College Station	9.8	9.5	9.9	3.4	3.2	3.1	18.3	17.9	17.4
Corpus Christi	3.5	3.2	3.0	1.6	1.6	1.6	10.8	10.7	9.8
Dallas	13.2	12.2	11.4	7.6	7.2	7.0	34.8	33.5	31.8
El Paso	233.2	226.4	221.4	83.6	86.6	89.1	353.6	357.0	346.8
Ft. Worth-Arlington	36.7	35.8	36.6	9.9	9.9	10.2	44.1	44.9	46.2
Galveston-Texas City	113.5	113.6	114.3	26.1	27.4	29.6	135.3	137.4	137.3
Houston	10.3	9.2	8.6	5.4	5.2	5.4	13.9	14.0	14.1
Killeen-Temple	173.2	153.8	145.5	100.5	96.6	97.6	380.6	361.2	350.1
Laredo	8.7	8.6	8.0	3.0	2.8	2.7	16.2	16.2	16.1
Longview-Marshall	1.8	1.9	1.8	3.7	3.9	4.4	10.4	10.3	10.3
Lubbock	16.0	15.3	15.3	3.7	3.2	3.2	17.5	17.3	16.6
McAllen-Edinburg-Mission	8.2	7.5	7.2	4.7	4.7	4.9	26.9	27.2	26.9
Midland	11.7	11.9	12.1	2.6	2.8	2.8	25.7	25.5	26.3
Odessa	3.9	3.3	2.9	2.5	2.3	2.0	11.3	10.6	10.1
San Angelo	5.0	4.0	3.7	2.6	2.1	2.1	14.8	13.4	12.4
San Antonio	5.5	5.7	5.6	3.3	3.3	3.1	9.5	9.4	9.5
Sherman-Denison	51.4	48.6	46.5	19.1	18.7	18.2	125.2	128.1	130.3
Texarkana	12.0	11.5	11.0	2.0	2.0	2.0	8.2	8.3	8.4
Tyler	7.5	7.3	7.3	2.0	1.8	1.8	10.8	11.0	10.6
Victoria	12.0	11.4	10.8	3.0	2.9	2.8	16.9	16.5	16.6
Waco	3.1	3.0	2.9	1.5	1.5	1.5	8.3	8.0	7.9
Wichita Falls	16.2	15.4	14.8	3.5	3.5	3.3	19.1	18.8	19.1
	8.5	8.2	8.3	2.8	2.6	2.6	12.7	12.3	12.2
Utah									
Provo-Orem	94.0	92.0	92.1	37.0	37.6	37.9	147.9	152.4	152.5
Salt Lake City-Ogden	11.5	10.9	10.6	2.2	2.5	2.8	14.6	15.5	15.9
	63.6	62.0	61.7	28.9	29.0	28.9	108.6	111.8	111.8
Vermont									
Barre-Montpelier	49.8	49.5	49.3	9.4	9.7	10.0	50.0	53.0	56.4
Burlington	(¹)	4.4	4.6	(¹)	.8	.9	(¹)	6.6	7.1
	16.8	16.7	16.4	2.8	3.0	2.9	15.7	16.1	17.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Pennsylvania-Continued									
Reading	7.0	7.1	7.5	27.2	28.5	29.4	16.1	16.2	16.5
Scranton-Wilkes-Barre	11.4	11.9	12.6	63.4	66.5	69.7	41.0	41.2	41.0
Sharon	1.3	1.4	1.3	10.1	10.4	11.0	5.2	5.1	5.1
State College	1.5	1.6	1.6	8.1	9.0	9.4	19.8	20.0	20.7
Williamsport	2.2	2.2	2.3	8.9	9.2	9.7	6.3	6.5	6.7
York	4.5	4.7	4.9	27.1	29.0	29.8	17.6	17.8	17.9
Rhode Island									
Pawtucket-Woonsocket-Attleboro	23.6	25.0	25.5	105.0	109.3	113.1	57.7	58.0	58.1
Providence	3.4	3.5	3.7	22.1	23.5	24.4	9.8	9.7	10.1
Providence	19.7	20.9	21.3	76.2	79.0	83.2	43.2	43.5	44.0
South Carolina									
Charleston	57.2	61.5	64.5	209.9	223.1	241.6	244.8	251.4	255.6
Columbia	8.1	8.3	8.4	33.1	36.3	39.5	47.9	48.2	49.5
Columbia	16.6	17.4	18.1	37.5	39.6	43.1	57.5	58.3	61.4
Greenville-Spartanburg	11.1	11.6	11.8	44.9	47.8	52.2	36.3	39.4	39.6
South Dakota									
Rapid City	14.0	14.2	14.3	59.3	60.5	61.4	57.9	58.8	58.8
Rapid City	1.7	1.7	1.7	8.2	8.5	8.9	6.2	6.5	6.7
Sioux Falls	5.9	6.1	6.1	16.6	17.3	17.9	7.2	7.3	7.3
Tennessee									
Chattanooga	89.4	95.4	102.0	360.2	384.7	407.1	304.2	312.4	323.5
Johnson City-Kingsport-Bristol	10.5	11.1	11.9	33.3	35.2	36.6	30.5	31.2	32.8
Knoxville	4.8	4.9	5.3	25.3	27.0	28.4	22.7	23.0	23.8
Memphis	8.8	9.0	9.5	48.8	50.1	51.6	47.2	48.4	50.8
Memphis	21.9	22.9	24.3	88.3	93.8	97.9	66.6	69.2	71.4
Nashville	29.0	31.4	33.3	99.1	107.0	114.8	62.4	64.2	66.0
Texas									
Abilene	445.9	449.6	442.6	1,346.7	1,383.0	1,430.0	1,088.9	1,118.8	1,143.4
Amarillo	2.7	2.6	2.6	13.2	13.2	12.9	8.2	8.2	8.3
Amarillo	4.4	4.4	4.5	16.0	16.0	16.3	13.6	13.6	13.8
Austin	24.5	25.5	25.1	80.5	83.0	84.4	91.1	94.1	95.8
Beaumont-Port Arthur	5.7	5.5	5.3	27.9	27.5	27.9	19.7	19.7	19.9
Brazoria	2.2	2.1	2.1	8.0	7.8	7.7	10.3	10.6	10.8
Brownsville-Harlingen	3.4	3.4	3.5	12.3	13.2	13.6	14.6	15.4	15.7
Bryan-College Station	2.1	1.9	1.8	7.4	8.0	8.3	19.0	19.8	19.9
Corpus Christi	6.9	7.0	6.9	27.5	27.4	28.2	27.2	27.2	27.5
Dallas	128.3	133.0	132.8	278.9	290.6	310.2	134.4	141.4	148.1
El Paso	9.2	9.3	9.6	32.4	34.0	34.6	36.8	38.6	38.7
Ft. Worth-Arlington	27.8	28.5	28.0	102.1	108.2	111.7	60.4	62.9	65.7
Galveston-Texas City	4.6	4.4	4.2	12.8	12.8	13.7	20.7	20.5	20.6
Houston	106.9	105.3	101.1	342.3	340.9	355.0	180.5	186.8	185.4
Killeen-Temple	3.0	3.1	3.0	12.5	13.8	15.0	19.0	19.8	21.0
Laredo	1.6	1.6	1.6	5.6	5.7	5.8	7.8	8.1	8.2
Longview-Marshall	3.4	3.3	2.9	11.5	11.2	11.4	8.2	8.2	8.3
Lubbock	5.6	5.5	5.5	19.6	20.3	21.4	21.0	21.0	21.4
McAllen-Edinburg-Mission	3.9	4.0	3.7	12.8	13.7	14.3	21.1	22.6	24.1
Midland	3.2	2.8	2.5	9.2	8.9	8.5	5.8	6.1	6.3
Odessa	2.0	1.7	1.6	8.1	7.3	6.9	7.2	7.4	7.4
San Angelo	1.8	1.8	1.8	7.5	7.6	7.7	6.6	6.5	6.5
San Antonio	36.2	38.5	39.7	110.1	114.4	119.9	102.7	108.9	114.1
Sherman-Denison	1.4	1.6	1.7	7.2	7.4	8.2	4.9	5.1	4.5
Texarkana	1.8	1.9	1.9	8.5	8.9	9.3	12.4	12.1	12.4
Tyler	3.9	3.8	3.6	12.7	13.3	14.2	8.3	8.8	8.9
Victoria	1.7	1.6	1.5	5.7	5.8	5.7	4.2	4.3	4.5
Waco	4.7	4.7	4.8	18.2	19.2	19.6	11.8	12.0	12.2
Wichita Falls	2.4	2.4	2.3	10.2	11.0	11.5	10.0	9.5	9.5
Utah									
Provo-Orem	31.1	32.9	33.9	131.3	138.0	147.4	137.8	141.2	141.2
Salt Lake City-Ogden	2.1	2.3	2.3	23.2	25.0	26.8	13.1	13.4	13.4
Salt Lake City-Ogden	25.6	27.1	27.8	90.7	94.6	100.7	90.6	93.8	92.7
Vermont									
Barre-Montpelier	10.1	11.0	12.0	53.7	57.3	60.3	37.4	38.2	39.2
Burlington	(¹)	2.8	3.0	(¹)	6.7	7.4	(¹)	7.9	8.2
Burlington	3.0	3.2	3.6	15.6	16.9	18.0	10.7	10.8	11.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued

(In thousands)

State and area	Total			Mining			Construction		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Virginia	2,454.7	2,557.7	2,678.1	17.3	16.5	15.6	152.0	169.5	182.0
Bristol	28.8	30.1	31.1	.1	.1	.1	1.2	.9	.9
Charlottesville	60.7	62.3	65.1	.1	.1	.1	3.4	3.3	3.6
Danville	38.9	38.9	40.1	.1	.1	.1	1.4	1.4	1.7
Lynchburg	69.7	70.4	71.8	.1	.1	.1	2.7	3.1	3.4
Norfolk-Virginia Beach-Newport News	510.8	531.5	551.5	.1	.1	.1	33.8	37.7	39.5
Northern Virginia	614.2	658.8	707.3	.6	.5	.5	42.5	48.0	52.4
Richmond-Petersburg	402.8	416.9	436.5	.3	.4	.5	23.4	25.9	28.7
Roanoke	113.5	117.4	120.1	.1	.1	.2	6.5	6.9	7.5
Washington	1,710.4	1,769.9	1,839.3	2.7	2.9	3.0	80.6	84.5	87.3
Seattle	849.0	890.2	930.5	.5	.6	.6	41.6	45.4	46.7
West Virginia	597.2	597.5	597.8	44.8	40.5	36.2	22.8	22.8	23.2
Charleston	107.2	107.6	106.1	2.5	2.5	2.2	4.3	4.3	4.1
Huntington-Ashland	100.5	100.5	102.3	1.1	1.1	1.3	4.0	3.7	4.2
Parkersburg-Marietta	58.1	58.4	59.2	1.1	.8	.6	2.7	2.7	2.7
Wheeling	57.5	57.0	57.9	2.6	2.4	2.2	1.9	1.8	1.9
Wisconsin	1,983.1	2,023.9	2,079.7	1.9	1.9	2.0	64.6	68.0	67.4
Appleton-Oshkosh-Neenah	135.7	139.9	143.6	(¹)	(¹)	(¹)	5.7	5.9	6.1
Eau Claire	50.8	53.0	54.4	(¹)	(¹)	(¹)	1.6	1.8	1.4
Green Bay	88.4	91.6	94.1	(¹)	(¹)	(¹)	3.7	3.9	3.2
Janesville-Beloit	52.9	53.3	54.2	(¹)	(¹)	(¹)	1.5	1.4	1.3
Kenosha	38.8	36.9	40.7	(¹)	(¹)	(¹)	1.3	1.2	1.2
La Crosse	48.0	49.4	51.2	(¹)	(¹)	(¹)	1.5	1.5	1.4
Madison	187.3	191.9	198.2	(¹)	(¹)	(¹)	6.2	6.7	7.1
Milwaukee	665.0	678.1	696.2	(¹)	(¹)	(¹)	19.6	21.3	21.5
Racine	66.8	68.0	69.6	(¹)	(¹)	(¹)	1.7	2.0	1.8
Sheboygan	44.1	45.1	46.7	(¹)	(¹)	(¹)	1.4	1.5	1.4
Wausau	42.9	44.2	45.4	(¹)	(¹)	(¹)	1.3	1.5	1.4
Wyoming	206.9	196.3	179.6	25.1	19.4	17.4	18.2	16.2	10.1
Puerto Rico	692.5	728.0	757.0	.7	.7	.8	26.3	28.6	34.1
Caguas	42.9	45.9	49.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	50.1	53.1	54.8	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	43.1	46.6	49.5	.1	.1	.1	1.7	2.3	2.9
San Juan	429.8	446.6	467.3	.4	.4	.4	20.8	21.7	25.5
Virgin Islands	36.9	37.7	39.2	(¹)	(¹)	(¹)	1.9	2.4	1.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Virginia	423.4	424.7	429.1	132.0	137.1	142.2	547.0	579.0	610.4
Bristol	9.3	9.7	10.3	1.1	1.1	1.1	7.5	7.8	7.8
Charlottesville	9.3	8.6	8.7	2.1	2.1	2.2	11.4	12.2	13.2
Danville	16.9	16.5	16.9	.9	1.0	1.0	8.2	8.1	8.4
Lynchburg	25.0	24.0	23.8	2.9	2.9	2.9	13.3	13.5	14.5
Norfolk-Virginia Beach-Newport News	68.1	68.8	67.6	25.2	25.8	26.0	124.3	130.0	135.3
Northern Virginia	31.8	34.6	35.3	42.4	45.7	49.5	141.7	153.5	159.9
Richmond-Petersburg	64.0	62.4	62.4	21.8	22.0	22.9	96.9	101.4	104.9
Roanoke	20.9	20.6	19.8	9.2	9.1	8.9	29.4	31.4	32.9
Washington	295.6	305.0	316.8	93.6	96.2	98.4	420.6	436.5	453.1
Seattle	163.2	172.0	182.8	55.5	57.9	58.8	211.2	219.8	227.8
West Virginia	89.5	86.8	85.8	38.2	36.9	36.4	134.5	136.7	139.3
Charleston	13.4	12.5	11.2	8.7	8.4	8.4	27.7	28.1	28.0
Huntington-Ashland	20.0	19.4	19.1	8.1	7.6	7.8	25.8	25.9	26.4
Parkersburg-Marietta	14.7	14.2	13.8	2.0	2.1	2.1	13.9	14.1	14.5
Wheeling	7.9	7.0	6.9	3.1	3.1	3.2	14.8	15.2	15.8
Wisconsin	513.9	514.5	526.4	94.2	93.7	94.1	465.1	477.2	495.2
Appleton-Oshkosh-Neenah	48.2	49.1	50.2	5.2	5.2	5.2	29.1	29.9	31.1
Eau Claire	9.4	10.1	10.1	2.6	2.9	3.5	14.5	14.7	15.8
Green Bay	23.7	24.6	24.7	6.3	6.4	6.3	22.9	23.9	25.1
Janesville-Beloit	18.3	17.2	17.4	2.1	2.1	2.3	12.7	13.3	13.4
Kenosha	12.9	10.7	13.3	1.4	1.4	1.4	8.2	8.4	8.9
La Crosse	10.4	10.5	10.9	2.5	2.4	2.5	12.8	13.4	14.0
Madison	20.9	21.3	22.5	6.5	6.5	7.0	40.5	42.2	44.6
Milwaukee	171.6	168.5	169.2	35.5	34.9	34.8	151.0	153.1	160.5
Racine	24.7	24.7	24.3	2.2	2.3	2.3	15.0	15.6	16.5
Sheboygan	18.7	19.1	19.4	1.4	1.4	1.4	8.2	8.6	9.0
Wausau	11.3	12.0	12.6	2.6	2.6	2.7	10.6	10.9	11.2
Wyoming	8.0	7.9	8.0	15.0	14.0	12.8	46.9	44.4	40.2
Puerto Rico	147.5	148.8	150.6	15.7	16.3	16.3	120.8	128.7	135.2
Caguas	14.7	14.6	15.4	(¹)	(¹)	(¹)	8.1	8.5	9.2
Mayaguez	19.7	20.2	19.7	(¹)	(¹)	(¹)	6.6	7.2	7.7
Ponce	8.5	9.2	9.5	(¹)	(¹)	(¹)	7.1	7.5	7.8
San Juan	66.0	64.8	64.8	12.3	12.6	13.3	82.7	88.2	93.9
Virgin Islands	2.2	1.8	2.1	2.3	2.5	2.6	8.0	8.6	9.2

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
ANNUAL AVERAGES**

1. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Virginia	122.8	131.8	143.9	544.7	579.3	626.4	515.6	519.9	528.4
Bristol	1.0	1.0	1.2	3.8	4.5	4.7	4.9	5.1	5.0
Charlottesville	3.0	3.1	3.5	10.2	10.9	11.7	21.3	22.0	22.1
Danville	1.1	1.2	1.2	5.3	5.8	5.8	5.0	4.9	5.0
Lynchburg	3.4	3.3	3.8	13.1	13.9	14.1	9.3	9.5	9.4
Norfolk-Virginia Beach-Newport News	22.8	24.4	26.8	114.1	120.0	129.7	122.3	124.8	126.5
Northern Virginia	36.5	40.5	46.1	184.1	200.0	222.5	134.6	136.1	141.1
Richmond-Petersburg	31.6	33.7	35.9	78.3	84.1	91.8	86.5	87.1	89.4
Roanoke	7.0	7.6	8.1	25.4	26.5	27.5	15.0	15.2	15.2
Washington	99.6	104.9	107.0	375.1	391.0	418.3	342.8	348.9	355.6
Seattle	62.8	66.5	67.8	189.8	200.6	216.9	124.5	127.4	129.1
West Virginia	23.6	23.7	24.1	116.4	121.3	124.6	127.5	128.9	128.1
Charleston	5.8	5.9	6.0	23.4	24.6	25.3	21.3	21.3	21.0
Huntington-Ashland	4.0	4.1	3.9	18.4	19.7	20.1	19.2	19.0	19.5
Parkersburg-Marietta	2.1	2.2	2.3	12.1	12.8	13.5	9.4	9.5	9.7
Wheeling	2.8	2.6	2.7	15.2	15.6	15.8	9.2	9.4	9.4
Wisconsin	103.8	108.1	112.3	419.0	434.9	454.9	320.6	325.6	327.3
Appleton-Oshkosh-Neenah	6.8	6.9	7.1	24.1	26.1	27.3	16.4	16.6	16.3
Eau Claire	1.9	1.8	1.9	10.5	11.2	11.8	10.2	10.4	9.9
Green Bay	3.0	3.2	3.4	18.5	19.0	20.6	10.3	10.5	10.7
Janesville-Beloit	1.6	1.6	1.6	10.2	10.9	11.6	6.4	6.6	6.5
Kenosha	1.0	1.1	1.3	8.1	8.1	8.3	5.9	6.2	6.4
La Crosse	1.4	1.5	1.4	12.2	12.8	13.7	7.2	7.2	7.2
Madison	15.3	16.9	17.6	39.5	40.4	42.5	58.2	57.8	56.7
Milwaukee	44.9	46.7	48.7	162.7	172.2	180.2	79.4	81.2	81.1
Racine	2.1	2.2	2.3	13.1	13.5	14.1	8.0	8.1	8.2
Sheboygan	1.9	2.1	2.2	7.0	7.2	7.7	5.4	5.3	5.5
Wausau	3.5	3.3	3.4	7.6	7.7	8.0	6.0	6.1	6.1
Wyoming	8.1	8.0	7.5	33.4	33.2	32.4	52.2	53.1	51.1
Puerto Rico	31.1	33.4	34.9	95.1	103.7	109.6	255.4	267.7	275.5
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	14.8	15.3	15.6
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	16.0	17.6	18.5
Ponce	(¹)	(¹)	(¹)	7.5	8.8	9.4	15.1	15.8	16.9
San Juan	25.1	27.1	28.5	70.0	74.4	78.4	152.6	157.4	162.6
Virgin Islands	1.6	1.6	1.7	7.4	7.7	9.1	13.5	13.1	12.8

¹ Not available.

² Combined with construction.

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
STATE AND AREA HOURS AND EARNINGS
ANNUAL AVERAGES**

2. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Alabama	40.8	41.1	41.4	\$8.48	\$8.64	\$8.76	\$345.98	\$355.10	\$362.66
Birmingham	40.4	41.2	41.1	8.79	8.74	8.99	355.12	360.09	369.49
Mobile	42.7	41.2	41.5	10.01	10.15	10.18	427.43	418.18	422.47
Alaska	40.7	41.1	42.7	12.19	11.62	11.79	496.13	477.58	503.43
Arizona	40.9	41.0	40.6	9.48	9.88	9.94	387.73	405.08	403.56
Arkansas	40.2	40.4	41.0	7.57	7.76	7.88	304.31	313.50	323.08
Fayetteville-Springdale	39.6	40.5	41.0	6.65	6.91	7.10	263.34	279.86	291.10
Fort Smith	39.8	40.3	40.7	8.00	8.13	8.47	318.40	327.64	344.73
Little Rock-North Little Rock	41.0	40.7	41.4	8.16	8.35	8.55	334.56	339.85	353.97
Pine Bluff	41.8	43.0	43.1	9.49	10.20	10.69	396.68	438.60	460.74
California	40.2	40.3	(¹)	10.12	10.37	(¹)	406.82	417.91	(¹)
Colorado	40.2	39.9	40.1	9.52	9.82	10.11	382.70	391.82	405.41
Denver	40.4	40.2	39.5	10.18	10.78	10.55	411.27	433.36	416.73
Connecticut	41.9	41.8	42.1	9.57	10.07	10.46	400.98	420.93	440.37
Bridgeport-Milford	41.2	41.0	41.8	10.05	10.34	10.86	414.06	423.94	453.95
Hartford	42.1	41.9	42.1	9.96	10.31	10.68	419.32	431.99	449.63
New Britain	42.0	41.9	43.3	9.78	10.48	10.75	410.76	439.11	465.48
New Haven-Meriden	41.1	41.1	40.7	9.10	9.63	10.08	374.01	395.79	410.26
Stamford	42.2	40.4	40.9	9.57	10.74	11.32	403.85	433.90	462.99
Waterbury	42.7	42.6	42.7	8.07	8.51	8.99	344.59	362.53	383.87
Delaware	41.1	41.3	40.7	9.86	10.05	10.69	405.25	415.07	435.08
Wilmington	41.2	38.2	41.5	11.52	11.55	12.68	474.62	441.21	526.22
District of Columbia:									
Washington MSA	38.2	38.5	39.1	10.48	10.40	10.74	400.34	400.40	419.93
Florida	41.3	40.8	40.8	7.86	8.02	8.16	324.62	327.22	332.93
Fort Lauderdale-Hollywood-Pompano Beach	41.3	41.4	42.3	7.71	7.83	8.03	318.42	324.16	339.67
Jacksonville	41.4	41.5	41.2	8.16	8.59	8.80	337.82	356.49	362.56
Lakeland-Winter Haven	41.1	39.5	41.0	7.77	7.67	8.07	319.35	302.97	330.87
Miami-Hialeah	38.8	39.2	38.9	6.73	7.02	7.06	261.12	275.18	274.63
Orlando	41.4	41.6	40.7	8.35	8.36	8.58	345.69	347.78	349.21
Pensacola	40.5	42.6	42.4	9.54	9.89	10.60	386.37	421.31	449.44
Tampa-St. Petersburg-Clearwater	40.9	40.2	40.1	7.51	7.52	7.60	307.16	302.30	304.76
West Palm Beach-Boca Raton-Delray Beach	42.7	41.1	41.6	7.90	8.62	9.13	337.33	354.28	379.81
Georgia	40.6	40.9	41.7	8.10	8.35	8.51	328.86	341.52	354.67
Atlanta	40.8	40.7	41.6	9.50	10.12	10.05	387.80	411.88	418.08
Savannah	44.3	44.4	45.6	10.15	10.55	10.91	449.65	468.42	497.50
Hawaii	37.4	38.9	39.4	8.65	8.86	9.30	323.51	344.65	366.42
Honolulu	37.8	38.9	39.2	8.75	9.00	9.49	330.75	350.10	372.01
Idaho	37.8	38.2	38.2	9.41	9.66	9.70	355.70	369.01	370.54
Illinois	40.6	40.9	41.6	10.37	10.67	10.85	421.02	436.40	451.36
Aurora-Elgin	39.6	40.4	42.1	9.97	9.97	10.49	394.81	402.79	441.63
Bloomington-Normal	39.5	40.7	40.6	10.66	10.81	10.79	421.07	439.97	438.07
Champaign-Urbana-Rantoul	39.7	40.2	40.5	9.22	9.19	9.32	366.03	369.44	377.46
Chicago	41.4	41.8	42.0	10.17	10.46	10.60	421.04	437.23	445.20
Davenport-Rock Island-Moline	40.1	40.5	40.4	12.26	12.48	12.76	491.63	505.44	515.50
Decatur	40.8	40.8	41.6	13.40	13.62	14.02	546.72	555.70	583.23
Joliet	40.5	41.4	41.3	11.45	11.58	11.72	463.73	479.41	484.04
Kankakee	38.7	39.9	39.5	9.89	10.12	9.92	382.74	403.79	391.84
Lake County	40.3	40.9	40.0	10.21	10.50	10.97	411.46	429.45	438.80
Peoria	41.5	42.4	43.7	12.45	12.88	13.10	516.68	546.11	572.47
Rockford	41.5	42.7	41.8	10.70	11.12	11.18	444.05	474.82	467.32
Springfield	41.9	41.9	42.2	11.58	11.65	11.72	485.20	488.14	494.58

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
ANNUAL AVERAGES**

2. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Indiana	40.9	41.5	41.9	\$10.71	\$10.81	\$11.06	\$438.04	\$448.62	\$463.41
Iowa	40.2	40.6	41.3	10.32	10.35	10.61	414.86	420.21	438.19
Cedar Rapids	40.5	40.3	40.2	11.25	11.36	11.85	455.63	457.81	476.37
Des Moines	40.0	40.1	42.0	11.72	11.42	11.77	468.80	457.94	494.34
Dubuque	40.0	39.7	42.4	11.76	11.23	12.23	470.40	445.83	518.55
Sioux City	39.2	40.4	39.4	8.24	8.50	8.46	323.01	343.40	331.75
Kansas	39.5	40.3	40.8	9.45	9.76	9.97	373.28	393.33	406.78
Topeka	40.8	40.6	42.2	10.57	11.05	11.34	431.26	448.63	478.55
Wichita	38.8	38.9	39.9	10.26	10.21	10.81	398.09	397.17	431.32
Kentucky	38.9	39.2	40.5	9.53	9.86	10.04	370.72	386.51	406.62
Lexington-Fayette	39.0	37.4	39.7	10.11	10.30	10.41	394.29	385.22	413.28
Louisville	40.5	40.9	41.8	10.66	10.90	11.45	431.73	445.81	478.61
Louisiana	41.7	41.8	41.8	10.43	10.60	10.90	434.93	443.08	455.62
Baton Rouge	43.6	42.2	43.1	12.48	12.36	12.18	544.13	521.59	524.96
New Orleans	41.0	40.5	40.2	10.52	10.67	10.64	431.32	432.14	427.73
Shreveport	40.0	40.9	40.4	10.57	11.22	11.67	422.80	458.90	471.47
Maine	40.0	40.6	41.5	8.40	8.65	8.77	336.00	351.19	363.96
Lewiston-Auburn	38.7	38.6	40.2	6.78	7.19	7.40	262.39	277.53	297.48
Portland	38.3	38.9	40.6	8.90	9.17	9.13	340.87	356.71	370.68
Maryland	40.3	40.5	40.8	9.73	9.91	10.08	392.12	401.36	411.26
Baltimore MSA	41.1	41.5	41.9	10.24	10.39	10.90	420.86	431.19	456.71
Massachusetts	40.7	41.3	41.0	9.00	9.24	9.77	366.30	381.61	400.57
Boston	40.4	40.5	40.6	9.64	10.12	10.66	389.46	409.86	432.80
Springfield	41.8	42.4	42.3	8.89	8.98	9.21	371.60	380.75	389.58
Worcester	41.0	40.4	40.7	9.03	9.42	9.86	370.23	380.57	401.30
Michigan	43.1	42.6	42.2	12.64	12.80	12.97	544.78	545.28	547.33
Ann Arbor	44.7	44.0	44.8	13.35	13.83	14.02	596.74	608.52	628.10
Battle Creek	41.8	41.8	43.2	13.15	13.45	13.70	549.67	562.21	591.84
Detroit	43.9	43.6	43.4	13.40	13.74	13.87	588.26	599.06	601.96
Flint	45.6	43.7	41.8	14.62	14.57	15.26	666.67	636.71	637.87
Grand Rapids	41.0	40.7	40.1	10.61	10.70	11.06	435.01	435.49	443.51
Jackson	41.7	41.5	41.6	9.99	10.19	9.95	416.58	422.88	413.92
Kalamazoo	43.1	43.1	43.0	11.85	11.91	12.10	510.73	513.32	520.30
Lansing-East Lansing	42.9	42.5	41.8	14.47	14.25	13.86	620.76	605.63	579.35
Muskegon	40.4	40.4	40.9	11.23	11.51	11.85	453.69	465.00	484.66
Saginaw-Bay City-Midland	43.9	43.6	42.7	14.08	14.03	14.48	618.11	611.71	618.30
Minnesota	40.3	40.6	40.9	10.05	10.20	10.37	405.02	414.12	424.13
Duluth	38.2	37.4	38.1	10.70	10.77	10.83	408.74	402.80	412.62
Minneapolis-St. Paul	40.8	40.9	40.8	10.79	10.99	11.15	440.23	449.49	454.92
St. Cloud	40.8	39.4	39.0	9.54	9.40	9.43	389.23	370.36	367.77
Mississippi	40.6	40.2	40.3	7.22	7.46	7.59	293.13	299.89	305.88
Jackson	41.1	40.2	40.2	8.17	8.30	8.55	335.79	333.66	343.71
Missouri	40.2	40.5	40.6	9.57	9.83	9.99	384.71	398.12	405.59
Kansas City	41.2	40.6	40.4	11.13	11.15	11.16	458.56	452.69	450.86
St. Joseph	40.0	39.9	40.6	8.85	9.32	9.94	354.00	371.87	403.56
St. Louis	40.2	40.8	41.3	11.11	11.32	11.63	446.62	461.86	480.32
Springfield	40.0	40.9	39.8	8.82	8.84	8.58	352.80	361.56	341.48
Montana	39.1	39.4	38.6	10.95	10.94	10.61	428.15	431.04	409.55
Nebraska	40.3	40.4	40.5	9.02	9.26	9.34	363.51	374.10	378.27
Lincoln	39.1	40.3	40.7	9.61	9.72	9.90	375.75	391.72	402.93
Omaha	40.4	40.4	40.5	9.64	9.82	10.00	389.46	396.73	405.00
Nevada	40.4	40.2	40.3	9.15	9.36	9.76	369.66	376.27	393.33
Las Vegas	39.9	39.4	40.2	11.07	11.32	12.16	441.69	446.01	488.83

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
ANNUAL AVERAGES**

2. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
New Hampshire	40.7	41.2	41.0	\$8.39	\$8.77	\$9.30	\$341.47	\$361.32	\$381.30
Nashua	40.9	41.4	41.4	9.89	10.52	11.26	404.50	435.53	466.16
New Jersey	40.8	41.2	41.2	9.86	10.12	10.42	402.29	416.94	429.30
New Mexico	39.8	39.5	39.7	8.41	8.75	8.74	334.72	345.63	346.98
Albuquerque	39.8	39.7	40.0	8.37	8.84	9.05	333.13	350.95	362.00
New York	39.8	39.9	39.9	9.67	9.92	10.09	384.87	395.81	402.59
Albany-Schenectady-Troy	40.1	40.6	39.9	9.66	10.23	10.56	387.37	415.34	421.34
Binghamton	40.1	40.3	40.4	8.56	8.97	9.22	343.26	361.49	372.49
Buffalo	42.1	42.4	41.7	12.10	12.03	11.98	509.41	510.07	499.57
Elmira	40.2	41.1	41.2	9.08	9.43	9.54	365.02	387.57	393.05
Glens Falls	40.2	40.9	(¹)	9.55	9.61	(¹)	383.91	393.05	(¹)
Nassau-Suffolk	40.4	40.4	40.2	9.46	10.04	10.69	382.18	405.62	429.74
New York PMSA	37.4	37.4	37.4	8.83	9.17	9.51	330.24	342.96	355.67
New York City	37.0	37.0	37.1	8.67	9.01	9.36	320.79	333.37	347.26
Niagara Falls	42.4	41.7	41.2	12.57	12.67	12.88	532.97	528.34	530.66
Orange County	38.1	38.9	38.6	7.24	7.90	7.97	275.84	307.31	307.64
Poughkeepsie	42.3	42.4	41.8	8.67	9.03	9.40	366.74	382.87	392.92
Rochester	42.2	41.6	41.8	11.74	11.98	11.97	495.43	498.37	500.35
Rockland County	41.7	40.9	39.5	9.32	9.59	10.31	388.64	392.23	407.25
Syracuse	40.9	41.0	41.3	10.90	11.20	11.22	445.81	459.20	463.39
Utica-Rome	41.3	41.5	41.8	8.65	9.31	9.56	357.25	386.37	399.61
Westchester County	39.5	39.1	39.6	10.02	10.28	10.40	395.79	401.95	411.84
North Carolina	39.6	40.7	41.2	7.29	7.54	7.83	288.68	306.88	322.60
Asheville	41.1	41.4	42.0	7.35	7.61	7.90	302.09	315.05	331.80
Charlotte-Gastonia-Rock Hill	39.7	41.5	42.1	7.41	7.74	8.07	294.18	321.21	339.75
Greensboro-Winston-Salem-High Point	39.2	40.2	40.7	7.99	8.32	8.65	313.21	334.46	352.06
Raleigh-Durham	41.2	41.5	41.9	8.28	8.58	8.92	341.14	356.07	373.75
North Dakota	38.6	38.2	38.6	8.05	8.19	8.43	310.73	312.86	325.40
Fargo-Moorhead	38.0	37.5	37.6	8.33	8.47	8.52	316.54	317.63	320.35
Ohio	42.0	42.1	42.6	11.38	11.56	11.73	477.96	486.68	499.70
Akron	43.2	43.2	43.1	11.00	11.22	11.30	475.20	484.70	487.03
Canton	39.8	40.3	41.9	10.95	11.21	11.34	435.81	451.76	475.15
Cincinnati	41.4	42.1	42.7	10.67	10.76	10.95	441.74	453.00	467.57
Cleveland	41.8	42.1	42.9	11.19	11.44	11.57	467.74	481.62	496.35
Columbus	40.9	41.1	41.5	10.83	11.22	11.41	442.95	461.14	473.52
Dayton-Springfield	43.2	42.8	42.0	11.97	12.03	11.89	517.10	514.88	499.38
Toledo	42.6	42.4	42.5	12.29	12.43	12.72	523.55	527.03	540.60
Youngstown-Warren	43.1	41.6	42.7	13.24	13.30	13.30	570.64	553.28	567.91
Oklahoma	41.3	41.3	41.2	9.86	9.80	10.14	407.22	404.74	417.77
Oklahoma City	41.5	40.3	40.5	10.68	10.86	11.18	443.22	437.66	452.79
Tulsa	39.8	39.8	41.3	10.42	10.49	10.66	414.72	417.50	440.26
Oregon	38.7	39.0	39.2	10.50	10.57	10.55	406.35	412.23	413.56
Eugene-Springfield	39.4	39.6	39.5	10.77	10.80	10.66	424.34	427.68	421.07
Portland	38.6	39.3	39.4	10.45	10.85	10.80	403.37	426.41	425.52
Salem	36.8	37.2	38.0	8.83	9.02	8.95	324.94	335.54	340.10

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
ANNUAL AVERAGES**

2. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Pennsylvania	39.9	40.2	40.9	\$9.57	\$9.74	\$9.98	\$381.84	\$391.55	\$408.18
Allentown-Bethlehem	39.2	38.8	39.8	10.28	10.21	10.46	402.98	396.15	416.31
Altoona	39.2	38.8	39.4	8.31	8.56	8.63	325.75	332.13	340.02
Beaver County	39.8	41.0	41.6	11.54	11.68	11.06	459.29	478.88	460.10
Erie	42.0	41.9	41.9	10.09	10.21	10.27	423.78	427.80	430.31
Harrisburg-Lebanon-Carlisle	39.5	39.8	39.9	9.07	9.25	9.36	358.27	368.15	373.46
Johnstown	37.3	37.8	39.1	8.34	8.30	8.40	311.08	313.74	328.44
Lancaster	39.9	40.2	40.3	9.24	9.45	9.70	368.68	379.89	390.91
Philadelphia PMSA	40.1	40.3	40.7	10.02	10.43	10.85	401.80	420.33	441.60
Pittsburgh	40.7	41.2	41.9	11.02	11.07	11.20	448.51	456.08	469.28
Reading	40.2	40.5	41.2	9.80	9.91	10.18	393.96	401.36	419.42
Scranton-Wilkes-Barre	38.2	38.5	38.9	8.17	8.55	8.75	312.09	329.18	340.38
Sharon	(¹)	40.4	41.8	(¹)	11.38	11.29	(¹)	459.75	471.92
State College	(¹)	39.1	39.2	(¹)	8.03	8.22	(¹)	313.97	322.22
Williamsport	39.6	40.0	41.4	8.52	8.62	8.51	337.39	344.80	352.31
York	40.9	41.5	42.6	8.91	9.17	9.44	364.42	380.56	402.14
Rhode Island	40.2	40.4	40.0	7.59	7.90	8.19	305.11	319.16	327.60
Pawtucket-Woonsocket-Attleboro	40.3	40.4	40.5	7.20	7.41	7.71	290.16	299.36	312.26
Providence	40.2	39.9	39.8	7.46	7.91	8.21	299.89	315.61	326.76
South Carolina	40.4	41.1	41.7	7.61	7.92	8.10	307.44	325.51	337.77
Charleston	44.5	41.9	42.0	9.31	9.17	9.11	414.30	384.22	382.62
Columbia	40.4	40.2	41.1	7.56	7.72	7.92	305.42	310.34	325.51
Greenville-Spartanburg	40.8	41.3	41.7	7.41	7.76	8.00	302.33	320.49	333.60
South Dakota	41.8	42.1	41.8	7.43	7.75	7.94	310.57	326.28	331.89
Sioux Falls	45.4	45.8	43.3	7.33	7.91	7.93	332.78	362.28	343.37
Tennessee	41.0	41.2	41.6	8.29	8.58	8.78	339.72	353.50	365.25
Chattanooga	41.5	42.0	42.4	7.42	7.62	7.90	307.93	320.04	334.96
Johnson City-Kingsport-Bristol	42.5	43.7	43.8	8.82	9.07	9.21	374.85	396.36	403.40
Knoxville	40.6	39.4	40.7	8.89	8.95	9.08	360.93	352.63	369.56
Memphis	41.8	43.0	42.9	8.64	8.78	8.84	361.15	377.54	379.24
Nashville	40.5	39.6	42.4	9.30	9.56	10.23	376.65	378.58	433.75
Texas	41.2	41.4	41.6	9.41	9.65	9.85	387.69	399.51	409.76
Dallas	41.6	41.9	41.5	9.13	9.45	9.76	379.81	395.96	405.04
Ft. Worth-Arlington	41.3	41.8	41.1	9.39	9.69	9.89	387.81	405.04	406.48
Houston	42.6	42.3	43.6	11.08	11.15	11.25	472.01	471.65	490.50
San Antonio	40.1	41.0	40.2	7.16	7.36	7.62	287.12	301.76	306.32
Utah	40.1	40.0	39.5	9.64	9.98	9.95	386.56	399.20	393.03
Salt Lake City-Ogden	40.3	40.4	40.3	9.23	9.75	9.92	371.97	393.90	399.78
Vermont	40.7	40.7	40.6	8.41	8.83	9.12	342.29	359.38	370.27
Burlington	42.5	42.8	41.0	9.21	9.65	9.98	391.43	413.02	409.18
Virginia	40.1	40.4	41.1	8.51	8.83	9.15	341.25	356.73	376.07
Bristol	38.9	40.5	41.9	7.27	7.49	7.80	282.80	303.35	326.82
Charlottesville	39.5	40.6	41.2	7.13	7.42	7.43	281.64	301.25	306.12
Danville	40.0	40.6	42.6	7.93	8.24	8.27	317.20	334.54	352.30
Lynchburg	39.5	40.9	41.8	8.16	8.43	8.62	322.32	344.79	360.32
Northern Virginia	40.0	40.9	39.4	8.80	9.33	9.85	352.00	381.60	388.09
Richmond-Petersburg	40.5	40.5	41.4	10.82	11.16	11.77	430.11	451.98	487.28
Roanoke	41.0	40.7	41.5	7.64	8.24	8.86	313.24	335.37	367.69

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
ANNUAL AVERAGES**

2. 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		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Washington	39.0	39.4	40.0	\$11.63	\$11.65	\$11.70	\$453.57	\$459.01	\$468.00
West Virginia	39.9	40.3	40.6	10.24	10.38	10.56	408.58	418.31	428.74
Charleston	42.1	42.2	42.4	12.65	12.78	13.21	532.57	539.32	560.10
Huntington-Ashland	38.8	39.3	39.7	11.39	11.72	12.06	441.93	460.60	478.78
Parkersburg-Marietta	41.8	42.2	41.8	11.63	12.22	12.09	486.13	515.68	505.36
Wheeling	40.5	40.5	41.2	11.60	11.62	11.97	469.80	470.61	493.16
Wisconsin	41.1	41.3	41.4	10.26	10.35	10.55	421.69	427.46	436.77
Appleton-Oshkosh	42.9	42.6	42.7	10.08	10.32	10.83	432.43	439.63	462.44
Eau Claire	41.4	40.5	40.9	10.32	10.42	10.76	427.25	422.01	440.08
Green Bay	41.8	42.1	41.6	11.05	11.22	11.30	461.89	472.36	470.08
Janesville-Beloit	41.0	39.8	38.4	12.13	11.98	12.18	497.33	476.80	467.71
Kenosha	38.9	40.0	40.6	12.18	11.16	12.32	473.80	446.40	500.19
La Crosse	38.8	39.3	39.9	9.04	9.26	9.14	350.75	363.92	364.69
Madison	41.0	40.9	40.7	9.51	9.76	9.86	389.91	399.18	401.30
Milwaukee	41.0	41.2	41.5	11.55	11.65	11.72	473.55	479.98	486.38
Racine	39.4	40.3	40.9	10.58	10.86	11.06	416.85	437.66	452.35
Sheboygan	39.6	40.7	41.7	9.58	9.51	9.59	379.37	387.06	399.90
Wausau	41.9	41.8	42.7	9.60	9.79	9.94	402.24	409.22	424.44
Wyoming	40.9	39.0	38.9	9.64	9.68	9.78	394.28	377.52	380.44
Puerto Rico	38.5	39.0	38.8	5.19	5.31	5.44	199.82	207.09	211.07
Virgin Islands	41.7	41.9	42.2	9.44	9.60	9.39	393.65	402.24	396.26

¹ Not available.

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1986

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

**STATE AND AREA LABOR FORCE DATA
ANNUAL AVERAGES**

3. Labor force status by State and selected metropolitan areas

(Numbers in thousands)

State and area	Civilian labor force		Unemployed			
			Number		Percent of labor force	
	1986	1987	1986	1987	1986	1987
Alabama	1,881.0	1,893.0	185.0	147.0	9.8	7.8
Birmingham	442.8	447.0	36.7	30.0	8.3	6.7
Huntsville	126.7	130.4	9.1	6.8	7.2	5.2
Mobile	211.5	212.2	22.7	19.8	10.7	9.3
Montgomery	134.7	137.3	10.1	8.8	7.5	6.4
Tuscaloosa	68.6	69.6	5.3	4.2	7.8	6.1
Alaska	257.0	249.0	28.0	27.0	10.8	10.8
Arizona	1,572.0	1,614.0	109.0	101.0	6.9	6.2
Phoenix	973.2	1,001.1	54.3	52.1	5.6	5.2
Tucson	303.0	306.6	17.3	15.5	5.7	5.1
Arkansas	1,073.0	1,090.0	94.0	88.0	8.7	8.1
Fayetteville-Springdale	54.9	57.6	2.6	2.4	4.8	4.1
Fort Smith	87.6	91.1	6.4	5.5	7.3	6.1
Little Rock-North Little Rock	252.8	257.4	17.4	18.3	6.9	7.1
Pine Bluff	37.6	36.8	3.1	3.3	8.3	9.1
California	13,334.0	13,747.0	890.0	792.0	6.7	5.8
Anaheim-Santa Ana	1,243.8	1,294.0	49.5	42.1	4.0	3.3
Bakersfield	233.0	227.2	26.8	23.8	11.5	10.5
Fresno	290.9	295.8	36.1	31.7	12.4	10.7
Los Angeles-Long Beach	4,100.0	4,224.0	274.0	248.0	6.7	5.9
Modesto	144.0	150.8	20.2	18.2	14.0	12.1
Oakland	1,008.2	1,030.3	59.2	51.9	5.9	5.0
Oxnard-Ventura	321.0	336.0	22.2	18.6	6.9	5.5
Riverside-San Bernardino	848.1	905.2	54.1	51.1	6.4	5.6
Sacramento	643.9	675.4	39.9	37.5	6.2	5.5
Salinas-Seaside-Monterey	150.0	154.2	15.6	13.4	10.4	8.7
San Diego	1,010.8	1,058.8	50.4	47.6	5.0	4.5
San Francisco	864.5	868.8	39.3	33.1	4.5	3.8
San Jose	797.1	805.6	46.2	36.5	5.8	4.5
Santa Barbara-Santa Maria-Lompoc	176.0	177.4	9.0	8.3	5.1	4.7
Santa Rosa-Petaluma	180.2	187.1	10.3	9.0	5.7	4.8
Stockton	183.9	189.4	21.3	18.7	11.6	9.9
Vallejo-Fairfield-Napa	177.8	182.8	11.6	10.8	6.5	5.9
Colorado	1,696.0	1,697.0	126.0	130.0	7.4	7.7
Boulder-Longmont	129.2	130.4	7.7	7.5	6.0	5.6
Denver	897.3	890.7	59.6	63.3	6.6	7.1
Connecticut	1,739.0	1,752.0	66.0	58.0	3.8	3.3
Bridgeport-Milford	229.6	230.1	10.8	9.2	4.7	4.0
Hartford	417.4	425.5	13.9	12.9	3.3	3.0
New Britain	74.2	74.2	3.2	2.7	4.3	3.7
New Haven-Meriden	270.9	271.6	10.0	8.6	3.7	3.2
Stamford	116.6	118.3	3.2	2.8	2.8	2.3
Waterbury	103.0	102.4	5.6	4.6	5.4	4.5
Delaware	324.0	331.0	14.0	10.0	4.3	3.2
Wilmington	281.8	287.5	14.2	10.1	5.0	3.5
District of Columbia	324.0	333.0	25.0	21.0	7.7	6.3
Washington	2,039.7	2,116.8	69.8	66.7	3.4	3.1
Florida	5,585.0	5,670.0	320.0	312.0	5.7	5.3
Daytona Beach	138.7	146.0	7.0	6.8	5.0	4.7
Fort Lauderdale-Hollywood-Pompano Beach	583.6	615.2	26.0	25.9	4.4	4.2
Fort Myers-Cape Coral	122.8	132.8	5.2	5.0	4.2	3.8
Gainesville	100.3	103.8	3.4	3.6	3.4	3.5
Jacksonville	419.8	443.3	22.6	23.5	5.4	5.3
Lakeland-Winter Haven	185.7	171.1	17.8	15.8	10.7	9.1
Melbourne-Titusville-Palm Bay	170.5	174.6	10.3	9.6	6.0	5.5
Miami-Hialeah	887.1	913.2	59.4	52.9	6.7	5.8
Orlando	517.3	554.1	24.1	25.6	4.7	4.6
Pensacola	146.0	149.0	9.6	9.5	6.6	6.4
Sarasota	109.1	116.7	4.3	4.2	4.0	3.6
Tallahassee	116.5	123.3	4.4	4.9	3.8	4.0
Tampa-St. Petersburg-Clearwater	912.3	957.1	46.6	46.4	5.1	4.9
West Palm Beach-Boca Raton-Delray Beach	367.9	395.5	21.7	21.1	5.9	5.3

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
ANNUAL AVERAGES**

3. 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	
	1986	1987	1986	1987	1986	1987
Georgia	2,994.0	3,053.0	177.0	167.0	5.9	5.5
Albany	56.8	55.8	6.2	5.2	10.9	9.3
Athens	70.9	72.0	3.6	3.1	5.1	4.3
Atlanta	1,404.8	1,440.7	65.2	66.9	4.6	4.6
Augusta	174.3	178.8	10.2	10.5	5.9	5.9
Columbus	99.5	100.2	7.4	6.3	7.4	6.3
Macon-Warner Robins	126.9	128.0	7.5	6.6	5.9	5.2
Savannah	108.6	110.4	7.0	6.6	6.5	5.9
Hawaii	492.0	514.0	24.0	20.0	4.8	3.8
Honolulu	368.7	384.1	16.2	13.5	4.4	3.5
Idaho	473.0	471.0	41.0	38.0	8.7	8.0
Boise City	102.0	104.0	6.0	5.9	5.9	5.7
Illinois	5,700.0	5,753.0	462.0	423.0	8.1	7.4
Aurora-Elgin	171.1	173.6	12.4	10.5	7.2	6.1
Bloomington-Normal	63.3	65.6	3.5	3.1	5.5	4.7
Champaign-Urbana-Rantoul	85.9	87.0	4.0	3.9	4.6	4.5
Chicago	3,119.1	3,162.2	228.6	209.4	7.3	6.6
Davenport-Rock Island-Moline	184.7	181.8	17.7	14.1	9.6	7.8
Decatur	59.9	58.6	6.4	5.7	10.7	9.7
Joliet	192.3	195.4	15.2	15.9	7.9	8.1
Kankakee	44.3	44.4	4.5	4.2	10.1	9.4
Lake County	254.4	264.1	13.7	12.3	5.4	4.6
Peoria	154.0	153.4	13.8	12.4	9.0	8.1
Rockford	146.7	148.2	12.8	14.1	8.7	9.5
Springfield	106.0	109.2	6.1	5.8	5.7	5.3
Indiana	2,759.0	2,751.0	186.0	175.0	6.7	6.4
Anderson	61.6	59.7	3.9	4.1	6.4	6.9
Bloomington	57.6	58.0	2.3	2.5	3.9	4.3
Elkhart-Goshen	89.9	92.6	4.4	4.5	4.9	4.8
Evansville	144.3	141.7	9.8	10.1	6.8	7.1
Fort Wayne	190.6	194.5	10.0	10.3	5.2	5.3
Gary-Hammond	259.6	253.8	30.5	24.2	11.8	9.5
Indianapolis	649.5	653.3	33.4	33.7	5.1	5.2
Kokomo	50.0	48.3	4.4	3.9	8.9	8.0
Lafayette	65.1	65.2	2.5	2.5	3.9	3.8
Muncie	59.8	59.6	4.2	4.1	7.1	6.9
South Bend-Mishawaka	126.5	127.3	7.4	7.1	5.9	5.6
Terre Haute	60.4	58.9	4.3	3.8	7.0	6.5
Iowa	1,438.0	1,448.0	101.0	80.0	7.0	5.5
Cedar Rapids	89.3	92.4	5.6	4.7	6.2	5.1
Des Moines	213.4	221.3	12.2	9.8	5.7	4.4
Dubuque	43.4	43.9	3.4	2.7	7.8	6.1
Iowa City	58.1	59.6	1.5	1.2	2.6	2.0
Sioux City	57.6	60.1	4.6	4.1	8.0	6.8
Waterloo-Cedar Falls	69.3	68.4	8.6	5.6	12.3	8.2
Kansas	1,237.0	1,267.0	67.0	62.0	5.4	4.9
Lawrence	37.8	39.7	1.4	1.5	3.8	3.8
Topeka	87.1	90.2	4.5	4.2	5.1	4.7
Wichita	237.8	250.5	13.6	12.6	5.7	5.0
Kentucky	1,692.0	1,686.0	157.0	148.0	9.3	8.8
Lexington-Fayette	180.3	180.6	9.5	9.3	5.3	5.2
Louisville	492.4	495.6	35.0	34.3	7.1	6.9
Owensboro	45.5	44.7	4.8	4.7	10.5	10.6
Louisiana	1,992.0	1,955.0	262.0	234.0	13.1	12.0
Alexandria	60.6	61.5	6.4	6.1	10.5	9.9
Baton Rouge	265.4	264.5	29.1	26.3	11.0	9.9
Houma-Thibodaux	77.9	73.2	13.5	11.7	17.3	16.0
Lafayette	108.3	100.8	15.1	12.9	13.9	12.8
Lake Charles	76.2	76.3	11.0	9.8	14.4	12.9
Monroe	70.0	70.3	7.1	7.0	10.2	10.0
New Orleans	612.9	603.7	66.5	60.5	10.8	10.0
Shreveport	170.1	168.0	20.3	18.5	11.9	11.0
Maine	561.0	587.0	30.0	26.0	5.3	4.4
Lewiston-Auburn	40.5	41.5	2.8	2.2	7.0	5.4
Portland	116.9	124.4	3.0	2.9	2.6	2.3

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
ANNUAL AVERAGES**

3. 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	
	1986	1987	1986	1987	1986	1987
Maryland	2,352.0	2,402.0	105.0	102.0	4.5	4.2
Baltimore	1,147.2	1,163.1	59.2	54.2	5.2	4.7
Massachusetts	3,058.0	3,086.0	118.0	99.0	3.8	3.2
Boston	1,529.3	1,531.8	49.7	41.8	3.2	2.7
Brockton	94.6	96.7	4.1	3.5	4.3	3.6
Fall River	75.9	75.9	4.9	4.2	6.5	5.6
Fitchburg-Leominster	45.7	45.9	2.2	1.9	4.9	4.2
Lawrence-Haverhill	182.1	183.1	8.8	7.9	4.9	4.3
Lowell	147.9	149.1	6.0	5.1	4.1	3.4
New Bedford	83.4	84.4	5.2	4.3	6.3	5.1
Pittsfield	40.0	40.5	1.7	1.6	4.2	3.9
Springfield	243.8	251.0	10.3	8.2	4.2	3.3
Worcester	209.5	214.0	7.7	6.3	3.7	2.9
Michigan	4,391.0	4,523.0	385.0	369.0	8.8	8.2
Ann Arbor	149.3	156.8	7.0	6.6	4.7	4.2
Battle Creek	61.9	64.3	5.6	5.0	9.0	7.8
Benton Harbor	75.0	77.1	6.8	5.7	9.0	7.4
Detroit	2,118.6	2,186.1	174.2	177.7	8.2	8.1
Flint	199.0	201.1	21.4	24.2	10.8	12.0
Grand Rapids	335.2	347.4	24.7	21.5	7.4	6.2
Jackson	62.6	63.5	5.6	5.0	9.0	7.8
Kalamazoo	110.2	114.2	6.6	6.1	6.0	5.3
Lansing-East Lansing	230.1	237.7	16.0	15.8	7.0	6.7
Muskegon	67.7	68.1	7.4	6.8	10.9	10.0
Saginaw-Bay City-Midland	180.3	184.7	18.1	16.0	10.0	8.7
Minnesota	2,230.0	2,259.0	119.0	122.0	5.3	5.4
Duluth	107.7	106.9	9.8	9.8	9.1	9.2
Minneapolis-St. Paul	1,317.2	1,346.9	55.3	58.9	4.2	4.4
Rochester	56.6	57.5	2.2	2.3	3.9	4.0
St. Cloud	89.2	91.3	5.2	5.6	5.8	6.1
Mississippi	1,155.0	1,151.0	135.0	117.0	11.7	10.2
Jackson	195.1	198.7	15.6	14.3	8.0	7.2
Missouri	2,542.0	2,589.0	155.0	164.0	6.1	6.3
Kansas City	816.4	837.5	37.6	45.6	4.6	5.4
St. Joseph	41.5	41.5	3.2	3.1	7.7	7.5
St. Louis	1,254.5	1,276.6	87.6	89.6	7.0	7.0
Springfield	118.6	120.8	5.5	5.8	4.6	4.8
Montana	407.0	403.0	33.0	30.0	8.1	7.4
Nebraska	813.0	811.0	41.0	40.0	5.0	4.9
Lincoln	120.0	121.1	3.9	4.2	3.2	3.5
Omaha	319.6	321.5	17.1	16.8	5.4	5.2
Nevada	532.0	556.0	32.0	35.0	6.0	6.3
Las Vegas	305.4	323.6	19.1	21.0	6.3	6.5
Reno	134.2	137.9	7.0	7.8	5.2	5.7
New Hampshire	561.0	588.0	16.0	15.0	2.8	2.5
Nashua	91.2	97.2	2.7	2.6	3.0	2.7
Portsmouth-Dover-Rochester	123.6	131.0	3.2	3.0	2.6	2.3
New Jersey	3,908.0	3,966.0	197.0	160.0	5.0	4.0
Atlantic City	170.7	173.4	12.3	10.0	7.2	5.8
Bergen-Passaic	709.1	721.1	32.6	25.4	4.6	3.5
Jersey City	268.1	267.9	21.4	17.6	8.0	6.6
Middlesex-Somerset-Hunterdon	538.6	554.1	20.4	16.0	3.8	2.9
Monmouth-Ocean	454.6	470.9	18.4	15.5	4.1	3.3
Newark	966.0	964.3	51.3	40.8	5.3	4.2
Trenton	168.5	171.8	7.1	5.8	4.2	3.4
Vineland-Millville-Bridgeton	57.2	57.7	5.2	4.4	9.2	7.6
New Mexico	678.0	685.0	62.0	61.0	9.2	8.9
Albuquerque	256.4	261.0	16.4	16.8	6.4	6.4
Las Cruces	55.3	55.4	4.0	4.1	7.3	7.4
Santa Fe	64.3	65.4	3.5	3.8	5.4	5.8

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
ANNUAL AVERAGES**

3. 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	
	1986	1987	1986	1987	1986	1987
New York	8,397.0	8,482.0	526.0	412.0	6.3	4.9
Albany-Schenectady-Troy	411.5	417.9	21.3	16.4	5.2	3.9
Binghamton	126.2	125.6	7.7	5.3	6.1	4.2
Buffalo	439.6	445.0	32.3	24.8	7.4	5.6
Elmira	39.6	41.0	2.7	1.8	6.8	4.4
Glens Falls	51.9	53.3	3.6	2.7	6.9	5.0
Nassau-Suffolk	1,402.5	1,424.6	60.9	47.3	4.3	3.3
New York	3,879.1	3,902.5	260.6	205.8	6.7	5.3
New York City	3,202.0	3,225.0	235.0	165.0	7.4	5.7
Orange County	126.1	130.7	6.4	5.0	5.1	3.8
Poughkeepsie	125.9	126.3	4.7	3.8	3.8	2.8
Rochester	491.4	495.4	27.6	22.0	5.7	4.4
Syracuse	315.8	319.8	23.4	19.6	7.4	6.1
Utica-Rome	134.8	135.4	9.5	7.3	7.1	5.4
North Carolina	3,177.0	3,276.0	169.0	146.0	5.3	4.5
Asheville	84.4	86.8	4.5	3.8	5.3	4.4
Charlotte-Gastonia-Rock Hill	590.5	628.1	27.5	23.4	4.7	3.7
Greensboro-Winston-Salem-High Point	495.6	514.7	23.1	18.9	4.7	3.7
Raleigh-Durham	375.7	395.6	12.4	12.0	3.3	3.0
North Dakota	334.0	331.0	21.0	17.0	6.3	5.2
Bismarck	45.1	44.9	3.1	2.3	6.9	5.1
Fargo-Moorhead	83.0	84.8	3.4	3.1	4.2	3.6
Grand Forks	35.2	36.8	1.3	1.4	3.6	3.7
Ohio	5,231.0	5,248.0	425.0	367.0	8.1	7.0
Akron	320.4	319.9	25.6	22.8	8.0	7.1
Canton	190.5	189.6	19.4	15.7	10.2	8.3
Cincinnati	727.8	744.7	47.2	44.0	6.5	5.9
Cleveland	932.8	926.6	70.1	57.8	7.5	6.2
Columbus	676.2	694.4	41.3	37.5	6.1	5.4
Dayton-Springfield	460.5	461.9	30.3	26.1	6.6	5.7
Toledo	307.1	308.9	25.8	22.5	8.4	7.3
Youngstown-Warren	223.7	221.3	23.7	21.5	10.6	9.7
Oklahoma	1,605.0	1,564.0	132.0	115.0	8.2	7.4
Enid	31.5	30.4	2.5	2.1	7.9	6.9
Lawton	48.9	49.8	2.5	2.4	5.0	4.9
Oklahoma City	522.1	508.8	35.1	30.4	6.7	6.0
Tulsa	361.3	348.3	30.5	28.7	8.4	8.3
Oregon	1,360.0	1,387.0	115.0	86.0	8.5	6.2
Eugene-Springfield	133.6	137.6	11.5	7.9	8.6	5.8
Portland	617.0	632.9	44.1	33.4	7.2	5.3
Salem	125.2	128.3	10.7	8.0	8.6	6.2
Pennsylvania	5,636.0	5,648.0	366.0	320.0	6.8	5.7
Allentown-Bethlehem	318.6	318.1	22.6	16.0	7.1	5.0
Altoona	58.4	56.8	5.0	4.2	8.5	7.2
Beaver County	65.3	62.4	7.8	6.1	11.9	9.8
Erie	128.1	127.3	10.6	9.2	8.3	7.2
Harrisburg-Lebanon-Carlisle	306.4	311.5	15.3	12.8	5.0	4.1
Johnstown	93.8	93.6	9.4	7.8	10.0	8.3
Lancaster	206.2	211.0	8.7	8.1	4.2	3.8
Philadelphia	2,364.3	2,366.9	124.8	105.3	5.3	4.4
Pittsburgh	957.2	947.0	74.0	63.4	7.7	6.7
Reading	169.6	170.0	10.9	8.3	6.4	4.9
Scranton-Wilkes-Barre	347.6	347.4	29.1	24.1	8.4	6.9
Sharon	49.2	48.7	4.0	3.3	8.2	6.7
State College	58.1	59.6	3.7	3.3	6.3	5.5
Williamsport	56.1	58.0	4.1	3.2	7.3	5.6
York	207.1	208.5	11.9	9.5	5.8	4.6
Rhode Island	509.0	519.0	21.0	20.0	4.0	3.8
Pawtucket-Woonsocket-Attleboro	164.6	167.7	8.1	7.4	4.9	4.4
Providence	330.8	338.0	13.3	12.6	4.0	3.7
South Carolina	1,593.0	1,632.0	99.0	91.0	6.2	5.6
Charleston	215.0	220.4	10.0	10.3	4.6	4.7
Columbia	220.8	227.7	8.0	8.8	3.6	3.9
Greenville-Spartanburg	316.3	322.1	16.1	14.2	5.1	4.4
South Dakota	349.0	355.0	17.0	15.0	4.7	4.2
Rapid City	38.4	39.5	1.8	1.7	4.6	4.3
Sioux Falls	69.1	72.2	2.9	2.8	4.3	3.8

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA
ANNUAL AVERAGES**

3. 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	
	1986	1987	1986	1987	1986	1987
Tennessee	2,290.0	2,336.0	184.0	154.0	8.0	6.6
Chattanooga	200.2	206.1	14.0	11.7	7.0	5.7
Johnson City-Kingsport-Bristol	210.1	214.8	15.7	14.5	7.4	6.8
Knoxville	277.5	282.4	21.7	18.3	7.8	6.5
Memphis LMA	428.3	442.4	29.1	25.2	6.8	5.7
Nashville	505.4	521.2	25.0	22.9	4.9	4.4
Texas	8,126.0	8,265.0	723.0	697.0	8.9	8.4
Abilene	55.0	54.3	5.0	4.6	9.0	8.5
Amarillo	98.7	100.4	6.6	6.4	6.7	6.4
Austin	420.3	429.5	23.6	28.0	5.6	6.5
Beaumont-Port Arthur	163.5	162.6	23.5	20.1	14.4	12.4
Brazoria	80.1	81.0	8.8	7.9	11.0	9.7
Brownsville-Harlingen	94.8	96.0	15.0	13.8	15.8	14.3
Bryan-College Station	57.2	56.8	3.7	3.3	6.4	5.7
Corpus Christi	163.9	161.5	20.1	19.1	12.3	11.8
Dallas	1,404.5	1,452.3	79.8	91.0	5.7	6.3
El Paso	223.4	232.5	25.8	25.0	11.5	10.7
Fort Worth-Arlington	650.9	678.0	42.5	46.8	6.5	6.9
Galveston-Texas City	107.0	109.7	12.1	11.5	11.3	10.5
Houston	1,611.9	1,609.6	165.0	145.3	10.2	9.0
Killeen-Temple	88.4	93.1	6.8	7.3	7.7	7.9
Laredo	43.7	45.6	7.2	7.0	16.6	15.4
Longview-Marshall	80.1	79.4	9.9	8.5	12.4	10.6
Lubbock	109.5	112.4	7.4	6.9	6.8	6.2
McAllen-Edinburg-Mission	141.3	146.2	28.0	26.4	19.8	18.0
Midland	52.2	50.3	5.5	4.6	10.6	9.1
Odessa	58.7	54.4	8.7	6.2	14.8	11.5
San Angelo	45.2	45.4	3.2	2.9	7.0	6.3
San Antonio	579.1	609.6	41.8	48.1	7.2	7.9
Sherman-Denison	47.9	49.3	3.6	3.8	7.5	7.8
Texarkana	57.0	58.0	5.2	4.8	9.1	8.3
Tyler	75.8	77.4	6.7	6.8	8.8	8.7
Victoria	37.7	37.1	3.9	3.4	10.3	9.0
Waco	89.9	92.8	7.0	7.4	7.8	8.0
Wichita Falls	56.5	57.5	4.7	4.5	8.3	7.8
Utah	754.0	757.0	45.0	48.0	6.0	6.4
Provo-Orem	97.4	98.8	6.1	6.8	6.3	6.9
Salt Lake City-Ogden	498.6	499.6	26.7	28.7	5.4	5.7
Vermont	292.0	296.0	14.0	11.0	4.7	3.6
Burlington	72.4	74.0	2.5	2.0	3.4	2.7
Virginia	2,896.0	2,989.0	145.0	126.0	5.0	4.2
Charlottesville	63.4	65.3	2.5	1.9	3.9	2.9
Danville	50.5	50.7	4.9	3.4	9.6	6.7
Lynchburg	69.7	71.5	4.3	3.6	6.2	5.1
Norfolk-Virginia Beach-Newport News	575.8	596.2	29.9	28.1	5.2	4.7
Richmond-Petersburg	410.7	429.8	17.3	15.9	4.2	3.7
Roanoke	117.6	119.2	5.7	4.9	4.8	4.1
Washington	2,199.0	2,254.0	180.0	171.0	8.2	7.6
Seattle	962.9	997.8	62.4	60.4	6.5	6.1
West Virginia	743.0	749.0	88.0	81.0	11.8	10.8
Charleston	116.5	116.9	10.9	10.7	9.4	9.1
Huntington-Ashland	126.2	127.4	14.0	13.3	11.1	10.4
Parkersburg-Marietta	72.0	71.9	7.8	6.4	10.9	8.9
Wheeling	72.2	71.9	8.3	6.6	11.5	9.2
Wisconsin	2,403.0	2,491.0	169.0	152.0	7.0	6.1
Appleton-Oshkosh-Neenah	158.5	164.0	10.8	9.7	6.8	5.9
Eau Claire	67.4	70.4	4.5	4.3	6.6	6.1
Green Bay	100.8	105.5	6.1	6.3	6.0	6.0
Janesville-Beloit	69.7	71.4	6.2	5.5	8.9	7.7
Kenosha	52.2	55.2	6.4	4.1	12.3	7.4
La Crosse	51.1	53.4	3.0	2.7	5.9	5.0
Madison	204.6	214.2	9.1	8.2	4.4	3.8
Milwaukee	711.4	738.8	43.4	39.3	6.1	5.3
Racine	84.7	86.5	7.2	6.0	8.5	6.9
Sheboygan	52.6	54.9	3.3	2.9	6.2	5.3
Wausau	56.5	58.6	4.3	3.9	7.5	6.7
Wyoming	252.0	240.0	23.0	21.0	9.0	8.6

NOTE: Annual averages for States are obtained directly from the Current Population Survey. Estimates for all sub-state areas except New York City and Los Angeles-Long Beach are based on administrative statistics adjusted to the statewide

totals. See the Explanatory Notes for State and Area Labor Force Data. Area definitions are published annually in the May issue of this publication. Data for 1986-87 have been adjusted to new benchmark levels.

Area definitions

State and area	Type of area	Definition
Alabama		
Birmingham	MSA	Blount, Jefferson, St. Clair, Shelby, and Walker Counties
Huntsville	MSA	Madison County
Mobile	MSA	Baldwin and Mobile Counties
Montgomery	MSA	Autauga, Elmore, and Montgomery Counties
Tuscaloosa	MSA	Tuscaloosa County
Arizona		
Phoenix	MSA	Maricopa County
Tucson	MSA	Pima County
Arkansas		
Fayetteville-Springdale	MSA	Washington County
Fort Smith	MSA	Crawford and Sebastian Counties, Ark.; Sequoyah County, Okla.
Little Rock-North Little Rock	MSA	Faulkner, Lonoke, Pulaski, and Saline Counties
Pine Bluff	MSA	Jefferson County
California		
Anaheim-Santa Ana	PMSA	Orange County
Bakersfield	MSA	Kern County
Fresno	MSA	Fresno County
Los Angeles-Long Beach	PMSA	Los Angeles County
Modesto	MSA	Stanislaus County
Oakland	PMSA	Alameda and Contra Costa Counties
Oxnard-Ventura	PMSA	Ventura County
Riverside-San Bernardino	PMSA	Riverside and San Bernardino Counties
Sacramento	MSA	El Dorado, Placer, Sacramento, and Yolo Counties
Salinas-Seaside-Monterey	MSA	Monterey County
San Diego	MSA	San Diego County
San Francisco	PMSA	Marin, San Francisco, and San Mateo Counties
San Jose	PMSA	Santa Clara County
Santa Barbara-Santa Maria-Lompoc	MSA	Santa Barbara County
Santa Rosa-Petaluma	PMSA	Sonoma County
Stockton	MSA	San Joaquin County
Vallejo-Fairfield-Napa	PMSA	Napa and Solano Counties
Colorado		
Boulder-Longmont	PMSA	Boulder County
Denver	PMSA	Adams, Arapahoe, Denver, Douglas, and Jefferson Counties
Connecticut		
Bridgeport-Milford	PMSA	Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; Ansonia, Derby, and Milford cities and Beacon Falls, Oxford, and Seymour towns in New Haven County
Hartford	PMSA	Hartford city, and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; Barkhamsted and New Hartford towns in Litchfield County; East Haddam town in Middlesex County; Colchester town in New London County; Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Somers, Stafford, Tolland, Vernon, and Willington towns in Tolland County
New Britain	PMSA	New Britain city, and Berlin, Plainville, and Southington towns in Hartford County
New Haven-Meriden	MSA	Clinton and Killingworth towns in Middlesex County; Meriden, New Haven, and West Haven cities, and Bethany, Branford, Cheshire, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County
Stamford	PMSA	Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County
Waterbury	MSA	Bethlehem, Thomaston, Watertown, and Woodbury towns in Litchfield County; Waterbury city, Naugatuck borough, and Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County
Delaware		
Wilmington	PMSA	New Castle County, Del.; Cecil County, Md.; Salem County, N.J.
District of Columbia		
Washington	MSA	District of Columbia; Calvert, Charles, Frederick, Montgomery, and Prince Georges Counties, Md.; Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, Prince William, and Stafford Counties, Va.

Area definitions—Continued

State and area	Type of area	Definition
Florida		
Daytona Beach	MSA	Volusia County
Fort Lauderdale-Hollywood-Pompano Beach	PMSA	Broward County
Fort Myers	MSA	Lee County
Gainesville	MSA	Alachua and Bradford Counties
Jacksonville	MSA	Clay, Duval, Nassau, and St. Johns Counties
Lakeland-Winter Haven	MSA	Polk County
Melbourne-Titusville-Palm Bay	MSA	Brevard County
Miami-Hialeah	PMSA	Dade County
Orlando	MSA	Orange, Osceola, and Seminole Counties
Pensacola	MSA	Escambia and Santa Rosa Counties
Sarasota	MSA	Sarasota County
Tallahassee	MSA	Gadsden and Leon Counties
Tampa-St. Petersburg-Clearwater	MSA	Hernando, Hillsborough, Pasco, and Pinellas Counties
West Palm Beach-Boca Raton-Delray Beach	MSA	Palm Beach County
Georgia		
Albany	MSA	Dougherty and Lee Counties
Athens	MSA	Clarke, Jackson, Madison, and Oconee Counties
Atlanta	MSA	Barrow, Butts, Cherokee, Clayton, Cobb, Coweta, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, Spalding, and Walton Counties
Augusta	MSA	Columbia, McDuffie, and Richmond Counties, Ga.; Aiken County, S.C.
Columbus	MSA	Chattahoochee and Muscogee Counties, Ga.; Russell County, Ala.
Macon-Warner Robins	MSA	Bibb, Houston, Jones, and Peach Counties
Savannah	MSA	Chatham and Effingham Counties
Hawaii		
Honolulu	MSA	Honolulu County
Idaho		
Boise City	MSA	Ada County
Illinois		
Aurora-Elgin	PMSA	Kane and Kendall Counties
Bloomington-Normal	MSA	McLean County
Champaign-Urbana-Rantoul	MSA	Champaign County
Chicago	PMSA	Cook, Du Page, and McHenry Counties
Davenport-Rock Island-Moline	MSA	Henry and Rock Island Counties, Ill.; Scott County, Iowa
Decatur	MSA	Macon County
Joliet	PMSA	Grundy and Will Counties
Kankakee	MSA	Kankakee County
Lake County	PMSA	Lake County
Peoria	MSA	Peoria, Tazewell, and Woodford Counties
Rockford	MSA	Boone and Winnebago Counties
Springfield	MSA	Menard and Sangamon Counties
Indiana		
Anderson	MSA	Madison County
Bloomington	MSA	Monroe County
Elkhart-Goshen	MSA	Elkhart County
Evansville	MSA	Posey, Vanderburgh, and Warrick Counties, Ind.; Henderson County, Ky.
Fort Wayne	MSA	Allen, DeKalb, and Whitley Counties
Gary-Hammond	PMSA	Lake and Porter Counties
Indianapolis	MSA	Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties
Kokomo	MSA	Howard and Tipton Counties
Lafayette	MSA	Tippecanoe County
Muncie	MSA	Delaware County
South Bend-Mishawaka	MSA	St. Joseph County
Terre Haute	MSA	Clay and Vigo Counties
Iowa		
Cedar Rapids	MSA	Linn County
Des Moines	MSA	Dallas, Polk, and Warren Counties
Dubuque	MSA	Dubuque County
Iowa City	MSA	Johnson County
Sioux City	MSA	Woodbury County, Iowa; Dakota County, Nebr.
Waterloo-Cedar Falls	MSA	Black Hawk and Bremer Counties
Kansas		
Lawrence	MSA	Douglas County
Topeka	MSA	Shawnee County
Wichita	MSA	Butler, Harvey, and Sedgwick Counties
Kentucky		
Lexington-Fayette	MSA	Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties

Area definitions—Continued

State and area	Type of area	Definition
Kentucky—Continued		
Louisville	MSA	Bullitt, Jefferson, Oldham, and Shelby Counties, Ky.; Clark, Floyd, and Harrison Counties, Ind.
Owensboro	MSA	Daviess County
Louisiana		
Alexandria	MSA	Rapides Parish
Baton Rouge	MSA	Ascension, East Baton Rouge, Livingston, and West Baton Rouge Parishes
Houma-Thibodaux	MSA	Lafourche and Terrebonne Parishes
Lafayette	MSA	Lafayette and St. Martin Parishes
Lake Charles	MSA	Calcasieu Parish
Monroe	MSA	Ouachita Parish
New Orleans	MSA	Jefferson, Orleans, St. Bernard, St. Charles, St. John the Baptist, and St. Tammany Parishes
Shreveport	MSA	Bossier and Caddo Parishes
Maine		
Lewiston-Auburn	MSA	Auburn and Lewiston cities, and Greene, Lisbon, Mechanic Falls, Poland, and Sabattus towns in Androscoggin County
Portland	MSA	Portland, South Portland, and Westbrook cities, and Cape Elizabeth, Cumberland, Falmouth, Freeport, Gorham, Gray, North Yarmouth, Raymond, Scarborough, Standish, Windham, and Yarmouth towns in Cumberland County; Buxton, Hollis, and Old Orchard Beach towns in York County
Maryland		
Baltimore	MSA	Baltimore city, and Anne Arundel, Baltimore, Carroll, Harford, Howard, and Queen Anne's Counties
Baltimore City		Baltimore City
Suburban Maryland-D.C.		Calvert, Charles, Frederick, Montgomery, and Prince Georges Counties
Massachusetts		
Boston	PMSA	Mansfield, Norton, and Raynham towns in Bristol County; Lynn city and Lynnfield, Nahant, and Saugus towns in Essex County; Cambridge, Everett, Malden, Marlborough, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Acton, Arlington, Ashland, Ayer, Bedford, Belmont, Boxborough, Burlington, Carlisle, Concord, Framingham, Groton, Holliston, Hopkinton, Hudson, Lexington, Lincoln, Littleton, Maynard, Natick, North Reading, Reading, Sherborn, Shirley, Stoneham, Stow, Sudbury, Townsend, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Quincy city, and Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxborough, Franklin, Holbrook, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Stoughton, Walpole, Wellesley, Westwood, Weymouth, and Wrentham towns in Norfolk County; Carver, Duxbury, Hanover, Hanson, Hingham, Hull, Kingston, Lakeville, Marshfield, Middleborough, Norwell, Pembroke, Plymouth, Plympton, Rockland, and Scituate towns in Plymouth County; Boston, Chelsea, and Revere cities and Winthrop town in Suffolk County; Berlin, Bolton, Harvard, Hopedale, Lancaster, Mendon, Milford, Southborough, and Upton towns in Worcester County
Brockton	PMSA	Easton town in Bristol County; Avon town in Norfolk County; Brockton city, and Abington, Bridgewater, East Bridgewater, Halifax, West Bridgewater, and Whitman towns in Plymouth County
Fall River	PMSA	Fall River city, and Somerset, Swansea, and Westport towns in Bristol County, Mass.; Little Compton and Tiverton towns in Newport County, R.I.
Fitchburg-Leominster	MSA	Ashby town in Middlesex County; Fitchburg and Leominster cities, and Ashburnham, Lunenburg, and Westminster towns in Worcester County
Lawrence-Haverhill	PMSA	Haverhill, Lawrence, and Newburyport cities, and Amesbury, Andover, Boxford, Georgetown, Groveland, Merrimac, Methuen, Newbury, North Andover, Salisbury, and West Newbury towns in Essex County, Mass.; Atkinson, Brentwood, Danville, Derry, East Kingston, Hampstead, Kingston, Newton, Plaistow, Salem, Sandown, Seabrook, and Windham towns in Rockingham County, N.H.
Lowell	PMSA	Lowell city, and Billerica, Chelmsford, Dracut, Dunstable, Pepperell, Tewksbury, Tyngsborough, and Westford towns in Middlesex County and Pelham town in Hillsborough County
New Bedford	MSA	New Bedford city, and Acushnet, Dartmouth, Fairhaven, and Freetown towns in Bristol County; Marion, Mattapoisett, and Rochester towns in Plymouth County
Pittsfield	MSA	Pittsfield city, and Cheshire, Dalton, Hinsdale, Lanesborough, Lee, Lenox, Richmond, and Stockbridge towns in Berkshire County

Area definitions—Continued

State and area	Type of area	Definition
Massachusetts—Continued		
Springfield	MSA	Chicopee, Holyoke, Springfield, and Westfield cities, and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Montgomery, Palmer, Russell, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city, and Belchertown, Easthampton, Granby, Huntington, Southampton, and South Hadley towns in Hampshire County
Worcester	MSA	Worcester city, and Auburn, Barre, Boylston, Brookfield, Charlton, Clinton, Douglas, Dudley, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Princeton, Rutland, Shrewsbury, Spencer, Sterling, Sutton, Uxbridge, Webster, Westborough, and West Boylston towns in Worcester County
Michigan		
Ann Arbor	PMSA	Washtenaw County
Battle Creek	MSA	Calhoun County
Benton Harbor	MSA	Berrien County
Detroit	PMSA	Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties
Flint	MSA	Genesee County
Grand Rapids	MSA	Kent and Ottawa Counties
Jackson	MSA	Jackson County
Kalamazoo	MSA	Kalamazoo County
Lansing-East Lansing	MSA	Clinton, Eaton, and Ingham Counties
Muskegon	MSA	Muskegon County
Saginaw-Bay City-Midland	MSA	Bay, Midland, and Saginaw Counties
Minnesota		
Duluth	MSA	St. Louis County, Minn.; Douglas County, Wisc.
Minneapolis-St. Paul	MSA	Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Ramsey, Scott, Washington, and Wright Counties, Minn.; St. Croix County, Wis.
Rochester	MSA	Olmsted County
St. Cloud	MSA	Benton, Sherburne, and Stearns Counties
Mississippi		
Jackson	MSA	Hinds, Madison, and Rankin Counties
Missouri		
Kansas City	MSA	Johnson, Leavenworth, Miami, and Wyandotte Counties, Kan.; Cass, Clay, Jackson, Lafayette, Platte, and Ray Counties, Mo.
St. Joseph	MSA	Buchanan County
St. Louis	MSA	Clinton, Jersey, Madison, Monroe, and St. Clair Counties, Ill.; St. Louis city, and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.
Springfield	MSA	Christian and Greene Counties
Nebraska		
Lincoln	MSA	Lancaster County
Omaha	MSA	Douglas, Sarpy, and Washington Counties, Nebr.; Pottawattamie County, Iowa
Nevada		
Las Vegas	MSA	Clark County
Reno	MSA	Washoe County
New Hampshire		
Nashua	MSA	Nashua city, and Amherst, Brookline, Hollis, Hudson, Litchfield, Merrimack, Milford, Mont Vernon, and Wilton towns in Hillsborough County; Londonderry town in Rockingham County
Portsmouth-Dover-Rochester	MSA	Portsmouth city and Exeter, Greenland, Hampton, New Castle, Newfields, Newington, Newmarket, North Hampton, Rye and Stratham towns in Rockingham County; Dover, Rochester and Somersworth cities, and Barrington, Durham, Farmington, Lee, Madbury, Milton and Rollinsford towns in Strafford County; and Berwick, Eliot, Kittery, North Berwick, Ogunquit, South Berwick, Wells and York towns in York County
New Jersey		
Atlantic City	MSA	Atlantic and Cape May Counties
Bergen-Passaic	PMSA	Bergen and Passaic Counties
Camden		Burlington, Camden, and Gloucester Counties
Jersey City	PMSA	Hudson County
Middlesex-Somerset-Hunterdon	PMSA	Hunterdon, Middlesex, and Somerset Counties
Monmouth-Ocean	PMSA	Monmouth and Ocean Counties
Newark	PMSA	Essex, Morris, Sussex, and Union Counties
Trenton	PMSA	Mercer County
Vineland-Millville-Bridgeton	PMSA	Cumberland County
New Mexico		
Albuquerque	MSA	Bernalillo County
Las Cruces	MSA	Dona Ana County
Sante Fe	MSA	Los Alamos and Sante Fe Counties

Area definitions—Continued

State and area	Type of area	Definition
New York		
Albany-Schenectady-Troy	MSA	Albany, Greene, Montgomery, Rensselaer, Saratoga, and Schenectady Counties
Binghamton	MSA	Broome and Tioga Counties
Buffalo	PMSA	Erie County
Elmira	MSA	Chemung County
Glens Falls	MSA	Warren and Washington Counties
Nassau-Suffolk	PMSA	Nassau and Suffolk Counties
New York	PMSA	Bronx, Kings, New York, Putnam, Queens, Richmond, Rockland, and Westchester Counties
New York City		Bronx, Kings, New York, Queens, and Richmond Counties
Niagara Falls	PMSA	Niagara County
Orange County	PMSA	Orange County
Poughkeepsie	MSA	Dutchess County
Rochester	MSA	Livingston, Monroe, Ontario, Orleans, and Wayne Counties
Rockland County		Rockland County
Syracuse	MSA	Madison, Onondaga, and Oswego Counties
Utica-Rome	MSA	Herkimer and Oneida Counties
Westchester County		Westchester County
North Carolina		
Asheville	MSA	Buncombe County
Charlotte-Gastonia-Rock Hill	MSA	Cabarrus, Gaston, Lincoln, Mecklenburg, Rowan, and Union Counties, N.C.; York County, S.C.
Greensboro--Winston-Salem--High Point	MSA	Davidson, Davie, Forsyth, Guilford, Randolph, Stokes, and Yadkin Counties
Raleigh-Durham	MSA	Durham, Franklin, Orange, and Wake Counties
North Dakota		
Bismarck	MSA	Burleigh and Morton Counties
Fargo-Moorhead	MSA	Cass County, N.D.; Clay County, Minn.
Grand Forks	MSA	Grand Forks County
Ohio		
Akron	PMSA	Portage and Summit Counties
Canton	MSA	Carroll and Stark Counties
Cincinnati	PMSA	Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; Dearborn County, Ind.
Cleveland	PMSA	Cuyahoga, Geauga, Lake, and Medina Counties
Columbus	MSA	Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties
Dayton-Springfield	MSA	Clark, Greene, Miami, and Montgomery Counties
Toledo	MSA	Fulton, Lucas, and Wood Counties
Youngstown-Warren	MSA	Mahoning and Trumbull Counties
Oklahoma		
Enid	MSA	Garfield County
Lawton	MSA	Comanche County
Oklahoma City	MSA	Canadian, Cleveland, Logan, McClain, Oklahoma, and Pottawatomie Counties
Tulsa	MSA	Creek, Osage, Rogers, Tulsa, and Wagoner Counties
Oregon		
Eugene-Springfield	MSA	Lane County
Portland	PMSA	Clackamas, Multnomah, Washington, and Yamhill Counties
Salem	MSA	Marion and Polk Counties
Pennsylvania		
Allentown-Bethlehem	MSA	Carbon, Lehigh, and Northampton Counties, Pa.; Warren County, N.J.
Altoona	MSA	Blair County
Beaver County	PMSA	Beaver County
Erie	MSA	Erie County
Harrisburg-Lebanon-Carlisle	MSA	Cumberland, Dauphin, Lebanon, and Perry Counties
Johnstown	MSA	Cambria and Somerset Counties
Lancaster	MSA	Lancaster County
Philadelphia	PMSA	Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; Burlington, Camden, and Gloucester Counties, N.J.
Philadelphia City		Philadelphia County
Pittsburgh	PMSA	Allegheny, Fayette, Washington, and Westmoreland Counties
Reading	MSA	Berks County
Scranton-Wilkes-Barre	MSA	Columbia, Lackawanna, Luzerne, Monroe, and Wyoming Counties
Sharon	MSA	Mercer County
State College	MSA	Centre County
Williamsport	MSA	Lycoming County
York	MSA	Adams and York Counties
Puerto Rico		
Caguas	PMSA	Aguas Buenas, Caguas, Cayey, Cidra, Gurabo, and San Lorenzo Municipios
Mayaguez	MSA	Anasco, Cabo Rojo, Hormigueros, Mayaguez, and San German Municipios
Ponce	MSA	Juana Diaz and Ponce Municipios
San Juan	PMSA	Barceloneta, Bayamon, Canovanas, Carolina, Catano, Corozal, Dorado, Fajardo, Florida, Guaynabo, Humacao, Juncos, Las Piedras, Loiza, Luquillo, Manati, Naranjito, Rio Grande, San Juan, Toa Alta, Toa Bajo, Trujillo Alto, Vega Alta, and Vega Baja Municipios

Area definitions—Continued

State and area	Type of area	Definition
Rhode Island		
Pawtucket–Woonsocket–Attleboro	PMSA	Central Falls, Pawtucket, and Woonsocket cities, and Burrillville, Cumberland, Lincoln, North Smithfield, and Smithfield towns in Providence County, R.I.; Attleboro city, and North Attleborough, Rehoboth, and Seekonk towns in Bristol County, Mass.; Plainville town in Norfolk County, Mass.; Blackstone and Millville towns in Worcester County, Mass.
Providence	PMSA	Barrington, Bristol, and Warren towns in Bristol County; Warwick city, and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Cranston, East Providence, and Providence cities and Foster, Glocester, Johnston, North Providence, and Scituate towns in Providence County; Exeter, Narragansett, North Kingston, Richmond, and South Kingstown towns in Washington County
South Carolina		
Charleston	MSA	Berkeley, Charleston, and Dorchester Counties
Columbia	MSA	Lexington and Richland Counties
Greenville–Spartanburg	MSA	Greenville, Pickens, and Spartanburg Counties
South Dakota		
Rapid City	MSA	Pennington County
Sioux Falls	MSA	Minnehaha County
Tennessee		
Chattanooga	MSA	Hamilton, Marion, and Sequatchie Counties, Tenn.; Catoosa, Dade, and Walker Counties, Ga.
Johnson City–Kingsport–Bristol	MSA	Carter, Hawkins, Sullivan, Unicoi, and Washington Counties, Tenn.; Bristol city, Scott, and Washington Counties, Va.
Knoxville	MSA	Anderson, Blount, Grainger, Jefferson, Knox, Sevier, and Union Counties
Memphis	MSA	Shelby and Tipton Counties, Tenn.; Crittenden County, Ark.
Nashville	MSA	Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson Counties
Texas		
Abilene	MSA	Taylor County
Amarillo	MSA	Potter and Randall Counties
Austin	MSA	Hays, Travis, and Williamson Counties
Beaumont–Port Arthur	MSA	Hardin, Jefferson, and Orange Counties
Brazoria	PMSA	Brazoria County
Brownsville–Harlingen	MSA	Cameron County
Bryan–College Station	MSA	Brazos County
Corpus Christi	MSA	Nueces and San Patricio Counties
Dallas	PMSA	Collin, Dallas, Denton, Ellis, Kaufman, and Rockwall Counties
El Paso	MSA	El Paso County
Fort Worth–Arlington	PMSA	Johnson, Parker, and Tarrant Counties
Galveston–Texas City	PMSA	Galveston County
Houston	PMSA	Fort Bend, Harris, Liberty, Montgomery, and Waller Counties
Killeen–Temple	MSA	Bell and Coryell Counties
Laredo	MSA	Webb County
Longview–Marshall	MSA	Gregg and Harrison Counties
Lubbock	MSA	Lubbock County
McAllen–Edinburg–Mission	MSA	Hidalgo County
Midland	MSA	Midland County
Odessa	MSA	Ector County
San Angelo	MSA	Tom Green County
San Antonio	MSA	Bexar, Comal, and Guadalupe Counties
Sherman–Denison	MSA	Grayson County
Texarkana	MSA	Bowie County, Tex.; and Miller County, Ark.
Tyler	MSA	Smith County
Victoria	MSA	Victoria County
Waco	MSA	McLennan County
Wichita Falls	MSA	Wichita County
Utah		
Provo–Orem	MSA	Utah County
Salt Lake City–Ogden	MSA	Davis, Salt Lake, and Weber Counties
Vermont		
Barre–Montpelier		East Granville town in Addison County; Groton and Ryegate towns in Caledonia County; Bolton and Huntington towns in Chittenden County; Bradford, Braintree, Brookfield, Chelsea, Corinth, Fairlee, Newbury, Orange, Randolph, Topsham, Vershire, Washington, West Fairlee and Williamstown towns in Orange County; and Barre city and Barre, Berlin, Cabot, Calais, Duxbury, East Montpelier, Fayston, Marshfield, Middlesex, Montpelier, Moretown, Northfield, Plainfield, Roxbury, Waitsfield, Warren and Waterbury towns in Washington County
Burlington	MSA	Burlington, South Burlington, and Winooski cities and Charlotte, Colchester, Essex, Hinesburg, Jericho, Milton, Richmond, St. George, Shelburne, and Williston towns in Chittenden County; Georgia town in Franklin County; Grand Isle and South Hero towns in Grand Isle County

Area definitions—Continued

State and area	Type of area	Definition
Virginia		
Bristol		Bristol city, and Scott and Washington Counties
Charlottesville	MSA	Charlottesville city and Albemarle, Fluvanna, and Greene Counties
Danville	MSA	Danville city and Pittsylvania County
Lynchburg	MSA	Lynchburg city, and Amherst and Campbell Counties
Norfolk-Virginia Beach-Newport News	MSA	Chesapeake, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach and Williamsburg cities, and Gloucester, James City, and York Counties
Northern Virginia		Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, Prince William, and Stafford Counties
Richmond-Petersburg	MSA	Colonial Heights, Hopewell, Petersburg, and Richmond cities, and Charles City, Chesterfield, Dinwiddie, Goochland, Hanover, Henrico, New Kent, Powhatan, and Prince George Counties
Roanoke	MSA	Roanoke and Salem cities, and Botetourt and Roanoke Counties
Washington		
Seattle	PMSA	King and Snohomish Counties
West Virginia		
Charleston	MSA	Kanawha and Putnam Counties
Huntington-Ashland	MSA	Cabell and Wayne Counties, W. Va.; Boyd, Carter, and Greenup Counties, Ky.; Lawrence County, Ohio
Parkersburg-Marietta	MSA	Wood County, W. Va.; Washington County, Ohio
Wheeling	MSA	Marshall and Ohio Counties, W. Va.; Belmont County, Ohio
Wisconsin		
Appleton-Oshkosh-Neenah	MSA	Calumet, Outagamie, and Winnebago Counties
Eau Claire	MSA	Chippewa and Eau Claire Counties
Green Bay	MSA	Brown County
Janesville-Beloit	MSA	Rock County
Kenosha	PMSA	Kenosha County
La Crosse	MSA	La Crosse County
Madison	MSA	Dane County
Milwaukee	PMSA	Milwaukee, Ozaukee, Washington, and Waukesha Counties
Racine	PMSA	Racine County
Sheboygan	MSA	Sheboygan County
Wausau	MSA	Marathon County

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 55,800 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of 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 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

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

CONCEPTS AND DEFINITIONS

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

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

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

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

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

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

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

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

Jobseekers are all unemployed persons who made

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

HISTORICAL COMPARABILITY

Change in lower age limit

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

Report on the Labor Force, February 1967.

Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

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

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

Changes in the occupational and industrial classification system

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

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

The 1980 census occupational classification system evolved

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

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

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

Changes in the sample design

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

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

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

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

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

ESTIMATING METHODS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

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

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

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

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

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

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

2. Approximately 90 percent of the intervals from 1.6

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

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

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

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

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

Table B. Standard errors for major employment status categories

(in thousands)

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

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

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

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

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

Table C. Standard errors for unemployment rates by major characteristics

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

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

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

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

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

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

Table D. Standard errors for estimates of monthly level

(in thousands)

Estimated monthly level	Characteristic ¹								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only
50	15	11	12	12	12	12	12	11	10
100	21	16	17	17	17	17	16	15	14
500	47	36	38	37	37	36	32	34	31
1,000	66	51	53	52	51	50	35	49	43
2,000	93	72	73	74	70	68	-	68	58
4,000	131	101	97	104	92	86	-	95	73
6,000	159	123	110	126	104	92	-	115	76
8,000	182	141	116	145	109	88	-	132	69
10,000	202	156	-	161	108	72	-	145	47
15,000	-	188	-	193	74	-	-	172	-
20,000	-	213	-	219	-	-	-	191	-
30,000	-	-	-	259	-	-	-	215	-
40,000	-	-	-	286	-	-	-	225	-
50,000	-	-	-	306	-	-	-	222	-
60,000	-	-	-	319	-	-	-	206	-
70,000	-	-	-	326	-	-	-	172	-
80,000	-	-	-	327	-	-	-	107	-
100,000	-	-	-	314	-	-	-	-	-
120,000	-	-	-	274	-	-	-	-	-
140,000	-	-	-	195	-	-	-	-	-

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

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

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

(in thousands)

Estimated monthly level	Characteristic ¹							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years
50	13	14	13	14	9	9	14	14
100	18	20	19	20	12	12	20	19
500	40	45	41	38	27	27	43	37
1,000	56	63	57	41	39	38	59	39
2,000	78	89	76		55	52	80	
4,000	108	124	95		77	68	100	
6,000	129	150	99		93	78	104	
8,000	144	-	89		107	82	94	
10,000	157		58		119	81	65	
15,000	177		-		143	59	-	
20,000	184				163	-		
30,000	-				192			
40,000					213			
50,000					228			
60,000					238			
70,000					244			
80,000					245			
100,000					237			
120,000					212			
140,000					160			

¹ See footnote 1, table D.

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

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

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

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

Standard error of year-to-year change =

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

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

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

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

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

or about 259,000.

Table F. Standard errors for unemployment rates

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

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

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

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

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

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

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

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

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

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

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

(In thousands)

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

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

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

industry indicated by the principal product or activity.

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

Industry employment

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

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

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

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

Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ESTIMATING METHODS

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

The "link relative" technique

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

Size and regional stratification

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

Benchmark adjustments

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

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

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

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

¹ The estimates are computed by multiplying the above product by bias adjustment factors, which compensate for the underrepresentation of newly formed enterprises and other sources of bias in the sample.

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

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

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

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

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

THE SAMPLE

Design

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

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

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

¹Less than 0.05 percent.

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

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

Coverage

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

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

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

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

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

Reliability

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

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

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

(In percent)

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

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

² Relative errors relate to 1982 data.

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

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

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

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

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

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

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

STATISTICS FOR STATES AND AREAS

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

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

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

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to 1982 data.

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

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

Table Q. Errors of preliminary employment estimates

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

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

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

COLLECTION

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

CONCEPTS

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

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

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

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

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

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

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

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

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

NOTES ON THE DATA

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

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

State and Area Labor Force Data (D table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

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

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

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

ESTIMATING METHODS

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

North Carolina, and Florida are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts, see "Household Data," above.

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

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

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

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

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

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force

is a function of: (a) the month of the year; (b) the level of the experienced unemployed; (c) the level of the experienced labor force; and (d) the proportion of the working age population that is considered "youth."

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

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

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

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

Seasonal Adjustment

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

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

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

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

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

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

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current year's estimates are based on actual data through March 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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