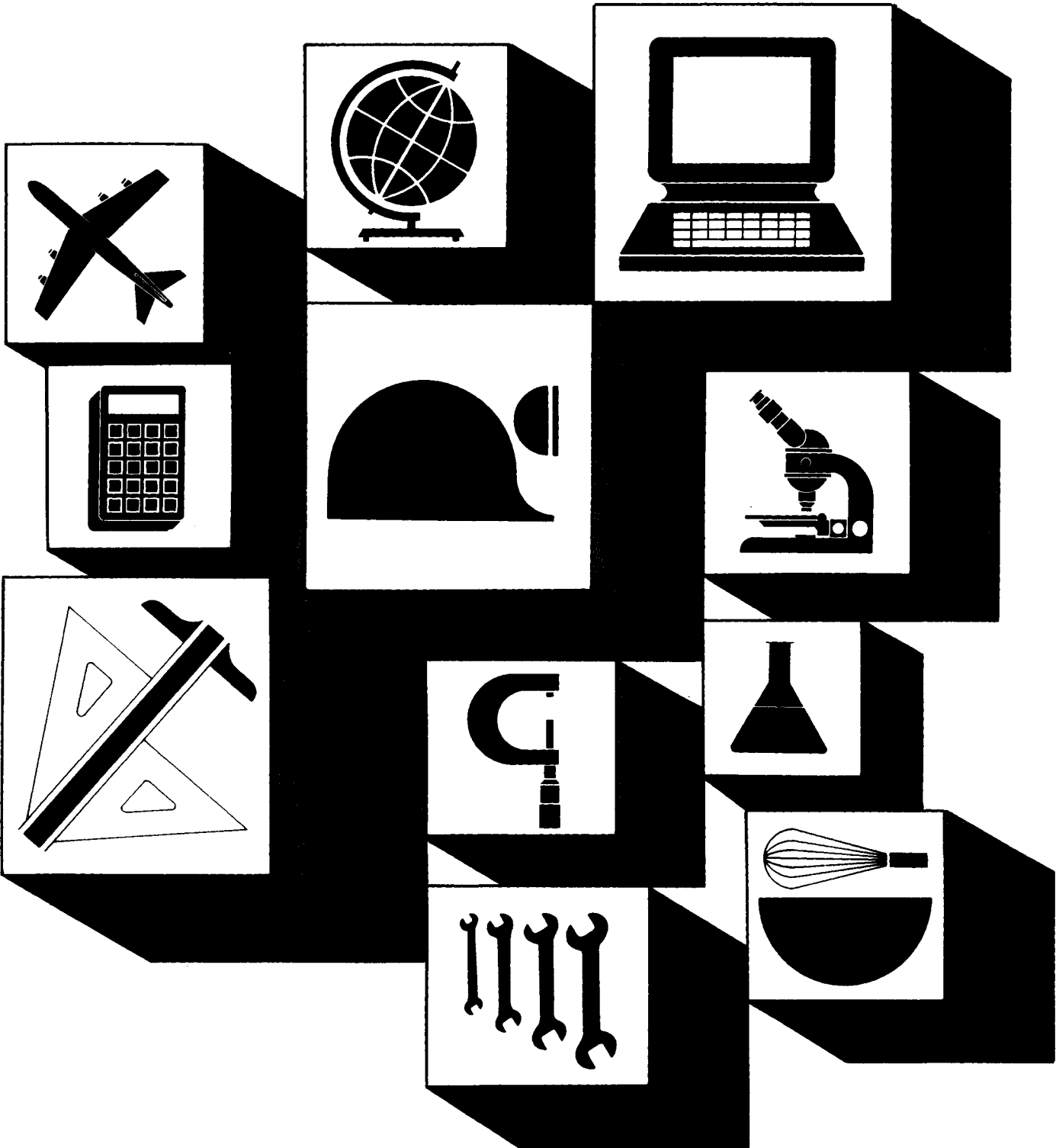




# EMPLOYMENT AND EARNINGS

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

In this issue: State and area annual averages  
Area definitions



# Employment and Earnings

Vol. 36 No. 5 May 1989

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## 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 1989

Unemployment rose in April and payroll employment showed little growth. The overall jobless rate was 5.2 percent and the civilian worker rate was 5.3 percent, each three-tenths of a point above March levels.

Nonagricultural payroll employment, as measured by the survey of business establishments, rose by 115,000 in April, the second straight month that the payroll survey has shown relatively small job gains. Total civilian employment, as measured by the survey of households, was about unchanged over the month.

## Unemployment

Both the number of unemployed persons and the civilian worker unemployment rate increased in April, after seasonal adjustment, offsetting much of the improvement that had occurred in February and March. The number of unemployed persons increased by 420,000 to a seasonally adjusted level of 6.5 million, and the civilian worker unemployment rate rose by 0.3 percentage point to 5.3 percent. The increase returned both figures to the levels that prevailed in the last quarter of 1988. (See table A-33.)

The unemployment rate for adult men rose four-tenths of a percentage point in April to 4.6 percent. The rate for whites also rose to 4.6 percent; the rate for Hispanics was up sharply over the month to 8.3 percent, reversing a decline of a similar magnitude in February. Jobless rates for adult women (4.7 percent), teenagers (14.4 percent), and blacks (10.8 percent) were little changed in April. (See tables A-33 and A-34.)

The median duration of unemployment, at 5.4 weeks, was unchanged from the previous month. The number of persons working part time for economic reasons—often referred to as the partially unemployed—edged up by 175,000 over the month to a seasonally adjusted level of 5.1 million. (See tables A-40 and A-35.)

## Civilian employment and the labor force

Total civilian employment was unchanged in April, after seasonal adjustment, at 117.1 million, and the employment-population ratio—the proportion of the population that is employed—held steady at 63.0 percent, the record high reached in March. (See table A-33.)

The civilian labor force rose by 400,000 over the month to 123.7 million. The labor force participation rate rose to 66.5 percent, returning to the high reached in January. Over the year,

the civilian labor force has grown by 2.3 million, three-fifths of which occurred among adult women. (See table A-33.)

## Industry payroll employment

Employment growth in nonagricultural establishments continued to slow, as payroll jobs increased by 115,000 in April to a seasonally adjusted level of 108.6 million. Payroll employment gains have averaged only 145,000 for the last 2 months, compared to 300,000 per month in the prior 12 months. In addition to being relatively weak, employment growth in April was very narrowly concentrated; the services industry alone accounted for 100,000 of the over-the-month gain.

The number of jobs in the goods-producing sector was unchanged in April, following 2 months of decline. Manufacturing employment was flat for the third consecutive month, in contrast to the October-to-January period when it added some 250,000 jobs. Employment in machinery, which has accounted for a quarter of manufacturing's growth in the last 2 years, has shown little change over the last 2 months. The number of jobs in electrical equipment has fallen by 25,000 in the last 5 months. The lumber and wood products industry has also declined recently, as employment was down by about 15,000 since January, largely a reflection of recent weakness in the construction industry.

Construction employment was unchanged in April, seasonally adjusted, following back-to-back declines in February and March. Employment in mining rose for the second consecutive month, as oil and gas extraction added 10,000 jobs in the last 3 months, following 7 months of job losses.

In the service-producing sector, the only significant employment growth took place in the services industry. Employment in that industry grew by 100,000 in April, even though health services was not as strong as usual (up 35,000) and business services, following an erratic pattern recently, was also weak (up about 15,000). Above-average growth was reported in several other services industries. After rising rapidly in the first quarter, employment in retail trade was unchanged over the month. Wholesale trade added 10,000 jobs in April, much less than its average pace of more than 25,000 per month since the end of 1987. Except for a slight decline in the real estate component, employment in the finance, insurance, and real estate industry was about unchanged.

## Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls showed an increase of 0.4 hour in April, seasonally adjusted, to 35.0 hours. Similarly, the manufacturing workweek increased 0.3 hour to 41.3 hours, while manufacturing overtime edged up 0.1 hour to 4.0 hours. These seasonally adjusted gains in weekly hours are overstated, however, because of the way the seasonal adjustment process is affected by the timing of the Easter week; historically, large April movements in hours (both increases and decreases) have been reversed in May. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, at 129.5 (1977=100), climbed 1.1 percent in April, after

seasonal adjustment. The manufacturing index rose 0.6 percent to 97.7. These increases were also affected by the overstatement in hours discussed above. (See table C-6.)

## Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers increased 0.7 percent in April, seasonally adjusted, following increases totaling only 0.3 percent over the prior 2 months. Average weekly earnings climbed by 1.9 percent, largely reflecting the movement in the hours series. Before seasonal adjustment, average hourly earnings rose by 5 cents to \$9.60, and average weekly earnings jumped \$5.56 to \$334.08. Over the past year, hourly earnings have risen by 4.0 percent and weekly earnings were up 4.3 percent. (See tables C-1 and C-7.)

Scheduled Release Dates			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
May	June 2	August	September 1
June	July 7	September	October 6
July	August 4	October	November 3

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

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
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 <sup>1</sup> .....	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 <sup>1</sup> .....	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 .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987 .....	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
1988 .....	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1988:</b>												
April .....	185,964	123,060	66.2	116,392	1,732	114,660	3,187	111,473	6,668	5.4	62,904	
May .....	186,088	122,917	66.1	116,117	1,714	114,403	3,110	111,293	6,800	5.5	63,171	
June .....	186,247	123,209	66.2	116,686	1,685	115,001	3,121	111,880	6,523	5.3	63,038	
July .....	186,402	123,331	66.2	116,707	1,673	115,034	3,060	111,974	6,624	5.4	63,071	
August .....	186,522	123,692	66.3	116,895	1,692	115,203	3,142	112,061	6,797	5.5	62,830	
September .....	186,666	123,688	66.3	117,074	1,704	115,370	3,176	112,194	6,614	5.3	62,978	
October .....	186,801	123,778	66.3	117,260	1,687	115,573	3,238	112,335	6,518	5.3	63,023	
November .....	186,949	124,215	66.4	117,652	1,705	115,947	3,238	112,709	6,563	5.3	62,734	
December .....	187,098	124,259	66.4	117,705	1,696	116,009	3,193	112,816	6,554	5.3	62,839	
<b>1989:</b>												
January .....	187,340	125,124	66.8	118,407	1,696	116,711	3,300	113,411	6,716	5.4	62,216	
February .....	187,461	124,865	66.6	118,537	1,684	116,853	3,223	113,630	6,328	5.1	62,596	
March .....	187,581	124,948	66.6	118,820	1,684	117,136	3,206	113,930	6,128	4.9	62,633	
April .....	187,708	125,343	66.8	118,797	1,684	117,113	3,104	114,009	6,546	5.2	62,365	

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

<sup>2</sup> The population and Armed Forces figures are not adjusted for

seasonal variation.

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



**HOUSEHOLD DATA  
HISTORICAL**

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1978 to date**

(Numbers in thousands)

Sex, year, and month	Noninstiti- tional 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				
<b>Annual averages</b>												
<b>MEN</b>												
1978 <sup>1</sup> .....	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 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987 .....	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1988:</b>												
April .....	89,225	68,462	76.7	64,866	1,569	63,297	2,476	60,821	3,596	5.3	20,763	
May .....	89,287	68,409	76.6	64,672	1,553	63,119	2,452	60,667	3,737	5.5	20,878	
June .....	89,367	68,436	76.6	64,894	1,523	63,371	2,448	60,923	3,542	5.2	20,931	
July .....	89,445	68,461	76.5	64,941	1,512	63,429	2,475	60,954	3,520	5.1	20,984	
August .....	89,504	68,685	76.7	64,931	1,529	63,402	2,491	60,911	3,754	5.5	20,819	
September .....	89,577	68,604	76.6	65,015	1,540	63,475	2,488	60,987	3,589	5.2	20,973	
October .....	89,637	68,569	76.5	64,976	1,526	63,450	2,544	60,906	3,593	5.2	21,068	
November .....	89,716	68,686	76.6	65,074	1,542	63,532	2,533	60,999	3,612	5.3	21,030	
December .....	89,792	68,638	76.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,154	
<b>1989:</b>												
January .....	89,914	69,032	76.8	65,322	1,532	63,790	2,501	61,289	3,710	5.4	20,882	
February .....	89,973	69,113	76.8	65,572	1,521	64,051	2,509	61,542	3,540	5.1	20,860	
March .....	90,032	69,190	76.9	65,920	1,521	64,399	2,497	61,902	3,270	4.7	20,842	
April .....	90,094	69,360	77.0	65,767	1,521	64,246	2,440	61,806	3,593	5.2	20,734	
<b>Annual averages</b>												
<b>WOMEN</b>												
1978 <sup>1</sup> .....	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 <sup>1</sup> .....	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987 .....	96,013	53,818	56.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1988:</b>												
April .....	96,739	54,598	56.4	51,526	163	51,363	711	50,652	3,072	5.6	42,141	
May .....	96,801	54,508	56.3	51,445	161	51,284	658	50,626	3,063	5.6	42,293	
June .....	96,880	54,773	56.5	51,792	162	51,630	673	50,957	2,981	5.4	42,107	
July .....	96,957	54,870	56.6	51,766	161	51,605	585	51,020	3,104	5.7	42,087	
August .....	97,018	55,007	56.7	51,964	163	51,801	651	51,150	3,043	5.5	42,011	
September .....	97,089	55,084	56.7	52,059	164	51,895	688	51,207	3,025	5.5	42,005	
October .....	97,164	55,209	56.8	52,284	161	52,123	694	51,429	2,925	5.3	41,955	
November .....	97,234	55,529	57.1	52,578	163	52,415	705	51,710	2,951	5.3	41,705	
December .....	97,306	55,621	57.2	52,650	162	52,488	716	51,772	2,971	5.3	41,685	
<b>1989:</b>												
January .....	97,427	56,091	57.6	53,085	164	52,921	799	52,122	3,006	5.4	41,336	
February .....	97,488	55,752	57.2	52,965	163	52,802	713	52,089	2,787	5.0	41,736	
March .....	97,550	55,758	57.2	52,900	163	52,737	709	52,028	2,858	5.1	41,792	
April .....	97,614	55,983	57.4	53,029	163	52,866	663	52,203	2,953	5.3	41,631	

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

<sup>2</sup> The population and Armed Forces figures are not adjusted for seasonal variation.

**A-3. Employment status of the civilian noninstitutional population 16 years and over, 1955 to date**

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
Annual averages								
1955 .....	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
1956 .....	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957 .....	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958 .....	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959 .....	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <sup>1</sup> .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974 .....	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975 .....	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976 .....	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977 .....	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup> .....	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 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987 .....	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988 .....	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
Monthly data, seasonally adjusted <sup>2</sup>								
<b>1988:</b>								
April .....	184,232	121,328	65.9	114,660	6,668	5.5	5.4	5.6
May .....	184,374	121,203	65.7	114,403	6,800	5.6	5.6	5.6
June .....	184,562	121,524	65.8	115,001	6,523	5.4	5.3	5.5
July .....	184,729	121,658	65.9	115,034	6,624	5.4	5.3	5.7
August .....	184,830	122,000	66.0	115,203	6,797	5.6	5.6	5.5
September .....	184,962	121,984	66.0	115,370	6,614	5.4	5.4	5.5
October .....	185,114	122,091	66.0	115,573	6,518	5.3	5.4	5.3
November .....	185,244	122,510	66.1	115,947	6,563	5.4	5.4	5.3
December .....	185,402	122,563	66.1	116,009	6,554	5.3	5.3	5.4
<b>1989:</b>								
January .....	185,644	123,428	66.5	116,711	6,716	5.4	5.5	5.4
February .....	185,777	123,181	66.3	116,853	6,328	5.1	5.2	5.0
March .....	185,897	123,264	66.3	117,136	6,128	5.0	4.8	5.1
April .....	186,024	123,659	66.5	117,113	6,546	5.3	5.3	5.3

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

Explanatory Notes.  
<sup>2</sup> 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—Continued**

(Numbers in thousands)

Age, sex, and race	April 1989										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	20,956	13,121	62.6	11,699	1,422	10.8	7,835	2,836	1,563	774	2,661
16 to 19 years .....	2,173	783	36.0	546	236	30.2	1,390	109	1,184	8	89
16 to 17 years .....	1,099	244	22.2	171	73	30.0	856	31	791	2	32
18 to 19 years .....	1,074	539	50.2	376	163	30.3	534	78	393	6	58
20 to 24 years .....	2,491	1,748	70.2	1,458	290	16.6	743	312	204	22	205
25 to 54 years .....	11,728	9,357	79.8	8,519	838	9.0	2,372	1,294	173	339	566
25 to 34 years .....	5,299	4,207	79.4	3,727	480	11.4	1,092	646	108	84	254
25 to 29 years .....	2,677	2,110	78.8	1,848	263	12.5	568	339	66	38	125
30 to 34 years .....	2,622	2,098	80.0	1,879	218	10.4	524	307	43	46	129
35 to 44 years .....	3,855	3,197	82.9	2,962	235	7.3	659	333	42	95	189
35 to 39 years .....	2,182	1,810	83.0	1,659	150	8.3	372	201	26	38	108
40 to 44 years .....	1,674	1,387	82.9	1,303	84	6.1	287	132	16	57	81
45 to 54 years .....	2,574	1,953	75.9	1,829	124	6.3	621	315	23	160	123
45 to 49 years .....	1,370	1,041	76.0	980	60	5.8	330	174	16	88	52
50 to 54 years .....	1,204	912	75.7	849	64	7.0	292	141	7	72	72
55 to 64 years .....	2,122	984	46.4	946	39	3.9	1,137	443	1	192	501
55 to 59 years .....	1,103	596	54.0	575	21	3.5	507	235		95	177
60 to 64 years .....	1,019	388	38.1	370	18	4.6	630	208	1	97	324
65 years and over .....	2,441	249	10.2	231	19	7.5	2,192	678	1	213	1,300
65 to 69 years .....	897	154	17.2	138	17	11.0	742	235	1	68	438
70 years and over .....	1,545	95	6.1	94	2	2.1	1,450	443		145	862
<b>Men</b>											
16 years and over .....	9,409	6,555	69.7	5,775	780	11.9	2,854	111	761	381	1,600
16 to 19 years .....	1,071	390	36.4	259	131	33.6	681	14	598	5	64
16 to 17 years .....	553	115	20.8	75	40	35.1	439	7	405		27
18 to 19 years .....	517	275	53.2	185	91	32.9	242	7	193	5	38
20 to 24 years .....	1,135	883	77.8	739	144	16.3	251	7	116	18	110
25 to 54 years .....	5,260	4,614	87.7	4,149	465	10.1	646	49	47	199	352
25 to 34 years .....	2,400	2,133	88.9	1,882	251	11.7	267	22	22	57	166
25 to 29 years .....	1,212	1,078	89.0	958	121	11.2	134	14	17	26	77
30 to 34 years .....	1,188	1,055	88.8	924	130	12.3	133	8	6	31	89
35 to 44 years .....	1,719	1,532	89.1	1,401	131	8.5	188	14	15	53	106
35 to 39 years .....	974	882	90.5	787	94	10.7	92	6	6	24	56
40 to 44 years .....	746	650	87.2	614	36	5.6	96	8	9	29	50
45 to 54 years .....	1,141	950	83.2	865	85	8.9	192	13	10	89	80
45 to 49 years .....	609	519	85.2	476	43	8.3	90	3	7	50	30
50 to 54 years .....	533	431	80.9	389	42	9.7	102	10	3	39	50
55 to 64 years .....	958	524	54.7	497	27	5.1	434	21		91	321
55 to 59 years .....	499	316	63.3	304	13	4.0	183	11	1	51	121
60 to 64 years .....	459	207	45.3	193	14	6.7	251	10		41	200
65 years and over .....	984	143	14.6	130	13	9.0	841	20		68	753
65 to 69 years .....	392	82	21.1	72	11	12.9	309	5		26	278
70 years and over .....	593	61	10.3	59	2	( <sup>1</sup> )	532	15		42	475
<b>Women</b>											
16 years and over .....	11,548	6,566	56.9	5,924	642	9.8	4,981	2,726	802	392	1,061
16 to 19 years .....	1,102	393	35.7	287	105	26.8	710	95	586	3	25
16 to 17 years .....	546	128	23.6	96	33	25.4	417	24	386	2	5
18 to 19 years .....	557	264	47.4	191	73	27.5	293	71	200	1	20
20 to 24 years .....	1,356	865	63.8	719	146	16.9	492	305	88	4	95
25 to 54 years .....	6,468	4,743	73.3	4,370	373	7.9	1,726	1,245	126	140	214
25 to 34 years .....	2,899	2,075	71.5	1,845	230	11.1	825	624	86	27	88
25 to 29 years .....	1,465	1,032	70.4	890	142	13.7	434	325	49	12	48
30 to 34 years .....	1,434	1,043	72.7	955	88	8.4	391	299	37	15	40
35 to 44 years .....	2,136	1,665	78.0	1,561	104	6.2	471	319	27	42	83
35 to 39 years .....	1,208	928	76.8	872	56	6.1	280	195	20	14	52
40 to 44 years .....	928	737	79.4	689	48	6.5	191	124	7	28	31
45 to 54 years .....	1,433	1,003	70.0	964	39	3.9	430	302	13	71	43
45 to 49 years .....	761	522	68.5	504	17	3.3	240	171	9	38	22
50 to 54 years .....	671	481	71.7	460	22	4.5	190	131	4	33	22
55 to 64 years .....	1,164	460	39.6	448	12	2.6	704	422	1	101	180
55 to 59 years .....	604	279	46.3	271	8	2.9	324	224		44	56
60 to 64 years .....	560	181	32.3	177	4	2.2	379	198	1	56	124
65 years and over .....	1,457	106	7.3	100	6	5.5	1,351	658	1	145	547
65 to 69 years .....	505	72	14.2	66	6	( <sup>1</sup> )	433	230	1	42	160
70 years and over .....	952	34	3.6	35	-	( <sup>1</sup> )	918	428		103	387

<sup>1</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age and sex	April 1989								
	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	26,926	17,034	63.3	15,406	185	15,221	1,628	9.6	9,892
16 to 19 years .....	2,694	968	35.9	721	6	715	247	25.5	1,726
16 to 17 years .....	1,378	329	23.8	253	3	250	75	23.0	1,049
18 to 19 years .....	1,316	640	48.6	468	3	465	172	26.9	677
20 to 24 years .....	3,163	2,176	68.8	1,852	26	1,826	324	14.9	987
25 to 54 years .....	15,460	12,271	79.4	11,301	117	11,183	970	7.9	3,189
25 to 34 years .....	6,848	5,363	78.3	4,821	58	4,763	542	10.1	1,485
25 to 29 years .....	3,429	2,637	76.9	2,345	30	2,315	292	11.1	793
30 to 34 years .....	3,418	1,489	43.5	2,476	29	2,448	250	16.8	692
35 to 44 years .....	5,151	4,239	82.3	3,967	46	3,922	272	6.4	912
35 to 39 years .....	2,912	2,388	82.0	2,219	20	2,199	169	7.1	524
40 to 44 years .....	2,239	1,850	82.6	1,748	25	1,723	102	5.5	389
45 to 54 years .....	3,462	2,668	77.1	2,513	14	2,498	156	5.8	793
45 to 49 years .....	1,902	1,476	77.6	1,398	6	1,392	79	5.4	425
50 to 54 years .....	1,559	1,192	76.5	1,114	9	1,107	77	6.5	367
55 to 64 years .....	2,610	1,290	49.4	1,222	18	1,204	68	5.3	1,320
55 to 59 years .....	1,369	784	57.3	754	14	740	30	3.8	585
60 to 64 years .....	1,241	506	40.8	468	3	464	38	7.5	735
65 years and over .....	2,998	329	11.0	310	17	293	19	5.8	2,669
65 to 69 years .....	1,126	206	18.3	189	7	182	17	8.3	920
70 to 74 years .....	784	86	11.0	84	8	77	2	2.3	697
75 years and over .....	1,087	37	3.4	37	2	34	-	( <sup>1</sup> )	1,051
<b>Men</b>									
16 years and over .....	12,234	8,642	70.6	7,738	144	7,594	904	10.5	3,592
16 to 19 years .....	1,318	479	36.3	341	5	336	138	28.7	839
16 to 17 years .....	678	145	21.4	103	2	100	43	29.3	532
18 to 19 years .....	640	333	52.0	238	3	236	95	28.5	307
20 to 24 years .....	1,500	1,129	75.3	968	14	954	161	14.2	371
25 to 54 years .....	6,993	6,151	87.9	5,611	99	5,512	541	8.8	842
25 to 34 years .....	3,149	2,778	88.2	2,488	53	2,436	290	10.4	371
25 to 29 years .....	1,563	1,361	87.1	1,224	29	1,195	137	10.1	202
30 to 34 years .....	1,586	1,417	89.3	1,264	24	1,241	153	10.8	169
35 to 44 years .....	2,309	2,062	89.3	1,911	36	1,874	151	7.3	248
35 to 39 years .....	1,321	1,198	90.7	1,087	17	1,070	111	9.3	123
40 to 44 years .....	988	863	87.4	824	19	805	39	4.6	125
45 to 54 years .....	1,535	1,311	85.4	1,212	10	1,202	99	7.6	223
45 to 49 years .....	838	733	87.5	680	4	676	54	7.3	104
50 to 54 years .....	697	578	82.9	532	7	526	46	7.9	119
55 to 64 years .....	1,169	690	59.0	638	9	629	52	7.6	479
55 to 59 years .....	618	416	67.2	396	6	390	19	4.7	203
60 to 64 years .....	551	274	49.8	242	3	239	33	12.0	277
65 years and over .....	1,253	193	15.4	180	16	163	13	6.9	1,060
65 to 69 years .....	513	116	22.6	105	7	98	11	9.5	397
70 to 74 years .....	332	54	16.3	52	7	45	2	( <sup>1</sup> )	277
75 years and over .....	408	23	5.6	23	2	20	-	( <sup>1</sup> )	386
<b>Women</b>									
16 years and over .....	14,692	8,391	57.1	7,668	40	7,627	724	8.6	6,300
16 to 19 years .....	1,376	490	35.6	380	1	379	110	22.4	887
16 to 17 years .....	700	183	26.2	150	1	150	33	17.9	517
18 to 19 years .....	676	306	45.3	229	-	229	77	25.1	370
20 to 24 years .....	1,663	1,046	62.9	883	12	872	163	15.6	616
25 to 54 years .....	8,467	6,120	72.3	5,690	18	5,671	429	7.0	2,347
25 to 34 years .....	3,698	2,585	69.9	2,333	5	2,327	252	9.7	1,114
25 to 29 years .....	1,866	1,276	68.3	1,121	1	1,120	155	12.1	591
30 to 34 years .....	1,832	1,309	71.5	1,212	5	1,207	97	7.4	523
35 to 44 years .....	2,842	2,177	76.6	2,057	9	2,047	121	5.6	665
35 to 39 years .....	1,591	1,190	74.8	1,132	3	1,129	58	4.9	401
40 to 44 years .....	1,251	987	78.9	924	6	918	63	6.4	264
45 to 54 years .....	1,927	1,357	70.4	1,301	4	1,297	56	4.2	570
45 to 49 years .....	1,064	743	69.8	718	2	716	25	3.4	321
50 to 54 years .....	862	614	71.2	582	2	581	31	5.1	248
55 to 64 years .....	1,441	600	41.6	584	8	576	16	2.7	841
55 to 59 years .....	751	368	49.1	358	8	350	11	2.9	383
60 to 64 years .....	690	231	33.5	226	-	226	5	2.3	459
65 years and over .....	1,745	136	7.8	130	1	130	6	4.3	1,608
65 to 69 years .....	613	90	14.7	84	-	84	6	6.6	523
70 to 74 years .....	452	32	7.1	32	1	32	-	( <sup>1</sup> )	420
75 years and over .....	679	14	2.1	14	-	14	-	( <sup>1</sup> )	665

<sup>1</sup> 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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
<b>TOTAL</b>								
Civilian noninstitutional population .....	184,232	186,024	80,326	81,413	89,307	90,318	14,598	14,293
Civilian labor force .....	120,264	122,576	62,442	63,370	50,465	51,855	7,357	7,350
Percent of population .....	65.3	65.9	77.7	77.8	56.5	57.4	50.4	51.4
Employed .....	113,905	116,347	59,504	60,430	48,162	49,578	6,239	6,338
Agriculture .....	3,193	3,116	2,280	2,277	637	600	276	240
Nonagricultural industries .....	110,712	113,231	57,224	58,154	47,525	48,978	5,962	6,098
Unemployed .....	6,359	6,229	2,938	2,940	2,303	2,277	1,118	1,012
Unemployment rate .....	5.3	5.1	4.7	4.6	4.6	4.4	15.2	13.8
Not in labor force .....	63,968	63,448	17,884	18,042	38,843	38,463	7,241	6,943
<b>White</b>								
Civilian noninstitutional population .....	157,943	159,098	69,724	70,496	76,334	77,003	11,885	11,599
Civilian labor force .....	103,758	105,542	54,430	55,207	42,882	43,954	6,445	6,382
Percent of population .....	65.7	66.3	78.1	78.3	56.2	57.1	54.2	55.0
Employed .....	99,141	100,941	52,275	53,033	41,297	42,291	5,569	5,617
Agriculture .....	2,961	2,932	2,095	2,137	605	561	261	234
Nonagricultural industries .....	96,179	98,009	50,180	50,896	40,692	41,730	5,308	5,383
Unemployed .....	4,617	4,601	2,155	2,173	1,586	1,663	876	765
Unemployment rate .....	4.5	4.4	4.0	3.9	3.7	3.8	13.6	12.0
Not in labor force .....	54,185	53,556	15,294	15,290	33,451	33,049	5,439	5,217
<b>Black</b>								
Civilian noninstitutional population .....	20,622	20,956	8,183	8,338	10,260	10,445	2,179	2,173
Civilian labor force .....	12,941	13,121	6,142	6,165	6,062	6,174	737	783
Percent of population .....	62.8	62.6	75.1	73.9	59.1	59.1	33.8	36.0
Employed .....	11,394	11,699	5,467	5,515	5,412	5,637	516	546
Agriculture .....	166	138	139	107	15	26	12	5
Nonagricultural industries .....	11,228	11,561	5,328	5,408	5,397	5,611	503	541
Unemployed .....	1,547	1,422	675	650	650	536	221	236
Unemployment rate .....	12.0	10.8	11.0	10.5	10.7	8.7	30.0	30.2
Not in labor force .....	7,681	7,835	2,040	2,173	4,199	4,272	1,442	1,390

**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 1989									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	16,050	7,878	49.1	7,105	1,151	5,954	771	131	640	9.8
16 to 19 years .....	11,072	4,910	44.3	4,330	373	3,958	580	76	503	11.8
20 to 24 years .....	4,978	2,968	59.6	2,774	778	1,996	192	55	137	6.5
High school .....	8,720	3,789	43.5	3,287	230	3,057	502	67	434	13.2
College .....	7,330	4,087	55.8	3,818	920	2,898	270	63	206	6.6
Full-time students .....	6,431	3,270	50.8	3,033	377	2,656	237	44	193	7.3
Part-time students .....	899	817	90.9	785	543	242	32	19	13	3.9
Men, 16 to 24 years .....	8,150	3,930	48.2	3,508	637	2,871	422	68	354	10.7
16 to 19 years .....	5,579	2,459	44.1	2,123	227	1,897	336	45	291	13.7
20 to 24 years .....	2,572	1,471	57.2	1,385	411	974	86	23	63	5.9
High school .....	4,578	2,005	43.8	1,706	163	1,543	299	38	280	14.9
College .....	3,574	1,928	53.9	1,802	474	1,328	124	30	94	8.4
Full-time students .....	3,191	1,569	49.2	1,458	225	1,231	114	25	89	7.2
Part-time students .....	383	357	93.1	347	250	97	10	5	5	2.8
Women, 16 to 24 years .....	7,899	3,945	49.9	3,596	513	3,083	349	63	286	8.8
16 to 19 years .....	5,493	2,451	44.6	2,207	146	2,061	244	31	212	9.9
20 to 24 years .....	2,406	1,495	62.1	1,389	367	1,022	106	31	74	7.1
High school .....	4,144	1,784	43.1	1,581	67	1,514	203	29	174	11.4
College .....	3,756	2,161	57.5	2,015	446	1,569	146	34	112	6.8
Full-time students .....	3,240	1,701	52.5	1,577	152	1,425	124	19	104	7.3
Part-time students .....	516	461	89.3	439	294	145	22	14	8	4.8
<b>White</b>										
Total, 16 to 24 years .....	13,137	6,825	52.0	6,221	981	5,241	604	96	508	8.8
16 to 19 years .....	8,936	4,273	47.8	3,825	325	3,500	448	53	395	10.5
20 to 24 years .....	4,201	2,552	60.7	2,396	656	1,741	156	43	113	6.1
Men .....	6,657	3,412	51.3	3,086	543	2,543	328	52	275	9.6
Women .....	6,481	3,413	52.7	3,136	438	2,698	276	44	233	8.1
High school .....	6,959	3,289	47.3	2,898	200	2,698	391	43	348	11.9
College .....	6,178	3,536	57.2	3,323	781	2,542	213	53	160	6.0
Full-time students .....	5,424	2,853	52.6	2,667	326	2,341	185	37	148	6.5
Part-time students .....	754	683	90.6	656	455	201	27	16	12	4.0
<b>Black</b>										
Total, 16 to 24 years .....	2,151	765	35.5	598	117	481	166	34	132	21.8
16 to 19 years .....	1,886	493	26.2	363	43	320	130	22	108	26.3
20 to 24 years .....	464	271	58.4	235	75	160	37	12	24	13.5
Men .....	1,078	364	33.7	270	57	213	94	16	78	25.9
Women .....	1,073	401	37.4	329	61	268	72	18	54	18.1
High school .....	1,401	380	27.1	271	25	246	109	24	85	28.6
College .....	750	385	51.3	327	92	235	58	11	47	15.0
Full-time students .....	657	297	45.2	244	39	205	53	7	46	17.8
Part-time students .....	92	88	95.0	83	53	30	5	3	2	5.8
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,233	496	40.2	425	107	319	71	12	59	14.2
16 to 19 years .....	904	291	32.2	234	34	201	56	10	46	19.4
20 to 24 years .....	329	205	62.4	191	73	118	14	2	13	7.0
Men .....	629	263	41.7	219	68	150	44	10	34	16.7
Women .....	603	233	38.7	207	38	169	27	2	25	11.4
High school .....	842	267	31.7	203	36	167	64	11	52	23.9
College .....	391	229	58.7	222	71	151	7	-	7	3.0
Full-time students .....	295	148	50.3	144	22	122	5	-	4	3.1
Part-time students .....	95	81	84.8	79	49	29	2	-	2	2.9

See footnotes at end of table.



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	April 1989									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	16,345	13,429	82.2	12,031	10,346	1,685	1,399	1,285	113	10.4
16 to 19 years .....	3,221	2,440	75.8	2,008	1,514	494	433	390	42	17.7
20 to 24 years .....	13,124	10,989	83.7	10,023	8,832	1,191	966	895	71	8.8
Less than 4 years of high school .....	4,002	2,660	66.5	2,106	1,708	398	554	511	43	20.8
4 years of high school .....	8,420	7,110	84.4	6,464	5,522	942	646	590	56	9.1
1 to 3 years of college .....	2,595	2,372	91.4	2,215	1,972	243	157	143	14	6.6
4 years of college or more .....	1,328	1,288	97.0	1,246	1,144	103	42	40	2	3.3
<b>Men, 16 to 24 years .....</b>	<b>7,817</b>	<b>7,188</b>	<b>92.0</b>	<b>6,460</b>	<b>5,816</b>	<b>644</b>	<b>728</b>	<b>715</b>	<b>13</b>	<b>10.1</b>
16 to 19 years .....	1,582	1,333	84.3	1,110	896	214	223	222	1	16.7
20 to 24 years .....	6,235	5,855	93.9	5,350	4,920	430	505	493	12	8.6
Less than 4 years of high school .....	2,109	1,782	84.5	1,473	1,264	209	309	309	-	17.3
4 years of high school .....	4,054	3,798	93.7	3,471	3,135	336	327	315	12	8.6
1 to 3 years of college .....	1,118	1,085	97.0	1,018	938	80	67	67	-	6.1
4 years of college or more .....	536	523	97.6	498	479	20	25	23	2	4.8
<b>Women, 16 to 24 years .....</b>	<b>8,528</b>	<b>6,242</b>	<b>73.2</b>	<b>5,571</b>	<b>4,530</b>	<b>1,041</b>	<b>671</b>	<b>570</b>	<b>100</b>	<b>10.7</b>
16 to 19 years .....	1,640	1,107	67.5	897	617	280	210	168	42	19.0
20 to 24 years .....	6,888	5,134	74.5	4,673	3,912	761	461	402	59	9.0
Less than 4 years of high school .....	1,893	878	46.4	633	444	189	245	202	43	27.9
4 years of high school .....	4,366	3,311	75.8	2,993	2,387	606	319	275	44	9.6
1 to 3 years of college .....	1,477	1,287	87.2	1,197	1,034	163	90	76	14	7.0
4 years of college or more .....	792	765	96.6	748	665	83	17	17	-	2.2
<b>White</b>										
Total, 16 to 24 years .....	13,400	11,337	84.6	10,341	8,939	1,402	995	911	84	8.8
16 to 19 years .....	2,663	2,109	79.2	1,792	1,363	429	317	287	30	15.0
20 to 24 years .....	10,737	9,227	85.9	8,549	7,576	973	678	624	54	7.3
Men .....	6,493	6,099	93.9	5,573	5,079	494	526	514	12	8.6
Women .....	6,908	5,238	75.8	4,768	3,860	908	470	397	73	9.0
Less than 4 years of high school .....	3,228	2,278	70.6	1,867	1,524	343	411	380	31	18.1
4 years of high school .....	6,888	5,978	86.8	5,542	4,766	776	436	396	40	7.3
1 to 3 years of college .....	2,132	1,961	92.0	1,848	1,647	200	113	102	11	5.8
4 years of college or more .....	1,153	1,119	97.1	1,084	1,002	82	35	33	2	3.1
<b>Black</b>										
Total, 16 to 24 years .....	2,513	1,766	70.3	1,406	1,154	253	359	330	30	20.4
16 to 19 years .....	487	289	59.4	183	121	63	106	94	12	36.7
20 to 24 years .....	2,026	1,477	72.9	1,223	1,033	190	253	236	17	17.1
Men .....	1,128	910	80.7	729	595	134	181	179	2	19.9
Women .....	1,385	856	61.8	678	558	119	179	151	28	20.9
Less than 4 years of high school .....	674	320	47.5	186	140	46	134	123	11	41.9
4 years of high school .....	1,353	1,002	74.1	812	659	153	190	174	16	19.0
1 to 3 years of college .....	375	336	89.5	303	262	41	32	30	3	9.6
4 years of college or more .....	111	108	97.2	105	92	13	3	3	-	2.6
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,055	1,602	77.9	1,404	1,234	170	197	187	10	12.3
16 to 19 years .....	484	338	69.8	271	219	52	67	64	3	19.8
20 to 24 years .....	1,571	1,264	80.4	1,133	1,015	118	131	123	7	10.3
Men .....	1,051	971	92.4	885	787	98	86	82	4	8.9
Women .....	1,004	631	62.8	519	447	72	111	105	7	17.7
Less than 4 years of high school .....	1,023	724	70.8	614	535	79	110	105	5	15.2
4 years of high school .....	821	685	83.4	623	547	76	62	56	6	9.0
1 to 3 years of college .....	172	159	92.1	133	118	15	25	25	-	15.9
4 years of college or more .....	38	34	( <sup>2</sup> )	34	34	-	-	-	-	( <sup>2</sup> )

<sup>1</sup> 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.

<sup>2</sup> 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. 1988	Apr. 1989	Total		Employed		Unemployed			
			Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Number		Percent of labor force	
							Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
<b>VIETNAM-ERA VETERANS</b>										
Total, 30 years and over .....	7,891	7,918	7,290	7,212	6,981	6,939	309	273	4.2	3.8
30 to 44 years .....	5,984	5,590	5,712	5,270	5,452	5,048	260	222	4.6	4.2
30 to 34 years .....	750	529	707	482	648	448	59	34	8.3	7.1
35 to 39 years .....	2,256	1,840	2,152	1,731	2,071	1,639	81	92	3.8	5.3
40 to 44 years .....	2,978	3,221	2,853	3,057	2,733	2,961	120	96	4.2	3.1
45 years and over .....	1,907	2,328	1,578	1,942	1,529	1,891	49	51	3.1	2.6
<b>NONVETERANS</b>										
Total, 30 to 44 years .....	20,206	21,259	19,025	20,100	18,221	19,239	804	861	4.2	4.3
30 to 34 years .....	8,993	9,303	8,495	8,840	8,114	8,438	381	402	4.5	4.5
35 to 39 years .....	6,718	7,302	6,351	6,924	6,114	6,624	237	300	3.7	4.3
40 to 44 years .....	4,495	4,654	4,179	4,336	3,993	4,177	186	159	4.5	3.7

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Sex, age, and race	April 1989							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	95,439	93,781	1,658	20,907	17,782	3,125	4,997	1,232
16 to 19 years .....	1,867	1,793	94	4,452	4,131	321	467	546
16 to 17 years .....	237	223	14	2,149	2,064	85	93	343
18 to 19 years .....	1,649	1,570	79	2,303	2,067	236	374	203
20 years and over .....	93,552	91,988	1,564	16,455	13,651	2,804	4,530	687
20 to 24 years .....	9,610	9,391	219	3,187	2,613	574	949	208
25 years and over .....	83,943	82,597	1,348	13,269	11,039	2,230	3,581	478
25 to 54 years .....	72,899	71,738	1,161	9,374	7,544	1,830	3,250	363
55 years and over .....	11,043	10,859	184	3,895	3,495	400	331	114
<b>Men, 16 years and over .....</b>	<b>56,781</b>	<b>55,805</b>	<b>976</b>	<b>6,883</b>	<b>5,590</b>	<b>1,293</b>	<b>2,990</b>	<b>508</b>
16 to 19 years .....	1,123	1,068	55	2,110	1,953	157	267	292
20 years and over .....	55,658	54,737	921	4,773	3,637	1,136	2,723	216
20 to 24 years .....	5,330	5,203	127	1,405	1,133	272	516	75
25 years and over .....	50,327	49,533	794	3,368	2,504	864	2,208	141
25 to 54 years .....	43,293	42,622	671	1,777	1,064	713	1,985	81
55 years and over .....	7,034	6,911	123	1,592	1,441	151	223	60
<b>Women, 16 years and over .....</b>	<b>38,658</b>	<b>37,976</b>	<b>682</b>	<b>14,024</b>	<b>12,192</b>	<b>1,832</b>	<b>2,007</b>	<b>724</b>
16 to 19 years .....	763	724	39	2,341	2,178	163	200	254
20 years and over .....	37,894	37,251	643	11,684	10,015	1,669	1,807	470
20 to 24 years .....	4,280	4,188	92	1,783	1,480	303	433	133
25 years and over .....	33,616	33,064	552	9,901	8,535	1,366	1,373	337
25 to 54 years .....	29,607	29,117	490	7,597	6,480	1,117	1,265	282
55 years and over .....	4,009	3,947	62	2,304	2,055	249	108	55
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>49,946</b>	<b>49,105</b>	<b>841</b>	<b>5,980</b>	<b>4,985</b>	<b>995</b>	<b>2,199</b>	<b>395</b>
16 to 19 years .....	1,013	961	52	1,880	1,748	132	193	228
20 years and over .....	48,932	48,144	788	4,102	3,238	864	2,006	167
20 to 24 years .....	4,609	4,493	116	1,157	975	182	372	58
25 years and over .....	44,323	43,651	672	2,944	2,262	682	1,634	110
25 to 54 years .....	37,995	37,422	573	1,464	910	554	1,462	65
55 years and over .....	6,328	6,229	99	1,479	1,352	127	173	45
<b>Women, 16 years and over .....</b>	<b>32,462</b>	<b>31,913</b>	<b>549</b>	<b>12,553</b>	<b>11,069</b>	<b>1,484</b>	<b>1,404</b>	<b>603</b>
16 to 19 years .....	675	650	25	2,049	1,912	137	147	197
20 years and over .....	31,787	31,263	524	10,504	9,157	1,347	1,257	406
20 to 24 years .....	3,622	3,552	70	1,557	1,316	241	294	109
25 years and over .....	28,164	27,711	453	8,947	7,841	1,106	962	297
25 to 54 years .....	24,625	24,224	401	6,889	5,982	907	867	251
55 years and over .....	3,540	3,487	53	2,058	1,859	199	95	46
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,119</b>	<b>4,996</b>	<b>123</b>	<b>655</b>	<b>408</b>	<b>247</b>	<b>673</b>	<b>107</b>
16 to 19 years .....	88	87	1	171	147	24	69	62
20 years and over .....	5,031	4,909	122	484	261	223	605	45
20 to 24 years .....	564	555	9	175	94	81	126	18
25 years and over .....	4,467	4,353	114	310	168	142	478	28
25 to 54 years .....	3,925	3,834	91	224	99	125	453	14
55 years and over .....	542	519	23	87	69	18	25	14
<b>Women, 16 years and over .....</b>	<b>4,827</b>	<b>4,720</b>	<b>107</b>	<b>1,097</b>	<b>799</b>	<b>298</b>	<b>529</b>	<b>113</b>
16 to 19 years .....	74	62	12	212	187	25	47	58
20 years and over .....	4,752	4,657	95	885	612	273	481	55
20 to 24 years .....	544	524	20	175	118	57	122	24
25 years and over .....	4,207	4,133	74	710	494	216	359	31
25 to 54 years .....	3,848	3,783	65	522	350	172	349	23
55 years and over .....	359	350	9	188	144	44	10	8

<sup>1</sup> 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 1989									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	98,777	66.4	93,705	5,072	5.1	50,057	21,813	8,623	2,611	17,010
Husbands .....	40,325	78.5	39,097	1,228	3.0	11,031	200	225	1,042	9,564
With employed wife .....	26,556	92.0	25,812	744	2.8	2,310	61	131	379	1,739
With unemployed wife .....	907	88.4	830	77	8.5	120	-	14	27	80
With wife not in labor force .....	12,862	59.9	12,455	408	3.2	8,602	140	80	637	7,745
Wives .....	29,892	58.2	28,866	1,027	3.4	21,464	17,054	404	442	3,565
With employed husband .....	26,642	68.1	25,812	830	3.1	12,455	11,068	348	154	884
With unemployed husband .....	821	66.8	744	77	9.4	408	348	12	10	38
With husband not in labor force .....	2,429	22.0	2,310	120	4.9	8,602	5,638	44	278	2,643
Relatives in married-couple families .....	12,590	61.2	11,363	1,227	9.7	7,979	680	5,765	365	1,169
16 to 19 years .....	4,712	50.5	4,176	537	11.4	4,626	93	4,361	5	167
20 to 24 years .....	4,503	74.3	4,124	379	8.4	1,555	101	1,267	21	166
25 years and over .....	3,374	65.2	3,063	311	9.2	1,798	486	137	339	836
Women who maintain families .....	6,648	61.7	6,155	493	7.4	4,134	2,757	241	237	900
Relatives in families maintained by women .....	5,269	58.5	4,487	782	14.8	3,745	740	1,644	363	997
16 to 19 years .....	1,361	46.1	1,078	283	20.8	1,592	101	1,351	9	131
20 to 24 years .....	1,456	74.2	1,230	227	15.6	508	121	247	21	119
25 years and over .....	2,451	59.8	2,179	272	11.1	1,645	518	46	333	747
Men who maintain families .....	2,203	77.0	2,076	128	5.8	657	43	46	79	489
Relatives in families maintained by men .....	1,849	63.9	1,661	188	10.2	1,045	339	298	83	325
16 to 19 years .....	348	59.4	290	59	16.8	238	20	207	3	8
20 to 24 years .....	502	80.7	437	65	13.0	120	41	60	-	19
25 years and over .....	998	59.2	934	64	6.4	687	278	31	80	298

<sup>1</sup> 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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
Total, 16 years and over .....	3,510	3,499	5.3	5.2	2,849	2,730	5.3	4.9
Married, spouse present .....	1,305	1,356	3.1	3.2	1,047	1,141	3.5	3.7
Widowed, divorced, or separated .....	494	472	7.3	6.9	609	608	5.9	5.7
Single (never married) .....	1,711	1,671	9.6	9.2	1,193	981	8.6	7.1
White, 16 years and over .....	2,622	2,595	4.5	4.4	1,996	2,007	4.3	4.3
Married, spouse present .....	1,070	1,090	2.9	2.9	846	952	3.2	3.5
Widowed, divorced, or separated .....	329	337	5.9	5.8	415	423	5.0	5.0
Single (never married) .....	1,223	1,168	8.2	7.7	735	632	6.6	5.7
Black, 16 years and over .....	772	780	11.8	11.9	775	642	12.1	9.8
Married, spouse present .....	190	206	5.9	6.4	164	143	7.0	5.9
Widowed, divorced, or separated .....	146	123	14.4	13.2	181	172	10.3	9.3
Single (never married) .....	436	452	18.9	18.9	430	326	18.7	14.4
Total, 25 years and over .....	2,279	2,349	4.1	4.2	1,741	1,710	4.0	3.8
Married, spouse present .....	1,207	1,248	3.0	3.1	866	915	3.1	3.2
Widowed, divorced, or separated .....	467	458	7.2	6.8	557	543	5.7	5.3
Single (never married) .....	605	643	7.2	7.1	318	254	5.2	4.2
White, 25 years and over .....	1,724	1,743	3.6	3.6	1,221	1,259	3.3	3.3
Married, spouse present .....	992	995	2.8	2.8	697	766	2.8	3.0
Widowed, divorced, or separated .....	315	327	5.9	5.8	371	369	4.7	4.5
Single (never married) .....	417	421	6.1	5.7	153	124	3.3	2.6
Black, 25 years and over .....	460	506	8.8	9.6	468	390	8.9	7.4
Married, spouse present .....	171	195	5.5	6.3	134	107	6.1	4.7
Widowed, divorced, or separated .....	133	120	13.5	13.4	173	160	10.1	8.9
Single (never married) .....	155	191	13.4	14.8	163	123	12.2	10.0

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
Total, 16 years and over .....	6,359	6,229	5.3	5.1	5.3	5.2	5.3	4.9
Managerial and professional specialty .....	511	556	1.7	1.8	1.8	1.8	1.6	1.8
Executive, administrative, and managerial .....	278	296	1.9	2.0	2.0	2.1	1.8	1.8
Professional specialty .....	233	259	1.5	1.6	1.6	1.5	1.5	1.8
Technical, sales, and administrative support .....	1,301	1,347	3.5	3.6	2.7	3.2	4.0	3.8
Technicians and related support .....	94	86	2.6	2.3	1.5	2.2	3.9	2.5
Sales occupations .....	586	600	4.1	4.2	2.5	3.2	5.8	5.2
Administrative support, including clerical .....	620	661	3.3	3.5	3.8	3.7	3.1	3.4
Service occupations .....	1,032	1,149	6.4	7.0	6.5	7.3	6.3	6.8
Private household .....	56	66	6.3	7.3	( <sup>1</sup> )	( <sup>1</sup> )	6.2	6.3
Protective service .....	64	80	3.4	4.0	2.4	3.6	9.8	6.3
Service, except private household and protective .....	911	1,003	6.8	7.5	7.9	8.4	6.2	6.9
Precision production, craft, and repair .....	762	797	5.3	5.6	5.3	5.7	5.6	4.4
Mechanics and repairers .....	153	205	3.3	4.3	3.1	4.4	6.9	.6
Construction trades .....	416	439	7.7	8.2	7.7	8.2	11.3	9.1
Other precision production, craft, and repair .....	193	153	4.5	3.6	4.5	3.4	4.8	4.5
Operators, fabricators, and laborers .....	1,621	1,503	8.6	7.8	8.3	7.5	9.4	8.3
Machine operators, assemblers, and inspectors .....	678	650	7.9	7.3	6.6	6.2	9.8	8.8
Transportation and material moving occupations .....	283	302	5.8	5.9	6.0	6.0	3.0	5.7
Handlers, equipment cleaners, helpers, and laborers .....	659	552	12.3	10.2	12.5	10.7	11.2	7.8
Construction laborers .....	208	157	22.0	17.2	21.9	17.2	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	451	394	10.2	8.8	10.1	9.0	10.9	7.6
Farming, forestry, and fishing .....	230	221	6.3	6.3	5.8	6.0	9.0	8.0
No previous work experience .....	847	630						
16 to 19 years .....	561	421						
20 to 24 years .....	162	106						
25 years and over .....	124	103						

<sup>1</sup> 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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
Total, 16 years and over .....	6,359	6,229	5.3	5.1	5.3	5.2	5.3	4.9
Nonagricultural private wage and salary workers .....	4,701	4,818	5.3	5.3	5.4	5.4	5.1	5.0
Mining .....	76	47	9.2	6.4	10.3	7.4	3.6	1.1
Construction .....	712	650	11.5	10.5	11.9	11.0	7.6	5.4
Manufacturing .....	1,125	1,064	5.2	4.8	4.5	4.2	6.6	6.0
Durable goods .....	597	582	4.6	4.5	4.2	4.1	5.6	5.6
Lumber and wood products .....	61	49	8.8	6.1	8.7	6.5	9.1	4.4
Furniture and fixtures .....	27	53	3.7	7.0	2.2	5.6	7.1	9.9
Stone, clay, and glass products .....	28	21	4.5	3.5	4.1	2.4	5.8	8.5
Primary metal industries .....	47	26	5.3	3.2	5.2	2.4	6.2	7.6
Fabricated metal products .....	63	105	4.7	7.6	4.5	7.3	5.6	8.6
Machinery, except electrical .....	77	83	3.2	3.3	2.6	3.1	4.9	3.8
Electrical machinery, equipment, and supplies .....	126	97	5.7	4.6	5.9	4.4	5.3	5.0
Transportation equipment .....	113	99	4.2	3.6	3.9	3.3	5.3	4.7
Automobiles .....	67	61	5.2	4.6	4.9	4.2	6.3	6.3
Other transportation equipment .....	46	37	3.3	2.6	2.8	2.5	4.3	3.8
Professional and photographic equipment .....	31	17	4.3	2.5	3.2	2.5	5.8	2.5
Other durable goods industries .....	22	32	4.3	5.9	2.7	3.7	5.9	8.0
Nondurable goods .....	528	482	6.0	5.3	4.8	4.5	7.6	6.4
Food and kindred products .....	140	137	8.1	7.3	6.8	5.8	11.0	10.4
Textile mill products .....	49	30	6.2	4.3	5.6	2.2	6.9	6.8
Apparel and other textile products .....	113	114	9.3	9.0	10.0	12.5	9.1	7.9
Paper and allied products .....	37	21	4.8	2.7	4.7	2.6	5.3	3.0
Printing and publishing .....	76	77	4.1	4.1	2.2	4.8	6.8	3.1
Chemicals and allied products .....	33	60	2.6	4.1	3.0	3.1	1.9	6.0
Rubber and miscellaneous plastics products .....	41	27	5.0	3.4	4.4	3.5	6.0	3.1
Other nondurable goods industries .....	39	17	9.5	4.2	7.1	2.0	14.3	8.6
Transportation and public utilities .....	246	266	3.9	4.1	3.6	4.1	4.7	4.2
Transportation .....	174	200	4.8	5.3	4.6	4.9	5.5	6.4
Communications and other public utilities .....	72	66	2.7	2.4	1.9	2.8	4.2	1.9
Wholesale and retail trade .....	1,287	1,333	5.8	5.8	5.4	5.4	6.2	6.2
Wholesale trade .....	141	171	3.3	3.9	2.9	3.7	4.3	4.4
Retail trade .....	1,146	1,162	6.3	6.2	6.2	5.9	6.4	6.5
Finance, insurance, and real estate .....	180	253	2.5	3.4	2.2	4.3	2.7	2.9
Service industries .....	1,076	1,205	4.4	4.7	4.4	5.0	4.3	4.5
Professional services .....	370	433	2.7	2.9	2.7	3.0	2.6	2.9
Other service industries .....	706	772	6.5	7.0	5.8	6.7	7.2	7.3
Agricultural wage and salary workers .....	184	165	9.8	9.3	8.9	8.5	12.8	12.3
Government, self-employed, and unpaid family workers .....	628	616	2.2	2.2	2.4	2.3	2.0	2.0
No previous work experience .....	847	630	-	-	-	-	-	-

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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,359	6,229	2,938	2,940	2,303	2,277	1,118	1,012	4,617	4,601	1,547	1,422
Job losers .....	2,977	2,990	1,901	1,906	897	914	179	169	2,192	2,230	712	650
On layoff .....	785	787	493	521	251	216	41	50	653	671	118	105
Other job losers .....	2,192	2,203	1,408	1,385	646	698	138	119	1,539	1,559	594	545
Job leavers .....	895	889	431	410	339	362	125	117	695	714	182	140
Reentrants .....	1,643	1,720	508	545	880	870	256	304	1,176	1,250	404	416
New entrants .....	843	630	99	79	187	130	558	421	555	407	249	214
<b>PERCENT DISTRIBUTION</b>												
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 .....	46.8	48.0	64.7	64.8	39.0	40.2	16.0	16.8	47.4	46.5	46.0	45.7
On layoff .....	12.3	12.6	16.8	17.7	10.9	9.5	3.6	5.0	14.1	14.6	7.6	7.4
Other job losers .....	34.5	35.4	47.9	47.1	28.1	30.7	12.4	11.8	33.3	33.9	38.4	38.4
Job leavers .....	14.1	14.3	14.7	13.9	14.7	15.9	11.2	11.6	15.0	15.5	11.7	9.6
Reentrants .....	25.8	27.6	17.3	18.5	38.2	38.2	22.9	30.1	25.5	27.2	26.1	29.4
New entrants .....	13.3	10.1	3.4	2.7	8.1	5.7	49.9	41.6	12.0	8.8	16.1	15.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.5	2.4	3.1	3.0	1.8	1.7	2.5	2.3	2.1	2.1	5.5	5.0
Job leavers .....	.7	.7	.7	.6	.7	.7	1.7	1.6	.7	.7	1.4	1.1
Reentrants .....	1.4	1.4	.8	.9	1.7	1.7	3.5	4.1	1.1	1.2	3.1	3.2
New entrants .....	.7	.5	.2	.1	.4	.3	7.6	5.7	.5	.4	1.9	1.6



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Reason, sex, and age	April 1989						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	6,229	100.0	44.6	29.0	26.4	14.1	12.3
Job losers .....	2,990	100.0	36.0	30.8	33.2	17.3	15.9
On layoff .....	787	100.0	44.1	27.9	28.0	22.0	6.0
Other job losers .....	2,203	100.0	33.1	31.8	35.1	15.7	19.4
Job leavers .....	889	100.0	49.1	33.0	17.9	10.3	7.6
Reentrants .....	1,720	100.0	52.0	26.3	21.8	12.0	9.8
New entrants .....	630	100.0	58.9	22.0	19.1	9.6	9.4
Men, 20 years and over .....	2,940	100.0	36.6	29.5	34.0	17.2	16.8
Job losers .....	1,906	100.0	32.6	29.3	38.1	19.0	19.1
On layoff .....	521	100.0	40.2	27.7	32.1	26.0	6.1
Other job losers .....	1,385	100.0	29.7	29.8	40.4	16.4	24.1
Job leavers .....	410	100.0	42.4	36.2	21.4	12.0	9.4
Reentrants .....	545	100.0	45.3	27.1	27.6	14.7	12.8
New entrants .....	79	100.0	42.5	14.9	42.6	18.3	24.4
Women, 20 years and over .....	2,277	100.0	46.4	30.9	22.7	13.4	9.3
Job losers .....	914	100.0	38.9	35.0	26.1	16.1	10.0
On layoff .....	216	100.0	50.5	28.5	21.1	16.1	5.0
Other job losers .....	698	100.0	35.3	37.0	27.6	16.1	11.6
Job leavers .....	362	100.0	51.7	33.6	14.7	9.5	5.2
Reentrants .....	870	100.0	51.2	26.9	21.9	11.6	10.2
New entrants .....	130	100.0	52.6	21.2	26.3	16.6	9.7
Both sexes, 16 to 19 years .....	1,012	100.0	63.7	23.2	13.1	6.7	6.4
Job losers .....	169	100.0	58.4	25.0	16.5	5.6	11.0
On layoff .....	50	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	119	100.0	59.0	23.8	17.2	5.3	11.8
Job leavers .....	117	100.0	64.5	20.0	15.5	7.0	8.5
Reentrants .....	304	100.0	66.1	22.8	11.1	8.3	2.8
New entrants .....	421	100.0	64.0	23.6	12.4	5.9	6.5

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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
Total, 16 years and over .....	6,359	6,229	100.0	100.0	5,101	4,997	100.0	100.0
Less than 5 weeks .....	2,781	2,778	43.7	44.6	2,013	1,945	39.5	38.9
5 to 14 weeks .....	1,751	1,804	27.5	29.0	1,447	1,553	28.4	31.1
5 to 10 weeks .....	1,295	1,290	20.4	20.7	1,064	1,104	20.9	22.1
11 to 14 weeks .....	457	514	7.2	8.3	383	449	7.5	9.0
15 weeks and over .....	1,827	1,647	28.7	26.4	1,641	1,499	32.2	30.0
15 to 26 weeks .....	963	878	15.1	14.1	860	782	16.9	15.6
27 weeks and over .....	864	769	13.6	12.3	781	716	15.3	14.3
27 to 51 weeks .....	346	306	5.4	4.9	318	269	6.2	5.4
52 weeks and over .....	518	464	8.1	7.4	463	447	9.1	8.9
Average (mean) duration, in weeks .....	14.4	13.5			15.6	15.1		
Median duration, in weeks .....	6.8	6.3			8.0	7.7		

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
	April 1989										
<b>Total, 16 years and over</b> .....	6,229	2,778	1,804	878	769	13.5	6.3	43.7	44.6	28.7	26.4
16 to 19 years .....	1,012	645	235	68	65	8.0	3.9	59.1	63.7	14.3	13.1
20 to 24 years .....	1,158	582	311	166	99	11.1	5.0	53.3	50.3	23.7	22.8
25 to 34 years .....	1,821	701	615	295	210	13.8	7.4	39.1	38.5	30.8	27.7
35 to 44 years .....	1,154	452	316	180	206	17.3	7.9	34.2	39.2	36.0	33.5
45 to 54 years .....	638	218	201	108	111	17.1	9.4	35.5	34.1	36.8	34.4
55 to 64 years .....	349	129	103	48	70	17.2	8.7	29.5	36.8	42.8	33.8
65 years and over .....	97	51	23	13	10	10.7	4.7	( <sup>1</sup> )	53.1	( <sup>1</sup> )	23.4
<b>Men, 16 years and over</b> .....	3,499	1,445	972	553	529	15.4	6.9	37.7	41.3	33.9	30.9
16 to 19 years .....	559	370	106	47	36	8.0	3.8	51.5	66.1	18.7	14.9
20 to 24 years .....	591	266	163	102	61	12.7	6.2	49.1	45.0	29.0	27.5
25 to 34 years .....	1,033	350	342	196	144	15.5	8.3	32.7	33.9	36.4	32.9
35 to 44 years .....	664	222	168	114	159	21.4	10.0	28.0	33.5	39.6	41.1
45 to 54 years .....	370	121	112	63	73	19.0	10.2	29.4	32.9	44.7	36.8
55 to 64 years .....	224	81	66	28	49	17.7	10.3	27.6	36.0	44.0	34.4
65 years and over .....	59	35	14	3	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Women, 16 years and over</b> .....	2,730	1,333	832	325	241	11.1	5.3	51.2	48.8	22.4	20.7
16 to 19 years .....	453	276	129	21	29	8.0	4.1	67.0	60.8	9.6	10.8
20 to 24 years .....	567	316	149	64	38	9.5	4.5	58.3	55.7	17.4	18.0
25 to 34 years .....	788	351	273	98	66	11.6	6.5	47.2	44.5	23.7	20.8
35 to 44 years .....	490	229	148	65	48	11.7	6.0	42.3	46.8	31.2	23.1
45 to 54 years .....	269	96	89	45	38	14.4	8.5	42.7	35.9	27.4	31.0
55 to 64 years .....	126	48	37	20	21	16.4	7.0	32.9	38.3	40.6	32.6
65 years and over .....	38	17	8	11	2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>White, 16 years and over</b> .....	4,601	2,066	1,375	664	496	12.8	6.2	45.3	44.9	27.7	25.2
Men .....	2,595	1,068	772	411	344	14.7	6.9	39.0	41.2	33.0	29.1
Women .....	2,007	999	603	253	152	10.4	5.1	53.5	49.8	20.9	20.2
<b>Black, 16 years and over</b> .....	1,422	631	367	191	234	15.1	6.4	40.0	44.4	32.0	29.9
Men .....	780	323	172	131	154	16.9	7.6	35.0	41.4	36.8	36.5
Women .....	642	308	194	60	80	12.9	5.4	44.9	47.9	27.3	21.8
<b>Men, 16 years and over:</b>											
Married, spouse present .....	1,356	438	420	240	258	18.8	9.5	31.2	32.3	39.8	36.7
Widowed, divorced, or separated .....	472	187	115	66	104	18.9	9.4	39.0	39.6	32.6	35.9
Single (never married) .....	1,671	821	436	247	167	11.5	5.2	42.2	49.1	29.7	24.8
<b>Women, 16 years and over:</b>											
Married, spouse present .....	1,141	537	352	148	104	11.2	5.7	47.4	47.1	23.7	22.1
Widowed, divorced, or separated .....	608	274	191	78	65	12.8	7.1	43.2	45.1	30.2	23.6
Single (never married) .....	981	522	289	98	72	9.8	4.7	58.7	53.2	17.4	17.3

<sup>1</sup> 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. 1988	Apr. 1989	Apr. 1988	Apr. 1989
<b>OCCUPATION</b>											
Managerial and professional specialty .....	556	191	193	89	82	15.1	8.4	42.1	34.3	31.3	30.9
Technical, sales, and administrative support .....	1,347	634	392	171	149	12.2	5.8	46.8	47.1	25.0	23.8
Service occupations .....	1,149	602	294	131	123	12.0	4.8	45.3	52.3	27.5	22.1
Precision production, craft, and repair .....	797	310	224	151	112	15.2	6.9	36.2	38.9	34.9	33.0
Operators, fabricators, and laborers .....	1,503	537	498	249	219	15.7	8.6	37.8	35.7	33.3	31.1
Farming, forestry, and fishing .....	221	121	54	23	24	11.0	4.6	44.4	54.8	30.7	21.0
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	165	97	46	11	11	8.7	4.2	46.8	58.9	25.6	13.4
Construction .....	672	245	201	151	75	14.7	9.3	35.0	36.5	36.1	33.7
Manufacturing .....	1,064	441	310	153	161	15.5	7.2	37.2	41.5	33.4	29.4
Durable goods .....	582	229	172	88	93	16.5	8.3	33.7	39.3	37.9	31.2
Nondurable goods .....	482	213	137	64	67	14.2	6.2	41.1	44.1	28.3	27.4
Transportation and public utilities .....	295	105	94	43	53	15.4	8.1	48.2	35.6	27.1	32.7
Wholesale and retail trade .....	1,335	651	353	167	163	12.6	5.3	46.7	48.8	24.4	24.8
Finance and service industries .....	1,663	725	530	219	188	12.7	6.4	44.7	43.6	27.4	24.5
Public administration .....	177	62	54	30	31	18.8	9.7	37.8	34.9	37.3	34.7
No previous work experience .....	630	371	139	61	59	11.0	4.2	56.2	59.0	19.8	19.1

<sup>1</sup> Includes wage and salary workers only.

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

Sex, age, and race	April 1989								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	6,229	5,317	22.4	6.8	72.2	36.4	19.1	5.3	1.62
16 to 19 years .....	1,012	951	13.1	2.7	78.0	24.0	18.0	3.2	1.39
20 to 24 years .....	1,158	1,015	21.3	7.3	70.8	38.2	17.6	5.5	1.61
25 to 34 years .....	1,821	1,513	26.1	6.9	70.7	38.7	18.6	5.1	1.66
35 to 44 years .....	1,154	966	26.1	10.6	73.5	40.1	23.4	4.9	1.78
45 to 54 years .....	638	515	24.9	7.0	67.8	41.4	17.3	7.8	1.66
55 to 64 years .....	349	272	25.4	5.9	71.7	38.6	15.1	8.8	1.65
65 years and over .....	97	85	7.1	1.2	63.5	32.9	34.1	7.1	1.46
Men, 16 years and over .....	3,499	2,865	24.7	7.1	73.5	35.4	21.2	5.2	1.67
16 to 19 years .....	559	516	13.8	2.7	77.9	22.9	19.6	1.0	1.38
20 to 24 years .....	591	500	22.0	8.0	74.2	36.0	20.0	4.4	1.65
25 to 34 years .....	1,033	815	29.3	7.5	72.5	38.9	21.6	5.3	1.75
35 to 44 years .....	664	536	29.7	12.5	74.3	37.3	26.3	4.9	1.85
45 to 54 years .....	370	278	27.0	4.7	68.7	42.4	18.3	9.7	1.71
55 to 64 years .....	224	170	29.4	5.9	67.6	38.2	13.5	12.9	1.68
65 years and over .....	59	50	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,730	2,452	19.7	6.3	70.6	37.6	16.8	5.3	1.56
16 to 19 years .....	453	435	12.4	2.8	78.2	25.3	16.1	5.5	1.40
20 to 24 years .....	567	515	20.6	6.6	67.4	40.2	15.3	6.6	1.57
25 to 34 years .....	788	698	22.3	6.3	68.5	38.4	15.2	5.0	1.56
35 to 44 years .....	490	430	21.6	8.1	72.6	43.7	19.8	4.9	1.71
45 to 54 years .....	269	237	22.4	10.1	66.7	40.1	16.0	5.1	1.60
55 to 64 years .....	126	102	18.6	5.9	77.5	40.2	17.6	2.9	1.63
65 years and over .....	38	35	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,601	3,828	21.5	7.7	72.0	39.0	18.1	5.6	1.64
Men .....	2,595	2,054	23.5	8.6	73.9	38.1	20.8	5.3	1.70
Women .....	2,007	1,774	19.2	6.7	69.9	40.1	14.8	5.9	1.57
Black, 16 years and over .....	1,422	1,302	25.7	4.1	73.3	27.3	22.5	3.7	1.57
Men .....	780	701	28.2	3.9	73.3	27.8	23.0	3.6	1.60
Women .....	642	601	22.8	4.5	73.4	26.8	22.0	3.8	1.53

<sup>1</sup> 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 1989								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	6,229	5,317	22.4	6.8	72.2	36.4	19.1	5.3	1.62
Job losers <sup>1</sup> .....	2,990	2,173	29.0	7.3	72.0	37.0	22.5	4.6	1.73
Job leavers .....	889	896	25.1	11.2	74.4	47.0	17.7	4.1	1.80
Reentrants .....	1,720	1,626	16.7	5.3	68.9	34.7	16.6	7.1	1.49
New entrants .....	630	623	10.4	2.2	77.7	23.1	16.2	4.3	1.34
Men, 16 years and over .....	3,499	2,865	24.7	7.1	73.5	35.4	21.2	5.2	1.67
Job losers <sup>1</sup> .....	2,022	1,443	30.6	7.0	73.5	35.7	23.6	5.5	1.76
Job leavers .....	469	470	25.5	13.8	75.3	48.7	20.4	1.5	1.85
Reentrants .....	716	663	19.0	5.0	71.0	30.6	18.6	7.8	1.52
New entrants .....	292	288	6.9	1.7	76.0	22.6	16.3	3.5	1.27
Women, 16 years and over .....	2,730	2,452	19.7	6.3	70.6	37.6	16.8	5.3	1.56
Job losers <sup>1</sup> .....	967	731	25.9	7.9	69.1	39.5	20.2	2.7	1.65
Job leavers .....	421	425	24.5	8.2	73.6	45.2	14.8	7.1	1.73
Reentrants .....	1,004	960	15.1	5.6	67.6	37.6	15.3	6.6	1.48
New entrants .....	339	336	13.4	2.7	78.9	23.5	16.1	5.1	1.40

<sup>1</sup> 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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
All industries .....	113,905	116,347	62,719	63,664	51,186	52,683
16 to 19 years .....	6,239	6,338	3,215	3,234	3,024	3,105
16 to 17 years .....	2,454	2,386	1,279	1,211	1,175	1,175
18 to 19 years .....	3,785	3,952	1,936	2,023	1,848	1,930
20 to 24 years .....	13,028	12,797	6,809	6,735	6,219	6,063
25 to 54 years .....	79,956	82,273	44,178	45,070	35,776	37,204
25 to 34 years .....	33,509	33,839	18,633	18,788	14,877	15,051
35 to 44 years .....	28,093	29,170	15,313	15,777	12,779	13,393
45 to 54 years .....	18,354	19,264	10,233	10,504	8,121	8,760
55 to 64 years .....	11,450	11,499	6,625	6,582	4,825	4,918
55 to 59 years .....	6,875	6,826	3,944	3,887	2,932	2,938
60 to 64 years .....	4,575	4,674	2,681	2,694	1,894	1,979
65 years and over .....	3,233	3,439	1,892	2,044	1,341	1,395
Agriculture .....	3,193	3,116	2,504	2,472	688	644
16 to 19 years .....	276	240	225	196	52	44
16 to 17 years .....	119	102	89	85	30	16
18 to 19 years .....	157	138	135	110	22	28
20 to 24 years .....	375	367	298	307	78	60
25 to 54 years .....	1,825	1,800	1,395	1,397	429	403
25 to 34 years .....	817	788	633	645	184	143
35 to 44 years .....	573	620	443	462	130	158
45 to 54 years .....	435	392	319	291	115	102
55 to 64 years .....	439	414	338	316	101	97
55 to 59 years .....	231	204	169	144	63	60
60 to 64 years .....	208	210	170	172	38	37
65 years and over .....	278	296	248	256	29	40
Nonagricultural industries .....	110,712	113,231	60,215	61,192	50,497	52,039
16 to 19 years .....	5,962	6,098	2,990	3,038	2,972	3,060
16 to 17 years .....	2,335	2,284	1,190	1,126	1,145	1,159
18 to 19 years .....	3,627	3,814	1,801	1,912	1,827	1,902
20 to 24 years .....	12,652	12,430	6,511	6,428	6,141	6,003
25 to 54 years .....	78,131	80,473	42,784	43,673	35,347	36,801
25 to 34 years .....	32,692	33,051	18,000	18,144	14,693	14,907
35 to 44 years .....	27,520	28,551	14,871	15,316	12,649	13,235
45 to 54 years .....	17,919	18,871	9,913	10,213	8,005	8,658
55 to 64 years .....	11,011	11,086	6,286	6,265	4,725	4,821
55 to 59 years .....	6,644	6,622	3,775	3,743	2,869	2,878
60 to 64 years .....	4,367	4,464	2,511	2,522	1,856	1,942
65 years and over .....	2,955	3,143	1,643	1,788	1,312	1,355

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. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
Total .....	113,905	116,347	62,719	63,664	59,504	60,430	51,186	52,683	48,162	49,578
Managerial and professional specialty .....	29,238	30,568	16,136	16,781	16,016	16,706	13,102	13,786	12,980	13,687
Executive, administrative, and managerial .....	14,152	14,777	8,581	8,911	8,519	8,883	5,571	5,866	5,525	5,839
Officials and administrators, public administration .....	512	586	304	348	301	347	208	238	208	238
Other executive, administrative, and managerial .....	9,737	10,192	6,347	6,617	6,299	6,595	3,390	3,575	3,357	3,553
Management-related occupations .....	3,903	3,999	1,931	1,945	1,918	1,941	1,973	2,053	1,960	2,048
Professional specialty .....	15,086	15,791	7,555	7,871	7,497	7,823	7,531	7,920	7,455	7,848
Engineers .....	1,741	1,838	1,586	1,698	1,585	1,695	155	140	155	140
Mathematical and computer scientists .....	776	820	537	482	536	483	239	338	239	338
Natural scientists .....	393	480	311	369	310	369	82	111	82	111
Health diagnosing occupations .....	798	886	668	761	668	760	131	124	131	124
Health assessment and treating occupations .....	2,072	2,282	323	347	323	346	1,749	1,935	1,745	1,934
Teachers, college and university .....	773	764	469	432	467	430	304	333	303	329
Teachers, except college and university .....	3,998	4,076	1,118	1,136	1,106	1,123	2,881	2,939	2,845	2,909
Lawyers and judges .....	755	773	590	596	590	596	165	178	165	178
Other professional specialty occupations .....	3,779	3,871	1,954	2,049	1,912	2,021	1,825	1,822	1,790	1,785
Technical, sales, and administrative support .....	35,401	35,837	12,499	12,396	11,896	11,783	22,902	23,441	21,261	21,724
Technicians and related support .....	3,476	3,575	1,786	1,804	1,765	1,786	1,690	1,772	1,674	1,758
Health technologists and technicians .....	1,168	1,257	223	208	218	205	945	1,050	939	1,044
Engineering and science technicians .....	1,170	1,155	873	877	862	866	297	279	291	271
Technicians, except health, engineering, and science .....	1,138	1,163	690	719	684	715	448	443	444	443
Sales occupations .....	13,617	13,820	7,096	6,987	6,692	6,567	6,521	6,833	5,560	5,746
Supervisors and proprietors .....	3,637	3,690	2,473	2,458	2,426	2,441	1,165	1,232	1,134	1,196
Sales representatives, finance and business services .....	2,415	2,295	1,420	1,277	1,404	1,262	995	1,017	968	978
Sales representatives, commodities, except retail .....	1,538	1,613	1,276	1,264	1,275	1,254	262	348	253	339
Sales workers, retail and personal services .....	5,975	6,149	1,909	1,963	1,570	1,586	4,066	4,186	3,173	3,181
Sales-related occupations .....	51	74	17	24	16	24	34	50	33	51
Administrative support, including clerical .....	18,308	18,441	3,618	3,605	3,439	3,430	14,691	14,836	14,027	14,220
Supervisors .....	808	724	333	277	330	277	475	447	474	446
Computer equipment operators .....	838	921	328	324	317	309	510	597	499	571
Secretaries, stenographers, and typists .....	4,934	4,797	74	77	71	70	4,860	4,720	4,653	4,566
Financial records processing .....	2,443	2,364	207	203	197	192	2,236	2,161	2,196	2,114
Mail and message distributing .....	935	928	615	590	589	574	321	337	305	318
Other administrative support, including clerical .....	8,351	8,707	2,062	2,134	1,934	2,009	6,289	6,573	5,901	6,205
Service occupations .....	15,114	15,204	5,984	6,138	5,138	5,244	9,129	9,066	8,124	8,011
Private household .....	832	840	42	37	32	30	790	803	665	693
Protective service .....	1,838	1,918	1,607	1,640	1,572	1,620	230	279	215	269
Service, except private household and protective .....	12,444	12,446	4,335	4,461	3,534	3,595	8,109	7,985	7,245	7,049
Food service .....	5,101	5,242	1,934	2,111	1,304	1,458	3,167	3,131	2,564	2,465
Health service .....	2,039	2,024	223	197	207	182	1,816	1,827	1,740	1,712
Cleaning and building service .....	2,930	2,910	1,729	1,708	1,604	1,569	1,200	1,202	1,133	1,139
Personal service .....	2,375	2,270	448	445	420	386	1,926	1,825	1,808	1,733
Precision production, craft, and repair .....	13,552	13,560	12,370	12,468	12,119	12,165	1,182	1,092	1,163	1,075
Mechanics and repairers .....	4,522	4,555	4,357	4,417	4,284	4,326	166	138	165	137
Construction trades .....	4,972	4,905	4,892	4,813	4,776	4,664	79	93	74	92
Other precision production, craft, and repair .....	4,058	4,099	3,121	3,238	3,059	3,175	937	862	924	846
Operators, fabricators, and laborers .....	17,196	17,886	12,869	13,100	11,752	12,020	4,327	4,786	4,146	4,610
Machine operators, assemblers, and inspectors .....	7,855	8,257	4,711	4,798	4,539	4,629	3,144	3,460	3,072	3,375
Manufacturing industries .....	6,592	6,817	3,891	3,915	3,770	3,804	2,701	2,902	2,641	2,839
Durable goods .....	3,662	3,756	2,492	2,538	2,419	2,480	1,170	1,217	1,148	1,191
Nondurable goods .....	2,929	3,061	1,399	1,376	1,351	1,323	1,530	1,684	1,493	1,648
Nonmanufacturing industries .....	1,263	1,441	820	883	769	825	443	558	431	536
Transportation and material moving occupations .....	4,627	4,770	4,192	4,267	4,063	4,130	436	503	418	483
Motor vehicle operators .....	3,449	3,539	3,088	3,086	2,970	2,963	361	453	344	435
Other transportation and material moving occupations .....	1,178	1,230	1,104	1,181	1,092	1,167	75	50	74	48
Handlers, equipment cleaners, helpers, and laborers .....	4,714	4,859	3,966	4,035	3,150	3,261	748	824	656	752
Construction laborers .....	739	755	720	735	661	654	19	20	10	19
Other handlers, equipment cleaners, helpers, and laborers .....	3,975	4,104	3,246	3,300	2,490	2,607	729	805	646	733
Farming, forestry, and fishing .....	3,404	3,292	2,861	2,781	2,583	2,513	543	511	488	472
Farm operators and managers .....	1,273	1,247	1,099	1,058	1,084	1,044	174	189	172	189
Other farming, forestry, and fishing occupations .....	2,131	2,045	1,762	1,722	1,499	1,469	370	322	317	282

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	113,905	116,347	62,719	63,664	51,186	52,683
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	25.7	26.3	25.7	26.4	25.6	26.2
Executive, administrative, and managerial .....	12.4	12.7	13.7	14.0	10.9	11.1
Professional specialty .....	13.2	13.6	12.0	12.4	14.7	15.0
Technical, sales, and administrative support .....	31.1	30.8	19.9	19.5	44.7	44.5
Technicians and related support .....	3.1	3.1	2.8	2.8	3.3	3.4
Sales occupations .....	12.0	11.9	11.3	11.0	12.7	13.0
Administrative support, including clerical .....	16.1	15.8	5.8	5.7	28.7	28.2
Service occupations .....	13.3	13.1	9.5	9.6	17.8	17.2
Private household .....	.7	.7	.1	.1	1.5	1.5
Protective service .....	1.6	1.6	2.6	2.6	.4	.5
Service, except private household and protective .....	10.9	10.7	6.9	7.0	15.8	15.2
Precision production, craft, and repair .....	11.9	11.7	19.7	19.6	2.3	2.1
Operators, fabricators, and laborers .....	15.1	15.4	20.5	20.6	8.5	9.1
Machine operators, assemblers, and inspectors .....	6.9	7.1	7.5	7.5	6.1	6.6
Transportation and material moving occupations .....	4.1	4.1	6.7	6.7	.9	1.0
Handlers, equipment cleaners, helpers, and laborers .....	4.1	4.2	6.3	6.3	1.5	1.6
Farming, forestry, and fishing .....	3.0	2.8	4.6	4.4	1.1	1.0
<b>White</b>						
Total, 16 years and over (thousands) .....	99,141	100,941	55,119	55,926	44,021	45,015
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.7	27.4	26.8	27.6	26.7	27.2
Executive, administrative, and managerial .....	13.1	13.5	14.4	14.9	11.5	11.7
Professional specialty .....	13.7	14.0	12.4	12.7	15.2	15.5
Technical, sales, and administrative support .....	31.5	31.1	20.1	19.6	45.7	45.4
Technicians and related support .....	3.0	3.0	2.9	2.9	3.2	3.2
Sales occupations .....	12.5	12.4	11.9	11.5	13.3	13.6
Administrative support, including clerical .....	16.0	15.6	5.4	5.2	29.2	28.5
Service occupations .....	12.0	11.9	8.4	8.7	16.5	15.9
Private household .....	.6	.6	.1	.1	1.3	1.2
Protective service .....	1.5	1.6	2.4	2.4	.4	.5
Service, except private household and protective .....	9.9	9.8	6.0	6.2	14.8	14.2
Precision production, craft, and repair .....	12.3	12.1	20.4	20.2	2.3	2.0
Operators, fabricators, and laborers .....	14.3	14.5	19.5	19.4	7.7	8.4
Machine operators, assemblers, and inspectors .....	6.5	6.7	7.2	7.2	5.5	6.0
Transportation and material moving occupations .....	3.9	4.0	6.4	6.4	.8	.9
Handlers, equipment cleaners, helpers, and laborers .....	3.9	3.9	5.9	5.8	1.4	1.5
Farming, forestry, and fishing .....	3.1	3.0	4.7	4.6	1.1	1.1
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,394	11,699	5,758	5,775	5,636	5,924
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.5	15.7	13.8	13.0	17.2	18.3
Executive, administrative, and managerial .....	6.5	6.6	6.6	6.1	6.4	7.0
Professional specialty .....	9.0	9.1	7.2	6.8	10.8	11.3
Technical, sales, and administrative support .....	27.3	27.8	16.8	16.5	38.1	38.8
Technicians and related support .....	2.8	2.9	1.9	2.0	3.7	3.8
Sales occupations .....	7.2	7.0	5.9	5.4	8.4	8.6
Administrative support, including clerical .....	17.3	17.9	8.9	9.1	26.0	26.5
Service occupations .....	23.5	22.4	19.0	17.9	28.1	26.9
Private household .....	1.7	2.0	.1	.1	3.3	3.8
Protective service .....	2.8	2.7	4.6	4.7	1.1	.7
Service, except private household and protective .....	19.0	17.8	14.3	13.1	23.7	22.3
Precision production, craft, and repair .....	9.0	9.2	15.4	16.2	2.5	2.5
Operators, fabricators, and laborers .....	22.6	23.1	31.4	33.5	13.6	13.1
Machine operators, assemblers, and inspectors .....	10.3	10.6	9.8	11.5	10.8	9.7
Transportation and material moving occupations .....	5.9	5.8	10.5	10.3	1.2	1.4
Handlers, equipment cleaners, helpers, and laborers .....	6.4	6.8	11.0	11.6	1.6	2.0
Farming, forestry, and fishing .....	2.1	1.7	3.7	3.0	.5	.4

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

(In thousands)

Age and sex	April 1989								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over .....	104,301	1,091	17,403	85,807	8,636	293	1,608	1,385	123
16 to 19 years .....	5,996	168	279	5,549	88	15	188	27	25
16 to 17 years .....	2,249	101	66	2,082	27	9	82	5	14
18 to 19 years .....	3,747	67	213	3,467	61	6	106	22	11
20 to 24 years .....	12,132	119	1,108	10,905	287	11	291	69	8
25 to 34 years .....	31,065	200	4,304	26,560	1,951	35	502	266	20
35 to 44 years .....	25,799	174	5,459	20,166	2,662	91	295	298	26
45 to 54 years .....	17,057	139	3,729	13,189	1,741	74	147	229	16
55 to 64 years .....	9,738	167	2,108	7,463	1,302	46	135	258	21
55 to 59 years .....	5,877	83	1,301	4,493	722	23	61	128	14
60 to 64 years .....	3,861	83	808	2,969	581	23	73	130	7
65 years and over .....	2,516	125	416	1,975	606	22	51	238	7
Men, 16 years and over .....	55,653	166	8,110	47,377	5,494	46	1,281	1,150	41
16 to 19 years .....	2,976	43	112	2,820	48	14	153	26	17
16 to 17 years .....	1,107	24	26	1,057	10	8	69	5	12
18 to 19 years .....	1,869	19	86	1,764	38	6	84	22	5
20 to 24 years .....	6,241	33	507	5,701	182	5	239	66	2
25 to 34 years .....	16,933	28	1,999	14,906	1,208	2	423	214	8
35 to 44 years .....	13,636	23	2,496	11,117	1,675	4	219	234	10
45 to 54 years .....	9,139	17	1,758	7,364	1,065	9	110	182	-
55 to 64 years .....	5,349	10	1,038	4,301	916	-	102	212	3
55 to 59 years .....	3,237	6	621	2,610	506	1	44	99	1
60 to 64 years .....	2,112	4	417	1,691	410	-	58	112	2
65 years and over .....	1,378	12	200	1,166	400	10	36	215	4
Women, 16 years and over .....	48,649	925	9,294	38,430	3,143	247	327	235	82
16 to 19 years .....	3,020	125	166	2,729	40	-	35	-	9
16 to 17 years .....	1,142	77	40	1,026	16	-	13	-	3
18 to 19 years .....	1,878	48	127	1,703	24	-	22	-	6
20 to 24 years .....	5,891	86	602	5,204	105	6	52	2	6
25 to 34 years .....	14,132	172	2,306	11,654	743	32	79	52	12
35 to 44 years .....	12,162	151	2,963	9,049	987	86	76	65	17
45 to 54 years .....	7,917	122	1,970	5,825	676	65	37	47	17
55 to 64 years .....	4,388	157	1,071	3,161	387	45	33	46	18
55 to 59 years .....	2,640	77	679	1,883	216	22	17	29	14
60 to 64 years .....	1,748	80	391	1,278	171	23	15	17	5
65 years and over .....	1,138	113	216	809	205	12	15	22	3



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-25. Employed civilians by industry and occupation**

(In thousands)

Industry	April 1989												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	3,116	74	66	25	22	132		32	49	7	61	20	2,629
Mining .....	702	98	60	35	4	87		2	250	37	109	21	-
Construction .....	7,418	1,012	159	49	68	469		47	4,208	124	470	794	19
Manufacturing .....	21,522	2,460	1,799	740	757	2,316		294	4,121	6,817	867	1,250	101
Durable goods .....	12,691	1,426	1,229	512	315	1,206		159	2,887	3,756	473	643	86
Nondurable goods .....	8,831	1,034	571	228	442	1,110		135	1,235	3,061	394	606	15
Transportation and public utilities .....	8,102	960	507	259	372	2,124		288	1,289	118	1,682	499	5
Wholesale and retail trade .....	23,834	2,024	453	127	9,898	2,384		4,397	1,465	322	953	1,764	47
Wholesale trade .....	4,607	556	93	47	1,775	828		34	301	145	472	347	9
Retail trade .....	19,227	1,468	361	80	8,122	1,556		4,363	1,164	176	480	1,417	37
Finance, insurance, and real estate .....	8,004	2,196	202	160	1,837	3,062	-	311	142	11	20	19	45
Services .....	38,160	4,732	11,752	1,916	834	6,430	840	7,648	1,811	792	550	452	403
Private households .....	1,097	3	2	2	-	12	840	96	10	2	5	20	104
Other service industries .....	37,063	4,729	11,750	1,914	835	6,418	-	7,552	1,800	790	545	432	298
Professional services .....	24,986	2,712	10,484	1,610	158	4,600		4,271	389	205	341	114	101
Public administration .....	5,489	1,220	793	266	28	1,439		1,344	224	30	59	40	45

<sup>1</sup> 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. 1988	Apr. 1989	Total		Wage and salary workers <sup>1</sup>			
			Apr. 1988	Apr. 1989	Paid absences		Unpaid absences	
					Apr. 1988	Apr. 1989	Apr. 1988	Apr. 1989
Total, 16 years and over .....	4,369	4,576	4,286	4,489	1,993	2,168	1,796	1,752
Vacation .....	1,760	1,930	1,737	1,920	1,199	1,279	398	451
Illness .....	1,384	1,409	1,355	1,382	550	598	675	649
Bad weather .....	91	104	89	89	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	17	29	17	29	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,117	1,105	1,089	1,070	244	291	722	652
Men, 16 years and over .....	2,210	2,310	2,148	2,244	1,051	1,138	806	769
Vacation .....	873	1,066	859	1,060	661	735	140	220
Illness .....	765	693	738	670	286	304	373	286
All other reasons <sup>3</sup> .....	573	551	551	515	105	99	294	264
Women, 16 years and over .....	2,159	2,266	2,138	2,245	941	1,030	990	985
Vacation .....	888	864	878	860	538	544	259	231
Illness .....	619	715	616	712	264	293	302	365
All other reasons <sup>3</sup> .....	652	686	644	673	139	192	429	389

<sup>1</sup> Excludes private household workers.

<sup>2</sup> Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

<sup>3</sup> 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 1989					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	111,771	3,029	108,741	100.0	100.0	100.0
1 to 34 hours .....	26,024	791	25,233	23.3	26.1	23.2
1 to 4 hours .....	914	60	854	.8	2.0	.8
5 to 14 hours .....	4,790	176	4,613	4.3	5.8	4.2
15 to 29 hours .....	13,319	378	12,941	11.9	12.5	11.9
30 to 34 hours .....	7,001	177	6,825	6.3	5.8	6.3
35 hours and over .....	85,745	2,240	83,507	76.7	73.9	76.8
35 to 39 hours .....	7,613	162	7,451	6.8	5.3	6.9
40 hours .....	44,867	638	44,230	40.1	21.0	40.7
41 hours and over .....	33,265	1,440	31,826	29.8	47.5	29.3
41 to 48 hours .....	11,660	220	11,440	10.4	7.3	10.5
49 to 59 hours .....	12,381	422	11,960	11.1	13.9	11.0
60 hours and over .....	9,224	798	8,426	8.3	26.3	7.7
Average hours, total at work .....	39.3	44.5	39.2			
Average hours, workers on full-time schedules .....	44.0	51.8	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 1989					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	26,024	6,223	19,801	25,233	6,002	19,231
Economic reasons .....	4,783	1,658	3,125	4,600	1,574	3,026
Slack work .....	2,266	1,345	921	2,158	1,278	880
Material shortages or repairs to plant and equipment .....	61	61	-	58	58	-
New job started during week .....	202	202	-	192	192	-
Job terminated during week .....	50	50	-	45	45	-
Could find only part-time work .....	2,204	-	2,204	2,146	-	2,146
Other reasons .....	21,239	4,563	16,676	20,634	4,429	16,205
Does not want, or unavailable for, full-time work .....	14,100	-	14,100	13,730	-	13,730
Vacation .....	1,141	1,141	-	1,134	1,134	-
Illness .....	1,649	1,436	213	1,608	1,407	201
Bad weather .....	314	314	-	264	264	-
Industrial dispute .....	-	-	-	-	-	-
Legal or religious holiday .....	51	51	-	51	51	-
Full time for this job .....	1,683	-	1,683	1,649	-	1,649
All other reasons .....	2,302	1,622	680	2,198	1,573	625
Average hours:						
Economic reasons .....	22.1	24.5	20.9	22.2	24.5	21.0
Other reasons .....	20.6	26.1	19.1	20.7	26.1	19.2
Worked 30 to 34 hours:						
Economic reasons .....	1,596	774	822	1,535	728	807
Other reasons .....	5,405	2,417	2,988	5,290	2,357	2,933

**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 1989								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules	
				Total	40 hours or less	41 to 48 hours			49 hours or more
Total, 16 years and over .....	108,741	4,600	16,205	87,936	56,110	11,440	20,386	39.2	43.8
Wage and salary workers .....	100,317	4,040	14,633	81,644	53,346	10,811	17,487	39.0	43.4
Mining .....	630	11	12	607	290	97	220	45.8	46.8
Construction .....	5,759	369	288	5,122	3,495	607	1,020	40.2	42.5
Manufacturing .....	20,395	540	728	19,127	12,337	3,065	3,725	42.0	43.3
Durable goods .....	12,029	220	321	11,488	7,304	1,843	2,341	42.5	43.5
Nondurable goods .....	8,366	321	407	7,638	5,033	1,222	1,383	41.3	43.1
Transportation and public utilities .....	7,398	247	449	6,702	4,221	955	1,526	41.8	44.0
Wholesale and retail trade .....	21,083	1,250	5,423	14,410	8,713	2,120	3,577	36.5	44.1
Finance, insurance, and real estate .....	7,123	111	781	6,231	4,205	718	1,308	40.2	43.0
Service industries .....	32,666	1,459	6,696	24,511	16,429	2,737	5,345	37.2	43.2
Private households .....	1,041	194	459	388	244	50	94	26.0	45.6
All other industries .....	31,625	1,265	6,237	24,123	16,185	2,687	5,251	37.6	43.2
Public administration .....	5,262	53	277	4,932	3,652	513	767	40.9	42.3
Self-employed workers .....	8,131	551	1,447	6,133	2,695	610	2,828	41.1	48.5
Unpaid family workers .....	293	8	125	160	71	19	70	37.3	49.0

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Sex, age, race, and marital status	April 1989							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	108,741	4,600	16,205	87,936	56,110	31,826	39.2	43.8
16 to 19 years .....	5,918	405	3,854	1,659	1,332	327	23.1	40.2
16 to 17 years .....	2,209	96	1,915	198	167	31	17.3	38.0
18 to 19 years .....	3,709	309	1,940	1,460	1,164	296	26.6	40.5
20 years and over .....	102,823	4,195	12,350	86,278	54,778	31,500	40.1	43.8
20 to 24 years .....	12,061	760	2,475	8,826	6,164	2,662	36.3	42.3
25 years and over .....	90,762	3,434	9,874	77,454	48,618	28,836	40.6	44.0
25 to 44 years .....	59,293	2,316	5,246	51,731	32,089	19,642	41.2	44.0
45 to 64 years .....	28,581	992	3,248	24,341	15,592	8,749	40.5	44.0
65 years and over .....	2,888	126	1,380	1,382	936	446	29.8	43.5
<b>Men, 16 years and over</b> .....	58,948	2,123	4,930	51,895	29,232	22,663	42.2	45.3
16 to 19 years .....	2,950	204	1,774	972	746	226	24.7	40.4
16 to 17 years .....	1,091	53	922	116	94	22	18.2	38.2
18 to 19 years .....	1,859	150	852	857	653	204	28.5	40.7
20 years and over .....	55,998	1,919	3,156	50,923	28,487	22,436	43.1	45.4
20 to 24 years .....	6,250	372	1,059	4,819	3,075	1,744	38.1	43.4
25 years and over .....	49,747	1,547	2,097	46,103	25,410	20,693	43.7	45.5
25 to 44 years .....	32,404	1,062	714	30,628	16,533	14,095	44.4	45.7
45 to 64 years .....	15,711	419	670	14,622	8,333	6,289	43.7	45.3
65 years and over .....	1,633	66	713	854	544	310	31.6	44.6
<b>Women, 16 years and over</b> .....	49,793	2,477	11,275	36,041	26,878	9,163	35.6	41.6
16 to 19 years .....	2,968	201	2,081	686	585	101	21.6	40.0
16 to 17 years .....	1,118	43	993	82	74	8	16.4	37.7
18 to 19 years .....	1,850	158	1,088	604	512	92	24.7	40.3
20 years and over .....	46,825	2,276	9,194	35,355	26,291	9,064	36.5	41.6
20 to 24 years .....	5,810	388	1,416	4,006	3,088	918	34.4	40.9
25 years and over .....	41,015	1,887	7,778	31,350	23,205	8,145	36.8	41.7
25 to 44 years .....	26,889	1,253	4,532	21,104	15,557	5,547	37.3	41.6
45 to 64 years .....	12,870	574	2,578	9,718	7,258	2,460	36.8	41.8
65 years and over .....	1,256	60	667	529	393	136	27.4	41.8
<b>RACE</b>								
White, 16 years and over .....	94,099	3,716	14,583	75,800	46,741	29,059	39.3	44.0
Men .....	51,573	1,708	4,357	45,508	24,653	20,855	42.5	45.6
Women .....	42,526	2,009	10,225	30,292	22,088	8,204	35.5	41.7
Black, 16 years and over .....	11,111	749	1,133	9,229	7,316	1,913	37.9	41.4
Men .....	5,502	356	386	4,760	3,515	1,245	39.6	42.5
Women .....	5,609	393	747	4,469	3,802	667	36.2	40.2
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	37,683	983	1,478	35,222	18,961	16,261	44.2	45.8
Widowed, divorced, or separated .....	5,917	286	279	5,352	2,995	2,357	43.0	45.2
Single (never married) .....	15,348	855	3,173	11,320	7,276	4,044	37.0	43.5
Women, 16 years and over:								
Married, spouse present .....	27,900	1,273	6,446	20,181	15,325	4,856	35.6	41.3
Widowed, divorced, or separated .....	9,508	524	1,230	7,754	5,536	2,218	38.5	42.4
Single (never married) .....	12,386	680	3,599	8,107	6,017	2,090	33.5	41.6

**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 1989								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup>	108,590	4,531	16,130	87,929	55,996	11,454	20,479	39.2	43.8
Managerial and professional specialty	29,443	452	2,891	26,100	13,928	3,351	8,820	42.8	45.8
Executive, administrative, and managerial	14,267	150	772	13,345	6,720	1,685	4,940	45.0	46.6
Professional specialty	15,175	302	2,118	12,755	7,208	1,666	3,880	40.9	45.0
Technical, sales, and administrative support	34,444	1,105	6,892	26,446	18,178	3,267	5,001	37.5	42.8
Technicians and related support	3,424	49	437	2,939	2,085	452	401	39.2	42.2
Sales occupations	13,308	541	3,078	9,689	4,980	1,323	3,386	38.9	46.1
Administrative support, including clerical	17,712	515	3,378	13,818	11,113	1,491	1,214	36.2	40.7
Service occupations	14,516	1,275	4,245	8,996	6,574	956	1,466	33.5	42.3
Private household	797	137	365	294	197	31	66	25.6	44.1
Protective service	1,809	28	173	1,608	955	237	417	42.1	45.0
Service, except private household and protective	11,910	1,109	3,707	7,094	5,422	688	984	32.7	41.6
Precision production, craft, and repair	13,011	560	455	11,996	7,581	1,773	2,641	41.9	43.6
Operators, fabricators, and laborers	17,176	1,139	1,646	14,391	9,733	2,107	2,551	39.3	42.8
Machine operators, assemblers, and inspectors	7,953	417	327	7,209	5,236	1,064	909	40.2	41.9
Transportation and material moving occupations	4,548	268	469	3,811	2,008	561	1,242	41.8	46.0
Handlers, equipment cleaners, helpers, and laborers	4,675	453	850	3,372	2,489	482	401	35.4	41.3
Men, 16 years and over <sup>1</sup>	58,669	2,058	4,815	51,796	29,067	7,317	15,413	42.3	45.3
Managerial and professional specialty	16,221	193	785	15,244	6,837	1,917	6,490	46.1	47.8
Executive, administrative, and managerial	8,618	77	287	8,254	3,512	997	3,745	47.2	48.4
Professional specialty	7,604	115	498	6,990	3,325	921	2,745	44.8	47.0
Technical, sales, and administrative support	11,999	239	1,363	10,396	5,529	1,516	3,351	42.4	46.0
Technicians and related support	1,748	10	126	1,612	1,041	272	299	41.5	43.4
Sales occupations	6,767	138	781	5,848	2,381	841	2,626	44.4	48.4
Administrative support, including clerical	3,484	92	456	2,937	2,107	403	426	38.8	42.4
Service occupations	5,892	340	1,231	4,321	2,934	553	834	36.8	43.4
Private household	34	5	22	7	5	-	2	( <sup>1</sup> )	( <sup>1</sup> )
Protective service	1,548	24	110	1,415	813	213	388	43.4	45.5
Service, except private household and protective	4,310	311	1,100	2,900	2,115	340	444	34.6	42.4
Precision production, craft, and repair	11,965	514	337	11,114	6,945	1,683	2,486	42.1	43.7
Operators, fabricators, and laborers	12,592	772	1,099	10,721	6,822	1,647	2,252	40.2	43.6
Machine operators, assemblers, and inspectors	4,638	175	128	4,335	2,932	691	712	41.5	42.8
Transportation and material moving occupations	4,062	226	276	3,560	1,838	540	1,182	42.9	46.1
Handlers, equipment cleaners, helpers, and laborers	3,892	372	695	2,825	2,051	416	358	35.7	41.7
Women, 16 years and over <sup>1</sup>	49,921	2,473	11,315	36,133	26,929	4,138	5,066	35.6	41.6
Managerial and professional specialty	13,221	260	2,106	10,856	7,092	1,434	2,330	38.9	43.1
Executive, administrative, and managerial	5,649	73	485	5,091	3,209	688	1,194	41.5	43.8
Professional specialty	7,572	187	1,620	5,764	3,883	746	1,135	36.9	42.5
Technical, sales, and administrative support	22,445	866	5,529	16,050	12,649	1,751	1,650	34.9	40.8
Technicians and related support	1,676	39	310	1,327	1,044	181	102	36.7	40.8
Sales occupations	6,541	403	2,296	3,841	2,599	482	760	33.1	42.5
Administrative support, including clerical	14,228	424	2,923	10,882	9,006	1,088	787	35.5	40.2
Service occupations	8,624	934	3,014	4,675	3,641	403	631	31.2	41.3
Private household	763	132	344	287	192	32	63	25.8	44.0
Protective service	261	5	63	194	141	24	29	34.5	41.2
Service, except private household and protective	7,600	798	2,608	4,194	3,307	347	539	31.6	41.1
Precision production, craft, and repair	1,046	46	118	882	636	90	156	39.1	42.3
Operators, fabricators, and laborers	4,584	366	547	3,671	2,912	460	299	37.0	40.6
Machine operators, assemblers, and inspectors	3,315	242	199	2,874	2,304	373	197	38.2	40.5
Transportation and material moving occupations	486	43	193	251	170	21	60	32.7	43.9
Handlers, equipment cleaners, helpers, and laborers	783	81	155	546	438	65	43	34.3	39.5

<sup>1</sup> Excludes farming, forestry, and fishing occupations.

<sup>2</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and sex	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	185,964	186,088	186,247	186,402	186,522	186,666	186,801	186,949	187,098	187,340	187,461	187,581	187,708
Labor force <sup>1</sup> .....	123,060	122,917	123,209	123,331	123,692	123,688	123,778	124,215	124,259	125,124	124,865	124,948	125,343
Percent of population <sup>2</sup> .....	66.2	66.1	66.2	66.2	66.3	66.3	66.3	66.4	66.4	66.8	66.6	66.6	66.8
Total employed <sup>1</sup> .....	116,392	116,117	116,686	116,707	116,895	117,074	117,260	117,652	117,705	118,407	118,537	118,820	118,797
Employment-population ratio <sup>3</sup> .....	62.6	62.4	62.7	62.6	62.7	62.7	62.8	62.9	62.9	63.2	63.2	63.3	63.3
Resident Armed Forces .....	1,732	1,714	1,685	1,673	1,692	1,704	1,687	1,705	1,696	1,696	1,684	1,684	1,684
Civilian employed .....	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113
Agriculture .....	3,187	3,110	3,121	3,060	3,142	3,176	3,238	3,238	3,193	3,300	3,223	3,206	3,104
Nonagricultural industries .....	111,473	111,293	111,880	111,974	112,061	112,194	112,335	112,709	112,816	113,411	113,630	113,930	114,009
Unemployed .....	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546
Unemployment rate <sup>4</sup> .....	5.4	5.5	5.3	5.4	5.5	5.3	5.3	5.3	5.3	5.4	5.1	4.9	5.2
Not in labor force .....	62,904	63,171	63,038	63,071	62,830	62,978	63,023	62,734	62,839	62,216	62,596	62,633	62,365
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	89,225	89,287	89,367	89,445	89,504	89,577	89,637	89,716	89,792	89,914	89,973	90,032	90,094
Labor force <sup>1</sup> .....	68,462	68,409	68,436	68,461	68,685	68,604	68,569	68,686	68,638	69,032	69,113	69,190	69,360
Percent of population <sup>2</sup> .....	76.7	76.6	76.6	76.5	76.7	76.6	76.5	76.6	76.4	76.8	76.8	76.9	77.0
Total employed <sup>1</sup> .....	64,866	64,672	64,894	64,941	64,931	65,015	64,976	65,074	65,055	65,322	65,572	65,920	65,767
Employment-population ratio <sup>3</sup> .....	72.7	72.4	72.6	72.6	72.5	72.6	72.5	72.5	72.5	72.6	72.9	73.2	73.0
Resident Armed Forces .....	1,569	1,553	1,523	1,512	1,529	1,540	1,526	1,542	1,534	1,532	1,521	1,521	1,521
Civilian employed .....	63,297	63,119	63,371	63,429	63,402	63,475	63,450	63,532	63,521	63,790	64,051	64,399	64,246
Unemployed .....	3,596	3,737	3,542	3,520	3,754	3,589	3,593	3,612	3,583	3,710	3,540	3,270	3,593
Unemployment rate <sup>4</sup> .....	5.3	5.5	5.2	5.1	5.5	5.2	5.2	5.3	5.2	5.4	5.1	4.7	5.2
Not in labor force .....	20,763	20,878	20,931	20,984	20,819	20,973	21,068	21,030	21,154	20,882	20,860	20,842	20,734
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	96,739	96,801	96,880	96,957	97,018	97,089	97,164	97,234	97,306	97,427	97,488	97,550	97,614
Labor force <sup>1</sup> .....	54,598	54,508	54,773	54,870	55,007	55,084	55,209	55,529	55,621	56,091	55,752	55,758	55,983
Percent of population <sup>2</sup> .....	56.4	56.3	56.5	56.6	56.7	56.7	56.8	57.1	57.2	57.6	57.2	57.2	57.4
Total employed <sup>1</sup> .....	51,526	51,445	51,792	51,766	51,964	52,059	52,284	52,578	52,650	53,085	52,965	52,900	53,029
Employment-population ratio <sup>3</sup> .....	53.3	53.1	53.5	53.4	53.6	53.6	53.8	54.1	54.1	54.5	54.3	54.2	54.3
Resident Armed Forces .....	163	161	162	161	163	164	161	163	162	164	163	163	163
Civilian employed .....	51,363	51,284	51,630	51,605	51,801	51,895	52,123	52,415	52,488	52,921	52,802	52,737	52,866
Unemployed .....	3,072	3,063	2,981	3,104	3,043	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953
Unemployment rate <sup>4</sup> .....	5.6	5.6	5.4	5.7	5.5	5.5	5.3	5.3	5.3	5.4	5.0	5.1	5.3
Not in labor force .....	42,141	42,293	42,107	42,087	42,011	42,005	41,955	41,705	41,685	41,336	41,736	41,792	41,631

<sup>1</sup> Includes members of the Armed Forces stationed in the United States.

<sup>2</sup> Labor force as a percent of the noninstitutional population.

<sup>3</sup> Total employment as a percent of the noninstitutional population.

<sup>4</sup> Unemployment as a percent of the labor force (including the resident

Armed Forces).

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, sex, and age	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	184,232	184,374	184,562	184,729	184,830	184,962	185,114	185,244	185,402	185,644	185,777	185,897	186,024
Civilian labor force .....	121,328	121,203	121,524	121,658	122,000	121,984	122,091	122,510	122,563	123,428	123,181	123,264	123,659
Percent of population .....	65.9	65.7	65.8	65.9	66.0	66.0	66.0	66.1	66.1	66.5	66.3	66.3	66.5
Employed .....	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113
Employment-population ratio <sup>2</sup> .....	62.2	62.0	62.3	62.3	62.3	62.4	62.4	62.6	62.6	62.9	62.9	63.0	63.0
Unemployed .....	6,668	6,800	6,523	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546
Unemployment rate .....	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	80,326	80,402	80,526	80,608	80,669	80,751	80,851	80,924	81,001	81,162	81,256	81,333	81,413
Civilian labor force .....	62,774	62,721	62,669	62,729	62,916	62,884	62,915	62,995	63,002	63,358	63,490	63,557	63,709
Percent of population .....	78.1	78.0	77.8	77.8	78.0	77.9	77.8	77.8	77.8	78.1	78.1	78.1	78.3
Employed .....	59,833	59,656	59,780	59,897	59,839	59,979	60,004	59,999	60,049	60,420	60,636	60,869	60,757
Employment-population ratio <sup>2</sup> .....	74.5	74.2	74.2	74.3	74.2	74.3	74.2	74.1	74.1	74.4	74.6	74.8	74.6
Agriculture .....	2,259	2,238	2,231	2,252	2,273	2,249	2,315	2,313	2,292	2,277	2,320	2,317	2,252
Nonagricultural industries .....	57,574	57,418	57,549	57,645	57,566	57,730	57,689	57,686	57,757	58,143	58,316	58,552	58,505
Unemployed .....	2,941	3,065	2,889	2,832	3,077	2,905	2,911	2,996	2,953	2,938	2,853	2,688	2,952
Unemployment rate .....	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6
Not in labor force .....	17,552	17,681	17,857	17,879	17,753	17,867	17,936	17,929	17,999	17,804	17,766	17,776	17,704
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	89,307	89,382	89,502	89,588	89,670	89,735	89,807	89,887	89,954	90,072	90,153	90,242	90,318
Civilian labor force .....	50,591	50,532	50,690	50,807	50,959	50,991	51,201	51,558	51,587	51,998	51,821	51,851	51,992
Percent of population .....	56.6	56.5	56.6	56.7	56.8	56.8	57.0	57.4	57.3	57.7	57.5	57.5	57.6
Employed .....	48,120	48,040	48,205	48,242	48,492	48,535	48,788	49,113	49,165	49,543	49,514	49,484	49,544
Employment-population ratio <sup>2</sup> .....	53.9	53.7	53.9	53.8	54.1	54.1	54.3	54.6	54.7	55.0	54.9	54.8	54.9
Agriculture .....	653	604	626	549	609	638	640	640	646	715	666	664	615
Nonagricultural industries .....	47,467	47,436	47,579	47,693	47,883	47,897	48,148	48,473	48,519	48,827	48,849	48,819	48,929
Unemployed .....	2,471	2,492	2,485	2,565	2,467	2,456	2,413	2,445	2,422	2,455	2,306	2,367	2,448
Unemployment rate .....	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7
Not in labor force .....	38,716	38,850	38,812	38,781	38,711	38,744	38,606	38,329	38,367	38,074	38,332	38,391	38,326
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,598	14,590	14,534	14,533	14,491	14,477	14,456	14,433	14,447	14,410	14,367	14,323	14,293
Civilian labor force .....	7,963	7,950	8,165	8,122	8,125	8,109	7,975	7,957	7,974	8,071	7,871	7,856	7,958
Percent of population .....	54.5	54.5	56.2	55.9	56.1	56.0	55.2	55.1	55.2	56.0	54.8	54.9	55.7
Employed .....	6,707	6,707	7,016	6,895	6,872	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812
Employment-population ratio <sup>2</sup> .....	45.9	46.0	48.3	47.4	47.4	47.4	46.9	47.4	47.0	46.8	46.7	47.4	47.7
Agriculture .....	275	268	264	259	260	289	283	285	255	307	237	224	237
Nonagricultural industries .....	6,432	6,439	6,752	6,636	6,612	6,567	6,498	6,550	6,540	6,441	6,466	6,559	6,575
Unemployed .....	1,256	1,243	1,149	1,227	1,253	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146
Unemployment rate .....	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4
Not in labor force .....	6,635	6,640	6,369	6,411	6,366	6,368	6,481	6,476	6,473	6,339	6,496	6,467	6,335

<sup>1</sup> The population figures are not adjusted for seasonal variation.

population.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional

HOUSEHOLD DATA  
SEASONALLY ADJUSTED

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1988										1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>WHITE</b>														
Civilian noninstitutional population <sup>1</sup> .....	157,943	158,034	158,166	158,279	158,340	158,422	158,524	158,603	158,705	158,865	158,947	159,020	159,098	
Civilian labor force .....	104,517	104,433	104,716	104,651	105,013	105,036	105,051	105,395	105,411	106,106	105,798	105,988	106,312	
Percent of population .....	66.2	66.1	66.2	66.1	66.3	66.3	66.3	66.5	66.4	66.8	66.6	66.7	66.8	
Employed .....	99,663	99,508	99,902	99,761	99,907	100,058	100,199	100,543	100,567	101,183	101,278	101,554	101,458	
Employment-population ratio <sup>2</sup> .....	63.1	63.0	63.2	63.0	63.1	63.2	63.2	63.4	63.4	63.7	63.7	63.9	63.8	
Unemployed .....	4,854	4,925	4,814	4,890	5,106	4,978	4,852	4,852	4,844	4,923	4,521	4,434	4,854	
Unemployment rate .....	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6	
<b>Men, 20 years and over</b>														
Civilian labor force .....	54,853	54,722	54,658	54,712	54,864	54,839	54,861	54,922	54,898	55,213	55,308	55,382	55,448	
Percent of population .....	78.4	78.4	78.2	78.2	78.4	78.3	78.3	78.3	78.2	78.5	78.6	78.6	78.7	
Employed .....	52,478	52,443	52,475	52,557	52,487	52,579	52,612	52,624	52,636	53,007	53,197	53,387	53,246	
Employment-population ratio <sup>2</sup> .....	75.3	75.2	75.1	75.2	75.0	75.1	75.1	75.0	75.0	75.4	75.6	75.8	75.5	
Unemployed .....	2,175	2,279	2,183	2,155	2,377	2,260	2,249	2,298	2,262	2,205	2,111	1,995	2,202	
Unemployment rate .....	4.0	4.2	4.0	3.9	4.3	4.1	4.1	4.2	4.1	4.0	3.8	3.6	4.0	
<b>Women, 20 years and over</b>														
Civilian labor force .....	42,955	42,868	42,955	42,958	43,149	43,191	43,298	43,625	43,644	43,936	43,770	43,780	44,016	
Percent of population .....	56.3	56.1	56.2	56.2	56.4	56.4	56.5	56.9	56.9	57.2	56.9	56.9	57.2	
Employed .....	41,233	41,124	41,201	41,124	41,378	41,413	41,583	41,889	41,930	42,201	42,177	42,115	42,207	
Employment-population ratio <sup>2</sup> .....	54.0	53.8	53.9	53.8	54.1	54.1	54.2	54.6	54.6	54.9	54.8	54.7	54.8	
Unemployed .....	1,722	1,744	1,754	1,834	1,771	1,778	1,715	1,736	1,714	1,734	1,593	1,665	1,810	
Unemployment rate .....	4.0	4.1	4.1	4.3	4.1	4.1	4.0	4.0	3.9	3.9	3.6	3.8	4.1	
<b>Both sexes, 16 to 19 years</b>														
Civilian labor force .....	6,909	6,843	7,103	6,981	7,000	7,006	6,892	6,848	6,869	6,958	6,720	6,826	6,848	
Percent of population .....	58.1	57.6	59.8	58.9	59.2	59.4	58.5	58.3	58.6	59.6	57.7	58.7	59.0	
Employed .....	5,952	5,941	6,226	6,080	6,042	6,066	6,004	6,030	6,001	5,975	5,904	6,052	6,005	
Employment-population ratio <sup>2</sup> .....	50.1	50.0	52.5	51.3	51.1	51.4	51.0	51.3	51.2	51.1	50.7	52.1	51.8	
Unemployed .....	957	902	877	901	958	940	888	818	868	983	816	774	843	
Unemployment rate .....	13.9	13.2	12.3	12.9	13.7	13.4	12.9	11.9	12.6	14.1	12.1	11.3	12.3	
Men .....	14.4	14.0	13.2	14.3	13.9	14.5	14.4	12.6	13.4	16.4	14.0	12.3	13.1	
Women .....	13.3	12.3	11.4	11.4	13.5	12.3	11.3	11.3	11.8	11.7	10.2	10.2	11.5	
<b>BLACK</b>														
Civilian noninstitutional population <sup>1</sup> .....	20,622	20,650	20,683	20,715	20,736	20,762	20,786	20,811	20,842	20,877	20,905	20,930	20,956	
Civilian labor force .....	13,101	13,102	13,066	13,283	13,236	13,201	13,290	13,330	13,405	13,477	13,476	13,425	13,287	
Percent of population .....	63.5	63.4	63.2	64.1	63.8	63.6	63.9	64.1	64.3	64.6	64.5	64.1	63.4	
Employed .....	11,534	11,514	11,543	11,761	11,733	11,758	11,807	11,831	11,856	11,860	11,873	11,981	11,846	
Employment-population ratio <sup>2</sup> .....	55.9	55.8	55.8	56.8	56.6	56.6	56.8	56.8	56.9	56.8	56.8	57.1	56.5	
Unemployed .....	1,567	1,588	1,523	1,522	1,503	1,443	1,483	1,499	1,549	1,617	1,603	1,464	1,442	
Unemployment rate .....	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8	
<b>Men, 20 years and over</b>														
Civilian labor force .....	6,151	6,107	6,084	6,080	6,131	6,117	6,157	6,146	6,179	6,226	6,199	6,230	6,171	
Percent of population .....	75.2	74.5	74.1	73.9	74.5	74.2	74.6	74.3	74.6	75.0	74.6	74.8	74.0	
Employed .....	5,510	5,469	5,480	5,495	5,539	5,563	5,566	5,545	5,561	5,576	5,549	5,620	5,554	
Employment-population ratio <sup>2</sup> .....	67.3	66.7	66.7	66.8	67.3	67.5	67.4	67.1	67.1	67.2	66.7	67.5	66.6	
Unemployed .....	641	638	604	585	592	554	591	601	618	650	650	611	617	
Unemployment rate .....	10.4	10.4	9.9	9.6	9.7	9.1	9.6	9.8	10.0	10.4	10.5	9.8	10.0	
<b>Women, 20 years and over</b>														
Civilian labor force .....	6,112	6,099	6,097	6,286	6,188	6,174	6,234	6,280	6,316	6,369	6,349	6,315	6,227	
Percent of population .....	59.6	59.4	59.3	61.0	60.0	59.8	60.2	60.6	60.9	61.2	61.0	60.5	59.6	
Employed .....	5,444	5,453	5,449	5,640	5,571	5,575	5,620	5,663	5,654	5,706	5,697	5,739	5,677	
Employment-population ratio <sup>2</sup> .....	53.1	53.1	53.0	54.7	54.0	54.0	54.3	54.6	54.5	54.9	54.7	55.0	54.3	
Unemployed .....	668	646	648	646	617	599	614	617	662	663	651	576	550	
Unemployment rate .....	10.9	10.6	10.6	10.3	10.0	9.7	9.8	9.8	10.5	10.4	10.3	9.1	8.8	

See footnotes at end of table.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	838	896	885	917	917	910	899	904	910	881	928	880	889
Percent of population .....	38.5	41.1	40.6	42.0	42.0	41.7	41.2	41.5	41.7	40.5	42.7	40.5	40.9
Employed .....	580	592	614	626	623	620	621	623	641	577	627	602	615
Employment-population ratio <sup>2</sup> .....	26.6	27.2	28.1	28.7	28.5	28.4	28.5	28.6	29.4	26.5	28.8	27.7	28.3
Unemployed .....	258	304	271	291	294	290	278	281	269	304	301	278	274
Unemployment rate .....	30.8	33.9	30.6	31.7	32.1	31.9	30.9	31.1	29.6	34.5	32.4	31.6	30.8
Men .....	27.9	33.2	31.5	31.2	32.1	31.9	32.8	32.1	29.8	36.7	33.1	28.6	35.5
Women .....	33.9	34.8	29.6	32.4	32.0	31.9	28.6	29.9	29.3	32.0	31.6	34.8	26.2
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,230	13,268	13,306	13,344	13,381	13,419	13,458	13,495	13,533	13,564	13,606	13,649	13,690
Civilian labor force .....	8,823	8,910	9,009	8,997	8,963	9,061	9,075	9,148	9,133	9,205	9,219	9,210	9,262
Percent of population .....	66.7	67.2	67.7	67.4	67.0	67.5	67.4	67.8	67.5	67.9	67.8	67.5	67.7
Employed .....	8,030	8,128	8,222	8,265	8,214	8,378	8,368	8,419	8,441	8,434	8,596	8,607	8,495
Employment-population ratio <sup>2</sup> .....	60.7	61.3	61.8	61.9	61.4	62.4	62.2	62.4	62.4	62.2	63.2	63.1	62.1
Unemployed .....	793	782	787	732	749	683	707	729	692	771	624	603	767
Unemployment rate .....	9.0	8.8	8.7	8.1	8.4	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3

<sup>1</sup> The population figures are not adjusted for seasonal variation.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional population.

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

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

(In thousands)

Category	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTIC</b>													
Total .....	114,660	114,403	115,001	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113
Married men, spouse present .....	40,494	40,317	40,493	40,518	40,511	40,513	40,504	40,407	40,483	40,925	40,928	41,083	40,890
Married women, spouse present .....	28,772	28,632	28,678	28,669	28,809	28,836	28,890	28,995	29,053	29,589	29,412	29,569	29,656
Women who maintain families .....	6,091	6,000	6,130	6,170	6,280	6,253	6,344	6,375	6,399	6,416	6,385	6,256	6,243
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,632	1,574	1,583	1,572	1,607	1,612	1,661	1,672	1,698	1,684	1,645	1,656	1,554
Self-employed workers .....	1,390	1,365	1,375	1,362	1,411	1,421	1,405	1,450	1,349	1,387	1,419	1,403	1,419
Unpaid family workers .....	152	155	161	149	158	137	177	125	149	189	150	138	124
Nonagricultural industries:													
Wage and salary workers .....	102,562	102,145	102,953	103,189	103,207	103,501	103,733	103,770	103,904	104,510	104,797	104,982	104,985
Government .....	17,012	16,946	17,049	17,031	17,111	17,145	17,240	17,387	17,423	17,393	17,311	17,382	17,180
Private industries .....	85,550	85,199	85,904	86,158	86,096	86,356	86,493	86,383	86,481	87,117	87,486	87,600	87,806
Private households .....	1,114	1,152	1,146	1,132	1,128	1,119	1,152	1,209	1,210	1,196	1,135	1,163	1,117
Other industries .....	84,436	84,047	84,758	85,026	84,968	85,237	85,341	85,174	85,271	85,921	86,350	86,437	86,689
Self-employed workers .....	8,567	8,816	8,536	8,531	8,508	8,570	8,479	8,619	8,602	8,718	8,517	8,645	8,671
Unpaid family workers .....	272	301	297	251	241	230	232	300	266	298	285	332	281
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
All industries:													
Part time for economic reasons .....	5,212	4,878	5,302	5,341	5,192	5,097	4,963	5,061	5,321	5,097	4,981	4,968	5,143
Slack work .....	2,264	2,267	2,346	2,471	2,315	2,266	2,220	2,279	2,549	2,302	2,303	2,232	2,373
Could only find part-time work .....	2,519	2,353	2,586	2,538	2,473	2,389	2,399	2,375	2,410	2,352	2,333	2,393	2,425
Voluntary part time .....	14,949	14,813	14,612	15,026	14,999	15,270	15,161	15,446	15,363	15,401	15,126	15,561	15,498
Nonagricultural industries:													
Part time for economic reasons .....	4,953	4,676	5,073	5,102	4,972	4,862	4,727	4,819	5,033	4,837	4,697	4,709	4,930
Slack work .....	2,131	2,136	2,183	2,334	2,171	2,102	2,095	2,116	2,377	2,144	2,105	2,048	2,243
Could only find part-time work .....	2,426	2,276	2,504	2,493	2,408	2,317	2,319	2,288	2,307	2,283	2,272	2,317	2,369
Voluntary part time .....	14,441	14,376	14,180	14,606	14,564	14,819	14,679	14,986	14,928	14,970	14,688	15,127	15,060

<sup>1</sup> 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-38. Unemployment rates by sex and age, seasonally adjusted**

(Civilian workers)

Sex and age	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over .....	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3
16 to 24 years .....	11.2	11.2	10.5	10.9	11.0	10.9	10.9	10.6	10.9	11.9	10.5	9.8	10.5
16 to 19 years .....	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4
16 to 17 years .....	17.7	16.7	15.9	17.5	18.5	19.6	17.2	15.8	16.6	18.3	18.2	15.3	14.9
18 to 19 years .....	14.1	14.8	13.3	13.1	13.7	12.8	13.3	12.9	13.3	15.4	12.7	12.5	13.8
20 to 24 years .....	8.7	8.8	8.5	8.5	8.4	8.4	6.6	8.7	8.7	9.3	8.1	7.7	8.4
25 years and over .....	4.2	4.3	4.2	4.2	4.4	4.2	4.1	4.2	4.1	4.1	4.0	3.9	4.1
25 to 54 years .....	4.4	4.5	4.4	4.4	4.5	4.4	4.3	4.4	4.3	4.2	4.2	4.1	4.4
55 years and over .....	3.0	3.3	3.0	3.1	3.2	2.9	2.8	2.8	3.0	3.1	3.1	2.6	2.9
Men, 16 years and over .....	5.4	5.6	5.3	5.3	5.6	5.4	5.4	5.4	5.3	5.5	5.2	4.8	5.3
16 to 24 years .....	11.2	11.5	11.0	11.3	11.4	11.3	11.8	10.9	11.1	12.8	11.1	9.7	10.7
16 to 19 years .....	15.9	16.3	15.4	16.3	16.0	16.4	16.5	14.8	15.4	18.6	16.7	14.2	15.5
16 to 17 years .....	17.6	17.4	17.5	18.1	17.7	20.8	18.5	17.3	17.3	20.6	19.6	15.8	17.0
18 to 19 years .....	14.7	15.3	14.3	14.4	14.5	13.5	15.0	13.0	13.5	17.9	15.1	13.2	14.6
20 to 24 years .....	8.7	8.9	8.5	8.5	8.9	8.5	9.2	8.8	8.7	9.6	8.1	7.2	8.0
25 years and over .....	4.1	4.3	4.1	4.0	4.4	4.1	4.0	4.2	4.1	4.0	4.0	3.8	4.2
25 to 54 years .....	4.3	4.4	4.2	4.2	4.5	4.3	4.2	4.4	4.3	4.2	4.1	4.0	4.4
55 years and over .....	3.2	3.5	3.2	3.2	3.4	2.9	3.0	3.2	3.3	3.0	3.4	2.8	3.2
Women, 16 years and over .....	5.6	5.6	5.5	5.7	5.5	5.5	5.3	5.3	5.4	5.4	5.0	5.1	5.3
16 to 24 years .....	11.1	10.9	10.0	10.5	10.4	10.5	9.9	10.3	10.7	10.9	9.7	10.0	10.4
16 to 19 years .....	15.6	15.0	12.6	13.8	14.8	14.5	13.3	13.3	14.2	14.0	12.8	13.1	13.2
16 to 17 years .....	17.7	16.0	14.1	16.8	19.2	18.2	15.8	14.1	15.8	15.9	16.8	14.8	12.7
18 to 19 years .....	13.5	14.2	12.1	11.6	12.8	12.0	11.6	12.8	13.1	12.7	10.0	11.7	12.8
20 to 24 years .....	8.6	8.6	8.6	8.6	8.0	8.2	7.9	8.6	8.7	9.1	8.0	8.3	8.9
25 years and over .....	4.3	4.4	4.3	4.4	4.3	4.3	4.2	4.2	4.1	4.1	3.9	4.0	4.1
25 to 54 years .....	4.6	4.6	4.6	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.2	4.3	4.4
55 years and over .....	2.8	3.1	2.8	2.9	2.8	2.9	2.4	2.4	2.6	3.1	2.5	2.3	2.6

**A-39. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.5	5.6	5.4	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3
Men, 20 years and over .....	4.7	4.9	4.6	4.5	4.9	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6
Women, 20 years and over .....	4.9	4.9	4.9	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7
Both sexes, 16 to 19 years .....	15.8	15.6	14.1	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4
White .....	4.6	4.7	4.6	4.7	4.9	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6
Black and other .....	10.6	10.9	10.3	10.1	10.0	9.5	9.8	10.0	10.0	10.6	10.6	9.8	9.6
Black .....	12.0	12.1	11.7	11.5	11.4	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8
Hispanic origin .....	9.0	8.8	8.7	8.1	8.4	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3
Married men, spouse present .....	3.1	3.3	3.2	3.1	3.4	3.1	3.1	3.3	3.1	3.1	3.1	2.9	3.2
Married women, spouse present .....	3.8	3.9	3.9	4.0	4.0	3.8	3.7	3.8	3.7	3.6	3.4	3.5	4.0
Women who maintain families .....	8.5	8.4	7.9	8.5	7.5	8.1	7.9	7.7	8.2	8.0	8.0	7.9	7.6
Full-time workers .....	5.1	5.2	5.0	5.0	5.3	5.1	5.0	5.0	5.1	5.0	4.8	4.8	5.0
Part-time workers .....	7.5	7.7	7.7	8.0	7.4	7.4	7.4	7.1	7.0	7.9	7.3	6.2	7.2
Unemployed 15 weeks and over <sup>1</sup> .....	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.2
Labor force time lost <sup>2</sup> .....	6.2	6.4	6.3	6.4	6.4	6.3	6.1	6.2	6.3	6.2	5.9	5.8	6.0
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.4	5.6	5.4	5.4	5.6	5.4	5.4	5.5	5.4	5.6	5.1	5.0	5.4
Goods-producing industries .....	6.5	6.5	6.2	6.3	6.7	6.4	6.4	6.4	6.4	6.4	6.1	5.8	6.0
Mining .....	8.1	9.4	6.8	5.4	7.0	8.6	8.8	8.9	7.7	6.1	8.0	7.0	5.6
Construction .....	10.6	10.5	10.3	10.4	10.7	9.6	10.0	10.6	10.4	10.4	10.0	9.4	9.7
Manufacturing .....	5.3	5.3	4.9	5.2	5.5	5.4	5.3	5.1	5.2	5.3	4.9	4.8	4.9
Durable goods .....	4.8	4.9	4.5	4.9	5.0	5.2	5.0	4.9	5.0	5.0	4.4	4.7	4.7
Nondurable goods .....	5.9	5.9	5.5	5.6	6.3	5.8	5.7	5.3	5.5	5.7	5.5	4.9	5.2
Service-producing industries .....	4.8	5.2	5.1	5.0	5.1	5.0	4.9	5.1	4.9	5.2	4.7	4.6	5.1
Transportation and public utilities .....	3.8	4.2	4.1	3.6	3.8	3.8	3.5	4.0	3.8	3.8	3.9	3.9	4.0
Wholesale and retail trade .....	5.9	6.3	6.0	6.2	6.4	6.2	6.0	6.2	6.3	6.3	5.6	5.6	5.9
Finance and service industries .....	4.3	4.6	4.6	4.5	4.4	4.4	4.5	4.6	4.1	4.7	4.3	4.1	4.8
Government workers .....	3.0	2.9	2.9	3.0	2.9	2.7	2.6	2.5	2.7	2.7	2.7	2.6	2.7
Agricultural wage and salary workers .....	11.0	12.4	10.0	11.0	11.0	10.8	10.2	9.3	8.8	9.5	8.9	8.9	10.5

<sup>1</sup> Unemployment as a percent of the civilian labor force.

<sup>2</sup> Aggregate hours lost by the unemployed and persons on part time

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

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

(Numbers in thousands)

Weeks of unemployment	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>DURATION</b>													
Less than 5 weeks .....	3,093	3,072	3,093	2,985	3,158	3,116	3,059	3,117	3,029	3,181	3,247	3,055	3,090
5 to 14 weeks .....	1,969	2,068	1,910	2,041	1,956	1,896	1,835	1,935	2,039	2,081	1,865	1,821	2,034
15 weeks and over .....	1,582	1,614	1,543	1,619	1,636	1,568	1,554	1,502	1,495	1,512	1,304	1,310	1,426
15 to 26 weeks .....	756	789	749	826	831	775	788	787	758	757	665	648	689
27 weeks and over .....	826	825	794	793	805	793	766	715	737	755	639	663	737
Average (mean) duration, in weeks .....	13.5	13.8	13.2	13.5	13.5	13.5	13.4	12.6	12.8	12.7	12.1	12.4	12.7
Median duration, in weeks .....	5.8	5.9	5.9	6.2	5.9	5.7	5.7	5.6	5.8	5.7	5.3	5.4	5.4
<b>PERCENT DISTRIBUTION</b>													
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 .....	46.6	45.5	47.3	44.9	46.8	47.4	47.4	47.6	46.2	47.0	50.6	49.4	47.2
5 to 14 weeks .....	29.6	30.6	29.2	30.7	29.0	28.8	28.5	29.5	31.1	30.7	29.1	29.4	31.1
15 weeks and over .....	23.8	23.9	23.6	24.4	24.2	23.8	24.1	22.9	22.8	22.3	20.3	21.2	21.8
15 to 26 weeks .....	11.4	11.7	11.4	12.4	12.3	11.8	12.2	12.0	11.5	11.2	10.4	10.5	10.5
27 weeks and over .....	12.4	12.2	12.1	11.9	11.9	12.1	11.9	10.9	11.2	11.1	10.0	10.7	11.3

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

(Numbers in thousands)

Reasons for unemployment	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	2,968	3,201	3,070	3,085	3,112	3,079	2,951	3,031	3,066	3,121	2,876	2,831	2,984
On layoff .....	844	806	861	853	880	833	844	814	819	827	774	808	847
Other job losers .....	2,124	2,395	2,209	2,232	2,232	2,246	2,107	2,217	2,247	2,294	2,102	2,023	2,137
Job leavers .....	985	942	953	923	986	985	984	963	998	985	985	885	978
Reentrants .....	1,804	1,804	1,747	1,883	1,843	1,767	1,747	1,766	1,725	1,835	1,740	1,730	1,894
New entrants .....	886	811	800	799	800	761	747	799	799	780	765	713	671
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	44.7	47.4	46.7	46.1	46.2	46.7	45.9	46.2	46.5	46.4	45.2	46.0	45.7
On layoff .....	12.7	11.9	13.1	12.8	13.1	12.6	13.1	12.4	12.4	12.3	12.2	13.1	13.0
Other job losers .....	32.0	35.4	33.6	33.4	33.1	34.1	32.8	33.8	34.1	34.1	33.0	32.8	32.7
Job leavers .....	14.8	13.9	14.5	13.8	14.6	14.9	15.3	14.7	15.1	14.7	15.5	14.4	15.0
Reentrants .....	27.2	26.7	26.6	28.1	27.3	26.8	27.2	26.9	26.2	27.3	27.3	28.1	29.0
New entrants .....	13.3	12.0	12.2	11.9	11.9	11.5	11.6	12.2	12.1	11.6	12.0	11.6	10.3
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.4	2.6	2.5	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.3	2.3	2.4
Job leavers .....	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.7	.8
Reentrants .....	1.5	1.5	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.5
New entrants .....	.7	.7	.7	.7	.7	.6	.6	.7	.7	.6	.6	.6	.5



**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 <sup>1</sup>					
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>o</sup>	Apr. 1989 <sup>o</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>o</sup>	Apr. 1989 <sup>o</sup>	
<b>Total</b> .....		104,161	105,159	106,937	107,606	108,496	-					
<b>Total private</b> .....		86,490	87,505	89,041	89,635	90,544	69,797	70,717	71,772	72,306	73,104	
<b>Mining</b> .....		723	729	705	711	720	519	525	504	510	518	
Metal mining .....	10	47.1	47.8	52.9	53.6	-	36.3	36.9	41.4	42.1	-	
Iron ores .....	101	6.9	7.0	7.3	7.6	-	5.5	5.6	5.9	6.2		
Copper ores .....	102	14.4	14.5	14.8	14.8	-	11.3	11.4	11.5	11.6		
Coal mining .....	11,12	155.4	154.0	147.3	147.5	-	127.1	125.6	120.7	120.9		
Bituminous coal and lignite mining .....	12	153.5	152.0	145.3	145.6	-	125.4	123.9	119.0	119.3		
Oil and gas extraction .....	13	414.7	414.9	400.2	401.8	404.3	276.3	276.9	264.1	265.7		
Crude petroleum, natural gas, and natural gas liquids ...	131,2	201.0	199.9	194.9	194.6	-	100.8	100.3	97.3	97.0		
Oil and gas field services .....	138	213.7	215.0	205.3	207.2	-	175.5	176.6	166.8	168.7		
Nonmetallic minerals, except fuels .....	14	105.5	112.0	104.6	107.9	-	79.4	85.7	78.1	81.5		
Crushed and broken stone .....	142	38.1	41.2	37.5	39.4	-	29.3	32.4	28.6	30.6		
Sand and gravel .....	144	31.5	34.4	30.2	31.3	-	-	-	-	-		
Chemical and fertilizer minerals .....	147	17.1	17.1	18.2	18.1	-	-	-	-	-		
<b>Construction</b> .....		4,787	5,081	4,957	5,052	5,320	3,665	3,944	3,768	3,854	4,103	
General building contractors .....	15	1,290.6	1,348.0	1,317.8	1,321.1	1,354.6	921.8	976.6	935.1	935.1		
Residential building construction .....	152	689.4	722.6	716.5	716.6	-	480.1	511.6	496.8	494.5		
Operative builders .....	153	51.8	53.0	49.9	50.1	-	23.6	24.7	22.2	21.8	-	
Nonresidential building construction .....	154	549.4	572.4	551.4	554.4	-	418.1	440.3	416.1	418.8		
Heavy construction contractors .....	16	683.1	758.9	652.2	684.6	-	559.2	633.9	524.9	555.8		
Highway and street construction .....	161	223.4	271.4	200.3	214.8	-	176.9	223.3	151.7	166.2		
Heavy construction, except highway .....	162	459.7	487.5	451.9	469.8	-	382.3	410.6	373.2	389.6		
Special trade contractors .....	17	2,812.8	2,973.7	2,987.1	3,046.3	-	2,184.3	2,333.0	2,307.7	2,363.4		
Plumbing, heating, and air conditioning .....	171	630.3	640.2	672.1	674.7	-	461.4	470.2	493.4	495.4		
Painting, paper hanging, and decorating .....	172	159.0	167.8	164.7	169.4	-	130.4	139.0	134.4	139.1	-	
Electrical work .....	173	540.8	546.2	580.6	579.3	-	416.6	421.8	445.8	444.1		
Masonry, stonework, and plastering .....	174	457.1	492.1	492.0	501.2	-	390.1	422.3	417.0	426.3		
Carpentering and flooring .....	175	174.3	180.7	185.6	189.4	-	131.8	137.9	141.4	146.2	-	
Roofing and sheet metal work .....	176	191.0	203.8	189.3	198.2	-	148.2	160.6	144.3	153.1		
<b>Manufacturing</b> .....		19,302	19,370	19,652	19,681	19,686	13,165	13,213	13,398	13,425	13,431	
<b>Durable goods</b> .....		11,377	11,433	11,610	11,619	11,619	7,575	7,618	7,734	7,744	7,746	
Lumber and wood products .....	24	734.9	743.7	744.0	744.5	744.3	611.1	620.0	616.7	617.7	617.5	
Logging camps and logging contractors .....	241	80.3	79.7	85.3	82.6	-	66.6	65.8	70.3	68.0	-	
Sawmills and planing mills .....	242	203.0	203.7	201.9	202.1	-	178.6	179.7	176.5	176.6		
Sawmills and planing mills, general .....	2421	164.8	165.7	163.8	164.0	-	144.9	146.1	143.2	143.1		
Hardwood dimension and flooring .....	2426	34.9	34.7	34.7	34.6	-	30.8	30.7	30.5	30.5		
Millwork, plywood, and structural members .....	243	256.3	261.2	259.9	261.9	-	210.1	214.8	212.2	214.4		
Millwork .....	2431	97.7	100.2	101.7	102.9	-	78.0	80.6	81.7	82.9		
Wood kitchen cabinets .....	2434	68.9	69.9	69.4	69.5	-	55.1	55.9	55.2	55.4		
Hardwood veneer and plywood .....	2435	24.4	24.4	25.1	25.1	-	21.4	21.3	21.9	21.9		
Softwood veneer and plywood .....	2436	38.2	38.1	35.3	35.4	-	34.6	34.6	31.6	31.9		
Wood containers .....	244	42.9	43.7	42.5	42.8	-	36.4	37.2	36.0	36.2	-	
Wood buildings and mobile homes .....	245	67.6	70.1	70.5	71.0	-	50.0	52.7	53.0	53.5	-	
Mobile homes .....	2451	45.4	47.2	50.1	50.2	-	36.3	38.0	40.5	40.6	-	
Miscellaneous wood products .....	249	84.8	85.3	83.9	84.1	-	69.4	69.8	68.7	69.0	-	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>o</sup>	Apr. 1989 <sup>o</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>o</sup>	Apr. 1989 <sup>o</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	534.4	534.4	542.6	543.0	544.9	426.3	426.2	434.3	435.0	434.7
Household furniture .....	251	320.8	319.9	322.7	324.0	-	271.6	270.8	273.9	274.5	-
Wood household furniture .....	2511	145.7	144.8	144.3	144.6	-	127.4	126.4	126.1	126.4	-
Upholstered household furniture .....	2512	103.3	102.4	105.0	105.3	-	86.6	85.9	88.5	88.4	-
Metal household furniture .....	2514	28.9	28.7	29.0	29.2	-	23.8	23.6	24.0	24.2	-
Mattresses and bedsprings .....	2515	29.3	29.5	30.0	30.3	-	22.4	22.5	23.1	23.1	-
Office furniture .....	252	68.1	67.3	67.5	67.3	-	51.2	50.6	50.9	51.0	-
Public building and related furniture .....	253	29.1	29.6	31.2	31.5	-	22.4	22.8	24.5	24.8	-
Partitions and fixtures .....	254	75.7	76.3	77.4	76.8	-	54.4	54.9	55.8	55.5	-
Miscellaneous furniture and fixtures .....	259	40.7	41.3	43.8	43.4	-	26.7	27.1	29.2	29.2	-
Stone, clay, and glass products .....	32	571.0	583.8	569.6	576.8	587.4	441.7	454.0	440.3	447.4	457.1
Flat glass .....	321	14.4	14.4	15.8	15.2	-	11.2	11.2	12.7	12.3	-
Glass and glassware, pressed or blown .....	322	85.0	85.8	83.5	84.0	-	73.4	74.2	72.1	72.4	-
Glass containers .....	3221	42.6	43.6	41.2	41.3	-	38.4	39.5	37.3	37.3	-
Pressed and blown glass, nec .....	3229	42.4	42.2	42.3	42.7	-	35.0	34.7	34.8	35.1	-
Products of purchased glass .....	323	51.4	51.4	52.1	52.7	-	37.8	37.9	39.9	40.6	-
Cement, hydraulic .....	324	20.0	20.2	19.6	19.8	-	15.3	15.5	14.8	14.9	-
Structural clay products .....	325	38.1	38.4	37.8	37.9	-	29.8	30.1	29.3	29.5	-
Pottery and related products .....	326	37.6	37.4	38.9	38.8	-	30.1	30.1	31.0	31.0	-
Concrete, gypsum, and plaster products .....	327	200.6	211.3	193.6	200.3	-	152.6	162.7	145.4	151.9	-
Concrete block and brick .....	3271	19.8	20.3	18.0	18.6	-	12.8	13.2	11.2	11.8	-
Concrete products, nec .....	3272	69.2	71.7	69.9	71.8	-	52.0	54.3	52.6	54.5	-
Ready-mixed concrete .....	3273	92.6	100.4	86.8	90.9	-	73.2	80.6	67.0	71.0	-
Misc. nonmetallic mineral products .....	329	111.1	111.8	114.3	113.9	-	81.5	82.0	84.2	83.9	-
Abrasive products .....	3291	21.8	22.0	22.6	22.5	-	15.1	15.3	16.0	15.9	-
Asbestos products .....	3292	8.6	8.6	8.6	8.5	-	6.5	6.4	6.5	6.4	-
Mineral wool .....	3296	24.1	24.1	24.3	24.2	-	-	-	-	-	-
Primary metal industries .....	33	774.6	775.7	795.6	798.4	796.3	591.3	593.1	608.8	611.6	611.3
Blast furnaces and basic steel products .....	331	280.5	280.9	280.6	281.2	280.7	216.8	217.7	217.4	217.9	216.7
Blast furnaces and steel mills .....	3312	212.2	212.4	210.5	210.7	-	165.3	166.2	164.5	164.8	-
Steel pipe and tubes .....	3317	24.6	24.8	25.7	25.8	-	18.6	18.7	19.5	19.5	-
Iron and steel foundries .....	332	136.4	136.8	147.0	147.2	-	109.1	109.6	116.8	117.2	-
Gray iron foundries .....	3321	84.0	83.8	88.2	87.9	-	68.6	68.4	72.4	72.2	-
Malleable iron foundries .....	3322	9.0	9.1	9.7	9.6	-	6.8	6.9	7.3	7.3	-
Steel foundries, nec .....	3325	29.3	29.7	34.1	34.3	-	22.6	23.1	26.9	27.0	-
Primary nonferrous metals .....	333	41.2	41.3	42.7	42.6	-	30.2	30.4	32.0	31.7	-
Primary aluminum .....	3334	21.9	22.0	23.1	22.9	-	16.3	16.5	17.8	17.6	-
Nonferrous rolling and drawing .....	335	183.8	184.0	185.4	186.5	-	131.7	131.9	133.0	134.1	-
Copper rolling and drawing .....	3351	24.2	24.3	24.0	24.4	-	18.6	18.7	18.2	18.7	-
Aluminum sheet, plate, and foil .....	3353	27.9	27.7	28.0	27.9	-	19.4	19.3	18.9	19.1	-
Nonferrous wire drawing and insulating .....	3357	79.8	80.2	81.0	81.4	-	57.3	57.7	59.3	59.3	-
Nonferrous foundries .....	336	88.7	88.5	93.4	94.0	-	71.1	71.1	75.0	75.6	-
Aluminum foundries .....	3361	54.7	54.6	56.2	56.4	-	44.6	44.6	45.8	46.3	-
Fabricated metal products .....	34	1,432.9	1,439.2	1,479.1	1,479.3	1,477.2	1,066.7	1,070.5	1,100.9	1,100.1	1,098.6
Metal cans and shipping containers .....	341	54.6	54.8	54.0	54.2	-	46.5	46.8	46.4	46.5	-
Metal cans .....	3411	43.8	43.9	42.7	42.8	-	37.7	37.9	37.1	37.1	-
Cutlery, hand tools, and hardware .....	342	134.9	134.8	132.3	131.9	-	100.2	100.3	98.1	97.9	-
Hand and edge tools, and hand saws and blades .....	3423.5	47.0	46.9	45.7	45.5	-	34.7	34.6	33.4	33.3	-
Hardware, nec .....	3429	76.8	76.7	75.2	75.1	-	57.8	58.0	56.9	56.8	-
Plumbing and heating, except electric .....	343	62.1	62.1	63.4	63.0	-	44.6	44.4	46.0	45.5	-
Plumbing fittings and brass goods .....	3432	26.1	26.0	27.1	27.3	-	19.2	19.0	20.3	20.4	-
Heating equipment, except electric .....	3433	24.1	24.2	24.9	24.2	-	16.2	16.3	17.0	16.3	-
Fabricated structural metal products .....	344	427.5	431.5	443.8	444.5	-	305.0	308.0	318.2	318.7	-
Fabricated structural metal .....	3441	77.4	77.9	81.1	81.0	-	55.4	55.7	58.7	58.3	-
Metal doors, sash, and trim .....	3442	89.0	91.1	89.7	90.4	-	64.8	66.3	64.9	65.5	-
Fabricated plate work (boiler shops) .....	3443	89.6	90.0	95.8	96.3	-	59.5	59.9	65.0	65.3	-
Sheet metal work .....	3444	110.3	110.9	113.0	113.0	-	82.6	83.1	84.5	84.7	-
Architectural metal work .....	3446	30.2	30.3	32.8	32.6	-	22.5	22.6	24.1	23.9	-

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>b</sup>	Apr. 1989 <sup>b</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>b</sup>	Apr. 1989 <sup>b</sup>
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Screw machine products, bolts, etc .....	345	96.0	96.9	99.1	99.3		74.0	74.2	76.0	76.1	
Screw machine products .....	3451	49.2	49.9	51.1	51.2		40.6	40.9	41.8	41.8	
Bolts, nuts, rivets, and washers .....	3452	46.8	47.0	48.0	48.1		33.4	33.3	34.2	34.3	
Metal forgings and stampings .....	346	234.0	234.5	245.8	245.9		186.6	186.5	196.1	196.3	
Iron and steel forgings .....	3462	29.9	30.1	31.8	32.0		22.9	23.1	24.6	24.7	
Automotive stampings .....	3465	94.6	95.4	99.5	99.6		80.7	81.0	84.8	84.9	
Metal stampings, nec .....	3469	98.1	97.5	103.1	102.8		74.6	73.9	78.2	78.1	
Metal services, nec .....	347	117.4	117.3	124.7	125.1		94.7	94.3	99.6	99.7	
Plating and polishing .....	3471	76.0	76.0	80.7	81.0		61.6	61.5	64.9	64.9	
Metal coating and allied services .....	3479	41.4	41.3	44.0	44.1		33.1	32.8	34.7	34.8	
Ordnance and accessories, nec .....	348	78.6	78.2	75.9	75.4		48.6	48.9	46.5	45.7	
Ammunition, except for small arms, nec .....	3483	43.6	43.1	41.8	41.4		24.2	24.3	22.9	22.2	
Misc. fabricated metal products .....	349	227.8	229.1	240.1	240.0		166.5	167.1	174.0	173.7	
Valves and pipe fittings .....	3494	84.9	85.4	91.4	91.5		58.0	58.1	61.7	61.5	
Misc. fabricated wire products .....	3496	55.1	55.5	57.6	57.3		42.2	42.5	44.2	43.7	
Machinery, except electrical .....	35	2,105.4	2,115.1	2,206.0	2,210.9	2,210.1	1,262.5	1,267.4	1,329.3	1,333.9	1,331.9
Engines and turbines .....	351	87.2	87.3	90.3	90.2	-	58.1	58.1	59.8	59.6	-
Turbines and turbine generator sets .....	3511	22.3	22.2	23.7	23.9		12.7	12.6	13.8	13.9	
Internal combustion engines, nec .....	3519	64.9	65.1	66.6	66.3		45.4	45.5	46.0	45.7	
Farm and garden machinery .....	352	105.5	106.3	110.9	111.7		74.7	75.5	81.1	82.1	
Farm machinery and equipment .....	3523	74.0	74.7	78.9	79.3		50.0	50.7	55.5	56.1	
Construction and related machinery .....	353	228.0	229.6	239.9	240.9		138.9	140.4	148.2	148.7	
Construction machinery .....	3531	82.7	82.9	86.6	87.2		51.7	51.9	54.2	54.4	
Mining machinery .....	3532	18.0	18.2	18.4	18.5		11.0	11.2	11.4	11.5	
Oil field machinery .....	3533	42.9	43.8	44.9	44.8		25.9	26.6	27.0	26.9	
Conveyors and conveying equipment .....	3535	32.7	32.8	34.2	34.4		17.1	17.4	18.7	18.8	
Industrial trucks and tractors .....	3537	26.1	26.3	27.5	27.6		18.1	18.0	18.9	19.0	
Metalworking machinery .....	354	295.3	295.5	313.6	314.8		211.7	211.3	227.7	228.8	
Machine tools, metal cutting types .....	3541	45.6	45.8	48.5	49.0		28.7	28.9	31.5	31.9	
Machine tools, metal forming types .....	3542	17.2	17.3	18.1	18.1		11.1	11.1	11.9	11.9	
Special dies, tools, jigs, and fixtures .....	3544	140.8	140.3	148.6	148.6		108.0	107.2	114.9	114.9	
Machine tool accessories .....	3545	54.0	54.2	58.4	58.9		38.5	38.5	42.0	42.4	
Power driven hand tools .....	3546	20.2	20.3	20.8	20.8		14.8	14.8	15.1	15.2	
Special industry machinery .....	355	168.5	169.7	179.4	180.0		101.0	101.8	108.1	108.3	
Food products machinery .....	3551	39.9	40.3	41.5	41.6		24.2	24.3	25.2	25.3	
Textile machinery .....	3552	20.9	20.8	21.4	21.4		13.9	13.9	14.2	14.2	
Printing trades machinery .....	3555	28.0	28.3	29.3	29.4		16.7	17.0	17.6	17.4	
General industrial machinery .....	356	253.9	254.8	265.1	265.1		163.8	164.6	172.4	172.7	
Pumps and pumping equipment .....	3561	44.7	45.1	47.3	47.5		25.9	26.3	27.5	27.6	
Ball and roller bearings .....	3562	42.2	42.3	44.0	44.1		32.8	33.0	34.4	34.6	
Air and gas compressors .....	3563	20.5	21.0	20.9	20.9		12.0	12.3	12.1	12.3	
Blowers and fans .....	3564	30.3	30.2	31.0	31.0		19.5	19.4	20.6	20.7	
Speed changers, drives, and gears .....	3566	19.8	19.9	21.2	21.3		13.7	13.8	14.8	14.8	
Power transmission equipment, nec .....	3568	17.2	17.5	18.3	18.2		11.7	11.8	12.5	12.5	
Office and computing machines .....	357	502.1	503.7	521.6	521.7		168.5	167.5	169.3	170.5	
Electronic computing equipment .....	3573	447.4	449.2	467.5	467.3		141.3	140.6	144.5	144.9	
Refrigeration and service machinery .....	358	180.6	182.0	184.6	184.5		130.1	131.2	133.4	133.3	
Refrigeration and heating equipment .....	3585	129.3	130.6	132.6	132.5		95.8	96.8	98.6	98.6	
Misc. machinery, except electrical .....	359	284.3	286.2	300.6	302.0		215.7	217.0	229.3	229.9	
Carburetors, pistons, rings, and valves .....	3592	31.5	31.8	32.2	32.3		25.2	25.2	25.5	25.5	
Machinery, except electrical, nec .....	3599	252.8	254.4	268.4	269.7		190.5	191.8	203.8	204.4	
Electrical and electronic equipment .....	36	2,108.5	2,108.4	2,109.5	2,102.4	2,095.3	1,239.9	1,239.2	1,243.4	1,235.1	1,231.1
Electric distributing equipment .....	361	108.6	108.4	112.7	112.7	-	77.9	77.5	79.6	80.0	-
Transformers .....	3612	49.6	49.5	50.8	50.7		35.6	35.4	36.5	36.6	
Switchgear and switchboard apparatus .....	3613	59.0	58.9	61.9	62.0		42.3	42.1	43.1	43.4	
Electrical industrial apparatus .....	362	185.1	185.4	188.9	189.3		128.0	128.5	131.7	132.1	
Motors and generators .....	3621	88.6	88.9	89.6	89.7		68.8	69.1	70.5	70.6	
Industrial controls .....	3622	61.4	61.3	63.0	63.3		35.6	35.7	37.1	37.5	
Household appliances .....	363	133.4	134.9	134.6	134.0		106.6	107.4	109.0	108.1	
Household refrigerators and freezers .....	3632	29.0	29.5	28.8	28.1		23.5	23.9	23.7	23.3	
Household laundry equipment .....	3633	22.2	22.2	22.6	22.6		17.9	17.9	18.5	18.5	
Electric housewares and fans .....	3634	35.0	35.4	34.7	35.0		27.4	27.7	27.6	27.9	

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Durable goods—Continued</b>											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment .....	364	193.0	192.2	196.3	196.5		140.2	139.6	142.6	142.6	
Electric lamps .....	3641	25.6	25.6	25.1	25.2		21.8	21.9	21.3	21.5	
Current-carrying wiring devices .....	3643	75.7	75.5	75.8	75.0		50.1	49.8	49.4	48.9	
Noncurrent-carrying wiring devices .....	3644	15.5	15.5	16.3	16.6		11.4	11.3	12.3	12.4	
Residential lighting fixtures .....	3645	27.4	26.9	28.3	28.9		20.5	20.2	21.5	21.8	
Radio and TV receiving equipment .....	365	80.3	80.5	87.8	88.2		54.8	55.0	61.8	61.9	
Radio and TV receiving sets .....	3651	60.6	61.0	66.6	66.8		40.3	40.4	45.5	45.7	
Communication equipment .....	366	605.0	602.1	576.2	572.7		254.1	253.0	237.1	233.7	
Telephone and telegraph apparatus .....	3661	117.6	117.8	111.6	109.9		69.0	69.7	67.1	65.7	
Radio and TV communication equipment .....	3662	487.4	484.3	464.6	462.8		185.1	183.3	170.0	168.0	
Electronic components and accessories .....	367	652.4	653.8	659.4	655.2		372.3	372.1	372.5	367.6	
Electronic tubes .....	3671-3	38.2	38.4	38.4	38.6		24.5	24.9	24.7	24.8	
Semiconductors and related devices .....	3674	257.9	259.8	266.2	263.9		101.4	102.3	102.4	98.9	
Electronic components, nec .....	3679	280.5	279.3	278.6	277.0		190.0	188.3	188.6	187.6	
Misc. electrical equipment and supplies .....	369	150.7	151.1	153.6	153.8		106.0	106.1	109.1	109.1	
Storage batteries .....	3691	28.3	28.7	28.0	28.5		21.6	21.6	21.5	21.6	
Engine electrical equipment .....	3694	66.8	66.5	68.2	67.8		50.8	50.7	52.2	52.0	
Transportation equipment .....	37	2,030.9	2,044.8	2,053.9	2,048.6	2,045.5	1,269.6	1,279.6	1,282.7	1,279.8	1,279.0
Motor vehicles and equipment .....	371	840.3	848.4	859.3	854.0	853.1	654.3	661.0	668.7	664.6	665.1
Motor vehicles and car bodies .....	3711	356.6	359.5	360.9	355.3	-	267.8	270.0	270.5	266.0	-
Truck and bus bodies .....	3713	42.6	43.8	42.6	43.1		33.3	34.2	32.8	33.4	
Motor vehicle parts and accessories .....	3714	390.9	393.9	403.5	402.6		313.9	316.3	324.2	323.5	
Truck trailers .....	3715	31.2	31.7	31.8	32.2		24.4	25.1	25.1	25.5	
Aircraft and parts .....	372	693.8	697.4	698.2	699.2		336.3	339.5	339.9	340.7	
Aircraft .....	3721	367.5	366.4	373.6	374.6		161.9	160.0	163.7	164.4	
Aircraft engines and engine parts .....	3724	145.3	151.1	146.1	145.9		68.3	74.4	73.4	73.4	
Aircraft equipment, nec .....	3728	181.0	179.9	178.5	178.7		106.1	105.1	102.8	102.9	
Ship and boat building and repairing .....	373	198.0	199.0	192.4	192.0		151.5	151.8	142.4	142.9	
Ship building and repairing .....	3731	131.3	131.0	126.2	125.9		97.4	96.5	86.9	87.7	
Boat building and repairing .....	3732	66.7	68.0	66.2	66.1		54.1	55.3	55.5	55.2	
Railroad equipment .....	374	29.5	29.9	36.5	36.9		21.4	21.8	27.3	27.5	
Guided missiles, space vehicles, and parts .....	376	205.2	205.3	203.4	202.2		62.7	61.2	60.6	59.9	
Guided missiles and space vehicles .....	3761	153.5	153.6	152.2	151.8		45.3	43.7	42.6	41.7	
Miscellaneous transportation equipment .....	379	51.5	52.1	50.5	50.5		34.4	35.3	34.0	34.3	
Travel trailers and campers .....	3792	20.0	20.6	20.2	20.0		15.6	16.2	15.9	15.8	
Instruments and related products .....	38	704.7	705.7	727.7	729.9	730.2	389.0	389.4	401.8	403.7	404.4
Engineering and scientific instruments .....	381	84.5	85.0	88.2	88.9	-	39.1	39.4	41.6	42.5	-
Measuring and controlling devices .....	382	235.3	235.4	237.6	238.5		133.9	132.9	135.7	136.1	
Environmental controls .....	3822	41.9	41.5	41.3	41.5		27.4	27.2	27.9	28.0	
Process control instruments .....	3823	52.7	52.7	55.1	55.1		28.6	28.2	29.6	29.8	
Instruments to measure electricity .....	3825	100.6	101.0	100.1	100.4		50.3	50.1	50.6	50.6	
Optical instruments and lenses .....	383	34.1	34.4	37.0	37.1		17.1	17.3	19.4	19.4	
Medical instruments and supplies .....	384	195.9	195.2	206.0	206.2		119.5	119.5	124.2	124.3	-
Surgical and medical instruments .....	3841	95.7	95.3	100.5	101.2		55.6	55.6	58.5	59.1	
Surgical appliances and supplies .....	3842	85.8	85.5	90.4	89.8		55.7	55.7	57.2	56.7	
Ophthalmic goods .....	385	38.1	38.1	37.3	37.5		26.1	26.3	25.4	25.9	
Photographic equipment and supplies .....	386	105.7	106.9	111.0	111.1		45.1	46.0	47.5	47.5	
Watches, clocks, and watchcases .....	387	11.1	10.7	10.6	10.6		8.2	8.0	8.0	8.0	
Miscellaneous manufacturing .....	39	379.9	381.9	381.6	384.9	385.7	276.9	279.0	276.2	279.2	280.2
Jewelry, silverware, and plated ware .....	391	54.4	54.8	55.7	55.7	-	37.9	38.1	39.4	39.4	-
Jewelry, precious metal .....	3911	38.0	38.5	39.7	39.7		26.3	26.7	28.0	28.0	
Musical instruments .....	393	12.4	12.5	12.7	12.7		10.3	10.5	10.5	10.5	
Toys and sporting goods .....	394	105.0	105.3	104.0	106.0		79.2	79.5	76.1	77.6	
Dolls, games, toys, and children's vehicles .....	3942.4	47.8	47.4	44.6	45.8		34.9	34.7	30.8	31.9	
Sporting and athletic goods, nec .....	3949	57.2	57.9	59.4	60.2		44.3	44.8	45.3	45.7	
Pens, pencils, office, and art supplies .....	395	33.6	33.8	33.6	33.8		23.7	23.9	23.2	23.5	
Costume jewelry and notions .....	396	39.0	39.1	38.9	39.3		29.6	29.9	30.1	30.7	
Costume jewelry .....	3961	20.7	20.5	21.5	21.5		15.8	15.7	16.5	16.7	
Miscellaneous manufactures .....	399	135.5	136.4	136.7	137.4		96.2	97.1	96.9	97.5	
Signs and advertising displays .....	3993	59.6	59.8	60.8	60.7		41.0	41.3	42.0	41.9	

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>o</sup>	Apr. 1989 <sup>o</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>o</sup>	Apr. 1989 <sup>o</sup>
<b>Nondurable goods</b> .....		7,925	7,937	8,042	8,062	8,067	5,590	5,595	5,664	5,681	5,685
Food and kindred products .....	20	1,589.6	1,590.8	1,605.0	1,604.4	1,608.0	1,114.2	1,115.0	1,133.7	1,133.1	1,135.2
Meat products .....	201	389.2	389.2	402.4	403.5	-	329.0	328.5	340.3	341.4	-
Meat packing plants .....	2011	139.3	140.1	143.3	143.8	-	116.7	117.0	119.6	120.3	-
Sausages and other prepared meats .....	2013	78.4	78.6	81.4	81.1	-	57.5	57.5	59.8	59.4	-
Poultry dressing plants .....	2016	151.1	150.4	156.4	157.3	-	136.6	136.1	141.9	142.8	-
Dairy products .....	202	162.1	163.5	159.9	161.1	-	97.6	98.8	96.7	98.1	-
Cheese, natural and processed .....	2022	42.0	42.1	41.5	42.2	-	32.0	32.2	31.5	32.3	-
Fluid milk .....	2026	80.5	80.9	78.9	79.0	-	39.8	40.1	39.5	39.7	-
Preserved fruits and vegetables .....	203	214.7	218.5	214.8	219.0	-	170.8	174.6	172.1	175.9	-
Canned specialties .....	2032	23.8	23.0	24.2	24.6	-	16.5	15.9	17.5	17.6	-
Canned fruits and vegetables .....	2033	62.9	66.7	64.1	65.8	-	49.4	52.8	51.3	53.1	-
Frozen fruits and vegetables .....	2037	41.0	42.6	39.8	41.1	-	34.7	36.9	34.5	35.7	-
Grain mill products .....	204	129.6	128.8	134.2	133.8	-	89.5	89.3	94.0	93.5	-
Flour and other grain mill products .....	2041	23.6	23.1	24.8	24.6	-	16.3	16.0	17.1	16.9	-
Prepared feeds, nec .....	2048	43.6	43.5	44.0	44.0	-	27.4	27.4	27.9	28.0	-
Bakery products .....	205	205.9	205.3	203.5	202.3	-	124.7	123.9	124.1	123.4	-
Bread, cake, and related products .....	2051	159.8	159.8	157.0	156.8	-	89.0	88.9	88.7	88.9	-
Cookies and crackers .....	2052	46.1	45.5	46.5	45.5	-	35.7	35.0	35.4	34.5	-
Sugar and confectionery products .....	206	91.4	88.2	98.2	92.5	-	70.9	68.5	77.4	71.7	-
Cane and beet sugar .....	2061-3	20.1	19.6	19.6	18.2	-	15.2	14.9	15.3	13.8	-
Confectionery products .....	2065	52.7	50.2	59.0	55.9	-	43.3	41.3	48.9	45.8	-
Fats and oils .....	207	34.6	34.5	34.6	34.4	-	25.4	25.5	25.6	25.5	-
Beverages .....	208	195.2	197.5	190.7	191.0	-	82.2	83.2	79.9	80.1	-
Malt beverages .....	2082	39.0	39.8	37.9	38.0	-	24.2	24.5	22.6	22.9	-
Bottled and canned soft drinks .....	2086	115.4	116.8	111.6	112.0	-	37.8	38.5	36.6	36.9	-
Misc. food and kindred products .....	209	166.9	165.3	166.7	166.8	-	124.1	122.7	123.6	123.5	-
Tobacco manufactures .....	21	52.1	50.5	52.9	51.3	48.2	39.2	37.4	39.4	37.9	34.8
Cigarettes .....	211	38.6	38.5	37.4	37.4	-	29.1	28.9	27.5	27.5	-
Textile mill products .....	22	728.0	726.5	723.8	724.3	725.2	632.3	631.1	626.7	627.1	627.5
Weaving mills, cotton .....	221	101.3	100.9	94.9	94.6	-	91.7	91.4	85.3	85.0	-
Weaving mills, synthetics .....	222	91.3	91.2	95.6	95.6	-	81.3	81.0	85.1	85.1	-
Weaving and finishing mills, wool .....	223	19.4	19.4	19.9	20.1	-	15.9	15.8	16.2	16.3	-
Narrow fabric mills .....	224	24.3	24.3	25.5	25.5	-	21.1	20.9	21.8	21.8	-
Knitting mills .....	225	207.7	207.9	205.1	205.9	-	183.4	184.1	180.5	181.5	-
Women's hosiery, except socks .....	2251	35.3	34.0	33.4	33.4	-	31.6	31.2	30.2	30.2	-
Hosiery, nec .....	2252	35.5	35.4	35.3	35.5	-	32.1	32.0	31.7	31.9	-
Knit outerwear mills .....	2253	66.8	68.5	66.8	67.1	-	59.8	61.2	59.5	59.9	-
Knit underwear mills .....	2254	25.7	25.6	24.6	24.8	-	21.8	21.7	20.8	21.0	-
Circular knit fabric mills .....	2257	25.5	25.3	26.0	26.3	-	22.4	22.2	22.7	22.9	-
Textile finishing, except wool .....	226	59.8	59.2	59.5	59.3	-	49.8	49.2	49.1	48.9	-
Finishing plants, cotton .....	2261	24.2	24.2	24.5	24.2	-	20.1	20.1	20.2	19.9	-
Finishing plants, synthetics .....	2262	21.8	21.4	21.2	21.2	-	17.7	17.3	17.1	17.1	-
Floor covering mills .....	227	58.1	58.2	59.6	59.8	-	46.6	46.7	48.6	48.6	-
Yarn and thread mills .....	228	111.7	110.8	109.1	109.0	-	100.1	99.4	97.5	97.5	-
Yarn mills, except wool .....	2281	82.7	82.1	81.2	81.2	-	75.0	74.4	73.2	73.3	-
Throwing and winding mills .....	2282	15.0	14.8	14.7	14.6	-	13.2	13.2	13.0	12.9	-
Miscellaneous textile goods .....	229	54.4	54.6	54.6	54.5	-	42.4	42.6	42.6	42.4	-
Apparel and other textile products .....	23	1,104.4	1,101.8	1,101.5	1,107.2	1,105.3	929.5	927.6	930.4	936.1	933.2
Men's and boys' suits and coats .....	231	58.2	57.8	57.9	58.0	-	50.4	49.9	49.8	49.7	-
Men's and boys' furnishings .....	232	313.0	313.0	308.8	310.1	-	270.5	270.5	266.7	268.4	-
Men's and boys' shirts and nightwear .....	2321	85.2	85.3	82.9	82.9	-	73.1	73.2	70.7	70.8	-
Men's and boys' separate trousers .....	2327	50.4	50.0	49.5	49.4	-	43.8	43.7	43.0	43.0	-
Men's and boys' work clothing .....	2328	96.2	96.7	94.5	95.4	-	84.3	84.7	82.8	83.8	-
Women's and misses' outerwear .....	233	352.9	351.7	348.1	349.4	-	295.1	294.0	292.3	294.1	-
Women's and misses' blouses and waists .....	2331	45.3	44.6	44.2	44.2	-	37.4	36.9	36.7	36.9	-
Women's and misses' dresses .....	2335	84.3	84.1	82.3	83.8	-	70.4	70.0	68.6	70.3	-
Women's and misses' suits and coats .....	2337	39.3	39.1	40.4	39.8	-	32.1	31.7	33.4	32.8	-
Women's and misses' outerwear, nec .....	2339	184.0	183.9	181.2	181.6	-	155.2	155.4	153.6	154.1	-

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	71.6	70.9	69.9	70.3		59.1	58.7	58.0	58.5	
Women's and children's underwear .....	2341	58.1	57.6	57.1	57.3		49.9	49.6	49.1	49.4	
Brassieres and allied garments .....	2342	13.5	13.3	12.8	13.0		9.2	9.1	8.9	9.1	
Children's outerwear .....	236	57.4	55.5	55.2	54.4		48.2	46.5	46.4	45.6	
Children's dresses and blouses .....	2361	24.3	23.5	23.4	22.7		21.1	20.4	20.3	19.7	
Misc. apparel and accessories .....	238	41.7	42.0	42.3	43.3		34.7	35.0	35.1	35.5	
Misc. fabricated textile products .....	239	192.0	193.2	200.4	202.5		157.7	159.2	166.9	168.9	
Curtains and draperies .....	2391	25.1	25.0	24.0	24.6		20.6	20.5	19.8	20.5	
House furnishings, nec .....	2392	53.3	53.6	56.1	57.1		45.3	45.5	47.4	48.2	
Automotive and apparel trimmings .....	2396	38.8	39.4	41.1	41.0		31.8	32.6	34.9	34.6	
Paper and allied products .....	26	683.8	684.0	687.1	688.4	688.1	518.7	517.6	517.4	519.1	519.0
Paper and pulp mills .....	261,2,6	190.6	191.1	189.3	189.5	-	145.2	145.4	143.4	144.1	-
Paper mills, except building paper .....	262	167.0	167.5	167.2	167.4		126.6	126.8	126.1	126.5	
Paperboard mills .....	263	53.5	53.2	53.3	53.1		40.6	40.3	40.9	40.7	
Misc. converted paper products .....	264	233.5	233.0	234.8	234.9		172.4	171.2	170.9	171.2	
Paper coating and glazing .....	2641	58.0	58.1	58.5	58.5		36.6	36.2	34.2	34.0	
Envelopes .....	2642	27.7	27.7	27.6	27.1		21.4	21.2	21.4	21.1	
Bags, except textile bags .....	2643	53.3	53.0	54.7	54.4		42.0	41.5	43.0	42.6	
Paperboard containers and boxes .....	265	206.2	206.7	209.7	210.9		160.5	160.7	162.2	163.1	
Folding paperboard boxes .....	2651	45.2	45.5	46.0	46.4		35.9	36.2	36.7	37.0	
Corrugated and solid fiber boxes .....	2653	112.6	112.4	113.9	114.2		85.3	84.7	85.5	85.7	
Sanitary food containers .....	2654	22.8	22.9	23.1	23.1		19.5	19.7	19.3	19.4	
Printing and publishing .....	27	1,548.4	1,555.5	1,596.4	1,600.7	1,604.3	869.5	874.9	888.5	891.7	894.9
Newspapers .....	271	475.3	475.3	479.6	478.7	-	172.2	172.4	169.8	170.1	-
Periodicals .....	272	126.3	126.3	131.2	131.8		46.9	46.6	46.3	45.9	
Books .....	273	113.2	114.1	117.9	118.8		61.4	62.2	62.3	63.4	
Book publishing .....	2731	84.5	85.2	87.7	88.4		38.5	38.9	38.4	39.1	
Book printing .....	2732	28.7	28.9	30.2	30.4		22.9	23.3	23.9	24.3	
Miscellaneous publishing .....	274	81.1	81.5	85.2	85.4		42.6	43.0	44.0	44.2	
Commercial printing .....	275	546.4	551.8	566.1	568.8		399.0	403.6	411.5	413.4	
Commercial printing, letterpress .....	2751	168.3	170.5	174.0	175.3		120.2	122.1	125.1	126.5	
Commercial printing, lithographic .....	2752	348.0	351.3	361.1	362.5		254.7	257.5	261.7	262.2	
Manifold business forms .....	276	51.0	51.1	52.2	52.3		35.0	34.9	35.6	35.3	
Blankbooks and bookbinding .....	278	76.8	77.0	82.4	83.0		60.8	60.8	64.2	64.5	
Printing trade services .....	279	54.9	55.2	58.3	58.4		40.7	40.5	43.0	43.0	
Chemicals and allied products .....	28	1,050.2	1,052.7	1,077.0	1,080.9	1,082.5	591.9	592.8	606.3	608.5	611.0
Industrial inorganic chemicals .....	281	133.0	132.3	133.0	133.1	-	67.1	66.8	67.5	67.9	-
Industrial inorganic chemicals, nec .....	2819	89.6	88.9	89.0	88.9		48.4	48.1	47.2	47.3	
Plastics materials and synthetics .....	282	167.7	167.8	173.4	173.6		109.4	109.8	113.9	113.6	
Plastics materials and resins .....	2821	77.1	77.3	80.1	80.2		44.7	45.3	47.3	47.4	
Organic fibers, noncellulosic .....	2824	63.3	63.3	65.5	65.5		44.6	44.6	46.6	46.0	
Drugs .....	283	223.3	225.3	234.1	235.8		101.8	102.3	105.1	105.4	
Pharmaceutical preparations .....	2834	178.0	179.3	185.4	186.9		79.5	79.9	82.1	82.4	
Soap, cleaners, and toilet goods .....	284	159.3	159.8	164.1	164.7		103.1	103.4	104.3	104.6	
Soap and other detergents .....	2841	44.6	44.6	44.9	44.2		27.7	27.8	28.0	27.5	
Polishing, sanitation, and finishing preparations .....	2842,3	42.9	42.9	45.4	45.7		25.0	25.0	26.0	26.3	
Toilet preparations .....	2844	71.8	72.3	73.8	74.8		50.4	50.6	50.3	50.8	
Paints and allied products .....	285	61.5	61.6	60.9	61.1		30.1	30.1	30.7	30.9	
Industrial organic chemicals .....	286	153.6	154.3	160.2	160.9		88.4	89.1	92.5	93.4	
Cyclic crudes and intermediates .....	2865	29.3	29.5	30.7	30.8		18.3	18.3	18.9	19.1	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	124.3	124.8	129.5	130.1		70.1	70.8	73.6	74.3	
Agricultural chemicals .....	287	54.0	53.4	53.2	53.8		35.8	34.9	34.0	34.3	
Miscellaneous chemical products .....	289	97.8	98.2	98.1	97.9		56.2	56.4	58.3	58.4	
Petroleum and coal products .....	29	161.9	164.1	163.5	164.8	167.4	104.2	106.2	104.8	105.9	108.4
Petroleum refining .....	291	125.3	125.4	128.3	128.5	-	79.6	79.5	81.6	81.6	-
Paving and roofing materials .....	295	24.0	26.1	22.0	23.0		17.6	19.6	16.0	16.9	

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	861.0	865.6	891.2	895.7	894.8	670.3	672.5	697.3	701.8	701.3
Tires and inner tubes .....	301	85.9	86.0	87.1	87.5	-	61.5	61.5	65.6	66.2	-
Rubber and plastics footwear .....	302	12.8	12.9	11.8	11.8	-	10.8	10.7	9.7	9.7	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	23.7	23.9	25.8	25.8	-	17.4	17.6	19.2	19.2	-
Fabricated rubber products, nec .....	306	107.7	107.7	110.2	110.2	-	82.6	82.6	84.7	84.8	-
Miscellaneous plastics products .....	307	630.9	635.1	656.3	660.4	-	498.0	500.1	518.1	521.9	-
Leather and leather products .....	31	145.3	145.1	143.8	144.2	143.4	119.9	119.5	119.3	119.8	119.3
Leather tanning and finishing .....	311	14.3	14.3	15.0	15.1	-	11.7	11.9	12.7	12.7	-
Footwear, except rubber .....	314	86.4	86.0	84.2	83.9	-	73.4	73.1	71.9	71.6	-
Men's footwear, except athletic .....	3143	38.6	38.3	38.0	37.5	-	31.0	30.8	30.7	30.3	-
Women's footwear, except athletic .....	3144	30.1	29.6	28.5	28.5	-	26.6	26.1	25.2	25.3	-
Luggage .....	316	11.0	11.2	11.9	12.1	-	7.7	7.7	8.6	8.8	-
Handbags and personal leather goods .....	317	16.0	15.9	14.7	14.7	-	12.8	12.4	11.3	11.5	-
<b>Transportation and public utilities .....</b>		<b>5,473</b>	<b>5,511</b>	<b>5,635</b>	<b>5,642</b>	<b>5,685</b>	<b>4,537</b>	<b>4,572</b>	<b>4,682</b>	<b>4,689</b>	<b>4,715</b>
Transportation .....		3,239	3,275	3,396	3,401	3,439	-	-	-	-	-
Railroad transportation .....	40	295.5	300.3	292.0	291.8	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	255.8	260.0	249.5	249.3	-	-	-	-	-	-
Local and interurban passenger transit .....	41	314.1	317.8	321.7	326.9	-	290.3	293.5	295.3	300.9	-
Local and suburban transportation .....	411	112.4	113.5	118.8	120.1	-	102.6	103.6	107.6	109.2	-
Taxicabs .....	412	33.6	33.8	33.3	33.2	-	-	-	-	-	-
Intercity highway transportation .....	413	30.7	31.1	32.3	32.3	-	27.7	28.2	28.9	29.0	-
School buses .....	415	114.5	115.5	114.0	116.1	-	-	-	-	-	-
Trucking and warehousing .....	42	1,490.0	1,501.2	1,564.0	1,574.1	-	1,293.8	1,304.6	1,360.3	1,370.4	-
Trucking and trucking terminals .....	421,3	1,379.5	1,391.5	1,443.6	1,454.4	-	1,201.4	1,213.1	1,258.8	1,269.8	-
Public warehousing .....	422	110.5	109.7	120.4	119.7	-	92.4	91.5	101.5	100.6	-
Water transportation .....	44	172.3	176.2	174.0	180.2	-	-	-	-	-	-
Local water transportation .....	445	25.2	25.7	26.4	27.3	-	-	-	-	-	-
Water transportation services .....	446	94.8	98.0	97.5	102.4	-	-	-	-	-	-
Transportation by air .....	45	631.0	638.8	677.4	657.0	-	-	-	-	-	-
Air transportation .....	451,2	553.4	560.3	593.4	572.1	-	-	-	-	-	-
Air transportation services .....	458	77.6	78.5	84.0	84.9	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	15.9	15.9	16.2	16.2	-	10.9	10.9	11.4	11.4	-
Transportation services .....	47	320.0	325.1	350.8	354.9	-	-	-	-	-	-
Freight forwarding .....	471	66.8	66.9	72.8	73.4	-	-	-	-	-	-
Communication and public utilities .....		2,234	2,236	2,239	2,241	2,246	-	-	-	-	-
Communication .....	48	1,305.6	1,305.7	1,310.9	1,310.0	-	985.8	987.5	994.8	994.4	-
Telephone communication .....	481	905.6	904.9	898.0	896.9	-	665.4	665.2	661.1	660.4	-
Radio and television broadcasting .....	483	242.0	242.4	248.0	247.5	-	197.9	199.0	204.9	204.7	-
Radio broadcasting .....	4832	115.4	115.9	118.9	118.4	-	-	-	-	-	-
Television broadcasting .....	4833	126.6	126.5	129.1	129.1	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	928.5	930.2	928.3	930.6	-	734.1	735.5	733.3	735.2	-
Electric services .....	491	444.4	445.6	440.6	440.8	-	338.9	340.1	336.6	336.4	-
Gas production and distribution .....	492	164.7	165.4	165.4	165.3	-	129.8	130.6	130.0	130.0	-
Combination utility services .....	493	203.8	202.0	201.8	202.3	-	167.3	165.5	164.7	165.7	-
Sanitary services .....	495	88.5	89.9	92.9	94.3	-	76.5	77.6	80.6	81.6	-
<b>Wholesale trade .....</b>		<b>6,016</b>	<b>6,065</b>	<b>6,305</b>	<b>6,337</b>	<b>6,373</b>	<b>4,832</b>	<b>4,877</b>	<b>5,064</b>	<b>5,094</b>	<b>5,121</b>
Durable goods .....	50	3,573	3,603	3,794	3,815	3,828	2,844	2,870	3,029	3,048	-
Motor vehicles and automotive equipment .....	501	443.7	447.1	458.5	459.0	-	355.8	358.7	369.0	369.6	-
Automobiles and other motor vehicles .....	5012	116.6	117.7	123.4	124.1	-	-	-	-	-	-
Automotive parts and supplies .....	5013	297.4	299.1	304.4	304.2	-	-	-	-	-	-

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Furniture and home furnishings .....	502	143.8	143.3	148.7	149.8		116.0	115.1	120.1	121.5	
Furniture .....	5021	64.3	64.1	66.9	67.6		-	-	-	-	
Home furnishings .....	5023	79.5	79.2	81.8	82.2		-	-	-	-	
Lumber and construction materials .....	503	252.0	259.0	296.5	302.1		205.0	211.3	240.9	246.3	
Lumber, plywood, and millwork .....	5031	116.2	118.6	136.9	138.6		-	-	-	-	
Construction materials, nec .....	5039	135.8	140.4	159.6	163.5		-	-	-	-	
Sporting goods, toys, and hobby goods .....	504	87.8	88.0	93.3	94.5		72.3	72.6	74.4	75.7	
Metals and minerals, except petroleum .....	505	141.6	143.0	154.0	154.9		112.0	113.1	122.2	123.0	
Electrical goods .....	506	512.3	513.8	548.2	550.7		391.1	392.5	421.5	423.5	
Electrical apparatus and equipment .....	5063	283.9	285.1	306.7	307.3		-	-	-	-	
Electrical appliances, TV and radios .....	5064	68.6	68.3	71.7	72.5		-	-	-	-	
Electronic parts and equipment .....	5065	159.8	160.4	169.8	170.9		-	-	-	-	
Hardware, plumbing, and heating equipment .....	507	267.5	268.6	274.5	275.3		215.8	216.6	222.0	222.9	
Hardware .....	5072	91.6	92.3	93.1	93.1		-	-	-	-	
Plumbing and hydronic heating supplies .....	5074	111.5	110.9	114.8	115.6		-	-	-	-	
Machinery, equipment, and supplies .....	508	1,516.6	1,529.8	1,596.2	1,604.0		1,208.0	1,220.2	1,278.8	1,285.2	
Commercial machines and equipment .....	5081	572.0	573.7	590.9	592.6		-	-	-	-	
Construction and mining machinery .....	5082	79.4	80.2	84.7	85.5		-	-	-	-	
Farm machinery and equipment .....	5083	117.7	121.0	122.7	124.7		-	-	-	-	
Industrial machinery and equipment .....	5084	312.9	316.7	334.3	336.3		-	-	-	-	
Industrial supplies .....	5085	134.1	135.4	143.7	144.4		-	-	-	-	
Professional equipment and supplies .....	5086	186.3	187.2	197.7	197.6		-	-	-	-	
Miscellaneous durable goods .....	509	207.8	210.1	223.7	224.9		168.0	169.6	179.7	180.7	
Scrap and waste materials .....	5093	95.0	96.4	105.3	105.2		-	-	-	-	
Nondurable goods .....	51	2,443	2,462	2,511	2,522	2,545	1,988	2,007	2,035	2,046	
Paper and paper products .....	511	209.1	209.0	217.6	218.6	-	169.6	169.5	175.8	176.9	
Drugs, proprietaries, and sundries .....	512	173.1	173.8	182.2	182.6		145.7	145.9	153.3	153.4	
Apparel, piece goods, and notions .....	513	200.4	199.9	207.8	208.2		152.6	152.9	161.2	161.7	
Groceries and related products .....	514	781.5	786.4	798.7	798.1		658.2	664.0	668.1	667.5	
Groceries, general line .....	5141	252.2	253.0	261.0	262.0		-	-	-	-	
Meats and meat products .....	5147	64.5	64.0	65.8	65.5		-	-	-	-	
Fresh fruits and vegetables .....	5148	94.7	98.1	99.5	97.2		-	-	-	-	
Chemicals and allied products .....	516	130.5	131.7	135.3	136.5		97.1	98.0	97.3	98.2	
Petroleum and petroleum products .....	517	200.8	201.2	207.4	208.9		156.6	157.3	162.3	163.9	
Petroleum bulk stations and terminals .....	5171	85.5	85.9	89.7	90.9		-	-	-	-	
Petroleum products, nec .....	5172	115.3	115.3	117.7	118.0		-	-	-	-	
Beer, wine, and distilled beverages .....	518	151.8	152.4	154.3	155.4		124.4	125.2	125.3	127.1	
Beer and ale .....	5181	94.3	95.4	96.1	97.3		-	-	-	-	
Wines and distilled beverages .....	5182	57.5	57.0	58.2	58.1		-	-	-	-	
Miscellaneous nondurable goods .....	519	471.5	481.5	488.1	494.7		382.8	391.3	394.8	400.9	
Farm supplies .....	5191	154.6	163.6	159.9	164.8		-	-	-	-	
<b>Retail trade .....</b>		<b>18,612</b>	<b>18,883</b>	<b>19,089</b>	<b>19,236</b>	<b>19,477</b>	<b>16,475</b>	<b>16,729</b>	<b>16,852</b>	<b>16,986</b>	<b>17,196</b>
Building materials and garden supplies .....	52	740.9	773.3	726.7	741.1		610.6	641.3	595.3	608.8	
Lumber and other building materials .....	521	404.5	415.6	396.8	399.9		338.9	349.3	331.2	334.5	
Hardware stores .....	525	160.0	162.9	164.1	166.2		132.3	135.2	135.4	137.2	
General merchandise stores .....	53	2,436.0	2,448.9	2,487.5	2,483.3	2,500.0	2,261.5	2,269.2	2,287.0	2,279.4	
Department stores .....	531	2,032.3	2,038.6	2,061.9	2,055.5	-	1,901.3	1,903.8	1,905.9	1,897.1	
Variety stores .....	533	239.2	242.2	239.4	241.9		217.6	219.9	219.2	220.9	
Misc. general merchandise stores .....	539	164.5	168.1	186.2	185.9		142.6	145.5	161.9	161.4	
Food stores .....	54	3,001.3	3,015.1	3,166.9	3,178.5	3,185.8	2,756.3	2,770.4	2,916.8	2,924.6	
Grocery stores .....	541	2,650.6	2,660.8	2,797.5	2,802.3	-	2,446.3	2,458.4	2,591.3	2,593.4	
Meat markets and freezer provisioners .....	542	58.1	58.2	59.6	60.4		-	-	-	-	
Dairy products stores .....	545	23.6	23.4	26.8	28.1		-	-	-	-	
Retail bakeries .....	546	176.5	175.3	178.4	180.2		160.5	158.6	161.0	162.5	
Automotive dealers and service stations .....	55	2,034.1	2,055.4	2,085.2	2,094.5	2,112.0	1,699.8	1,717.8	1,741.0	1,749.0	
New and used car dealers .....	551,2	997.0	1,001.9	1,017.2	1,017.4	-	825.6	829.5	843.9	843.7	
Auto and home supply stores .....	553	319.3	325.1	327.8	329.8		258.3	262.9	263.5	265.0	
Gasoline service stations .....	554	618.5	622.8	634.4	637.5		537.2	540.8	550.7	553.4	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,073.6	1,078.3	1,093.0	1,100.3	-	906.3	910.2	916.3	924.7	
Men's and boys' clothing and furnishings .....	561	103.3	104.2	101.4	102.1	-	84.5	85.0	82.0	82.7	
Women's ready-to-wear stores .....	562	373.8	376.5	378.4	382.3	-	315.1	317.6	316.4	320.4	
Family clothing stores .....	565	248.9	248.9	252.8	252.8	-	216.5	216.2	217.9	218.0	
Shoe stores .....	566	217.5	216.9	222.1	226.7	-	179.7	179.6	184.0	188.9	
Furniture and home furnishings stores .....	57	817.5	817.2	829.1	825.8	-	669.7	669.8	677.2	675.5	
Furniture and home furnishings stores .....	571	451.7	452.0	466.1	466.6	-	366.8	367.2	379.1	379.8	
Furniture stores .....	5712	281.2	281.6	290.9	291.6	-	-	-	-	-	
Household appliance stores .....	572	92.7	94.4	81.5	81.6	-	79.3	80.6	67.7	68.0	
Radio, television, and music stores .....	573	273.1	270.8	281.5	277.6	-	223.6	222.0	230.4	227.7	
Radio and television stores .....	5732	196.9	193.8	201.1	198.4	-	-	-	-	-	
Music stores .....	5733	76.2	77.0	80.4	79.2	-	-	-	-	-	
Eating and drinking places .....	58	6,142.5	6,313.3	6,213.5	6,338.0	6,514.6	5,584.3	5,751.2	5,634.5	5,754.1	
Miscellaneous retail .....	59	2,366.4	2,381.4	2,486.9	2,474.2	-	1,986.3	1,998.7	2,084.2	2,069.5	
Drug stores and proprietary stores .....	591	590.9	588.2	594.9	596.4	-	504.0	500.9	503.7	504.0	
Liquor stores .....	592	122.4	123.1	124.3	125.2	-	-	-	-	-	
Miscellaneous shopping goods stores .....	594	777.2	779.1	823.4	817.7	-	646.6	649.1	685.9	680.2	
Sporting goods and bicycle shops .....	5941	138.7	138.0	148.5	148.5	-	-	-	-	-	
Book stores .....	5942	79.2	78.5	85.7	84.3	-	-	-	-	-	
Stationery stores .....	5943	77.0	76.8	79.3	79.2	-	-	-	-	-	
Jewelry stores .....	5944	150.2	151.4	157.2	156.4	-	-	-	-	-	
Gift, novelty, and souvenir shops .....	5947	148.8	152.1	162.1	161.3	-	-	-	-	-	
Sewing, needlework, and piece goods .....	5949	61.2	61.1	62.3	62.6	-	-	-	-	-	
Nonstore retailers .....	596	279.4	279.0	261.0	260.8	-	249.7	249.0	231.0	230.5	
Mail order houses .....	5961	128.8	127.5	119.6	119.1	-	-	-	-	-	
Merchandising machine operators .....	5962	89.8	90.0	89.2	89.7	-	-	-	-	-	
Fuel and ice dealers .....	598	113.5	112.1	124.2	122.9	-	94.9	93.5	104.0	102.8	
Retail stores, nec .....	599	395.5	411.5	466.4	457.4	-	319.8	333.3	382.4	373.6	
<b>Finance, insurance, and real estate<sup>3</sup></b> .....		6,599	6,628	6,689	6,708	6,732	4,782	4,804	4,815	4,829	4,852
Finance .....		3,293	3,292	3,312	3,318	3,320	-	-	-	-	
Banking .....	60	1,728.9	1,728.8	1,742.1	1,746.9	-	1,236.3	1,236.3	1,240.0	1,243.5	
Commercial and stock savings banks .....	602	1,555.9	1,554.2	1,560.4	1,563.4	-	1,109.1	1,107.9	1,106.7	1,109.0	
State banks, Federal Reserve .....	6022	344.8	343.9	343.0	342.7	-	-	-	-	-	
State banks, not Federal Reserve .....	6023,4	372.4	372.7	377.3	378.4	-	-	-	-	-	
Mutual savings banks .....	603	84.2	84.9	86.7	86.9	-	-	-	-	-	
Credit agencies other than banks .....	61	890.3	889.1	901.1	901.9	-	660.6	660.2	670.1	671.7	
Savings and loan associations .....	612	395.6	393.9	393.3	392.4	-	299.7	298.7	296.7	296.2	
Federal savings and loan associations .....	6122	222.1	221.8	222.6	222.5	-	-	-	-	-	
State associations, insured .....	6123	168.7	167.4	166.1	165.3	-	-	-	-	-	
Personal credit institutions .....	614	244.9	244.8	253.7	255.7	-	188.6	188.5	196.9	198.8	
Business credit institutions .....	615	61.4	62.8	75.2	76.3	-	-	-	-	-	
Mortgage bankers and brokers .....	616	165.0	164.4	157.3	156.0	-	-	-	-	-	
Security, commodity brokers, and services .....	62	462.0	460.8	448.0	448.0	-	-	-	-	-	
Security brokers and dealers .....	621	358.3	356.7	341.4	341.4	-	-	-	-	-	
Holding and other investment offices .....	67	212.0	213.2	220.7	221.5	-	-	-	-	-	
Insurance .....		2,058	2,063	2,101	2,101	2,101	-	-	-	-	
Insurance carriers .....	63	1,441.1	1,443.7	1,466.7	1,468.4	-	962.3	963.5	971.1	968.9	
Life insurance .....	631	591.4	591.6	596.5	596.0	-	354.5	355.2	355.9	354.1	
Medical service and health insurance .....	632	201.7	201.8	212.5	212.7	-	163.3	163.1	172.4	172.4	
Fire, marine, and casualty insurance .....	633	545.8	547.6	553.0	554.6	-	367.4	367.6	363.6	362.7	
Title insurance .....	636	55.5	56.0	55.7	55.6	-	-	-	-	-	
Insurance agents, brokers, and service .....	64	617.0	618.8	634.2	632.8	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,248	1,273	1,276	1,289	1,311	-	-	-	-	-
Real estate .....	65	1,238.0	1,262.8	1,266.3	1,279.7	-	-	-	-	-	-
Real estate operators and lessors .....	651	522.9	533.3	531.6	540.5	-	-	-	-	-	-
Real estate agents and managers .....	653	536.9	540.9	551.5	552.2	-	-	-	-	-	-
Subdividers and developers .....	655	145.8	156.0	150.0	153.9	-	-	-	-	-	-
Combined real estate, insurance, etc .....	66	10.0	10.0	9.4	9.3	-	-	-	-	-	-
<b>Services .....</b>		<b>24,978</b>	<b>25,238</b>	<b>26,009</b>	<b>26,268</b>	<b>26,551</b>	<b>21,822</b>	<b>22,053</b>	<b>22,689</b>	<b>22,919</b>	<b>23,168</b>
Hotels and other lodging places .....	70	1,496.4	1,530.4	1,560.7	1,591.7	-	-	-	-	-	-
Hotels, motels, and tourist courts .....	701	1,456.8	1,487.6	1,519.2	1,548.1	-	1,296.4	1,323.3	1,348.1	1,374.0	-
Personal services .....	72	1,244.6	1,252.2	1,279.3	1,288.0	-	-	-	-	-	-
Laundry, cleaning, and garment services .....	721	408.6	410.7	413.0	413.1	-	363.7	365.3	366.5	366.5	-
Photographic studios, portrait .....	722	56.1	55.4	51.7	52.5	-	-	-	-	-	-
Beauty shops .....	723	356.8	358.8	359.5	360.5	-	319.0	320.6	320.5	321.0	-
Funeral service and crematories .....	726	77.4	77.9	78.9	79.1	-	-	-	-	-	-
Business services .....	73	5,345.4	5,381.9	5,519.5	5,554.8	5,590.6	4,563.7	4,599.7	4,689.8	4,718.8	-
Advertising .....	731	213.7	212.8	218.2	218.2	-	159.7	158.8	161.5	161.2	-
Advertising agencies .....	7311	158.1	157.4	161.9	161.9	-	-	-	-	-	-
Credit reporting and collection .....	732	95.2	95.3	96.6	96.7	-	-	-	-	-	-
Mailing, reproduction, and stenographic .....	733	230.8	232.8	257.2	260.0	-	-	-	-	-	-
Services to buildings .....	734	705.1	720.4	716.5	720.3	-	638.9	653.0	649.2	652.4	-
Personnel supply services .....	736	1,247.9	1,254.6	1,245.2	1,262.1	-	-	-	-	-	-
Employment agencies .....	7361	187.3	188.3	185.1	187.0	-	-	-	-	-	-
Temporary help supply services .....	7362	978.1	983.2	975.9	990.6	-	-	-	-	-	-
Computer and data processing services .....	737	707.0	711.4	776.0	783.1	-	552.1	556.1	604.4	609.2	-
Computer programming and software .....	7372	268.2	272.4	299.4	302.0	-	-	-	-	-	-
Data processing services .....	7374	322.0	321.4	350.6	353.7	-	-	-	-	-	-
Miscellaneous business services .....	739	2,136.3	2,145.0	2,198.8	2,203.6	-	-	-	-	-	-
Research development laboratories, nec .....	7391	197.5	197.4	202.6	202.5	-	-	-	-	-	-
Management and public relations .....	7392	611.2	612.8	618.1	624.2	-	-	-	-	-	-
Detective and protective services .....	7393	459.9	463.3	472.6	470.3	-	-	-	-	-	-
Equipment rental and leasing .....	7394	249.3	252.6	260.8	261.1	-	-	-	-	-	-
Photofinishing laboratories .....	7395	75.9	76.5	76.5	75.8	-	-	-	-	-	-
Auto repair, services, and garages .....	75	819.3	818.8	846.9	851.8	-	680.5	680.6	695.7	700.2	-
Automotive rentals, without drivers .....	751	163.9	161.2	173.3	175.3	-	-	-	-	-	-
Automotive repair shops .....	753	488.4	493.0	509.8	511.4	-	401.6	406.9	417.5	418.7	-
Miscellaneous repair services .....	76	332.9	335.8	349.0	351.4	-	275.0	276.8	283.6	284.8	-
Electrical repair shops .....	762	107.8	108.8	121.5	122.7	-	-	-	-	-	-
Motion pictures .....	78	233.9	229.2	240.5	246.7	-	194.3	190.9	203.4	209.3	-
Motion picture production and services .....	781	116.3	107.9	127.9	132.3	-	91.3	84.6	105.1	109.5	-
Motion picture theaters .....	783	102.0	105.9	96.0	98.7	-	-	-	-	-	-
Amusement and recreation services .....	79	828.3	905.1	852.7	903.3	-	699.4	766.1	733.3	780.3	-
Health services .....	80	7,081.4	7,112.1	7,524.8	7,580.3	7,614.3	6,292.9	6,318.2	6,687.1	6,738.4	-
Offices of physicians .....	801	1,107.1	1,116.3	1,202.4	1,210.5	-	906.6	915.2	986.5	993.5	-
Offices of dentists .....	802	482.5	484.0	508.7	514.1	-	424.3	425.6	444.3	448.8	-
Nursing and personal care facilities .....	805	1,309.8	1,310.7	1,356.1	1,363.6	-	1,182.0	1,182.6	1,225.3	1,232.3	-
Skilled nursing care facilities .....	8051	876.4	878.0	906.8	912.2	-	-	-	-	-	-
Nursing and personal care, nec .....	8059	433.4	432.7	449.3	451.4	-	-	-	-	-	-
Hospitals .....	806	3,278.9	3,291.7	3,446.4	3,466.1	-	2,995.4	3,005.9	3,152.2	3,171.7	-
General medical and surgical hospitals .....	8062	3,055.6	3,067.5	3,209.9	3,228.1	-	-	-	-	-	-
Psychiatric hospitals .....	8063	79.9	80.7	84.8	85.3	-	-	-	-	-	-
Specialty hospitals, excluding psychiatric .....	8069	143.4	143.5	151.7	152.7	-	-	-	-	-	-
Medical and dental laboratories .....	807	142.9	144.9	161.1	162.9	-	-	-	-	-	-
Outpatient care facilities .....	808	275.1	278.9	320.8	326.7	-	-	-	-	-	-

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 <sup>1</sup>				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>
<b>Services—Continued</b>											
Legal services .....	81	807.1	811.1	844.6	851.9		675.2	678.0	705.6	709.7	
Educational services .....	82	1,570.6	1,567.1	1,617.3	1,620.5	-					
Elementary and secondary schools .....	821	385.8	383.9	393.5	393.1						
Colleges and universities .....	822	1,013.3	1,009.9	1,039.0	1,040.2						
Correspondence and vocational schools .....	824	80.9	80.6	83.3	84.0						
Social services .....	83	1,572.7	1,584.4	1,660.4	1,675.3						
Individual and family services .....	832	305.4	304.7	312.2	314.1						
Job training and related services .....	833	226.7	230.0	217.8	218.8						
Residential care .....	836	365.4	367.2	390.7	392.9						
Museums, botanical and zoological gardens .....	84	48.0	49.8	46.7	48.4						
Membership organizations .....	86	1,589.7	1,593.2	1,605.9	1,612.7						
Business associations .....	861	92.5	92.2	93.5	93.9						
Labor organizations .....	863	135.4	133.7	135.0	137.5						
Civic and social associations .....	864	371.3	375.3	383.4	386.4						
Miscellaneous services .....	89	1,386.5	1,389.8	1,463.3	1,474.6		1,122.5	1,123.7	1,174.5	1,182.1	
Engineering and architectural services .....	891	733.7	739.3	778.9	784.3		612.6	616.8	644.6	648.2	
Noncommercial research organizations .....	892	124.7	124.8	130.4	133.9		-	-	-	-	
Accounting, auditing, and bookkeeping .....	893	500.6	497.9	523.9	525.7		390.2	386.9	404.5	405.2	
<b>Government .....</b>		17,671	17,654	17,896	17,971	17,952					
Federal Government <sup>4</sup> .....		2,964	2,963	2,969	2,973	2,974					
Executive, by agency <sup>4</sup> .....		2,905.6	2,905.2	2,910.3							
Department of Defense .....		973.0	967.5	962.6							
Postal Service <sup>5</sup> .....		827.1	827.2	840.2							
Other executive agencies .....		1,105.5	1,110.5	1,107.5							
Legislative .....		37.7	37.6	37.4							
Judicial .....		20.5	20.6	21.2							
Federal government, by industry:											
Manufacturing activities .....		122.5	121.7	123.6	123.7		-				
Shipbuilding and repairing .....	3731	74.0	74.1	74.2	74.3						
Transportation and public utilities, except Postal Service .....		44.3	44.0	38.3	37.4						
Services .....		422.0	421.3	431.4	430.8			-			
Hospitals .....	806	249.4	247.5	248.3	248.3						
State government .....		4,140	4,150	4,177	4,194	4,197					
Hospitals .....	806	443.8	445.1	446.7	446.3	-					
Education .....	82	1,739.6	1,737.2	1,736.2	1,748.8						
General administration, including executive, legislative, and judicial functions .....		1,417.8	1,426.5	1,451.6	1,454.0						
Local government .....		10,567	10,541	10,750	10,804	10,781					
Transportation and public utilities .....		488.2	489.1	495.5	496.4	-					
Hospitals .....	806	627.7	629.2	649.4	651.9	-					
Education .....	82	6,059.9	6,024.9	6,153.5	6,193.2						
General administration, including executive, legislative, and judicial functions .....		3,056.5	3,057.9	3,096.5	3,106.8						

<sup>1</sup> 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.

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

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

<sup>4</sup> Prepared by the Office of Personnel Management. Data relate to

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

<sup>5</sup> Includes rural mail carriers.

- Data not available.

<sup>p</sup> = preliminary.

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



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Industry	Jan. 1988	Feb. 1988	Dec. 1988	Jan. 1989	Feb. 1989
<b>Total</b> .....	48,130	48,375	50,909	50,021	50,295
<b>Total private</b> .....	39,177	39,283	41,633	40,880	40,958
<b>Goods-producing</b> .....	6,955	6,963	7,202	7,156	7,165
<b>Mining</b> .....	96	96	98	98	97
<b>Construction</b> .....	534	534	589	583	584
<b>Manufacturing</b> .....	6,325	6,333	6,515	6,475	6,484
<b>Durable goods</b> .....	3,047	3,048	3,141	3,127	3,123
Lumber and wood products .....	119	119	123	122	121
Furniture and fixtures .....	168	167	170	170	170
Stone, clay, and glass products .....	114	115	119	117	118
Primary metal industries .....	104	105	109	109	109
Fabricated metal products .....	324	324	336	336	334
Machinery, except electrical .....	466	467	488	490	490
Electrical and electronic equipment .....	882	879	896	888	883
Transportation equipment .....	395	392	403	403	402
Instruments and related products .....	306	308	319	319	319
Miscellaneous manufacturing .....	169	173	178	173	177
<b>Nondurable goods</b> .....	3,278	3,285	3,374	3,348	3,361
Food and kindred products .....	503	500	528	511	509
Tobacco manufactures .....	19	18	19	18	18
Textile mill products .....	351	351	349	348	349
Apparel and other textile products .....	874	880	875	872	882
Paper and allied products .....	165	164	170	167	167
Printing and publishing .....	663	665	697	697	699
Chemicals and allied products .....	301	302	315	316	317
Petroleum and coal products .....	23	23	26	26	26
Rubber and misc. plastics products .....	296	296	310	309	309
Leather and leather products .....	85	85	85	84	84
<b>Service-producing</b> .....	41,175	41,412	43,707	42,865	43,130
<b>Transportation and public utilities</b> .....	1,575	1,581	1,660	1,650	1,653
<b>Wholesale trade</b> .....	1,783	1,790	1,913	1,898	1,907
<b>Retail trade</b> .....	9,915	9,815	10,772	10,230	10,091
<b>Finance, insurance, and real estate</b> .....	4,119	4,113	4,215	4,197	4,206
<b>Services</b> .....	14,830	15,021	15,871	15,749	15,936
<b>Government</b> .....	8,908	9,091	9,276	9,141	9,337
Federal .....	1,051	1,053	1,062	1,055	1,058
State .....	1,943	2,008	2,050	1,994	2,063
Local .....	5,914	6,030	6,164	6,092	6,216

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

introduced, all unadjusted data from April 1987 forward are subject to revision.



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

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

(In thousands)

Industry	1988											1989	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>Total</b> .....	48,615	48,772	48,865	48,999	49,306	49,371	49,491	49,658	49,739	49,994	50,146	50,347	50,541
<b>Total private</b> .....	39,767	39,881	39,969	40,075	40,357	40,459	40,549	40,646	40,743	40,941	41,111	41,294	41,454
<b>Goods-producing</b> .....	7,028	7,040	7,058	7,082	7,103	7,125	7,112	7,116	7,142	7,173	7,190	7,227	7,230
<b>Mining</b> .....	96	96	97	97	99	97	100	98	98	98	98	98	97
<b>Construction</b> .....	549	552	558	566	569	574	578	581	582	585	591	597	600
<b>Manufacturing</b> .....	6,383	6,392	6,403	6,419	6,435	6,454	6,434	6,437	6,462	6,490	6,501	6,532	6,533
<b>Durable goods</b> .....	3,062	3,067	3,077	3,085	3,096	3,112	3,107	3,106	3,114	3,124	3,130	3,141	3,137
Lumber and wood products .....	122	122	123	123	123	123	123	123	123	125	125	126	125
Furniture and fixtures .....	166	166	166	167	166	168	166	168	168	168	169	169	169
Stone, clay, and glass products .....	116	116	117	118	117	119	118	117	117	118	120	119	120
Primary metal industries .....	105	104	105	106	108	107	107	108	108	109	109	109	109
Fabricated metal products .....	325	326	327	329	331	333	332	331	332	334	334	337	336
Machinery, except electrical .....	467	469	471	473	476	480	482	483	485	488	487	490	489
Electrical and electronic equipment .....	882	885	886	885	890	891	891	890	893	893	890	888	886
Transportation equipment .....	393	393	396	397	397	398	396	394	397	397	400	404	403
Instruments and related products .....	308	308	308	309	311	313	314	314	315	315	318	319	319
Miscellaneous manufacturing .....	178	178	178	178	177	180	178	178	176	177	178	180	181
<b>Nondurable goods</b> .....	3,321	3,325	3,326	3,334	3,339	3,342	3,327	3,331	3,348	3,366	3,371	3,391	3,396
Food and kindred products .....	528	526	528	526	526	521	514	519	528	534	531	537	537
Tobacco manufactures .....	18	17	17	17	17	18	18	17	17	18	18	17	18
Textile mill products .....	353	352	350	351	351	351	347	347	347	348	348	350	352
Apparel and other textile products .....	879	880	875	877	874	874	868	867	867	873	875	879	881
Paper and allied products .....	167	167	167	167	168	169	169	169	169	170	170	170	170
Printing and publishing .....	666	669	672	673	677	679	683	683	687	689	694	698	699
Chemicals and allied products .....	304	305	307	309	311	311	313	313	315	315	315	319	318
Petroleum and coal products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Rubber and misc. plastics products .....	296	298	300	303	304	307	304	304	305	308	309	309	309
Leather and leather products .....	86	87	86	86	86	87	85	86	86	85	85	85	85
<b>Service-producing</b> .....	41,587	41,732	41,807	41,917	42,203	42,246	42,379	42,542	42,597	42,821	42,956	43,120	43,311
<b>Transportation and public utilities</b> .....	1,588	1,599	1,602	1,610	1,625	1,625	1,632	1,630	1,634	1,643	1,650	1,655	1,660
<b>Wholesale trade</b> .....	1,802	1,813	1,813	1,826	1,838	1,848	1,854	1,864	1,874	1,887	1,902	1,911	1,919
<b>Retail trade</b> .....	10,127	10,123	10,130	10,161	10,192	10,198	10,218	10,232	10,232	10,265	10,279	10,375	10,414
<b>Finance, insurance, and real estate</b> .....	4,139	4,147	4,141	4,147	4,164	4,167	4,173	4,180	4,193	4,209	4,219	4,218	4,231
<b>Services</b> .....	15,083	15,159	15,225	15,249	15,435	15,496	15,560	15,624	15,668	15,764	15,871	15,908	16,000
<b>Government</b> .....	8,848	8,891	8,896	8,924	8,949	8,912	8,942	9,012	8,996	9,053	9,035	9,053	9,087
Federal .....	1,061	1,061	1,057	1,054	1,050	1,050	1,057	1,067	1,070	1,068	1,066	1,065	1,065
State .....	1,952	1,960	1,968	1,971	1,978	1,987	1,990	2,007	2,000	2,004	2,002	1,998	2,005
Local .....	5,835	5,870	5,871	5,899	5,921	5,875	5,895	5,938	5,926	5,981	5,967	5,990	6,017

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

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-6. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>p</sup>	Apr. <sup>p</sup>
<b>Total private</b> .....	71,170	71,260	71,736	71,948	72,063	72,109	72,328	72,627	72,834	73,200	73,364	73,510	73,570
<b>Goods-producing</b> .....	17,909	17,925	18,025	18,085	18,058	18,049	18,124	18,210	18,240	18,363	18,326	18,300	18,288
<b>Mining</b> .....	533	535	535	535	536	530	527	519	517	516	515	520	526
<b>Construction</b> .....	4,096	4,088	4,149	4,168	4,170	4,187	4,185	4,226	4,242	4,329	4,301	4,268	4,261
<b>Manufacturing</b> .....	13,280	13,302	13,341	13,382	13,352	13,332	13,412	13,465	13,481	13,518	13,510	13,512	13,501
<b>Durable goods</b> .....	7,632	7,649	7,676	7,720	7,705	7,689	7,733	7,765	7,776	7,799	7,781	7,766	7,760
Lumber and wood products .....	633	632	634	630	628	626	632	638	641	646	640	637	631
Furniture and fixtures .....	427	429	429	432	428	430	432	433	433	432	433	435	435
Stone, clay, and glass products .....	457	455	457	460	457	455	457	459	461	462	462	460	460
Primary metal industries .....	591	594	599	605	601	603	609	610	610	609	608	608	609
Blast furnaces and basic steel products .....	219	218	219	220	218	216	218	218	217	218	218	218	218
Fabricated metal products .....	1,073	1,079	1,085	1,091	1,087	1,088	1,096	1,100	1,103	1,110	1,108	1,105	1,101
Machinery, except electrical .....	1,262	1,269	1,273	1,287	1,289	1,289	1,299	1,310	1,316	1,321	1,328	1,327	1,327
Electrical and electronic equipment .....	1,244	1,244	1,250	1,254	1,256	1,254	1,257	1,261	1,253	1,249	1,245	1,238	1,236
Transportation equipment .....	1,276	1,278	1,276	1,284	1,284	1,269	1,276	1,277	1,277	1,287	1,273	1,271	1,275
Motor vehicles and equipment .....	658	660	660	671	674	664	672	671	669	679	666	658	662
Instruments and related products .....	389	391	394	395	396	396	399	400	403	402	402	403	404
Miscellaneous manufacturing .....	280	278	279	282	279	279	276	277	279	281	282	282	282
<b>Nondurable goods</b> .....	5,648	5,653	5,665	5,662	5,647	5,643	5,679	5,700	5,705	5,719	5,729	5,746	5,741
Food and kindred products .....	1,169	1,164	1,168	1,153	1,151	1,153	1,174	1,181	1,176	1,184	1,185	1,188	1,190
Tobacco manufactures .....	40	39	40	39	38	37	38	40	40	38	39	40	38
Textile mill products .....	632	632	630	632	622	626	626	626	625	630	629	628	629
Apparel and other textile products .....	926	925	923	922	916	915	916	922	924	927	931	937	931
Paper and allied products .....	520	521	523	524	524	520	521	522	522	521	520	522	522
Printing and publishing .....	871	872	875	876	879	880	883	885	889	890	890	893	891
Chemicals and allied products .....	593	596	599	600	603	601	603	603	605	608	609	609	612
Petroleum and coal products .....	107	108	108	108	109	109	110	110	110	108	108	108	109
Rubber and misc. plastics products .....	670	676	679	687	685	682	688	692	695	693	697	700	699
Leather and leather products .....	120	120	120	121	120	120	120	119	119	120	121	121	120
<b>Service-producing</b> .....	53,261	53,335	53,711	53,863	54,005	54,060	54,204	54,417	54,594	54,837	55,038	55,210	55,282
<b>Transportation and public utilities</b> .....	4,600	4,611	4,632	4,648	4,661	4,656	4,672	4,701	4,718	4,733	4,744	4,741	4,743
<b>Wholesale trade</b> .....	4,902	4,924	4,956	4,975	4,990	5,011	5,030	5,054	5,071	5,096	5,120	5,140	5,147
<b>Retail trade</b> .....	16,949	16,949	17,028	17,070	17,087	17,078	17,109	17,163	17,187	17,309	17,355	17,422	17,422
<b>Finance, insurance, and real estate</b> .....	4,823	4,828	4,842	4,844	4,851	4,847	4,855	4,865	4,865	4,871	4,878	4,873	4,871
<b>Services</b> .....	21,987	22,023	22,253	22,326	22,416	22,468	22,538	22,634	22,753	22,828	22,941	23,034	23,099

<sup>1</sup> 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.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Year	Private nonagricultural payrolls, 349 industries <sup>1</sup>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977 .....	63.5	60.5	70.3	67.9	68.6	63.8	64.5	61.3	65.9	61.3	67.0	67.9
1978 .....	62.5	64.3	70.2	70.1	64.6	67.6	61.6	62.2	62.0	64.3	70.9	66.6
1979 .....	63.9	61.0	64.8	52.7	61.6	61.3	55.7	53.2	50.7	61.3	54.2	53.9
1980 .....	54.6	53.4	49.7	37.4	40.8	38.0	42.3	59.0	55.7	63.8	59.3	58.6
1981 .....	58.5	52.7	54.0	64.5	57.0	53.3	57.7	51.3	45.8	42.3	40.3	36.0
1982 .....	37.2	47.3	40.1	41.5	49.3	38.1	42.8	39.1	44.7	36.2	40.1	43.6
1983 .....	55.0	47.9	60.2	65.6	66.3	66.5	67.2	68.9	70.1	66.6	67.6	64.6
1984 .....	67.9	71.1	65.0	68.1	62.6	68.9	60.2	60.5	57.7	63.6	59.2	57.4
1985 .....	58.9	52.9	60.3	52.7	59.2	51.4	57.4	60.6	53.0	56.7	57.9	57.7
1986 .....	56.4	51.9	53.3	55.7	54.9	51.4	55.3	56.7	55.3	54.0	59.3	60.2
1987 .....	57.4	58.3	59.9	64.6	61.3	61.6	68.6	60.6	62.3	67.6	63.9	65.0
1988 .....	60.3	64.6	64.0	63.0	58.9	66.6	62.3	56.2	54.0	62.5	68.9	61.7
1989 .....	65.0	57.9	<sup>p</sup> 59.0	<sup>p</sup> 53.0								
Over 3-month span												
1977 .....	70.2	74.5	76.4	79.2	74.8	72.1	69.3	72.1	70.5	73.5	73.6	72.5
1978 .....	71.9	73.8	76.9	76.9	74.9	71.1	69.2	65.8	68.3	73.5	74.8	76.2
1979 .....	69.5	71.8	65.8	66.2	62.0	64.0	58.9	53.3	57.6	58.6	62.2	56.2
1980 .....	56.6	51.4	42.0	38.3	35.5	37.4	42.8	50.9	65.3	66.9	68.5	64.3
1981 .....	59.5	55.6	58.9	64.6	63.3	60.7	57.0	52.4	43.3	40.0	34.0	30.9
1982 .....	31.2	34.8	37.7	41.5	40.3	40.3	34.8	38.3	35.4	35.8	34.0	46.6
1983 .....	48.4	57.0	62.6	71.9	72.1	74.4	72.6	77.2	77.2	74.6	71.6	73.9
1984 .....	74.9	75.2	77.7	72.6	73.6	69.2	68.3	64.9	64.0	63.0	61.3	61.2
1985 .....	58.2	58.9	55.7	58.2	54.9	57.7	57.0	58.7	58.3	56.7	59.7	59.3
1986 .....	56.9	53.2	52.7	55.7	54.7	53.4	55.4	58.2	56.7	60.3	61.3	63.6
1987 .....	61.3	62.2	67.3	68.9	69.3	69.8	71.5	72.5	72.1	73.4	74.5	68.2
1988 .....	70.6	68.8	68.3	67.2	69.1	69.8	68.8	61.9	62.6	68.3	71.9	73.4
1989 .....	68.5	<sup>p</sup> 67.0	<sup>p</sup> 60.2									
Over 6-month span												
1977 .....	79.1	81.8	78.7	78.4	78.1	79.7	76.2	76.2	77.5	76.6	78.1	78.4
1978 .....	77.8	81.4	81.2	79.8	78.7	76.2	73.6	76.9	75.6	76.8	76.1	77.8
1979 .....	74.6	73.9	71.2	66.8	63.2	57.9	62.9	59.5	57.7	58.6	60.9	57.7
1980 .....	48.6	44.7	41.1	37.4	37.1	37.5	44.4	51.9	61.2	70.9	68.9	66.2
1981 .....	66.5	65.2	62.9	64.9	61.3	58.0	50.3	43.0	39.0	32.2	32.5	28.7
1982 .....	28.5	29.7	33.0	38.8	37.2	36.8	34.5	33.8	34.8	38.1	39.1	43.1
1983 .....	55.2	62.2	67.3	71.1	76.4	78.2	79.4	79.5	78.2	77.4	78.1	77.5
1984 .....	78.7	78.8	80.1	77.5	73.9	72.9	70.1	68.6	64.5	63.5	61.7	63.0
1985 .....	58.3	59.5	57.9	57.3	58.5	57.2	56.9	56.6	60.0	60.3	57.9	55.4
1986 .....	55.6	55.9	52.9	53.6	54.3	55.9	55.0	57.7	62.5	61.2	62.5	62.9
1987 .....	69.2	66.3	66.3	70.1	72.5	75.2	76.9	77.4	78.5	74.2	74.4	75.6
1988 .....	72.2	71.5	70.8	74.2	72.2	69.1	68.8	74.5	71.1	72.3	72.5	<sup>p</sup> 73.6
1989 .....	<sup>p</sup> 72.9											
Over 12-month span												
1977 .....	79.2	80.1	81.8	81.9	84.8	84.7	84.5	83.4	83.7	83.0	82.5	82.1
1978 .....	81.9	82.2	81.8	81.9	83.0	82.8	83.4	81.4	81.7	75.8	78.1	75.5
1979 .....	75.9	75.4	74.8	72.1	68.2	66.0	66.0	63.6	59.7	57.6	52.0	48.7
1980 .....	47.0	46.4	46.8	45.3	43.7	43.8	43.6	42.8	44.3	50.6	57.2	62.2
1981 .....	71.2	68.3	68.1	61.3	53.4	48.0	42.3	38.8	36.4	33.1	34.1	32.2
1982 .....	32.4	31.1	29.7	30.4	30.4	31.4	35.0	35.1	38.8	43.4	46.7	51.4
1983 .....	57.0	61.9	66.5	72.8	75.8	77.2	76.8	80.7	80.4	81.4	83.0	81.9
1984 .....	81.7	79.5	78.7	77.1	76.2	74.1	73.1	70.2	69.1	65.2	63.8	61.5
1985 .....	59.5	59.2	59.2	56.9	56.6	58.5	55.9	55.9	56.7	55.6	55.2	53.7
1986 .....	54.4	54.6	53.9	55.6	55.2	56.3	57.2	59.3	60.0	61.7	61.9	65.2
1987 .....	68.1	70.3	71.1	74.1	76.6	77.2	77.4	77.8	79.1	78.7	77.8	80.5
1988 .....	77.2	78.1	74.2	73.9	75.6	75.6	77.8	76.5	<sup>p</sup> 75.2	<sup>p</sup> 75.5		
1989 .....												

See footnotes at end of table.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

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

(Percent)

Year	Manufacturing payrolls, 143 industries <sup>1</sup>											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977 .....	66.0	59.9	68.4	70.9	67.0	59.6	60.3	54.3	62.1	57.4	63.1	70.2
1978 .....	63.1	64.5	63.8	65.6	61.0	62.4	56.0	58.5	57.1	62.8	66.3	69.1
1979 .....	60.3	55.0	58.9	50.4	55.7	61.7	50.0	45.0	41.1	57.4	46.8	47.9
1980 .....	48.6	46.1	47.5	28.4	24.8	27.0	28.7	58.2	55.0	63.1	61.7	53.9
1981 .....	53.2	45.0	55.0	63.1	61.3	56.7	56.0	42.2	39.4	30.5	29.4	23.4
1982 .....	27.0	39.4	28.0	31.9	36.2	26.6	34.4	28.4	35.5	26.6	26.2	39.4
1983 .....	53.2	48.6	55.3	67.0	67.4	59.9	68.8	64.9	68.1	70.9	62.4	62.1
1984 .....	62.1	69.5	64.9	62.8	55.0	61.7	57.8	52.8	42.9	53.9	44.3	48.6
1985 .....	47.5	40.4	43.6	36.9	42.9	40.1	48.2	45.7	37.6	45.7	45.0	47.9
1986 .....	49.6	42.6	45.0	43.6	46.1	41.8	41.5	48.2	44.7	46.1	52.8	50.7
1987 .....	46.8	52.5	53.9	56.4	58.9	55.7	67.7	56.0	64.2	64.2	64.2	61.0
1988 .....	58.2	55.7	55.7	60.6	57.4	61.3	60.3	44.0	46.8	61.7	68.1	57.4
1989 .....	61.0	51.4	<sup>p</sup> 53.5	<sup>p</sup> 46.8								
Over 3-month span												
1977 .....	70.6	77.0	78.7	78.7	72.0	66.7	62.4	64.9	62.4	67.7	69.1	76.2
1978 .....	77.0	72.3	72.3	69.9	69.1	62.8	61.3	58.2	62.4	67.0	70.9	73.4
1979 .....	64.9	62.8	59.6	59.9	58.5	59.2	50.0	36.5	44.0	43.6	52.5	42.9
1980 .....	44.7	40.4	28.4	20.2	18.4	19.5	27.7	39.7	64.2	67.7	67.4	61.3
1981 .....	51.8	50.4	56.4	64.5	66.7	64.9	55.0	42.6	28.0	25.5	17.7	17.4
1982 .....	17.0	19.1	21.3	22.0	22.0	22.3	18.1	18.8	20.6	18.4	17.7	33.3
1983 .....	46.1	53.9	61.7	71.3	70.9	73.8	70.6	76.2	77.0	74.1	72.0	67.7
1984 .....	71.6	71.3	73.4	65.2	63.8	59.9	59.2	50.7	47.5	42.9	45.7	45.0
1985 .....	43.6	37.9	31.6	31.9	30.5	38.7	39.7	37.6	37.6	36.9	44.7	46.5
1986 .....	42.6	40.4	37.6	39.0	39.4	38.7	39.0	42.9	44.3	48.9	53.2	51.8
1987 .....	50.7	50.7	58.5	63.8	63.5	68.4	69.5	73.8	70.2	74.1	74.5	67.0
1988 .....	66.0	61.0	62.8	64.5	66.7	68.8	61.3	52.1	53.5	65.6	70.9	69.5
1989 .....	62.1	<sup>p</sup> 61.3	<sup>p</sup> 51.8									
Over 6-month span												
1977 .....	81.6	81.9	79.1	77.3	75.2	74.8	67.7	68.4	70.9	75.2	80.5	77.7
1978 .....	77.7	79.8	78.0	72.3	73.0	68.8	63.5	68.1	69.9	71.3	67.0	69.9
1979 .....	68.4	66.3	62.1	58.2	52.1	43.6	48.2	41.5	39.7	40.1	42.6	42.9
1980 .....	33.0	27.0	23.4	16.7	17.4	19.1	26.2	39.7	52.8	70.6	67.4	65.2
1981 .....	65.2	62.8	62.8	68.1	61.7	55.3	40.1	29.1	22.3	17.0	18.4	12.4
1982 .....	10.3	10.6	13.5	20.6	15.6	15.2	12.4	12.1	14.5	18.1	21.3	27.3
1983 .....	46.8	59.6	64.9	67.0	75.5	76.2	78.7	77.3	76.2	74.8	75.9	74.8
1984 .....	74.5	72.3	72.0	70.6	62.8	58.5	55.3	52.5	48.6	44.0	40.1	41.8
1985 .....	34.8	34.4	28.4	31.9	32.6	32.3	32.6	33.0	39.4	39.7	37.9	37.2
1986 .....	37.6	38.3	34.8	34.4	34.8	37.2	36.5	41.8	46.8	47.9	50.0	51.4
1987 .....	58.5	57.1	57.1	66.7	69.1	74.5	75.5	76.6	79.4	74.1	72.7	72.3
1988 .....	68.4	67.0	66.0	70.9	66.0	63.8	62.1	68.8	66.0	66.0	67.7	<sup>p</sup> 71.6
1989 .....	<sup>p</sup> 66.7											
Over 12-month span												
1977 .....	77.0	77.7	75.9	76.6	81.2	82.6	84.0	81.9	83.3	80.5	78.0	77.3
1978 .....	75.2	77.7	76.2	77.0	77.0	77.0	75.2	70.6	70.9	65.6	69.1	64.9
1979 .....	67.0	64.2	62.4	57.4	51.8	48.6	48.9	47.5	42.2	36.5	29.1	24.8
1980 .....	20.6	22.3	23.8	25.2	23.0	22.3	21.3	22.7	23.8	30.5	45.7	59.6
1981 .....	72.0	69.1	69.1	52.8	40.4	35.1	27.7	21.6	17.7	15.2	13.8	12.4
1982 .....	12.1	12.4	9.2	11.3	8.2	9.9	13.5	14.2	15.2	21.6	25.5	33.7
1983 .....	43.3	50.0	56.0	66.0	71.6	75.5	76.2	78.4	78.0	78.7	80.1	76.2
1984 .....	77.0	72.3	68.1	66.0	62.4	61.0	57.8	54.6	50.4	44.0	40.1	33.7
1985 .....	31.6	30.9	30.1	28.4	27.7	28.4	29.1	29.8	32.6	30.9	32.6	29.8
1986 .....	30.9	30.1	34.8	34.8	36.2	39.0	38.3	39.7	42.9	45.0	48.2	50.4
1987 .....	59.6	63.5	64.5	68.8	73.0	73.8	75.2	75.2	75.9	75.9	75.2	79.1
1988 .....	74.1	72.3	68.8	70.6	72.0	70.9	72.3	71.3	<sup>p</sup> 69.5	<sup>p</sup> 69.5		
1989 .....												

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

<sup>p</sup> = preliminary.

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

equal balance between industries with increasing and decreasing employment.

Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Alabama</b> .....	1,536.8	1,556.0	1,558.5	11.0	11.3	11.3	76.5	72.1	73.0
Birmingham .....	397.1	404.5	405.3	5.2	5.0	5.0	24.3	23.7	24.2
Huntsville .....	125.9	131.4	132.1	.1	.1	.1	5.5	5.4	5.6
Mobile .....	164.0	165.8	166.5	.7	.7	.7	10.2	10.2	10.1
Montgomery .....	127.9	130.1	130.6	.2	.1	.1	7.7	8.0	8.0
Tuscaloosa .....	60.3	62.3	62.6	2.6	2.7	2.7	3.0	2.8	2.8
<b>Alaska</b> .....	202.3	203.6	206.9	9.1	9.8	10.0	7.0	6.1	6.5
<b>Arizona</b> .....	1,422.5	1,429.7	1,437.7	11.8	12.1	12.0	93.4	88.7	89.2
Phoenix .....	938.2	940.3	945.1	.7	.8	.7	64.1	60.8	61.0
Tucson .....	250.1	251.4	252.7	1.7	2.0	2.0	17.2	16.0	16.0
<b>Arkansas</b> .....	851.4	866.0	875.2	4.1	4.1	4.1	31.5	29.4	30.5
Fayetteville-Springdale .....	50.5	51.2	51.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.6	1.6
Fort Smith .....	77.0	75.3	75.7	1.0	.9	.9	2.7	2.4	2.5
Little Rock-North Little Rock .....	233.7	238.8	240.6	.4	.4	.4	9.6	9.1	9.6
Pine Bluff .....	32.8	33.2	33.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.4	1.5
<b>California</b> .....	11,940.2	12,246.5	12,320.0	42.2	41.2	41.0	575.3	605.8	611.4
Anaheim-Santa Ana .....	1,124.1	1,140.4	1,147.7	1.4	1.3	1.3	65.4	65.0	66.4
Bakersfield .....	161.4	159.7	160.8	14.2	13.9	13.9	9.6	9.1	9.0
Fresno .....	205.9	208.2	209.4	.7	.6	.5	11.7	11.4	11.4
Los Angeles-Long Beach .....	4,089.4	4,161.6	4,183.1	9.8	9.4	9.4	145.6	149.9	152.0
Modesto .....	105.8	109.7	111.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.9	7.2	7.5
Oakland .....	832.9	857.8	860.9	3.2	3.4	3.3	47.9	49.6	49.0
Oxnard-Ventura .....	210.4	216.3	218.1	2.8	2.8	2.8	13.3	13.2	13.5
Riverside-San Bernardino .....	627.5	635.3	639.5	1.4	1.3	1.3	51.3	52.8	53.8
Sacramento .....	560.8	585.0	587.6	.7	.6	.6	30.9	33.1	32.0
San Diego .....	898.6	933.6	941.6	.8	.8	.8	54.2	58.8	60.0
San Francisco .....	934.2	948.1	951.0	.9	.9	.9	34.1	35.0	35.3
San Jose .....	813.1	820.7	824.1	.1	.1	.1	32.5	32.6	32.7
Santa Barbara-Santa Maria-Lompoc .....	145.2	148.0	148.3	1.5	1.5	1.5	6.2	6.7	6.7
Santa Rosa-Petaluma .....	126.8	127.5	127.5	.7	.7	.6	8.0	7.6	7.6
Stockton .....	143.6	146.6	147.2	.1	.1	.1	8.0	8.0	8.1
Vallejo-Fairfield-Napa .....	126.1	130.2	131.8	.6	.5	.6	8.4	9.5	9.8
<b>Colorado</b> .....	1,420.9	1,427.2	1,435.7	20.8	19.7	19.9	55.9	50.7	53.0
Boulder-Longmont .....	107.3	107.5	107.8	.3	.3	.3	3.4	3.1	3.1
Denver .....	796.7	794.0	797.6	13.3	11.8	11.8	32.0	26.8	27.9
<b>Connecticut</b> .....	1,661.2	1,670.7	1,684.3	1.5	1.3	1.4	74.8	68.5	71.4
Bridgeport-Milford .....	200.9	200.9	202.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.6	8.3	8.4
Hartford .....	481.0	485.3	487.6	.2	.4	.3	18.9	19.0	20.0
New Britain .....	65.0	65.0	65.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.2	3.6	3.8
New Haven-Meriden .....	255.0	259.4	261.5	.3	.3	.4	12.6	13.2	13.5
Stamford .....	123.5	124.8	125.3	.5	.5	.5	5.0	5.0	5.1
Waterbury .....	86.0	87.8	88.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	4.7	4.8
<b>Delaware</b> .....	324.6	334.4	336.3	.1	.1	.1	20.4	19.8	20.4
Wilmington .....	279.9	286.3	287.8	.2	.2	.2	17.7	17.0	17.2
<b>District of Columbia</b> .....	666.2	675.4	680.8	.1	.1	.1	13.8	12.9	13.2
Washington MSA .....	2,133.9	2,193.1	2,211.0	1.1	1.1	1.1	134.2	138.7	142.6
<b>Florida</b> .....	5,065.4	5,254.8	5,279.7	9.0	9.6	9.5	344.8	347.6	346.3
Daytona Beach .....	118.2	121.1	122.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.3	8.4	8.4
Fort Lauderdale-Hollywood-Pompano Beach .....	485.3	499.6	501.7	.3	.3	.3	36.0	36.4	36.2
Fort Myers-Cape Coral .....	116.6	125.4	127.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.7	14.3	14.5
Jacksonville .....	402.8	415.7	418.0	.6	.6	.6	26.7	27.2	27.4
Melbourne-Titusville-Palm Bay .....	150.4	157.7	157.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.2	9.2	9.2
Miami-Hialeah .....	858.2	876.7	870.3	.9	.9	1.0	40.4	39.2	39.0
Orlando .....	499.2	512.8	517.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	36.5	37.7	37.2
Pensacola .....	124.6	124.9	125.6	.4	.4	.3	8.6	8.0	8.1
Sarasota .....	110.5	115.2	116.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.1	10.5	10.8
Tallahassee .....	113.2	116.4	117.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.7	5.7
Tampa-St. Petersburg-Clearwater .....	834.6	855.7	860.2	.7	.7	.7	58.2	56.9	56.9
West Palm Beach-Boca Raton-Delray Beach .....	344.8	367.3	369.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	29.7	31.3	31.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>Alabama</b> .....	376.5	383.8	382.6	78.3	79.3	79.6	332.0	341.6	341.8
Birmingham .....	56.4	58.5	58.0	31.6	32.1	31.9	97.3	99.7	99.9
Huntsville .....	31.8	33.4	33.3	2.9	3.0	2.9	23.9	24.9	25.0
Mobile .....	25.4	24.7	24.8	10.1	10.1	10.4	43.1	43.9	44.2
Montgomery .....	18.9	18.8	18.9	5.0	5.1	5.1	28.8	29.5	29.6
Tuscaloosa .....	9.9	10.0	10.1	1.9	2.0	2.0	12.4	12.7	12.7
<b>Alaska</b> .....	11.9	10.8	12.1	16.5	16.3	16.5	39.1	39.7	40.1
<b>Arizona</b> .....	188.5	189.7	189.9	73.6	72.9	72.3	347.5	355.1	358.0
Phoenix .....	137.2	138.6	138.9	50.3	50.3	50.3	235.6	240.6	242.3
Tucson .....	30.8	29.8	29.6	9.2	9.0	9.0	56.8	57.8	58.2
<b>Arkansas</b> .....	225.4	231.7	233.8	51.8	51.0	51.1	189.3	191.5	194.0
Fayetteville-Springdale .....	12.5	12.9	13.0	4.9	4.7	4.7	11.4	11.7	11.8
Fort Smith .....	27.0	25.7	25.9	4.1	4.3	4.3	15.7	15.0	15.1
Little Rock-North Little Rock .....	33.5	35.2	35.3	16.6	17.5	17.5	55.8	56.5	56.8
Pine Bluff .....	6.5	6.6	6.6	2.5	2.6	2.6	6.9	7.0	7.1
<b>California</b> .....	2,130.5	2,156.0	2,161.4	578.9	584.2	588.9	2,808.7	2,898.0	2,906.6
Anaheim-Santa Ana .....	254.6	257.1	256.8	33.9	34.1	34.1	275.0	284.7	285.0
Bakersfield .....	10.6	10.6	10.6	7.1	7.2	7.3	38.2	37.6	37.7
Fresno .....	21.1	21.7	21.6	11.1	11.4	11.4	52.6	52.2	52.2
Los Angeles-Long Beach .....	908.6	904.5	905.6	202.6	204.3	204.2	934.8	962.1	965.4
Modesto .....	21.9	23.3	23.9	4.4	4.8	4.7	27.6	28.5	28.7
Oakland .....	108.1	109.1	109.3	55.2	57.0	57.0	202.7	210.5	211.0
Oxnard-Ventura .....	29.9	30.2	30.2	11.1	11.0	11.7	51.6	53.9	54.0
Riverside-San Bernardino .....	81.7	81.6	81.6	30.5	30.3	30.4	156.7	156.2	157.1
Sacramento .....	40.1	41.7	41.6	24.4	25.3	25.8	134.7	138.8	139.5
San Diego .....	126.6	129.8	130.5	35.0	35.7	35.7	216.9	225.2	226.6
San Francisco .....	80.1	81.3	81.4	76.5	76.2	76.5	207.1	211.9	211.0
San Jose .....	269.5	275.3	274.7	21.6	21.2	21.5	159.3	159.8	160.2
Santa Barbara-Santa Maria-Lompoc .....	21.8	22.0	22.0	5.0	5.0	5.0	34.0	35.1	35.2
Santa Rosa-Petaluma .....	19.5	19.7	19.8	5.8	5.8	5.8	32.2	32.6	32.7
Stockton .....	22.7	23.4	23.3	8.3	8.9	8.9	33.3	34.2	34.4
Vallejo-Fairfield-Napa .....	11.7	12.1	12.0	4.5	4.6	4.6	30.4	31.8	32.3
<b>Colorado</b> .....	185.9	189.4	189.1	91.2	90.4	90.3	347.0	350.0	351.2
Boulder-Longmont .....	29.2	29.1	28.9	2.3	2.3	2.3	22.5	22.5	22.6
Denver .....	93.3	94.8	95.1	66.9	65.6	65.5	195.6	196.4	196.7
<b>Connecticut</b> .....	379.2	374.1	373.6	72.4	72.2	72.6	370.2	378.8	382.1
Bridgeport-Milford .....	57.7	56.8	56.6	8.2	8.3	8.3	46.0	45.9	46.2
Hartford .....	91.2	89.7	89.5	18.5	19.2	19.1	101.5	103.4	104.2
New Britain .....	19.4	19.3	19.3	3.1	3.1	3.2	13.3	13.7	13.8
New Haven-Meriden .....	47.7	47.5	47.4	17.5	17.9	18.0	58.6	60.0	60.4
Stamford .....	22.8	22.8	22.4	5.4	5.5	5.5	29.2	29.2	29.4
Waterbury .....	23.9	24.2	24.4	3.1	3.1	3.1	16.8	17.0	17.3
<b>Delaware</b> .....	69.5	72.1	71.8	13.9	14.2	14.0	70.1	72.0	72.5
Wilmington .....	59.3	61.5	61.5	14.7	15.1	15.1	58.7	60.0	59.7
<b>District of Columbia</b> .....	16.3	16.1	16.2	25.0	25.3	25.3	63.5	64.3	65.1
Washington MSA .....	87.1	86.8	86.9	102.7	111.0	111.7	424.1	428.6	431.7
<b>Florida</b> .....	542.3	546.6	547.0	259.1	263.5	253.4	1,380.0	1,439.5	1,451.2
Daytona Beach .....	12.3	12.0	12.1	3.6	3.8	3.7	35.4	36.3	37.3
Fort Lauderdale-Hollywood-Pompano Beach .....	46.0	47.0	47.0	22.9	23.6	23.4	146.9	150.7	151.8
Fort Myers-Cape Coral .....	5.7	6.4	6.5	5.1	5.5	5.5	35.0	36.9	37.6
Jacksonville .....	37.8	39.1	39.3	27.4	27.5	27.4	110.4	114.7	115.6
Melbourne-Titusville-Palm Bay .....	29.4	30.2	30.2	5.6	6.1	6.1	34.9	37.0	36.8
Miami-Hialeah .....	93.2	93.2	93.4	70.2	70.9	62.3	231.8	239.1	239.8
Orlando .....	57.4	56.9	57.0	25.3	26.2	26.2	129.2	134.6	135.4
Pensacola .....	11.2	11.1	11.2	6.5	6.6	6.7	31.5	31.0	31.4
Sarasota .....	8.4	8.9	8.8	3.5	3.4	3.4	33.0	34.3	34.5
Tallahassee .....	4.7	5.0	5.0	2.9	2.8	2.8	23.9	24.6	24.7
Tampa-St. Petersburg-Clearwater .....	95.1	97.3	97.4	38.9	39.7	38.8	230.9	237.2	239.9
West Palm Beach-Boca Raton-Delray Beach .....	35.7	34.8	34.5	12.4	12.8	12.8	93.1	102.5	103.4

See footnotes at end of table.



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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1988	Feb. 1989	Mar. 1989*	Mar. 1988	Feb. 1989	Mar. 1989*	Mar. 1988	Feb. 1989	Mar. 1989*
<b>Alabama</b> .....	69.5	70.6	71.1	284.2	284.0	285.8	308.8	313.3	313.3
Birmingham .....	28.3	27.8	27.8	92.5	95.2	95.8	61.5	62.5	62.7
Huntsville .....	3.8	3.7	3.8	28.8	30.6	30.9	29.5	30.3	30.5
Mobile .....	8.0	8.0	8.0	38.1	39.1	39.2	28.4	29.1	29.1
Montgomery .....	7.5	7.6	7.7	27.4	28.4	28.8	32.4	32.6	32.6
Tuscaloosa .....	2.1	2.1	2.1	6.8	9.2	9.2	19.8	20.8	21.0
<b>Alaska</b> .....	10.8	10.8	10.6	41.1	41.9	42.2	68.8	68.4	68.9
<b>Arizona</b> .....	94.8	91.5	91.4	385.3	366.9	370.3	247.6	252.8	254.6
Phoenix .....	75.5	72.8	72.8	247.2	247.2	249.4	127.6	129.2	129.7
Tucson .....	12.3	11.8	11.7	88.6	69.7	70.2	53.5	55.3	56.0
<b>Arkansas</b> .....	37.4	37.4	37.7	180.2	166.0	166.4	151.7	154.9	155.6
Fayetteville-Springdale .....	1.5	1.4	1.4	7.7	7.9	8.1	10.8	11.0	11.1
Fort Smith .....	2.6	2.6	2.8	16.0	16.3	16.3	7.9	8.1	8.1
Little Rock-North Little Rock .....	15.6	15.7	15.8	55.2	56.9	57.8	47.0	47.5	47.6
Pine Bluff .....	1.4	1.4	1.4	6.4	6.6	6.5	7.6	7.8	7.8
<b>California</b> .....	807.6	818.7	821.2	3,048.5	3,137.9	3,188.0	1,950.5	2,004.7	2,021.5
Anaheim-Santa Ana .....	92.7	90.5	91.4	281.0	285.2	289.8	120.1	122.5	122.9
Bakersfield .....	6.4	6.5	6.5	34.2	33.2	33.3	41.1	41.6	42.5
Fresno .....	12.5	12.0	11.9	48.3	51.1	51.3	47.9	47.8	49.1
Los Angeles-Long Beach .....	264.9	286.6	287.4	1,094.0	1,121.3	1,133.2	509.1	523.5	525.9
Modesto .....	4.4	4.1	4.3	22.3	23.3	23.2	18.3	18.5	18.7
Oakland .....	55.3	55.5	55.8	198.0	205.7	207.5	182.5	167.0	188.2
Oxnard-Ventura .....	10.9	11.2	11.3	50.2	52.5	53.0	40.6	41.5	41.8
Riverside-San Bernardino .....	27.1	28.3	28.4	151.3	153.6	154.2	127.5	131.2	132.7
Sacramento .....	34.6	38.3	38.8	122.7	130.5	131.3	172.7	178.7	180.0
San Diego .....	83.0	84.5	84.7	238.1	249.8	252.7	164.0	189.0	170.8
San Francisco .....	110.9	110.7	110.6	288.0	294.9	298.5	136.6	137.2	138.8
San Jose .....	32.2	32.8	32.5	211.0	212.2	214.7	86.9	88.9	67.7
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.7	8.7	40.0	40.4	40.8	28.1	28.6	28.8
Santa Rosa-Petaluma .....	6.4	6.5	6.5	28.6	26.6	28.5	23.4	24.0	24.0
Stockton .....	9.0	8.5	8.5	30.5	31.3	31.5	31.7	32.2	32.4
Vallejo-Fairfield-Napa .....	4.8	4.8	4.8	27.9	28.7	29.2	38.0	38.4	38.7
<b>Colorado</b> .....	95.8	93.7	93.9	353.3	357.9	360.4	271.0	275.4	277.9
Boulder-Longmont .....	4.0	4.0	4.0	22.8	23.1	23.3	22.8	23.1	23.3
Denver .....	63.3	61.7	61.9	204.8	207.3	208.2	127.7	129.6	130.5
<b>Connecticut</b> .....	152.3	153.8	154.4	399.7	409.5	415.0	211.1	212.5	213.8
Bridgeport-Milford .....	12.8	13.1	13.2	47.8	48.5	49.3	20.0	20.0	20.0
Hartford .....	78.2	75.7	75.8	111.7	114.4	115.1	62.8	63.5	63.8
New Britain .....	4.2	4.5	4.5	13.8	14.1	14.3	7.0	6.8	6.8
New Haven-Meriden .....	15.9	18.6	18.7	89.8	71.5	72.6	32.8	32.4	32.5
Stamford .....	13.6	14.3	14.3	36.2	36.7	37.3	10.8	10.6	10.8
Waterbury .....	4.4	4.7	4.8	20.7	21.2	21.5	12.7	12.9	12.9
<b>Delaware</b> .....	28.4	31.6	32.1	74.0	78.5	77.3	48.2	48.1	48.1
Wilmington .....	25.2	27.5	27.9	65.7	66.7	67.6	38.4	38.3	38.6
<b>District of Columbia</b> .....	34.7	34.7	34.8	240.9	248.7	251.7	271.9	273.3	274.7
Washington MSA .....	125.4	128.8	129.1	890.4	717.5	724.5	569.0	580.8	583.4
<b>Florida</b> .....	363.7	370.6	371.7	1,388.4	1,487.0	1,485.4	780.1	810.4	815.2
Daytona Beach .....	8.4	8.4	8.3	33.1	34.2	34.4	19.1	20.0	20.2
Fort Lauderdale-Hollywood-Pompano Beach .....	39.6	39.8	39.9	133.5	137.7	138.8	60.1	64.1	64.5
Fort Myers-Cape Coral .....	8.0	8.2	8.3	32.9	36.0	38.8	17.1	18.0	17.9
Jacksonville .....	38.2	39.3	39.4	102.4	106.3	107.3	59.3	61.0	61.0
Melbourne-Titusville-Palm Bay .....	5.5	5.7	5.7	44.5	47.6	47.7	21.2	21.8	21.8
Miami-Hialeah .....	70.6	72.1	72.1	235.0	242.2	243.3	116.1	119.1	119.4
Orlando .....	32.9	33.5	33.6	160.3	184.3	168.0	57.5	59.5	60.0
Pensacola .....	5.6	5.6	5.6	31.3	32.3	32.3	29.5	29.9	30.0
Sarasota .....	8.4	8.6	8.7	33.4	35.2	35.6	13.6	14.2	14.1
Tallahassee .....	5.0	5.0	5.0	23.5	23.8	24.0	47.4	49.2	49.8
Tampa-St. Petersburg-Clearwater .....	65.3	66.2	66.2	240.5	249.4	251.8	105.0	108.3	108.5
West Palm Beach-Boca Raton-Delray Beach .....	28.6	28.9	29.1	102.7	110.5	112.2	42.5	46.4	46.7

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. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>Georgia</b> .....	2,843.8	2,929.9	2,927.8	8.8	9.0	8.9	150.1	137.7	137.4
Athens .....	64.2	66.3	66.2	.1	.1	.1	2.4	2.4	2.3
Atlanta .....	1,406.5	1,433.4	1,427.8	1.5	1.5	1.5	70.3	65.8	65.7
Augusta .....	158.4	159.0	158.9	.5	.5	.5	10.3	10.3	10.3
Columbus .....	93.3	94.6	94.7	.1	.1	.1	5.1	4.9	4.9
Macon-Warner Robins .....	118.9	122.7	122.7	.1	.1	.1	4.8	5.1	4.9
Savannah .....	103.8	105.3	105.0	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	6.4	6.0	6.1
<b>Hawaii</b> .....	473.8	488.0	490.8	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	22.0	25.1	25.6
Honolulu .....	375.6	384.6	386.9	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	17.5	19.1	19.5
<b>Idaho</b> .....	335.7	346.3	348.6	3.0	3.5	3.4	11.7	11.4	12.0
Boise City .....	89.0	93.4	94.5	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	4.3	4.0	4.4
<b>Illinois</b> .....	5,022.0	5,085.8	5,108.4	20.7	19.7	20.0	182.9	184.9	194.7
Aurora-Elgin .....	139.5	142.9	145.0	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	6.2	6.7	7.3
Bloomington-Normal .....	58.8	61.1	61.6	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	1.5	1.6	1.7
Champaign-Urbana-Rantoul .....	89.3	89.7	90.0	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	2.5	2.4	2.5
Chicago .....	3,073.4	3,107.5	3,123.7	2.1	2.1	2.1	117.9	117.9	123.2
Davenport-Rock Island-Moline .....	155.0	155.9	156.4	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	4.3	4.3	4.4
Decatur .....	51.6	52.5	52.7	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	2.5	2.5	2.5
Joliet .....	98.1	98.5	98.9	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	5.3	5.2	5.7
Kankakee .....	33.1	33.5	33.7	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	1.2	1.1	1.2
Lake County .....	190.8	200.1	201.3	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	8.0	9.0	9.2
Peoria .....	138.1	140.5	140.7	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	5.3	5.4	5.5
Rockford .....	130.0	129.6	130.0	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	4.1	3.9	3.9
Springfield .....	99.3	99.4	99.9	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	2.6	2.6	2.8
<b>Indiana</b> .....	2,343.1	2,406.9	2,421.2	8.0	7.6	7.9	93.9	98.4	102.7
Anderson .....	48.4	49.1	49.4	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	1.3	1.3	1.3
Bloomington .....	52.5	56.1	56.2	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	1.8	2.0	2.2
Elkhart-Goshen .....	100.3	103.8	104.5	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	2.6	2.7	2.8
Evansville .....	125.9	128.9	129.7	2.1	1.9	1.9	6.8	6.4	6.6
Fort Wayne .....	187.7	193.0	194.4	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	8.4	8.8	9.1
Gary-Hammond .....	223.8	230.8	233.3	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	10.9	12.3	12.6
Indianapolis .....	608.9	628.9	634.4	.8	.8	.9	28.9	30.1	31.6
Lafayette-West Lafayette .....	64.9	67.1	66.5	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	2.6	3.5	3.1
Muncie .....	51.7	52.7	52.9	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	1.8	1.8	1.9
South Bend-Mishawaka .....	113.7	116.1	117.1	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	4.8	5.4	5.9
Terre Haute .....	53.7	54.0	54.4	.4	.3	.3	1.7	1.7	1.8
<b>Iowa</b> .....	1,129.0	1,165.5	1,173.8	1.9	1.8	1.9	29.6	30.2	31.3
Cedar Rapids .....	87.7	89.7	90.4	.1	.1	.1	2.8	2.7	2.7
Des Moines .....	210.9	215.7	217.4	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	6.3	5.6	5.9
Dubuque .....	41.4	41.7	42.0	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	1.0	.9	1.0
Sioux City .....	50.5	52.0	52.0	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	1.6	1.4	1.4
Waterloo-Cedar Falls .....	63.0	65.2	65.3	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	1.5	1.8	1.8
<b>Kansas</b> .....	1,023.9	1,036.8	1,046.2	10.7	9.4	9.7	39.4	35.5	37.8
Topeka .....	88.7	89.4	90.3	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	3.1	2.8	2.8
Wichita .....	230.4	237.1	239.2	2.1	1.9	1.9	8.6	8.2	8.7
<b>Kentucky</b> .....	1,351.7	1,372.3	1,379.0	37.2	34.0	33.9	58.3	57.5	60.0
Lexington-Fayette .....	184.7	194.0	194.8	.3	.2	.2	10.6	11.0	11.2
Louisville .....	443.2	449.6	453.1	.7	1.0	1.0	20.9	19.5	20.2
Owensboro .....	33.5	33.8	33.9	.7	.5	.5	2.0	1.8	1.8
<b>Louisiana</b> .....	1,496.7	1,501.0	1,510.0	56.5	56.8	56.9	81.9	83.6	87.1
Alexandria .....	44.7	44.9	45.1	.2	.2	.2	2.0	1.7	1.9
Baton Rouge .....	220.4	221.1	221.1	1.0	1.0	1.0	24.6	22.9	23.1
Houma-Thibodaux .....	53.6	53.4	53.8	5.8	5.8	5.9	1.8	1.8	1.8
Lafayette .....	84.0	84.8	85.2	11.3	11.3	11.3	3.1	3.4	3.6
Monroe .....	54.7	53.7	54.1	.4	.4	.5	2.3	2.0	2.1
New Orleans .....	513.9	516.7	517.4	15.2	15.3	15.2	21.6	22.1	22.5
Shreveport .....	129.6	128.3	127.9	3.2	3.1	3.0	5.9	6.0	6.0
<b>Maine</b> .....	503.2	515.7	515.7	.1	.2	.2	28.5	30.3	30.3
Lewiston-Auburn .....	40.1	40.4	40.5	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	2.0	2.1	2.1
Portland .....	123.9	128.3	129.2	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	8.3	8.1	8.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>Georgia</b> .....	576.7	566.3	563.2	179.6	186.6	180.0	714.9	767.5	767.0
Athens .....	15.0	15.0	15.1	1.7	1.8	1.8	13.6	14.6	14.4
Atlanta .....	188.7	177.6	174.5	119.0	121.9	115.6	391.7	409.1	408.3
Augusta .....	36.1	36.3	36.1	5.1	4.4	4.4	34.5	35.0	35.1
Columbus .....	20.3	20.7	20.7	3.5	3.6	3.5	19.9	20.5	20.6
Macon-Warner Robins .....	18.3	18.6	18.5	5.1	5.4	5.3	27.6	28.1	28.1
Savannah .....	17.4	17.5	17.5	9.6	9.8	9.9	25.2	26.1	25.9
<b>Hawaii</b> .....	21.4	22.3	21.7	37.7	39.0	39.3	125.5	128.3	128.9
Honolulu .....	15.9	16.6	16.0	30.8	32.1	32.3	98.0	100.1	100.7
<b>Idaho</b> .....	54.7	57.6	57.0	17.9	18.3	18.4	83.8	85.8	86.4
Boise City .....	12.2	13.5	13.6	5.1	5.3	5.4	22.5	24.0	23.9
<b>Illinois</b> .....	967.5	976.5	977.6	299.0	299.9	298.5	1,227.7	1,268.5	1,273.1
Aurora-Elgin .....	37.8	38.2	38.6	3.1	2.9	3.0	37.3	38.3	39.0
Bloomington-Normal .....	5.0	7.1	7.4	2.7	2.7	2.7	13.2	13.1	13.2
Champaign-Urbana-Rantoul .....	8.4	8.7	8.7	2.3	2.3	2.3	20.3	20.3	20.3
Chicago .....	563.8	565.1	566.0	188.1	187.3	188.0	762.0	771.8	774.9
Davenport-Rock Island-Moline .....	32.2	32.5	32.5	8.0	7.9	7.9	42.8	42.9	42.9
Decatur .....	13.6	13.8	13.8	5.1	5.2	5.2	11.3	11.6	11.7
Joliet .....	18.9	19.2	19.2	8.3	8.3	8.3	22.9	22.9	22.9
Kankakee .....	4.9	5.5	5.5	1.3	1.3	1.3	8.4	8.3	8.3
Lake County .....	43.6	43.7	43.8	6.9	7.1	7.1	53.2	56.7	57.5
Peoria .....	32.7	34.4	34.5	6.9	7.0	6.9	33.5	33.6	33.6
Rockford .....	45.2	45.4	45.4	4.9	5.0	5.0	28.6	28.6	28.6
Springfield .....	3.8	3.8	3.8	4.8	4.9	4.9	22.5	22.0	22.0
<b>Indiana</b> .....	624.0	634.0	634.9	121.3	124.8	125.9	550.4	569.3	571.3
Anderson .....	16.9	17.1	17.2	1.4	1.4	1.4	11.0	11.2	11.4
Bloomington .....	9.2	10.4	10.4	1.6	1.7	1.7	11.6	12.1	12.3
Elkhart-Goshen .....	54.9	56.8	57.1	2.7	2.8	2.9	18.0	18.6	18.7
Evansville .....	30.6	30.9	31.2	6.5	6.6	6.6	32.7	33.8	33.8
Fort Wayne .....	52.0	52.9	53.3	12.2	12.8	12.8	46.1	47.9	48.0
Gary-Hammond .....	55.8	56.7	56.6	15.3	15.4	15.6	52.4	54.5	55.6
Indianapolis .....	106.4	106.0	106.3	37.8	38.9	39.4	155.8	161.5	162.1
Lafayette-West Lafayette .....	12.1	12.5	12.5	1.9	1.9	1.9	13.0	13.2	13.2
Muncie .....	10.9	11.0	11.0	2.4	2.4	2.4	12.5	12.9	12.9
South Bend-Mishawaka .....	24.1	23.2	23.2	5.1	5.3	5.3	29.0	30.0	30.2
Terre Haute .....	10.1	9.9	9.9	2.8	3.0	3.0	14.2	14.6	14.7
<b>Iowa</b> .....	222.3	230.8	231.9	52.7	54.6	54.6	283.1	295.8	298.2
Cedar Rapids .....	22.8	23.7	23.7	5.3	5.5	5.5	20.8	21.2	21.3
Des Moines .....	25.5	25.7	26.1	12.3	12.4	12.5	54.4	56.3	56.4
Dubuque .....	11.9	12.0	12.0	1.6	1.7	1.7	9.6	9.7	9.8
Sioux City .....	9.8	10.3	10.5	3.1	3.3	3.3	13.1	13.3	13.4
Waterloo-Cedar Falls .....	14.4	15.4	15.4	1.7	1.8	1.8	14.7	15.4	15.4
<b>Kansas</b> .....	180.2	182.7	184.1	63.6	64.3	65.0	254.2	256.3	256.9
Topeka .....	9.1	9.1	9.1	6.7	6.5	6.6	21.0	21.4	21.6
Wichita .....	60.4	63.2	63.5	10.8	11.3	11.4	53.4	53.6	53.9
<b>Kentucky</b> .....	270.4	278.4	278.4	71.7	74.7	74.4	319.6	327.0	328.3
Lexington-Fayette .....	31.2	33.9	34.1	8.1	8.2	8.2	41.3	42.4	42.8
Louisville .....	87.3	87.3	87.2	27.9	28.7	28.9	109.7	109.7	110.5
Owensboro .....	5.7	6.2	6.2	2.1	2.1	2.1	8.6	8.5	8.4
<b>Louisiana</b> .....	168.3	168.8	170.3	106.3	108.1	107.9	356.2	357.9	360.2
Alexandria .....	3.3	3.3	3.3	2.1	2.1	2.1	10.7	10.7	10.6
Baton Rouge .....	19.1	19.3	19.4	10.5	10.5	10.4	50.7	53.3	53.2
Houma-Thibodaux .....	4.4	4.3	4.3	6.1	6.0	6.0	13.5	13.4	13.6
Lafayette .....	7.1	6.7	6.9	5.8	6.2	6.0	22.6	23.1	23.3
Monroe .....	7.5	7.4	7.5	2.9	2.7	2.9	14.2	13.4	13.4
New Orleans .....	43.6	42.8	42.7	43.5	44.3	44.6	132.7	133.9	134.4
Shreveport .....	18.1	17.2	17.3	8.0	8.2	8.1	31.3	31.4	31.3
<b>Maine</b> .....	106.4	108.0	107.5	20.2	21.0	21.0	121.3	122.3	122.7
Lewiston-Auburn .....	10.5	9.9	10.0	1.4	1.4	1.4	9.6	10.2	10.2
Portland .....	17.1	17.6	17.5	5.5	5.0	5.0	36.6	38.3	38.5

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. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>
<b>Georgia</b> .....	158.6	163.4	163.1	559.5	586.2	593.2	495.7	513.2	515.0
Athens .....	1.9	2.0	2.0	9.8	10.4	10.4	19.6	20.0	20.0
Atlanta .....	101.2	104.5	104.3	330.3	343.9	347.3	203.8	209.1	210.6
Augusta .....	4.8	5.6	5.6	32.7	32.9	33.0	34.4	34.0	34.0
Columbus .....	6.5	6.5	6.5	16.8	17.5	17.6	21.0	20.8	20.8
Macon-Warner Robins .....	7.4	7.8	7.8	22.3	23.5	23.6	33.3	34.2	34.3
Savannah .....	4.5	4.6	4.5	24.8	25.0	24.8	16.0	16.3	16.3
<b>Hawaii</b> .....	34.4	35.4	35.5	132.1	136.1	136.6	100.7	101.8	103.2
Honolulu .....	29.0	29.7	29.8	99.6	101.6	101.9	84.8	85.4	86.7
<b>Idaho</b> .....	19.0	19.1	19.1	70.2	73.9	74.8	75.4	76.7	77.5
Boise City .....	7.5	7.6	7.5	19.7	20.9	21.4	17.7	18.1	18.3
<b>Illinois</b> .....	367.6	368.0	368.2	1,212.9	1,228.2	1,232.1	743.7	740.1	744.2
Aurora-Elgin .....	8.5	8.7	8.8	30.6	32.4	32.5	15.9	15.7	15.8
Bloomington-Normal .....	10.0	10.0	10.0	13.1	13.3	13.3	13.3	13.3	13.3
Champaign-Urbana-Rantoul .....	3.5	3.5	3.5	16.3	16.3	16.6	36.0	36.2	36.1
Chicago .....	267.1	268.6	269.1	806.3	822.8	827.4	366.1	371.9	373.0
Davenport-Rock Island-Moline .....	8.1	8.2	8.2	32.6	33.1	33.1	27.0	27.0	27.4
Decatur .....	2.2	2.2	2.2	11.4	11.6	11.7	5.5	5.6	5.6
Joliet .....	3.7	3.7	3.7	21.8	22.0	22.0	16.9	17.2	17.1
Kankakee .....	1.5	1.5	1.5	9.1	9.2	9.2	6.7	6.6	6.7
Lake County .....	7.1	7.1	7.0	41.3	44.4	44.5	30.3	32.1	32.2
Peoria .....	7.3	7.4	7.5	36.1	36.3	36.4	16.3	16.4	16.3
Rockford .....	5.2	5.3	5.3	29.5	29.3	29.7	12.5	12.1	12.1
Springfield .....	7.9	7.9	8.0	25.4	25.3	25.4	32.2	32.9	33.0
<b>Indiana</b> .....	116.9	119.9	120.8	467.8	480.0	487.0	360.8	372.9	370.6
Anderson .....	1.6	1.7	1.7	10.2	10.0	10.1	6.0	6.5	6.4
Bloomington .....	1.8	2.1	2.1	8.5	9.1	9.3	17.9	18.7	18.3
Elkhart-Goshen .....	2.6	2.7	2.7	13.6	14.2	14.3	5.9	6.0	6.0
Evansville .....	5.1	5.3	5.3	29.8	30.9	31.3	12.3	13.2	13.0
Fort Wayne .....	12.2	12.5	12.6	38.5	39.7	40.1	18.3	18.6	18.7
Gary-Hammond .....	8.1	8.3	8.3	49.9	51.4	52.2	31.4	32.1	32.3
Indianapolis .....	46.8	48.0	48.2	139.9	146.6	148.7	92.5	97.0	97.3
Lafayette-West Lafayette .....	3.0	3.2	3.2	11.5	11.6	11.8	20.7	21.3	20.8
Muncie .....	1.6	1.6	1.7	10.7	10.9	11.0	11.8	12.2	12.0
South Bend-Mishawaka .....	6.0	6.1	6.2	33.0	34.1	34.4	11.8	11.8	11.8
Terre Haute .....	1.9	2.0	2.0	11.5	11.7	11.9	10.9	10.8	10.8
<b>Iowa</b> .....	65.2	66.9	67.2	256.3	267.1	269.2	217.9	218.3	219.5
Cedar Rapids .....	4.7	4.8	4.8	20.7	21.9	22.4	10.5	9.9	10.0
Des Moines .....	28.0	30.3	30.5	53.2	54.6	55.1	31.0	30.6	30.7
Dubuque .....	1.4	1.4	1.4	12.3	12.5	12.6	3.5	3.4	3.4
Sioux City .....	2.5	2.5	2.5	14.0	14.6	14.3	6.4	6.6	6.6
Waterloo-Cedar Falls .....	2.9	2.8	2.8	14.8	14.8	14.8	12.9	13.2	13.2
<b>Kansas</b> .....	57.4	57.7	57.8	209.0	216.6	218.9	209.4	214.3	216.0
Topeka .....	6.3	6.5	6.6	20.8	20.7	20.9	21.6	22.2	22.6
Wichita .....	11.1	10.8	10.9	56.0	58.5	58.7	28.0	29.6	30.2
<b>Kentucky</b> .....	58.7	57.7	58.1	288.1	295.3	296.8	247.7	247.7	249.1
Lexington-Fayette .....	9.1	9.3	9.3	43.2	41.8	42.0	40.9	47.2	47.0
Louisville .....	26.8	25.7	26.1	108.3	114.8	115.9	61.6	62.9	63.3
Owensboro .....	1.4	1.4	1.4	7.7	7.8	7.9	5.3	5.5	5.6
<b>Louisiana</b> .....	82.9	81.2	81.2	327.5	328.0	329.6	317.1	316.6	316.8
Alexandria .....	2.5	2.5	2.5	11.0	11.5	11.4	12.9	12.9	13.1
Baton Rouge .....	13.7	13.6	13.6	45.4	45.8	45.7	55.4	54.7	54.7
Houma-Thibodaux .....	2.3	2.2	2.2	9.2	9.4	9.4	10.5	10.5	10.6
Lafayette .....	3.7	3.5	3.5	17.7	18.0	17.9	12.7	12.6	12.7
Monroe .....	4.4	4.4	4.3	11.5	12.0	12.0	11.5	11.4	11.4
New Orleans .....	33.7	33.6	33.4	137.0	138.1	138.0	86.6	86.6	86.6
Shreveport .....	6.9	6.4	6.4	30.6	30.4	30.4	25.6	25.6	25.4
<b>Maine</b> .....	24.9	25.5	25.5	108.3	112.9	112.9	93.5	95.4	95.6
Lewiston-Auburn .....	2.2	2.3	2.3	10.4	10.4	10.4	4.0	4.1	4.1
Portland .....	11.7	11.7	11.7	28.7	30.8	31.1	16.0	16.8	17.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Maryland</b> .....	2,063.4	2,086.0	2,094.1	1.6	1.6	1.6	153.1	149.9	151.8
Baltimore MSA .....	1,102.4	1,108.7	1,120.5	.3	.3	.2	71.9	70.4	73.2
Baltimore City .....	462.3	467.4	470.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.4	18.3	19.0
Suburban Maryland-D.C. ....	740.6	754.3	760.2	.5	.4	.4	65.5	63.9	66.4
<b>Massachusetts</b> .....	3,086.5	3,102.7	3,118.6	1.5	1.2	1.3	130.0	130.4	131.4
Boston .....	1,735.8	1,752.0	1,758.2	.8	.9	.9	66.6	66.9	67.6
Brockton .....	73.2	74.2	75.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.8	3.9
Fall River .....	55.5	54.7	55.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.6	2.8
Fitchburg-Leominster .....	41.2	41.0	41.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.4
Lawrence-Haverhill .....	164.2	164.0	165.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.3	7.3
Lowell .....	108.3	109.7	110.7	.2	.1	.1	4.9	5.1	5.2
New Bedford .....	67.2	67.9	68.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.9	3.1	3.2
Springfield .....	240.8	240.8	242.6	.1	.1	.1	9.1	9.5	9.8
Worcester .....	205.3	211.9	213.0	.1	.1	.1	9.2	9.6	9.8
<b>Michigan</b> .....	3,737.4	3,809.8	3,815.9	9.9	10.4	10.5	111.3	118.8	118.9
Ann Arbor .....	169.8	175.6	176.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	5.1	5.1
Battle Creek .....	56.9	56.7	58.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.7
Benton Harbor .....	64.5	65.1	65.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.4
Detroit .....	1,863.4	1,902.9	1,909.8	.8	.8	.8	54.7	57.2	57.0
Flint .....	161.2	164.2	166.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	4.8	4.9
Grand Rapids .....	322.6	332.4	334.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	15.5	15.9
Jackson .....	52.1	53.7	54.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.4	1.4
Kalamazoo .....	106.8	109.9	109.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	3.2	3.3
Lansing-East Lansing .....	205.9	211.8	209.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	5.8	5.2
Muskegon .....	56.6	56.1	56.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.0	2.2
Saginaw-Bay City-Midland .....	149.8	154.2	154.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	6.4	6.3
<b>Minnesota</b> .....	1,971.0	2,018.6	2,030.3	6.1	6.1	6.4	63.6	62.2	64.3
Duluth .....	89.2	89.5	90.0	4.5	4.5	4.7	2.4	2.5	2.5
Minneapolis-St. Paul .....	1,292.9	1,321.6	1,327.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	44.8	43.8	45.0
Rochester .....	57.8	61.1	61.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.7	1.7	1.6
St. Cloud .....	69.8	73.5	73.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.6	2.9	3.1
<b>Mississippi</b> .....	881.9	899.5	906.4	6.3	6.1	5.9	32.0	32.8	34.1
Jackson .....	178.8	181.8	183.2	.9	.9	.9	8.2	7.9	8.1
<b>Missouri</b> .....	2,213.6	2,225.4	2,243.9	5.2	4.6	5.0	89.8	79.1	85.2
Kansas City .....	750.7	754.3	760.6	.5	.5	.5	33.0	29.6	30.9
St. Louis .....	1,128.1	1,135.8	1,138.7	3.2	3.1	3.2	52.6	45.1	46.4
Springfield .....	111.2	112.6	114.0	.1	.1	.1	4.4	3.8	4.3
<b>Montana</b> .....	273.0	273.0	275.9	6.0	5.8	6.0	6.6	6.4	6.8
<b>Nebraska</b> .....	677.7	697.0	702.8	1.4	1.4	1.3	22.0	22.1	23.5
Lincoln .....	115.4	119.2	120.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	3.7	3.9
Omaha .....	303.6	312.9	315.0	.2	.2	.2	10.7	10.2	10.7
<b>Nevada</b> .....	520.3	552.4	558.0	10.0	12.0	12.3	31.8	38.7	39.8
Las Vegas .....	298.2	320.1	322.2	.2	.2	.2	20.1	25.5	26.0
Reno .....	134.2	137.4	139.4	1.1	1.2	1.3	6.8	7.2	7.7
<b>New Hampshire</b> .....	516.0	526.5	527.1	.6	.6	.6	32.3	29.6	30.0
Manchester .....	85.4	84.8	85.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.2	5.4	5.4
Nashua .....	94.8	94.7	94.8	.1	.1	.1	4.6	4.2	4.3
Portsmouth-Dover-Rochester .....	107.8	110.8	110.9	.1	.1	.1	5.6	5.4	5.4
<b>New Jersey</b> .....	3,594.8	3,610.9	3,635.9	2.2	2.4	2.4	159.3	156.9	163.1
Atlantic City .....	157.7	162.4	164.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.5	10.1	10.3
Bergen-Passaic .....	666.9	672.3	676.7	.1	.2	.2	31.2	30.3	31.4
Camden .....	428.0	434.2	438.2	.1	.1	.1	22.3	21.6	23.1
Jersey City .....	242.7	244.8	246.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	6.8	7.0
Middlesex-Somerset-Hunterdon .....	520.3	531.2	534.7	.6	.6	.6	22.3	21.9	22.7
Monmouth-Ocean .....	317.8	321.7	324.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.7	20.2	21.2
Newark .....	949.8	953.5	959.9	.7	.7	.7	36.7	36.3	37.7
Trenton .....	195.5	197.3	198.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.7	5.0
Vineland-Millville-Bridgeton .....	56.2	58.1	58.1	.4	.4	.4	2.0	2.1	2.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Maryland</b> .....	207.9	206.5	206.7	94.0	95.5	95.7	522.3	526.9	528.0
Baltimore MSA .....	133.8	130.7	130.9	53.6	54.4	54.8	267.8	269.6	271.6
Baltimore City .....	44.6	45.0	44.9	27.4	27.4	27.8	93.9	94.8	95.0
Suburban Maryland-D.C. ....	35.4	36.0	36.2	27.0	29.2	29.4	198.3	200.9	201.4
<b>Massachusetts</b> .....	569.3	579.3	579.0	133.7	134.6	133.9	716.7	717.6	721.4
Boston .....	271.6	266.9	267.8	76.2	76.5	75.7	367.0	366.4	366.3
Brockton .....	11.2	11.0	11.1	5.3	5.0	5.1	22.0	22.5	22.8
Fall River .....	16.7	15.3	15.3	1.9	1.8	1.9	13.9	13.9	14.0
Fitchburg-Leominster .....	12.1	12.1	12.2	1.7	1.6	1.6	10.0	10.2	10.3
Lawrence-Haverhill .....	50.6	46.6	48.9	6.9	7.1	7.1	36.0	36.8	37.1
Lowell .....	36.9	36.2	36.2	4.9	5.4	5.5	23.2	24.1	24.2
New Bedford .....	19.4	18.5	18.5	2.9	2.9	2.9	16.0	16.2	16.4
Springfield .....	51.3	50.5	50.3	9.7	10.3	10.4	58.3	56.7	57.1
Worcester .....	44.9	45.8	45.8	9.4	9.6	9.6	49.3	51.3	51.5
<b>Michigan</b> .....	940.2	946.0	947.1	150.8	150.3	151.0	657.6	662.4	666.2
Ann Arbor .....	38.6	39.0	38.9	4.3	4.1	4.0	29.3	31.2	30.7
Battle Creek .....	14.9	15.4	15.1	1.8	1.8	1.8	11.4	12.1	12.1
Benton Harbor .....	22.3	22.3	22.4	2.3	2.3	2.3	13.2	13.6	14.0
Detroit .....	456.5	463.7	466.3	86.4	84.3	85.3	434.5	450.3	451.2
Flint .....	48.4	49.5	51.0	4.0	4.0	4.0	42.3	44.2	44.3
Grand Rapids .....	96.8	99.2	99.4	11.4	11.8	11.9	83.0	86.2	86.9
Jackson .....	13.2	13.9	14.0	4.1	4.2	4.1	11.7	12.1	12.3
Kalamazoo .....	30.2	30.5	30.1	3.2	3.2	3.3	23.4	25.0	24.9
Lansing-East Lansing .....	32.5	31.3	30.0	5.5	5.2	5.4	43.6	44.9	45.8
Muskegon .....	17.1	16.3	16.4	2.3	2.3	2.3	12.8	13.0	13.0
Saginaw-Bay City-Midland .....	41.6	43.1	43.1	6.6	6.9	6.9	35.3	35.6	35.4
<b>Minnesota</b> .....	364.1	393.1	394.0	99.6	102.6	103.3	491.0	502.0	506.5
Duluth .....	7.5	7.8	7.9	5.5	5.4	5.4	22.0	21.7	21.8
Minneapolis-St. Paul .....	259.4	265.2	265.3	69.3	72.0	72.7	320.3	327.9	329.8
Rochester .....	10.5	11.2	11.3	1.7	1.8	1.8	11.9	12.4	12.5
St. Cloud .....	12.6	13.1	13.3	3.6	3.6	3.6	21.0	21.9	22.0
<b>Mississippi</b> .....	236.1	240.1	241.9	42.8	44.0	44.0	165.5	169.8	191.9
Jackson .....	20.5	20.7	20.6	13.0	13.2	13.2	42.0	42.4	42.7
<b>Missouri</b> .....	429.3	430.9	427.6	145.2	146.5	147.6	534.0	542.0	546.3
Kansas City .....	113.2	110.2	110.2	60.4	62.2	62.4	193.9	196.0	197.0
St. Louis .....	220.4	225.9	221.9	73.6	74.1	74.5	271.1	274.4	276.6
Springfield .....	21.2	21.3	21.3	6.7	6.9	7.0	31.2	31.5	31.8
<b>Montana</b> .....	20.0	20.6	20.8	19.1	19.0	19.1	70.9	70.6	71.3
<b>Nebraska</b> .....	92.6	97.5	97.5	43.4	46.3	46.9	173.6	179.4	160.9
Lincoln .....	14.1	15.2	15.3	5.9	6.4	6.4	26.7	27.0	27.0
Omaha .....	34.3	34.9	35.1	23.2	25.5	25.7	76.6	78.6	79.2
<b>Nevada</b> .....	24.6	25.6	25.9	28.4	29.7	29.6	106.1	111.2	112.3
Las Vegas .....	9.2	10.0	10.0	16.1	16.9	16.9	63.0	65.6	66.0
Reno .....	8.7	8.8	8.9	9.3	9.4	9.5	30.4	32.1	32.5
<b>New Hampshire</b> .....	118.5	119.4	119.2	17.6	17.7	17.6	130.4	134.9	134.6
Manchester .....	12.4	11.6	11.6	5.3	5.5	5.5	23.6	23.6	23.6
Nashua .....	36.3	36.4	36.4	2.5	2.7	2.6	22.5	21.7	21.7
Portsmouth-Dover-Rochester .....	20.8	21.0	21.0	2.9	3.1	3.0	26.8	28.4	26.4
<b>New Jersey</b> .....	667.1	658.2	659.2	240.7	241.3	241.3	654.3	656.0	660.3
Atlantic City .....	6.6	8.2	6.5	6.6	6.6	6.6	32.1	32.4	33.3
Bergen-Passaic .....	157.5	156.0	156.4	26.4	27.9	27.9	169.8	191.1	191.6
Camden .....	72.2	72.8	73.2	19.4	20.1	20.1	115.1	117.2	117.2
Jersey City .....	44.9	44.9	45.1	32.9	33.4	33.7	60.9	61.0	61.4
Middlesex-Somerset-Hunterdon .....	115.2	115.4	115.5	42.7	44.2	44.3	123.6	126.5	126.7
Monmouth-Ocean .....	29.1	29.6	29.6	17.3	18.4	18.3	64.8	63.7	64.6
Newark .....	177.2	173.5	173.7	60.6	79.6	79.0	193.8	193.6	195.3
Trenton .....	31.0	31.1	31.0	6.5	6.5	6.6	31.3	32.1	32.1
Vineland-Millville-Bridgeton .....	14.7	14.6	14.6	2.2	2.2	2.2	11.5	12.4	12.4

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Maryland</b> .....	127.7	130.1	130.4	554.2	563.8	566.5	402.6	411.7	413.4
Baltimore MSA .....	76.7	77.4	77.4	291.2	295.6	300.2	207.3	210.3	212.0
Baltimore City .....	45.3	45.9	45.8	142.0	144.0	145.7	90.7	92.0	92.5
Suburban Maryland-D.C. ....	42.5	43.9	44.2	215.3	218.1	219.6	156.1	161.9	162.6
<b>Massachusetts</b> .....	220.7	227.3	228.5	882.6	904.2	913.3	412.0	408.1	409.8
Boston .....	151.8	156.8	157.1	575.7	588.7	594.6	206.1	208.9	208.2
Brockton .....	3.3	3.4	3.4	15.5	16.1	16.7	12.3	12.4	12.4
Fall River .....	3.2	3.4	3.4	10.4	10.7	10.8	7.0	7.0	7.1
Fitchburg-Leominster .....	1.7	1.7	1.7	8.4	8.2	8.4	5.1	4.9	4.9
Lawrence-Haverhill .....	6.4	6.7	6.7	34.7	35.4	36.0	22.4	22.1	22.4
Lowell .....	3.7	4.0	4.1	20.7	20.9	21.4	13.8	13.9	14.0
New Bedford .....	2.6	2.5	2.5	13.4	13.9	13.9	10.0	10.8	10.8
Springfield .....	15.7	15.4	15.4	59.0	59.7	60.8	39.6	38.6	38.7
Worcester .....	14.3	14.9	15.0	52.6	55.2	55.8	25.5	25.4	25.4
<b>Michigan</b> .....	184.2	185.3	185.2	842.1	865.1	868.1	641.3	651.4	648.8
Ann Arbor .....	4.7	5.0	5.0	33.7	35.9	37.3	54.2	55.1	55.0
Battle Creek .....	3.4	3.5	3.5	12.0	12.3	12.3	11.8	12.0	12.0
Benton Harbor .....	2.5	2.5	2.5	14.0	14.3	14.4	8.8	8.8	8.9
Detroit .....	109.2	109.4	109.3	472.5	484.1	486.8	248.9	253.2	253.4
Flint .....	5.8	5.9	5.9	32.0	32.0	32.7	24.1	23.7	23.8
Grand Rapids .....	15.1	15.4	15.4	69.0	71.2	71.6	32.7	32.8	33.2
Jackson .....	1.9	1.9	1.9	9.8	10.0	10.0	9.9	10.1	10.1
Kalamazoo .....	4.8	5.0	5.1	23.8	24.3	24.4	18.3	18.6	18.6
Lansing-East Lansing .....	12.2	12.8	12.8	38.6	41.0	41.0	68.1	70.5	68.5
Muskegon .....	1.4	1.3	1.3	11.7	11.8	12.0	9.3	9.3	9.3
Saginaw-Bay City-Midland .....	6.1	6.2	6.2	32.2	34.5	34.7	21.7	21.4	21.5
<b>Minnesota</b> .....	118.1	119.1	119.6	481.6	494.7	498.3	326.9	338.8	337.8
Duluth .....	3.1	3.1	3.1	22.0	22.0	22.3	22.3	22.5	22.4
Minneapolis-St. Paul .....	91.7	93.3	93.7	327.9	334.7	336.8	179.1	184.2	183.6
Rochester .....	1.5	1.5	1.5	24.2	25.9	26.0	6.3	6.5	6.6
St. Cloud .....	2.3	2.2	2.3	15.3	15.7	15.8	12.4	13.8	12.8
<b>Mississippi</b> .....	38.5	38.9	39.0	143.2	146.7	148.3	197.5	201.1	201.3
Jackson .....	14.5	14.6	14.7	39.5	41.0	41.5	40.2	41.1	41.2
<b>Missouri</b> .....	134.5	134.6	135.2	516.6	523.1	529.1	359.0	364.6	367.5
Kansas City .....	58.3	58.3	58.3	176.0	180.1	182.4	115.4	117.4	118.9
St. Louis .....	75.4	74.9	74.9	288.3	294.4	297.2	143.5	143.9	144.0
Springfield .....	5.0	5.1	5.2	28.0	29.1	29.3	14.6	14.8	15.0
<b>Montana</b> .....	13.3	13.2	13.3	65.5	66.2	67.2	71.6	71.0	71.4
<b>Nebraska</b> .....	47.5	48.6	48.5	157.0	162.2	163.5	140.0	139.5	140.7
Lincoln .....	8.2	8.4	8.4	25.6	27.2	27.5	31.1	31.3	31.7
Omaha .....	28.5	29.2	29.3	83.7	87.2	87.6	46.4	46.9	47.2
<b>Nevada</b> .....	23.9	25.4	25.6	227.8	238.6	240.8	67.7	71.0	71.5
Las Vegas .....	14.7	16.2	16.3	140.4	149.3	150.4	34.5	36.2	36.4
Reno .....	6.8	6.8	6.8	54.0	54.3	54.9	17.1	17.6	17.8
<b>New Hampshire</b> .....	31.7	32.1	32.3	115.6	120.1	120.1	69.1	72.1	72.7
Manchester .....	8.2	8.2	8.2	21.9	21.6	21.9	8.8	8.9	9.0
Nashua .....	3.7	3.6	3.6	18.0	18.8	18.9	7.1	7.2	7.2
Portsmouth-Dover-Rochester .....	6.8	7.1	7.0	19.2	20.0	19.9	25.6	25.7	26.1
<b>New Jersey</b> .....	230.6	238.2	238.9	884.8	896.6	907.4	555.8	561.3	563.3
Atlantic City .....	7.4	7.4	7.4	68.0	72.3	73.1	25.4	25.3	25.0
Bergen-Passaic .....	38.1	40.0	40.1	152.6	156.4	158.3	69.2	70.4	70.8
Camden .....	24.3	25.6	25.5	102.6	103.9	105.5	72.0	72.9	73.5
Jersey City .....	13.1	13.6	13.6	42.8	43.0	43.2	41.1	42.1	42.5
Middlesex-Somerset-Hunterdon .....	36.4	38.1	38.2	107.1	110.8	112.2	72.4	73.7	74.5
Monmouth-Ocean .....	18.1	18.7	18.6	86.6	88.5	89.3	62.1	62.3	63.0
Newark .....	77.7	79.5	79.9	247.2	250.5	253.7	135.9	139.6	139.9
Trenton .....	9.6	9.9	9.8	56.6	57.4	57.4	55.8	55.6	56.3
Vineland-Millville-Bridgeton .....	3.5	3.5	3.5	10.1	10.7	10.7	11.8	12.0	12.0

See footnotes at end of table.

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

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

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>New Mexico</b> .....	534.9	543.8	547.0	15.3	15.0	15.1	29.1	27.5	28.5
Albuquerque .....	233.5	236.6	238.2	.2	.1	.2	14.3	14.0	14.3
Las Cruces .....	40.9	41.7	42.0	.1	.1	.1	2.1	2.2	2.2
Santa Fe .....	53.9	54.4	54.8	.1	.1	.1	2.3	2.2	2.2
<b>New York</b> .....	8,102.4	8,134.7	8,193.1	5.2	5.2	5.3	308.0	307.6	316.6
Albany-Schenectady-Troy .....	408.0	415.4	416.4	.3	.3	.4	16.9	17.8	17.9
Binghamton .....	121.9	122.6	123.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.9	5.0
Buffalo .....	438.3	439.2	443.1	.3	.2	.2	13.8	13.5	14.0
Elmira .....	39.1	40.5	40.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.4
Nassau-Suffolk .....	1,130.3	1,131.1	1,142.4	.2	.2	.2	56.7	55.1	58.4
New York PMSA .....	4,133.4	4,100.7	4,132.6	1.1	1.0	1.0	149.1	145.1	149.4
New York City .....	3,610.7	3,580.8	3,609.6	.6	.5	.5	118.0	116.4	119.6
Niagara Falls .....	79.3	80.7	81.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.6	2.7
Orange County .....	103.1	105.4	106.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	5.3	5.5
Poughkeepsie .....	118.2	120.0	120.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.4	6.4	6.5
Rochester .....	466.0	482.8	484.6	.7	.6	.6	15.6	16.3	16.4
Rockland County .....	98.1	99.3	99.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.7	4.3	4.5
Syracuse .....	298.2	304.9	303.4	.1	.1	.1	12.4	12.9	13.0
Utica-Rome .....	121.3	125.0	125.6	.1	.1	.1	3.0	2.9	3.0
Westchester County .....	406.6	402.5	405.3	.2	.2	.2	25.0	23.2	24.0
<b>North Carolina</b> .....	2,942.3	2,995.3	2,999.6	4.7	5.0	5.0	160.3	158.1	154.7
Asheville .....	79.5	80.1	81.3	.1	.1	.1	4.2	4.1	4.2
Charlotte-Gastonia-Rock Hill .....	590.7	602.1	604.1	.4	.4	.4	35.4	36.4	35.4
Greensboro-Winston-Salem-High Point .....	483.3	483.5	483.1	.3	.3	.3	24.7	23.6	23.4
Raleigh-Durham .....	392.8	399.4	400.0	.3	.3	.3	21.6	21.0	20.3
<b>North Dakota</b> .....	250.4	253.2	254.8	3.9	3.7	3.7	7.1	7.0	7.2
Bismarck .....	36.3	37.5	37.8	.2	.2	.2	1.1	1.1	1.1
Fargo-Moorhead .....	71.4	73.5	73.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.6	2.7
Grand Forks .....	30.0	30.5	30.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	.9	.9
<b>Ohio</b> .....	4,586.2	4,671.4	4,705.1	18.8	18.6	18.7	159.8	162.2	169.8
Akron .....	268.3	273.8	275.9	.5	.6	.6	8.0	8.3	8.7
Canton .....	155.7	159.1	159.8	.9	.9	.9	4.9	5.2	5.6
Cincinnati .....	679.5	704.3	711.0	.4	.5	.5	28.1	29.4	31.0
Cleveland .....	866.5	902.8	909.0	1.0	1.0	1.0	24.4	23.9	24.7
Columbus .....	664.1	683.4	687.8	.9	.9	.9	25.4	26.2	27.1
Dayton-Springfield .....	429.8	438.6	441.5	.4	.3	.4	15.2	16.2	16.9
Toledo .....	279.4	285.7	288.3	.2	.2	.2	9.1	9.7	10.2
Youngstown-Warren .....	189.4	193.0	194.7	.6	.6	.6	6.0	6.1	6.5
<b>Oklahoma</b> .....	1,125.4	1,131.0	1,137.5	45.6	43.6	43.9	34.0	31.1	31.9
Enid .....	21.6	21.1	21.3	1.2	1.0	1.0	.7	.6	.7
Lawton .....	34.1	33.4	33.8	.3	.3	.2	1.2	1.2	1.2
Oklahoma City .....	407.3	407.0	407.8	12.1	10.5	10.3	12.3	10.2	10.4
Tulsa .....	294.3	296.4	296.7	14.4	14.2	14.1	9.4	8.4	8.6
<b>Oregon</b> .....	1,123.6	1,158.4	1,170.5	1.3	1.2	1.3	34.8	36.5	37.6
Eugene-Springfield .....	107.9	110.7	112.0	.2	.2	.2	3.1	3.3	3.4
Portland .....	568.5	584.8	590.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	19.2	19.6	20.4
Salem .....	97.8	100.2	100.6	.1	.1	.1	3.1	3.4	3.4
<b>Pennsylvania</b> .....	4,964.7	5,016.3	5,044.3	28.9	27.5	27.6	204.3	209.2	215.5
Allentown-Bethlehem .....	273.2	277.8	278.7	.5	.5	.5	12.6	13.2	13.3
Altoona .....	50.6	50.5	51.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.1	1.9	2.1
Beaver County .....	48.8	48.5	48.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.0	1.4	1.4
Erie .....	112.1	114.0	115.2	.2	.2	.2	2.7	2.7	2.9
Harrisburg-Lebanon-Carlisle .....	295.5	299.3	300.1	.3	.3	.3	12.3	11.5	11.9
Johnstown .....	77.7	78.8	78.8	3.1	3.0	3.0	2.2	2.1	2.2
Lancaster .....	181.7	185.2	186.9	.3	.4	.4	10.8	11.0	11.3
Philadelphia PMSA .....	2,161.8	2,171.7	2,177.3	1.1	1.0	1.0	98.3	96.8	99.7
Philadelphia City .....	778.6	781.9	783.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	16.6	16.0	17.0
Pittsburgh .....	860.0	862.8	871.3	4.8	4.6	4.4	35.8	32.5	33.8

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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>New Mexico</b> .....	39.3	40.3	40.4	29.1	28.8	28.5	126.1	129.9	130.8
Albuquerque .....	20.4	20.4	20.4	12.6	12.6	12.8	58.7	60.2	60.7
Las Cruces .....	3.6	3.6	3.6	1.5	1.4	1.4	8.6	8.9	9.0
Santa Fe .....	1.6	1.7	1.7	1.2	1.0	1.0	10.2	10.5	10.8
<b>New York</b> .....	1,208.1	1,193.0	1,197.4	408.4	408.6	408.1	1,684.6	1,697.1	1,705.8
Albany-Schenectady-Troy .....	47.7	47.2	47.5	16.1	18.3	16.9	87.0	91.1	91.7
Binghamton .....	36.3	37.4	37.9	4.2	4.3	4.3	25.9	28.5	26.8
Buffalo .....	77.0	76.6	77.1	21.0	20.8	20.9	108.0	108.4	109.6
Elmira .....	8.4	8.8	8.9	1.4	1.4	1.4	10.4	10.5	10.8
Nassau-Suffolk .....	172.0	165.7	165.5	49.8	48.9	49.4	298.9	302.0	305.0
New York PMSA .....	453.5	437.2	441.2	243.2	241.8	240.1	753.6	748.4	752.2
New York City .....	372.2	358.5	362.4	217.7	218.1	214.5	831.8	826.1	829.6
Niagara Falls .....	23.7	23.7	23.8	3.4	3.5	3.5	18.3	18.8	18.7
Orange County .....	14.9	15.3	15.2	6.2	6.1	6.2	27.2	28.6	28.8
Poughkeepsie .....	30.1	29.8	29.9	3.4	3.7	3.7	21.5	22.2	22.3
Rochester .....	133.2	137.7	138.1	14.4	14.6	14.8	96.5	100.2	101.0
Rockland County .....	15.1	15.5	15.4	4.4	4.6	4.4	22.8	23.3	23.3
Syracuse .....	52.4	53.5	53.5	17.9	18.5	18.5	70.2	72.5	72.6
Utica-Rome .....	24.2	25.5	25.5	4.3	4.2	4.2	28.0	28.6	28.6
Westchester County .....	64.5	61.5	61.8	20.4	20.5	20.8	94.9	94.5	94.8
<b>North Carolina</b> .....	866.5	866.3	868.3	144.2	147.9	147.9	663.1	682.5	682.3
Asheville .....	19.1	18.9	19.0	3.8	3.8	3.9	19.1	19.5	19.6
Charlotte-Gastonia-Rock Hill .....	158.1	155.0	155.3	48.3	47.7	47.2	144.0	148.5	149.0
Greensboro-Winston-Salem-High Point .....	158.4	152.8	152.3	27.0	26.8	28.7	109.1	109.8	110.1
Raleigh-Durham .....	58.7	61.3	61.7	17.6	17.3	17.1	83.6	83.8	84.1
<b>North Dakota</b> .....	18.1	18.6	18.6	18.2	17.0	17.0	66.8	68.4	67.0
Bismarck .....	1.9	2.1	2.1	2.6	2.8	2.8	9.7	9.7	9.8
Fargo-Moorhead .....	4.9	4.9	5.0	4.4	4.7	4.7	20.8	21.3	21.4
Grand Forks .....	1.7	1.8	1.8	1.6	1.6	1.8	6.3	6.6	6.6
<b>Ohio</b> .....	1,089.8	1,107.3	1,107.7	208.6	208.5	209.8	1,095.5	1,124.1	1,134.5
Akron .....	65.7	66.3	66.2	12.7	12.9	13.0	65.9	68.3	68.8
Canton .....	44.4	45.3	45.3	5.5	5.8	5.8	36.5	39.4	39.8
Cincinnati .....	138.3	145.1	145.3	37.1	39.2	39.4	173.9	180.7	182.4
Cleveland .....	200.2	204.7	205.0	40.3	40.3	40.6	214.2	218.6	220.0
Columbus .....	101.0	103.2	102.9	28.9	30.1	30.2	168.4	174.0	175.3
Dayton-Springfield .....	103.9	104.7	104.9	18.4	18.8	17.0	98.3	96.5	99.8
Toledo .....	61.7	61.7	61.8	12.8	12.8	12.8	68.5	70.4	71.2
Youngstown-Warren .....	50.0	50.6	50.5	7.4	7.8	7.7	48.0	49.4	50.1
<b>Oklahoma</b> .....	160.0	163.3	162.7	62.1	61.9	62.4	270.1	270.9	273.2
Enid .....	1.6	1.4	1.5	2.1	2.2	2.2	6.2	5.9	5.9
Lawton .....	3.4	3.7	3.7	1.3	1.3	1.3	8.3	8.1	8.1
Oklahoma City .....	48.0	49.3	49.4	19.4	19.8	19.8	100.1	100.1	100.3
Tulsa .....	48.8	49.7	49.2	23.0	23.9	24.2	70.8	69.1	69.6
<b>Oregon</b> .....	207.8	207.1	208.2	59.1	61.8	62.0	279.0	293.1	296.4
Eugene-Springfield .....	20.3	19.9	20.1	4.2	4.3	4.4	28.4	27.5	27.7
Portland .....	97.5	97.8	98.5	35.1	36.2	36.2	147.8	152.5	154.1
Salem .....	13.1	13.5	13.3	2.9	2.9	3.0	21.9	22.5	22.6
<b>Pennsylvania</b> .....	1,049.9	1,052.2	1,053.2	251.3	250.6	251.8	1,126.5	1,135.1	1,139.2
Allentown-Bethlehem .....	77.1	77.7	77.5	14.1	13.9	13.9	60.2	61.2	61.3
Altoona .....	11.2	10.7	10.8	4.5	4.8	4.5	13.0	13.2	13.5
Beaver County .....	9.5	9.5	9.3	4.9	4.8	4.8	11.3	11.3	11.3
Erie .....	35.2	35.7	35.7	3.6	3.6	3.6	24.4	25.6	25.8
Harrisburg-Lebanon-Carlisle .....	51.3	52.0	51.5	18.5	18.3	18.8	66.7	67.7	67.3
Johnstown .....	13.8	13.5	13.5	5.2	5.2	5.2	16.3	18.9	17.0
Lancaster .....	80.1	59.1	59.8	7.0	7.3	7.4	43.3	44.7	44.9
Philadelphia PMSA .....	370.8	384.6	384.7	101.1	100.2	100.7	500.8	508.7	509.7
Philadelphia City .....	94.7	92.3	92.7	44.9	43.0	42.9	148.6	153.9	154.4
Pittsburgh .....	124.2	125.6	125.7	47.4	48.5	46.9	215.6	219.0	221.1

See footnotes at end of table.

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

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

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>
<b>New Mexico</b> .....	26.7	27.2	27.1	126.5	129.7	130.5	142.8	145.6	146.1
Albuquerque .....	14.8	15.0	14.9	65.3	66.3	66.7	47.2	48.0	48.4
Las Cruces .....	1.7	1.7	1.7	6.4	6.8	6.7	16.9	17.0	17.3
Santa Fe .....	2.0	1.9	1.9	14.4	14.5	14.5	22.1	22.5	22.6
<b>New York</b> .....	796.1	792.6	794.8	2,242.0	2,275.6	2,296.9	1,449.9	1,455.2	1,468.2
Albany-Schenectady-Troy .....	23.4	24.6	24.7	103.3	104.8	104.8	113.4	113.3	113.0
Binghamton .....	4.1	4.3	4.4	22.8	23.1	23.4	21.7	21.9	22.0
Buffalo .....	27.7	28.5	28.9	114.5	115.6	116.4	76.0	75.6	76.1
Elmira .....	1.4	1.4	1.4	9.7	9.9	10.0	6.6	7.1	6.8
Nassau-Suffolk .....	77.3	78.8	79.0	289.9	293.4	297.9	185.7	187.0	187.0
New York PMSA .....	580.9	570.0	571.0	1,270.6	1,277.5	1,289.9	681.4	679.6	687.7
New York City .....	547.2	535.0	535.8	1,125.1	1,131.0	1,142.1	598.3	597.3	605.2
Niagara Falls .....	2.0	2.0	2.0	16.4	17.3	17.6	12.8	13.0	13.1
Orange County .....	4.2	4.6	4.6	22.3	22.1	22.3	23.2	23.4	23.4
Poughkeepsie .....	4.8	5.0	5.1	27.0	28.3	28.5	25.0	24.5	24.7
Rochester .....	21.9	22.7	22.7	113.6	121.6	121.9	68.0	69.0	69.2
Rockland County .....	5.1	5.3	5.3	24.6	25.3	25.4	21.5	21.1	21.2
Syracuse .....	20.0	20.1	20.1	73.3	74.6	73.1	51.8	52.6	52.4
Utica-Rome .....	6.9	7.3	7.3	26.5	27.5	27.8	30.3	30.9	31.1
Westchester County .....	27.9	29.1	29.2	116.0	116.2	117.5	57.6	57.3	57.3
<b>North Carolina</b> .....	128.1	130.5	130.3	511.8	534.4	539.0	463.6	468.6	472.1
Asheville .....	2.7	2.5	2.6	18.4	19.4	19.8	12.1	11.8	12.1
Charlotte-Gastonia-Rock Hill .....	37.2	37.5	37.6	105.8	110.3	112.4	63.5	66.3	66.8
Greensboro-Winston-Salem-High Point .....	23.7	24.4	24.4	89.0	89.9	89.8	53.1	56.1	56.1
Raleigh-Durham .....	22.9	23.3	23.3	97.2	100.8	101.2	90.9	91.8	92.0
<b>North Dakota</b> .....	12.3	12.1	12.2	62.7	63.9	64.6	65.5	66.5	66.5
Bismarck .....	1.6	1.6	1.6	10.8	11.4	11.5	8.4	8.8	8.9
Fargo-Moorhead .....	4.4	4.4	4.4	19.9	20.7	20.9	14.5	14.9	14.8
Grand Forks .....	1.1	1.1	1.1	6.7	6.7	6.9	9.6	9.8	9.9
<b>Ohio</b> .....	246.1	250.8	251.4	1,061.5	1,091.8	1,101.8	708.3	708.0	711.3
Akron .....	10.6	10.5	10.6	59.4	61.7	62.2	45.4	45.2	45.7
Canton .....	6.3	6.2	6.3	36.0	36.8	37.1	19.1	19.4	19.1
Cincinnati .....	41.4	42.5	42.6	171.0	176.2	179.1	89.2	90.7	90.9
Cleveland .....	55.7	57.6	57.8	233.9	240.6	242.5	116.9	116.1	117.3
Columbus .....	57.5	58.6	58.6	157.9	163.9	165.5	124.2	126.7	127.2
Dayton-Springfield .....	17.8	18.1	18.1	105.3	109.1	109.8	74.6	75.0	74.6
Toledo .....	12.2	12.5	12.5	70.9	73.8	74.4	44.0	44.8	45.1
Youngstown-Warren .....	8.1	8.2	8.1	44.1	45.8	46.2	25.2	24.7	25.1
<b>Oklahoma</b> .....	59.5	58.2	58.2	242.6	248.0	249.2	251.5	254.0	256.0
Enid .....	1.0	1.0	1.0	5.3	5.4	5.5	3.5	3.6	3.5
Lawton .....	1.5	1.5	1.5	6.2	6.0	6.2	11.9	11.3	11.6
Oklahoma City .....	24.4	23.6	23.7	94.0	93.9	94.3	97.0	99.8	99.6
Tulsa .....	17.0	17.5	17.3	73.9	76.5	76.7	37.2	37.1	36.8
<b>Oregon</b> .....	72.7	74.3	74.6	254.9	266.7	270.3	214.2	217.7	220.1
Eugene-Springfield .....	5.1	5.3	5.3	24.7	25.9	26.4	23.9	24.3	24.5
Portland .....	47.8	49.0	49.3	140.9	147.0	148.4	80.0	82.5	83.1
Salem .....	5.6	5.9	5.9	20.2	20.8	21.1	30.9	31.1	31.2
<b>Pennsylvania</b> .....	289.8	292.5	294.6	1,307.9	1,339.6	1,352.9	706.1	709.6	709.5
Allentown-Bethlehem .....	12.7	12.7	12.7	65.6	67.8	69.0	30.4	30.8	30.5
Altoona .....	1.7	1.9	1.9	10.9	10.9	10.9	7.2	7.3	7.4
Beaver County .....	1.6	1.6	1.7	11.5	11.8	12.0	8.0	8.1	8.1
Erie .....	5.2	5.3	5.4	26.5	26.9	27.2	14.1	14.0	14.4
Harrisburg-Lebanon-Carlisle .....	17.9	19.7	19.8	62.1	63.3	64.1	66.4	66.5	66.6
Johnstown .....	4.7	4.6	4.5	19.8	20.3	20.2	12.8	13.2	13.2
Lancaster .....	6.9	7.3	7.3	37.3	39.3	39.8	16.0	16.1	16.2
Philadelphia PMSA .....	162.1	161.8	162.5	623.9	633.9	636.3	303.9	304.7	302.7
Philadelphia City .....	71.3	70.5	70.8	258.5	263.1	264.2	143.8	143.1	141.4
Pittsburgh .....	51.8	52.8	53.3	273.4	274.2	276.5	106.8	107.6	109.6

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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	147.6	151.1	152.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.5	6.7	6.9
Scranton—Wilkes-Barre .....	294.2	297.5	299.3	0.6	0.6	0.6	11.8	12.1	12.9
Williamsport .....	50.4	51.0	51.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	1.8	1.9
York .....	174.0	177.4	178.5	.4	.5	.5	8.9	8.9	9.1
<b>Rhode Island</b> .....	450.1	449.8	453.9	.2	.1	.2	18.5	18.4	19.7
Pawtucket—Woonsocket—Attleboro .....	129.3	129.9	131.0	.2	.2	.2	5.3	5.3	5.7
Providence .....	316.9	320.6	322.3	.1	.1	.1	13.4	14.1	14.7
<b>South Carolina</b> .....	1,426.1	1,469.1	1,482.8	1.8	1.8	1.9	87.9	90.9	92.2
Charleston .....	190.9	192.8	193.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.1	12.8	12.8
Columbia .....	230.0	231.5	233.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.6	14.0	14.2
Greenville—Spartanburg .....	318.5	322.5	323.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.5	21.9	22.0
<b>South Dakota</b> .....	257.8	259.0	260.3	2.5	2.5	2.5	7.0	6.6	6.9
Rapid City .....	33.5	33.8	34.1	.2	.2	.2	1.5	1.4	1.4
Sioux Falls .....	66.2	67.3	67.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.0	2.2
<b>Tennessee</b> .....	2,053.6	2,052.2	2,064.6	6.6	6.3	6.6	92.3	86.1	88.3
Chattanooga .....	195.1	199.0	197.9	.7	.5	.6	8.0	8.3	8.3
Johnson City—Kingsport—Bristol .....	162.3	165.6	165.3	.3	.4	.4	7.0	6.8	6.7
Knoxville .....	255.8	255.2	258.0	1.7	1.7	1.7	12.8	11.5	11.6
Memphis .....	428.1	436.1	437.8	.1	.1	.1	17.6	17.9	18.3
Nashville .....	485.4	483.3	482.2	.7	.7	.8	26.8	25.9	26.4
<b>Texas</b> .....	6,599.1	6,704.8	6,732.7	185.9	177.3	177.5	327.6	302.2	308.4
Abilene .....	48.6	49.7	49.2	2.2	2.0	1.9	1.9	2.0	2.0
Amarillo .....	77.3	76.7	76.7	1.3	1.3	1.4	3.5	3.6	3.8
Austin .....	355.6	354.1	354.7	.8	.7	.7	14.4	13.3	13.1
Beaumont—Port Arthur .....	130.1	132.4	133.5	1.7	1.8	1.8	7.9	8.7	9.1
Brazoria .....	58.1	60.4	60.6	2.3	1.9	1.9	5.9	7.4	7.4
Brownsville—Harlingen .....	67.7	69.8	70.6	.1	.1	.1	2.1	2.2	2.2
Bryan—College Station .....	49.3	50.9	50.9	.6	.6	.6	1.7	1.8	1.9
Corpus Christi .....	124.0	125.1	126.1	3.9	4.5	4.5	8.0	8.1	8.4
Dallas .....	1,338.6	1,337.6	1,342.1	18.8	17.5	17.4	58.7	49.1	49.9
El Paso .....	192.0	195.2	195.5	.1	.1	.1	9.1	8.7	8.9
Ft. Worth—Arlington .....	523.5	529.5	532.7	3.6	4.1	4.1	23.0	21.8	21.9
Galveston—Texas City .....	71.2	70.3	71.3	.8	.5	.5	4.6	4.9	5.0
Houston .....	1,420.7	1,454.0	1,462.1	64.7	66.3	66.7	84.8	85.5	87.4
Killeen—Temple .....	69.6	71.8	71.7	.1	.1	.1	3.4	3.6	3.5
Laredo .....	37.0	38.8	38.9	2.0	1.9	1.9	1.2	1.1	1.2
Longview—Marshall .....	65.1	65.7	65.7	3.6	3.6	3.6	3.2	2.9	3.0
Lubbock .....	92.4	94.8	94.9	.4	.4	.4	3.0	3.2	3.2
McAllen—Edinburg—Mission .....	94.1	100.7	100.5	.9	.9	.9	4.0	4.2	4.2
Midland .....	44.8	44.2	44.1	10.3	9.7	9.7	1.3	1.4	1.3
Odessa .....	43.5	42.3	42.4	6.2	5.6	5.6	2.2	1.7	1.7
San Angelo .....	36.6	36.9	36.9	.5	.5	.5	1.5	1.4	1.4
San Antonio .....	499.5	503.8	507.3	2.5	2.0	1.9	26.4	22.2	22.2
Sherman—Denison .....	37.6	36.9	37.0	.1	.1	.1	1.7	1.6	1.8
Texarkana .....	44.8	45.1	45.4	.1	.1	.1	1.8	1.5	1.5
Tyler .....	60.1	60.7	60.8	1.8	1.9	1.9	2.0	2.0	2.0
Victoria .....	27.8	27.6	27.8	1.8	1.2	1.3	1.6	1.4	1.4
Waco .....	78.9	80.4	80.2	.1	.1	.1	3.4	3.6	3.5
Wichita Falls .....	50.3	50.6	50.5	2.0	1.9	1.9	1.8	2.0	2.1
<b>Utah</b> .....	646.4	665.4	671.5	8.3	7.6	7.7	21.4	20.6	21.4
Provo—Orem .....	79.2	84.0	85.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.4
Salt Lake City—Ogden .....	446.1	455.3	459.5	2.7	2.5	2.5	15.5	14.7	15.0
<b>Vermont</b> .....	250.9	261.2	259.9	.5	.3	.5	14.4	17.4	17.4
Barre—Montpelier .....	33.6	35.0	35.1	.2	.1	.2	1.7	1.6	1.7
Burlington .....	76.3	76.6	76.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	3.9	4.0

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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	47.6	48.5	48.6	6.6	6.7	6.7	32.2	33.1	33.4
Scranton-Wilkes-Barre .....	71.0	72.0	71.7	15.9	16.0	16.1	67.1	66.5	67.2
Williamsport .....	16.6	16.1	16.0	1.8	1.9	1.9	11.1	11.4	11.5
York .....	60.8	61.7	61.9	7.4	7.8	7.8	41.6	41.9	42.3
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	114.5	113.0	113.2	15.5	15.1	15.4	101.4	101.9	102.4
Providence .....	50.7	49.4	49.4	3.5	3.7	3.7	31.9	32.2	32.5
	71.4	70.1	70.3	12.0	12.1	12.1	69.2	69.8	70.0
<b>South Carolina</b>									
Charleston .....	383.7	384.5	384.3	61.2	63.8	64.0	312.1	327.8	333.0
Columbia .....	21.0	21.6	21.2	11.0	11.9	11.7	45.3	43.9	44.3
Greenville-Spartanburg .....	28.8	30.0	30.0	10.6	10.2	10.5	50.5	49.8	50.3
	102.3	102.8	102.4	12.1	12.5	12.5	72.8	73.8	74.6
<b>South Dakota</b>									
Rapid City .....	30.5	29.4	29.6	13.3	13.5	13.5	66.6	66.8	67.4
Sioux Falls .....	3.1	3.1	3.2	1.9	1.8	1.8	9.6	10.0	10.1
	8.1	7.7	7.9	5.2	5.3	5.4	18.2	18.3	18.4
<b>Tennessee</b>									
Chattanooga .....	507.8	508.5	511.0	107.3	109.5	109.2	480.9	481.8	483.9
Johnson City-Kingsport-Bristol .....	47.0	47.7	47.7	9.0	9.4	9.4	45.0	45.4	44.9
Knoxville .....	52.2	54.3	54.3	6.1	6.2	6.4	36.6	36.0	35.3
Memphis .....	53.0	52.7	52.4	10.0	9.9	10.0	62.9	63.7	64.4
Nashville .....	54.7	54.1	54.7	39.9	41.4	40.9	115.3	117.3	117.7
	89.4	90.7	90.8	24.2	24.3	24.3	119.9	117.6	115.9
<b>Texas</b>									
Abilene .....	952.0	964.8	965.9	385.2	395.6	397.0	1,629.6	1,642.9	1,647.9
Amarillo .....	4.7	5.0	5.0	2.4	2.4	2.3	13.1	13.8	13.5
Austin .....	10.0	9.1	9.0	5.6	5.6	5.6	21.8	22.3	22.2
Beaumont-Port Arthur .....	40.4	41.2	41.1	10.7	10.4	10.5	77.2	75.6	75.3
Brazoria .....	24.4	25.1	25.4	9.4	9.6	9.6	31.7	31.9	32.2
Brownsville-Harlingen .....	15.4	15.7	16.0	2.7	2.8	2.6	10.8	11.0	11.1
Bryan-College Station .....	9.6	10.0	9.9	3.2	3.1	3.1	17.7	18.2	18.6
Corpus Christi .....	3.4	3.4	3.3	1.5	1.4	1.4	10.5	10.7	10.7
Dallas .....	11.4	11.4	11.4	6.5	6.4	6.4	31.2	31.0	31.2
El Paso .....	222.7	221.9	221.1	90.2	91.9	92.5	340.7	345.9	347.8
Ft. Worth-Arlington .....	40.5	40.1	40.0	10.5	10.6	10.6	45.1	46.6	47.1
Galveston-Texas City .....	119.1	121.9	121.4	29.8	30.9	31.0	136.5	136.6	136.8
Houston .....	8.4	8.3	8.4	4.5	4.6	4.6	13.6	13.4	13.9
Killeen-Temple .....	152.8	156.4	157.3	102.2	100.2	100.6	349.4	359.3	362.0
Laredo .....	7.6	8.5	8.4	2.7	2.8	2.8	15.8	16.2	16.3
Longview-Marshall .....	1.6	1.8	1.7	4.7	5.1	5.1	10.6	11.6	11.6
Lubbock .....	15.8	15.7	15.5	3.1	3.1	3.1	16.4	17.0	17.1
McAllen-Edinburg-Mission .....	7.1	7.5	7.5	4.7	4.8	4.8	27.7	27.8	27.7
Midland .....	12.7	14.8	14.3	3.0	3.1	3.1	29.1	31.8	32.1
Odessa .....	2.6	2.6	2.5	2.4	2.3	2.3	9.9	9.7	9.7
San Angelo .....	4.1	3.9	4.0	2.1	2.1	2.1	12.4	12.6	12.6
San Antonio .....	5.5	5.5	5.5	3.2	3.0	3.0	9.1	9.3	9.3
Sherman-Denison .....	47.6	47.4	47.4	19.0	18.9	19.0	125.0	126.2	127.2
Texarkana .....	11.2	11.0	11.0	2.0	1.9	1.9	7.6	7.7	7.8
Tyler .....	7.4	7.4	7.4	1.8	1.9	2.0	10.3	10.4	10.6
Victoria .....	10.6	10.7	10.7	2.5	2.5	2.5	15.9	15.8	15.8
Waco .....	3.1	3.0	3.0	1.4	1.4	1.4	7.5	7.7	7.7
Wichita Falls .....	14.5	14.9	14.8	3.3	3.4	3.4	18.7	18.8	18.6
	8.1	7.9	8.0	2.6	2.6	2.5	11.9	12.0	12.1
<b>Utah</b>									
Provo-Orem .....	95.3	101.0	101.1	38.1	39.8	39.6	151.8	156.1	158.1
Salt Lake City-Ogden .....	12.3	14.5	14.9	2.9	2.7	2.8	16.6	17.3	17.3
	61.9	64.5	65.1	28.9	31.0	30.7	110.4	112.4	114.3
<b>Vermont</b>									
Barre-Montpelier .....	49.5	49.1	48.9	10.3	10.2	10.3	57.9	61.2	60.9
Burlington .....	4.7	5.0	5.0	.9	.9	.9	7.1	7.7	7.6
	16.7	16.1	16.1	3.2	3.4	3.4	18.1	18.5	18.5

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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	7.8	8.3	8.4	29.7	30.4	30.8	17.2	17.4	17.2
Scranton-Wilkes-Barre .....	13.1	13.6	13.6	72.4	74.3	74.4	42.3	42.4	42.8
Williamsport .....	2.3	2.4	2.4	9.9	10.3	10.3	6.9	7.1	7.0
York .....	4.8	4.8	4.9	31.5	33.1	33.2	18.6	18.7	18.8
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	26.5	26.4	26.6	114.1	114.3	115.8	59.4	60.6	60.6
Providence .....	3.8	3.9	4.0	23.6	24.9	25.3	10.3	10.3	10.2
	22.1	23.0	23.1	84.1	86.6	87.1	44.6	44.8	44.9
<b>South Carolina</b>									
Charleston .....	63.5	65.7	66.1	250.6	261.1	266.8	265.3	273.5	274.5
Columbia .....	8.4	8.5	8.8	39.5	41.1	42.2	52.5	52.9	52.8
Greenville-Spartanburg .....	17.6	18.0	18.1	44.8	44.9	45.1	63.8	64.3	64.9
	11.9	11.9	11.9	56.0	56.1	57.0	41.6	43.2	43.1
<b>South Dakota</b>									
Rapid City .....	14.1	14.9	14.9	63.4	64.8	64.6	60.5	60.6	60.9
Sioux Falls .....	1.6	1.5	1.5	8.5	8.4	8.5	7.1	7.5	7.4
	6.2	6.7	6.7	18.9	19.6	19.6	7.4	7.6	7.6
<b>Tennessee</b>									
Chattanooga .....	102.5	104.8	105.2	425.7	427.2	432.0	330.6	328.0	328.4
Johnson City-Kingsport-Bristol .....	12.5	12.7	12.7	38.0	38.7	38.7	34.9	36.3	35.6
Knoxville .....	5.2	5.4	5.4	30.1	32.4	32.5	24.8	24.1	24.3
Memphis .....	9.7	10.0	10.0	54.5	56.3	56.6	51.2	49.4	49.3
Nashville .....	24.6	25.2	25.3	103.9	107.0	108.1	72.0	73.1	72.7
	34.4	34.7	34.5	121.7	119.7	119.7	68.3	69.7	70.1
<b>Texas</b>									
Abilene .....	437.9	438.5	439.7	1,498.3	1,559.9	1,567.6	1,182.6	1,223.6	1,228.7
Amarillo .....	2.4	2.5	2.5	13.1	13.0	13.0	8.8	9.0	9.0
Austin .....	4.5	4.2	4.2	16.3	16.9	16.9	14.3	13.7	13.6
Beaumont-Port Arthur .....	24.5	24.0	24.0	84.4	85.0	85.7	103.2	103.9	104.3
Brazoria .....	5.2	5.2	5.1	29.4	29.5	29.6	20.4	20.6	20.7
Brownsville-Harlingen .....	2.0	1.9	1.9	8.1	8.4	8.4	10.9	11.3	11.3
Bryan-College Station .....	3.8	3.6	3.7	14.7	15.7	16.0	16.6	17.0	17.1
Corpus Christi .....	1.6	1.7	1.7	8.8	9.2	9.1	21.2	22.1	22.2
Dallas .....	6.8	7.0	7.1	28.6	28.6	29.0	27.6	28.1	28.1
El Paso .....	130.0	127.0	126.6	326.2	331.2	333.5	151.3	153.1	153.3
Ft. Worth-Arlington .....	8.7	8.5	8.4	37.6	38.9	38.9	40.5	41.7	41.5
Galveston-Texas City .....	27.0	26.6	26.7	115.8	119.1	120.7	68.7	69.5	70.1
Houston .....	4.3	4.1	4.0	13.5	13.6	13.9	21.7	20.9	21.0
Killeen-Temple .....	101.4	99.5	99.6	377.2	390.3	391.4	188.2	196.5	197.1
Laredo .....	2.9	2.9	2.9	15.6	16.5	16.3	21.5	21.2	21.4
Longview-Marshall .....	1.7	1.5	1.5	6.1	6.1	6.1	9.1	9.7	9.8
Lubbock .....	2.7	2.7	2.7	11.8	12.1	12.1	8.5	8.6	8.6
McAllen-Edinburg-Mission .....	5.2	5.5	5.6	22.6	23.6	23.6	21.7	22.0	22.1
Midland .....	3.8	3.8	3.7	15.6	16.2	16.3	25.0	25.9	25.9
Odessa .....	2.3	2.3	2.3	9.6	9.5	9.6	6.4	6.7	6.7
San Angelo .....	1.7	1.7	1.7	7.0	7.2	7.2	7.8	7.5	7.5
San Antonio .....	1.8	1.8	1.8	8.1	8.1	8.1	6.9	7.3	7.3
Sherman-Denison .....	39.2	39.6	39.8	123.6	126.3	128.0	116.2	121.2	121.8
Texarkana .....	1.8	1.7	1.7	8.7	8.5	8.4	4.5	4.4	4.3
Tyler .....	1.9	1.9	1.9	9.1	9.5	9.5	12.4	12.4	12.4
Victoria .....	3.6	3.4	3.4	14.3	14.8	14.9	9.4	9.6	9.6
Waco .....	1.5	1.6	1.6	6.0	6.2	6.2	4.9	5.1	5.2
Wichita Falls .....	4.8	4.8	4.8	21.4	21.8	22.0	12.7	13.0	13.0
	2.3	2.3	2.3	11.9	11.9	11.8	9.7	10.0	9.8
<b>Utah</b>									
Provo-Orem .....	33.5	32.9	32.9	153.4	161.2	163.2	144.6	146.2	147.5
Salt Lake City-Ogden .....	2.3	2.2	2.2	29.1	31.6	32.6	13.8	13.4	13.6
	27.5	26.8	27.0	104.4	107.4	108.6	94.8	96.0	96.3
<b>Vermont</b>									
Barre-Montpelier .....	12.1	12.9	12.8	64.1	67.6	66.4	42.1	42.5	42.7
Burlington .....	3.0	3.1	3.1	7.7	8.3	8.2	8.3	8.3	8.4
	3.6	3.6	3.6	18.4	18.5	18.5	12.2	12.5	12.5

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	Total			Mining			Construction		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>Virginia</b> .....	2,725.2	2,817.1	2,842.1	15.8	15.4	15.6	182.1	192.6	196.8
Bristol .....	31.5	32.4	32.9	.1	.1	.1	.8	.8	.8
Charlottesville .....	67.3	68.9	67.5	.1	.1	.1	3.7	3.8	3.8
Danville .....	40.5	41.9	41.7	.1	.1	.1	1.8	2.1	2.1
Lynchburg .....	71.1	72.0	72.4	.1	.1	.1	3.3	3.4	3.3
Norfolk-Virginia Beach-Newport News .....	554.8	556.3	559.4	.1	.1	.1	36.8	36.7	36.5
Northern Virginia .....	728.8	763.4	770.1	.5	.6	.6	54.9	61.8	63.0
Richmond-Petersburg .....	448.7	458.7	481.4	.8	1.0	1.0	29.0	30.6	31.3
Roanoke .....	121.6	122.7	123.8	.1	.1	.1	7.2	7.5	7.5
<b>Washington</b> .....	1,886.5	1,980.8	1,981.6	3.2	3.2	3.4	87.2	90.6	95.0
Seattle .....	962.1	1,007.8	1,018.1	.6	.6	.6	48.2	47.8	49.6
<b>West Virginia</b> .....	596.9	600.7	607.6	34.2	33.6	33.8	20.9	20.6	22.8
Charleston .....	105.7	106.6	107.2	1.9	2.0	2.0	3.7	3.5	3.7
Huntington-Ashland .....	102.6	104.7	105.3	1.4	1.5	1.4	3.5	3.5	4.0
Parkersburg-Marietta .....	58.5	59.8	58.8	.6	.6	.6	2.6	2.2	2.4
Wheeling .....	58.0	58.4	58.6	2.2	2.6	2.6	1.8	1.7	1.7
<b>Wisconsin</b> .....	2,099.5	2,150.4	2,156.8	1.6	1.7	2.0	62.4	64.1	84.4
Appleton-Oshkosh-Neenah .....	148.9	150.3	150.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.2	8.2	6.4
Eau Claire .....	55.4	57.5	57.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.5
Green Bay .....	94.2	96.0	97.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	2.8	3.0
Janesville-Beloit .....	55.4	57.2	57.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.5
Kenosha .....	41.8	40.5	40.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.7	1.3
La Crosse .....	51.8	55.4	55.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.7	1.6
Madison .....	200.8	205.2	205.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.6	5.5	5.2
Milwaukee .....	705.2	723.5	726.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.2	21.1	21.3
Racine .....	72.0	73.5	73.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.7	1.7
Wausau .....	46.8	48.8	49.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.9	1.9
<b>Wyoming</b> .....	177.9	178.2	178.7	17.7	17.9	17.9	8.1	8.1	9.0
<b>Puerto Rico</b> .....	603.1	820.1	819.8	.8	.8	.8	40.1	42.1	42.3
Caguas .....	51.7	52.2	52.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	57.7	58.3	58.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	52.1	53.2	53.7	.1	.1	.1	3.7	3.7	3.7
San Juan .....	493.8	507.1	505.8	.5	.4	.4	29.6	30.2	30.2
<b>Virgin Islands</b> .....	41.9	41.5	42.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	1.9	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. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>Virginia</b> .....	423.6	426.5	426.1	142.7	146.7	147.7	615.9	636.0	642.7
Bristol .....	10.7	11.0	11.1	1.1	1.1	1.1	7.9	8.3	8.5
Charlottesville .....	8.7	8.8	8.8	2.3	2.3	2.3	12.9	13.3	13.4
Danville .....	16.3	16.9	16.6	1.0	.9	.9	8.7	9.2	9.2
Lynchburg .....	23.0	22.6	22.4	2.6	2.5	2.5	15.7	16.2	16.7
Norfolk-Virginia Beach-Newport News .....	67.3	66.5	66.7	26.1	26.2	26.3	135.2	136.1	136.9
Northern Virginia .....	35.3	34.7	34.5	50.5	56.6	57.0	162.2	163.4	165.3
Richmond-Petersburg .....	62.6	62.6	62.5	23.5	23.5	23.5	106.8	109.0	110.0
Roanoke .....	19.8	19.7	19.8	8.4	8.3	8.3	33.5	33.4	33.9
<b>Washington</b> .....	329.6	344.8	347.3	98.8	102.2	102.9	457.6	475.3	479.8
Seattle .....	193.0	206.6	208.8	60.2	62.8	63.5	230.8	241.3	243.2
<b>West Virginia</b> .....	85.3	86.9	87.2	36.4	36.8	37.1	139.1	139.9	142.2
Charleston .....	10.7	11.1	11.1	8.6	8.8	8.9	27.7	27.9	27.9
Huntington-Ashland .....	19.3	19.7	19.8	7.8	7.9	7.9	26.1	26.5	26.6
Parkersburg-Marietta .....	13.7	14.0	13.8	2.1	2.2	2.2	14.0	14.2	13.4
Wheeling .....	7.1	7.1	7.2	3.2	3.3	3.4	16.1	15.9	15.9
<b>Wisconsin</b> .....	536.6	550.3	551.4	95.1	98.2	98.7	487.5	496.5	498.8
Appleton-Oshkosh-Neenah .....	51.2	52.3	52.2	5.3	5.7	5.7	30.8	31.5	31.6
Eau Claire .....	10.9	11.7	11.4	2.9	3.1	3.1	15.1	14.9	15.1
Green Bay .....	23.7	24.8	25.4	7.1	7.2	7.3	24.2	24.1	24.4
Janesville-Beloit .....	17.9	18.4	18.1	2.1	2.2	2.1	13.5	13.5	13.7
Kenosha .....	14.3	11.6	11.7	1.4	1.4	1.4	9.0	9.4	9.5
La Crosse .....	11.1	11.0	10.9	2.1	2.1	2.1	14.7	15.9	16.0
Madison .....	23.7	24.8	25.1	7.0	7.2	7.2	44.5	45.9	46.1
Milwaukee .....	170.7	177.0	176.9	34.5	35.2	35.5	158.2	162.2	163.2
Racine .....	25.5	26.4	26.1	2.2	2.2	2.2	16.2	16.2	16.4
Wausau .....	13.0	13.6	13.7	2.7	2.8	2.8	11.3	11.8	12.0
<b>Wyoming</b> .....	8.3	8.9	9.1	13.2	13.5	13.5	39.5	40.6	41.2
<b>Puerto Rico</b> .....	157.0	159.2	160.7	18.3	17.7	17.2	142.6	145.4	144.3
Caguas .....	16.8	16.6	17.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.3	11.0	10.9
Mayaguez .....	21.1	21.0	21.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	7.6	7.6
Ponce .....	9.9	10.1	10.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.0	8.7	8.8
San Juan .....	65.0	66.7	67.3	14.2	14.3	13.9	98.3	100.6	99.8
<b>Virgin Islands</b> .....	2.3	2.4	2.4	2.6	2.6	2.6	10.0	9.5	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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Virginia</b> .....	147.4	152.2	152.5	648.1	685.3	696.7	549.6	562.4	564.0
Bristol .....	1.1	1.2	1.3	4.7	4.6	4.7	5.1	5.3	5.3
Charlottesville .....	3.4	3.3	3.3	12.5	12.5	12.7	23.7	22.8	23.1
Danville .....	1.3	1.3	1.3	6.1	6.1	6.1	5.2	5.3	5.4
Lynchburg .....	3.8	4.2	4.2	13.3	13.7	13.8	9.3	9.3	9.4
Norfolk-Virginia Beach-Newport News .....	26.6	26.5	26.4	131.5	133.5	135.5	131.2	130.7	131.0
Northern Virginia .....	48.0	50.1	50.2	234.4	250.7	253.3	141.0	145.5	146.2
Richmond-Petersburg .....	38.1	40.0	39.9	95.1	95.0	97.0	92.8	97.0	96.2
Roanoke .....	8.1	8.5	8.5	29.0	29.8	30.2	15.5	15.4	15.3
<b>Washington</b> .....	107.8	111.6	112.2	433.7	454.7	460.0	368.6	378.4	381.0
Seattle .....	69.1	71.1	71.2	225.5	238.2	240.8	134.7	139.4	140.4
<b>West Virginia</b> .....	24.2	24.2	24.2	127.7	131.4	132.8	129.1	127.3	127.5
Charleston .....	6.2	6.2	6.3	25.4	26.2	26.3	21.5	20.9	21.0
Huntington-Ashland .....	3.7	3.8	3.8	21.7	22.7	22.6	19.1	19.1	19.2
Parkersburg-Marietta .....	2.3	2.3	2.3	13.4	14.1	14.1	9.8	10.0	10.0
Wheeling .....	2.7	2.8	2.7	15.5	15.7	15.9	9.4	9.3	9.2
<b>Wisconsin</b> .....	113.8	116.7	116.8	470.7	484.2	485.3	331.8	338.7	339.2
Appleton-Oshkosh-Neenah .....	7.1	7.3	7.3	28.9	29.7	29.8	17.2	17.3	17.5
Eau Claire .....	1.8	1.8	1.8	12.2	13.0	12.9	11.0	11.5	11.5
Green Bay .....	3.2	3.4	3.4	21.7	22.2	22.4	11.2	11.5	11.9
Janesville-Beloit .....	1.6	1.6	1.6	12.0	12.4	12.6	6.9	7.5	7.5
Kenosha .....	1.1	1.2	1.2	8.4	8.8	8.6	6.3	6.4	6.5
La Crosse .....	1.5	1.6	1.6	14.2	15.3	15.4	7.0	7.8	8.0
Madison .....	17.9	18.5	18.4	44.8	45.9	46.5	56.2	57.3	57.3
Milwaukee .....	50.3	51.6	51.9	186.8	192.4	193.6	83.3	83.8	83.5
Racine .....	2.2	2.2	2.3	16.0	16.4	16.7	8.2	8.4	8.3
Wausau .....	3.5	3.6	3.6	8.3	8.7	8.7	6.2	6.4	6.4
<b>Wyoming</b> .....	7.2	7.2	7.3	31.0	31.8	32.1	52.9	48.2	48.6
<b>Puerto Rico</b> .....	35.8	35.9	35.9	120.4	123.0	122.9	288.1	296.0	295.5
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.9	16.1	16.1
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19.1	19.2	19.3
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.1	10.2	10.2	17.0	17.1	17.4
San Juan .....	28.6	28.5	28.5	86.7	89.5	89.4	170.8	176.8	176.0
<b>Virgin Islands</b> .....	1.9	2.0	2.0	9.8	9.9	10.0	12.8	13.2	13.3

<sup>1</sup> Not available.

<sup>2</sup> Combined with construction.

<sup>P</sup> = preliminary.

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1988 benchmarks.



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, 1964 to date**

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.52	530.85	37.8	12.69	479.68
1988 .....	34.8	9.29	323.29	42.3	12.69	536.79	37.9	12.97	491.56
Monthly data, not seasonally adjusted									
<b>1988:</b>									
April .....	34.7	\$9.23	\$320.28	42.8	\$12.60	\$539.28	37.9	\$12.88	\$488.15
May .....	34.6	9.26	320.40	42.2	12.54	529.19	38.2	12.87	491.63
June .....	34.9	9.23	322.13	42.5	12.55	533.38	38.7	12.85	497.30
July .....	35.1	9.25	324.68	42.3	12.66	535.52	38.5	12.91	497.04
August .....	35.0	9.24	323.40	42.0	12.62	530.04	38.6	12.95	499.87
September .....	34.8	9.40	327.12	42.2	12.75	538.05	38.4	13.13	504.19
October .....	34.9	9.45	329.81	42.7	12.72	543.14	39.0	13.13	512.07
November .....	34.7	9.46	328.26	41.9	12.83	537.58	37.7	13.04	491.61
December .....	34.9	9.46	330.15	42.7	12.97	553.82	37.2	13.16	489.55
<b>1989:</b>									
January .....	34.5	9.54	329.13	42.1	13.14	553.19	36.4	13.22	481.21
February .....	34.3	9.54	327.22	41.7	13.16	548.77	36.1	13.17	475.44
March <sup>2</sup> .....	34.4	9.55	328.52	41.9	13.09	548.47	37.3	13.22	493.11
April <sup>3</sup> .....	34.8	9.60	334.08	43.0	13.05	561.15	37.7	13.29	501.03

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers' 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
<b>Annual averages</b>										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.35	358.11
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.59	365.38
1988 .....	41.1	10.17	9.71	417.99	39.3	12.32	484.18	38.1	9.92	377.95
<b>Monthly data, not seasonally adjusted</b>										
<b>1988:</b>										
April .....	41.0	\$10.12	\$9.68	\$414.92	39.2	\$12.27	\$480.98	38.2	\$9.88	\$377.42
May .....	40.9	10.14	9.70	414.73	39.2	12.28	481.38	38.0	9.87	375.06
June .....	41.2	10.16	9.70	418.59	39.5	12.27	484.67	38.1	9.85	375.29
July .....	40.7	10.16	9.72	413.51	39.8	12.33	490.73	38.3	9.93	380.32
August .....	40.8	10.12	9.66	412.90	39.7	12.35	490.30	38.0	9.88	375.44
September .....	41.3	10.25	9.75	423.33	39.5	12.41	490.20	38.1	10.01	381.38
October .....	41.3	10.24	9.76	422.91	39.5	12.43	490.99	38.2	10.08	385.06
November .....	41.5	10.30	9.82	427.45	39.3	12.46	489.68	38.0	10.05	381.90
December .....	41.6	10.37	9.87	431.39	39.5	12.43	490.99	38.2	10.12	386.58
<b>1989:</b>										
January .....	41.0	10.37	9.91	425.17	39.3	12.47	490.07	37.9	10.21	386.96
February .....	40.8	10.37	9.92	423.10	39.1	12.51	489.14	37.7	10.21	384.92
March <sup>p</sup> .....	40.9	10.39	9.93	424.95	39.3	12.48	490.46	37.8	10.19	385.18
April <sup>p</sup> .....	41.0	10.40	9.95	426.40	39.5	12.56	496.12	38.1	10.32	393.19

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, 1964 to date—Continued**

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
1987 .....	29.2	6.11	178.41	36.3	8.73	316.90	32.5	8.48	275.60
1988 .....	29.1	6.31	183.62	35.9	9.10	326.69	32.6	8.90	290.14
Monthly data, not seasonally adjusted									
<b>1988:</b>									
April .....	28.9	\$6.26	\$180.91	36.2	\$9.03	\$326.89	32.6	\$8.82	\$287.53
May .....	28.9	6.28	181.49	35.8	9.09	325.42	32.4	8.84	286.42
June .....	29.4	6.26	184.04	35.8	8.98	321.48	32.7	8.78	287.11
July .....	30.0	6.28	188.40	36.2	9.03	326.89	33.0	8.79	290.07
August .....	29.8	6.26	186.55	35.7	9.04	322.73	32.8	8.79	288.31
September .....	29.0	6.37	184.73	35.8	9.14	327.21	32.5	8.98	291.85
October .....	29.1	6.38	185.66	36.0	9.29	334.44	32.7	9.07	296.59
November .....	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.10	295.75
December .....	29.6	6.42	190.03	35.8	9.32	333.66	32.5	9.15	297.38
<b>1989:</b>									
January .....	28.4	6.47	183.75	36.1	9.46	341.51	32.6	9.24	301.22
February .....	28.3	6.46	182.82	35.8	9.47	339.03	32.4	9.26	300.02
March <sup>o</sup> .....	28.5	6.46	184.11	35.8	9.43	337.59	32.4	9.26	300.02
April <sup>p</sup> .....	28.9	6.48	187.27	36.4	9.55	347.62	32.8	9.30	305.04

<sup>1</sup> 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.

<sup>o</sup> = preliminary.  
NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1987 forward are subject to revision.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>
<b>Total private</b> .....		34.4	34.7	34.3	34.4	34.8					
<b>Mining</b> .....		41.9	42.8	41.7	41.9	43.0					
Metal mining .....	10	42.8	42.7	42.6	42.5						
Iron ores .....	101	41.5	39.8	43.9	42.7						
Copper ores .....	102	44.6	45.1	44.6	45.1						
Coal mining .....	11,12	42.1	42.2	42.7	42.3						
Bituminous coal and lignite mining .....	12	42.1	42.2	42.8	42.3						
Oil and gas extraction .....	13	41.0	42.2	40.8	41.1						
Crude petroleum, natural gas, and natural gas liquids .....	131,2	40.4	41.8	41.7	41.3						
Oil and gas field services .....	138	41.4	42.4	40.3	40.9						
Nonmetallic minerals, except fuels .....	14	44.3	45.7	42.6	43.8						
Crushed and broken stone .....	142	45.4	47.2	43.2	43.9						
<b>Construction</b> .....		37.4	37.9	36.1	37.3	37.7					
General building contractors .....	15	37.2	37.4	36.3	37.0						
Residential building construction .....	152	36.3	36.5	35.3	35.9						
Operative builders .....	153	38.4	38.1	37.3	38.3						
Nonresidential building construction .....	154	38.0	38.3	37.5	38.3						
Heavy construction contractors .....	16	40.9	41.7	38.4	41.0						
Highway and street construction .....	161	40.3	41.9	37.0	40.2						
Heavy construction, except highway .....	162	41.1	41.6	38.9	41.4						
Special trade contractors .....	17	36.6	37.1	35.5	36.6						
Plumbing, heating, and air conditioning .....	171	38.0	38.3	37.8	38.2						
Painting, paper hanging, and decorating .....	172	35.2	35.8	34.7	35.4						
Electrical work .....	173	38.6	38.6	38.0	38.9						
Masonry, stonework, and plastering .....	174	34.9	35.3	33.2	34.7						
Carpentering and flooring .....	175	35.3	35.5	34.3	34.7						
Roofing and sheet metal work .....	176	33.3	34.2	30.0	32.2						
<b>Manufacturing</b> .....		40.9	41.0	40.8	40.9	41.0	3.6	3.7	3.8	3.8	3.7
<b>Durable goods</b> .....		41.6	41.7	41.5	41.7	41.7	3.8	4.0	4.0	4.0	3.9
Lumber and wood products .....	24	39.9	40.6	39.0	39.8	40.3	3.3	3.5	3.2	3.4	
Logging camps and logging contractors .....	241	39.7	40.6	37.7	39.7	-	3.8	4.2	4.1	4.6	
Sawmills and planing mills .....	242	41.3	41.8	40.2	41.1		4.1	4.3	3.8	4.0	
Sawmills and planing mills, general .....	2421	41.6	42.2	40.3	41.4		4.4	4.7	4.0	4.2	
Hardwood dimension and flooring .....	2426	40.1	40.0	40.1	40.0		3.0	3.0	3.0	3.1	
Millwork, plywood, and structural members .....	243	39.4	40.3	39.0	39.9		2.9	3.2	2.9	3.2	
Millwork .....	2431	39.2	40.5	38.8	39.2		2.1	2.7	2.2	2.1	
Wood kitchen cabinets .....	2434	38.2	39.2	37.4	39.5		2.2	2.7	2.3	3.4	
Hardwood veneer and plywood .....	2435	40.7	41.0	40.4	40.5		3.7	3.5	4.0	3.7	
Softwood veneer and plywood .....	2436	41.2	43.0	42.1	42.8		4.8	4.9	5.0	5.2	
Wood containers .....	244	38.4	39.3	38.4	38.6		3.0	3.2	3.4	3.3	
Wood buildings and mobile homes .....	245	37.9	39.0	36.6	36.3		1.9	2.3	1.7	1.9	
Mobile homes .....	2451	37.3	38.8	36.0	36.5		1.6	2.2	1.6	2.0	
Miscellaneous wood products .....	249	40.6	40.3	39.3	39.6		3.1	3.0	2.9	3.1	
Furniture and fixtures .....	25	39.0	39.1	39.1	39.6	39.4	2.4	2.5	2.5	2.6	
Household furniture .....	251	38.9	38.7	38.7	39.6	-	2.3	2.3	2.3	2.7	
Wood household furniture .....	2511	39.3	39.2	39.1	40.0		2.5	2.5	2.3	2.8	
Upholstered household furniture .....	2512	37.5	37.1	37.9	39.0		1.5	1.5	1.9	2.2	
Metal household furniture .....	2514	42.1	41.5	40.3	40.3		4.0	3.7	3.1	3.5	
Mattresses and bedspings .....	2515	38.9	39.6	39.0	39.8		2.8	3.2	2.9	3.2	
Office furniture .....	252	39.7	40.0	39.4	39.5	-	2.1	2.5	2.6	2.5	
Public building and related furniture .....	253	39.8	40.4	39.5	38.7		3.6	3.8	3.2	2.9	
Partitions and fixtures .....	254	39.4	40.3	40.6	40.7		2.8	3.0	3.4	3.0	
Miscellaneous furniture and fixtures .....	259	37.6	37.9	38.9	38.6		1.8	1.8	1.8	1.7	
Stone, clay, and glass products .....	32	42.0	42.5	41.1	42.0	42.8	4.8	5.1	4.4	4.8	
Flat glass .....	321	45.1	45.7	42.7	44.9	-	6.8	7.4	6.7	6.8	
Glass and glassware, pressed or blown .....	322	41.5	41.8	42.0	41.8		4.5	4.7	4.4	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<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	43.5	43.6	42.2	42.4	-	4.3	4.4	4.2	4.3	-
Construction machinery .....	3531	44.9	44.5	42.3	42.8	-	4.0	4.2	4.4	4.5	-
Mining machinery .....	3532	43.2	42.7	42.5	42.0	-	5.0	4.8	4.5	4.4	-
Oil field machinery .....	3533	43.6	44.6	41.0	42.9	-	5.9	6.3	4.3	4.6	-
Conveyors and conveying equipment .....	3535	42.7	42.8	43.0	43.2	-	4.5	4.4	4.9	5.4	-
Industrial trucks and tractors .....	3537	41.1	41.1	41.4	40.9	-	3.1	3.1	3.3	2.7	-
Metalworking machinery .....	354	43.4	43.2	43.8	43.8	-	5.3	5.0	5.9	5.7	-
Machine tools, metal cutting types .....	3541	42.9	42.5	44.8	44.9	-	4.6	4.0	5.8	5.6	-
Machine tools, metal forming types .....	3542	44.6	44.5	44.3	44.1	-	6.1	5.8	6.2	6.2	-
Special dies, tools, jigs, and fixtures .....	3544	44.0	43.7	44.1	44.1	-	6.0	5.8	6.4	6.2	-
Machine tool accessories .....	3545	42.1	42.2	42.4	42.5	-	4.6	4.3	5.1	4.8	-
Power driven hand tools .....	3546	42.7	42.5	43.7	43.3	-	3.3	3.5	4.5	4.5	-
Special industry machinery .....	355	42.2	42.2	42.2	42.3	-	4.5	4.5	4.6	4.7	-
Food products machinery .....	3551	42.2	42.6	41.9	42.2	-	3.9	4.1	4.1	4.3	-
Textile machinery .....	3552	42.7	42.5	42.3	42.5	-	4.1	3.9	4.0	3.9	-
Printing trades machinery .....	3555	40.6	39.4	39.4	39.5	-	5.1	4.8	4.6	4.6	-
General industrial machinery .....	356	42.9	43.0	42.9	43.0	-	4.3	4.6	4.7	4.7	-
Pumps and pumping equipment .....	3561	43.7	44.0	43.1	42.9	-	4.4	4.5	4.5	4.3	-
Ball and roller bearings .....	3562	44.2	44.2	44.2	44.5	-	5.4	6.1	6.2	6.2	-
Air and gas compressors .....	3563	43.1	42.4	43.2	43.2	-	5.2	5.3	4.5	4.3	-
Blowers and fans .....	3564	40.6	40.9	40.6	41.0	-	2.1	2.5	2.8	2.6	-
Speed changers, drives, and gears .....	3566	44.5	44.4	43.4	43.6	-	5.5	5.7	5.3	5.3	-
Power transmission equipment, nec .....	3568	42.2	41.7	42.8	42.6	-	5.0	4.7	5.0	4.7	-
Office and computing machines .....	357	41.6	41.1	41.3	41.8	-	3.2	3.0	2.8	3.2	-
Electronic computing equipment .....	3573	42.2	41.6	41.4	41.9	-	3.2	2.9	2.8	3.3	-
Refrigeration and service machinery .....	358	41.7	41.8	41.5	41.6	-	3.5	3.5	3.3	3.5	-
Refrigeration and heating equipment .....	3585	42.0	42.4	41.9	42.1	-	3.7	3.8	3.6	3.8	-
Misc. machinery, except electrical .....	359	42.0	42.0	41.9	42.0	-	4.5	4.4	4.7	4.7	-
Carburetors, pistons, rings, and valves .....	3592	42.7	43.1	43.4	42.8	-	4.8	5.3	5.3	5.1	-
Machinery, except electrical, nec .....	3599	41.9	41.8	41.7	41.9	-	4.5	4.3	4.7	4.7	-
Electrical and electronic equipment .....	36	40.9	40.8	40.6	40.5	40.8	3.0	3.0	3.0	3.0	-
Electric distributing equipment .....	361	42.4	42.3	41.8	42.0	-	3.6	3.4	3.1	3.2	-
Transformers .....	3612	42.3	42.2	42.0	42.2	-	3.6	3.5	3.2	3.3	-
Switchgear and switchboard apparatus .....	3613	42.6	42.4	41.7	41.8	-	3.5	3.3	3.1	3.0	-
Electrical industrial apparatus .....	362	42.3	41.9	42.2	41.8	-	4.0	3.7	3.5	3.5	-
Motors and generators .....	3621	42.1	42.1	42.4	41.6	-	4.2	4.1	3.9	3.9	-
Industrial controls .....	3622	41.9	40.9	41.1	40.8	-	3.2	2.4	2.4	2.3	-
Household appliances .....	363	39.6	39.4	39.9	38.5	-	2.3	2.3	2.8	2.6	-
Household refrigerators and freezers .....	3632	40.2	39.7	39.9	39.2	-	3.5	3.0	2.8	3.8	-
Household laundry equipment .....	3633	40.0	39.9	42.8	39.5	-	1.5	1.7	3.5	1.9	-
Electric housewares and fans .....	3634	40.4	39.6	39.9	39.1	-	2.8	2.6	2.8	2.5	-
Electric lighting and wiring equipment .....	364	40.3	40.2	40.1	39.9	-	3.0	3.0	3.0	2.6	-
Electric lamps .....	3641	40.5	40.4	42.0	41.4	-	3.4	3.1	3.4	3.4	-
Current-carrying wiring devices .....	3643	39.9	40.2	39.1	39.3	-	2.8	3.0	2.4	2.3	-
Noncurrent-carrying wiring devices .....	3644	42.1	40.4	40.7	40.4	-	3.5	2.4	3.8	3.2	-
Residential lighting fixtures .....	3645	38.3	38.3	39.0	38.5	-	1.7	1.7	2.1	1.8	-
Radio and TV receiving equipment .....	365	39.8	40.3	40.8	41.3	-	2.2	3.0	3.2	3.5	-
Radio and TV receiving sets .....	3651	39.6	39.9	40.4	41.0	-	1.6	2.4	2.8	3.2	-
Communication equipment .....	366	41.1	40.9	40.6	40.8	-	2.6	2.5	2.4	2.5	-
Telephone and telegraph apparatus .....	3661	43.0	42.8	41.1	41.7	-	3.3	3.3	2.8	3.3	-
Radio and TV communication equipment .....	3662	40.4	40.2	40.5	40.4	-	2.4	2.2	2.3	2.2	-
Electronic components and accessories .....	367	40.6	40.4	39.9	40.0	-	3.2	3.1	3.1	3.1	-
Electronic tubes .....	3671-3	42.1	42.8	41.4	41.0	-	2.4	2.7	4.3	4.1	-
Semiconductors and related devices .....	3674	40.2	40.1	39.3	39.5	-	3.4	3.4	3.5	3.6	-
Electronic components, nec .....	3679	40.9	40.4	40.2	40.5	-	3.3	3.1	3.0	3.1	-
Misc. electrical equipment and supplies .....	369	41.6	41.8	41.7	41.7	-	3.3	3.7	3.5	3.5	-
Storage batteries .....	3691	41.5	40.8	41.3	40.1	-	2.7	2.6	2.6	2.0	-
Engine electrical equipment .....	3694	41.9	42.7	41.9	42.5	-	3.8	4.8	4.4	4.8	-

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>b</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>b</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	\$11.06	\$11.05	\$11.21	\$11.28		\$481.11	\$481.78	\$473.06	\$478.27	
Construction machinery .....	3531	12.28	12.29	12.60	12.69		551.37	546.91	532.98	543.13	
Mining machinery .....	3532	11.53	11.42	11.28	11.34		498.10	487.63	479.40	476.28	
Oil field machinery .....	3533	10.73	10.76	10.72	10.77		467.83	479.90	439.52	462.03	
Conveyors and conveying equipment .....	3535	9.77	9.82	10.20	10.38		417.18	420.30	436.60	448.42	
Industrial trucks and tractors .....	3537	9.72	9.79	9.86	9.77		399.49	402.37	408.20	399.59	
Metalworking machinery .....	354	11.30	11.32	11.70	11.68		490.42	489.02	512.46	511.58	
Machine tools, metal cutting types .....	3541	11.27	11.17	11.53	11.59		483.48	474.73	516.54	520.39	
Machine tools, metal forming types .....	3542	11.71	11.78	12.06	12.10		522.27	524.21	534.26	533.61	
Special dies, tools, jigs, and fixtures .....	3544	12.04	12.12	12.52	12.49		529.76	529.64	552.13	550.81	
Machine tool accessories .....	3545	10.12	10.10	10.52	10.51		426.05	426.22	446.05	446.68	
Power driven hand tools .....	3546	8.84	8.87	9.29	9.34		377.47	376.98	405.97	404.42	
Special industry machinery .....	355	10.96	11.00	11.38	11.40		462.51	464.20	480.24	482.22	
Food products machinery .....	3551	10.97	10.98	11.35	11.36		462.93	467.75	475.57	479.39	
Textile machinery .....	3552	9.11	9.15	9.52	9.57		389.00	388.88	402.70	406.73	
Printing trades machinery .....	3555	11.86	11.97	12.39	12.46		481.52	471.62	488.17	492.17	
General industrial machinery .....	356	10.46	10.57	10.76	10.80		448.73	454.51	461.60	464.40	
Pumps and pumping equipment .....	3561	11.04	11.18	11.35	11.35		482.45	491.92	489.19	486.92	
Ball and roller bearings .....	3562	10.93	11.11	11.24	11.32		483.11	491.06	496.81	503.74	
Air and gas compressors .....	3563	10.45	10.50	10.41	10.56		450.40	445.20	449.71	456.19	
Blowers and fans .....	3564	9.27	9.28	9.59	9.52		376.36	379.55	389.35	390.32	
Speed changers, drives, and gears .....	3566	10.40	10.53	10.79	11.02		462.80	467.53	468.29	480.47	
Power transmission equipment, nec .....	3568	10.60	10.59	10.44	10.34		447.32	441.60	446.83	440.48	
Office and computing machines .....	357	10.46	10.59	10.99	10.98		435.14	435.25	453.89	458.96	
Electronic computing equipment .....	3573	10.45	10.59	10.96	10.95		440.99	440.54	453.74	458.81	
Refrigeration and service machinery .....	358	10.54	10.57	10.64	10.71		439.52	441.83	441.56	445.54	
Refrigeration and heating equipment .....	3585	10.75	10.77	10.76	10.86		451.50	456.65	450.84	457.21	
Misc. machinery, except electrical .....	359	10.57	10.55	10.91	10.92		443.94	443.10	457.13	458.64	
Carburetors, pistons, rings, and valves .....	3592	12.95	12.98	13.26	13.26		552.97	559.44	575.48	567.53	
Machinery, except electrical, nec .....	3599	10.25	10.23	10.60	10.62		429.48	427.61	442.02	444.98	
Electrical and electronic equipment .....	36	10.04	10.09	10.25	10.29	\$10.29	410.64	411.67	416.15	416.75	\$419.83
Electric distributing equipment .....	361	9.39	9.39	9.40	9.41	-	398.14	397.20	392.92	395.22	
Transformers .....	3612	9.19	9.18	9.22	9.22		388.74	387.40	387.24	389.08	
Switchgear and switchboard apparatus .....	3613	9.56	9.56	9.56	9.57		407.26	405.34	398.65	400.03	
Electrical industrial apparatus .....	362	9.99	10.03	10.02	10.09		422.58	420.26	422.84	419.74	
Motors and generators .....	3621	9.99	10.03	10.01	10.10		420.58	422.26	424.42	420.16	
Industrial controls .....	3622	9.86	9.86	9.86	9.84		413.13	403.27	405.25	401.47	
Household appliances .....	363	10.05	10.05	10.23	10.20		397.98	395.97	408.18	392.70	
Household refrigerators and freezers .....	3632	11.69	11.54	11.76	11.95		469.94	458.14	469.22	468.44	
Household laundry equipment .....	3633	11.72	11.85	12.10	12.00		468.80	472.82	517.88	474.00	
Electric housewares and fans .....	3634	7.37	7.32	7.40	7.41		297.75	289.87	295.26	289.73	
Electric lighting and wiring equipment .....	364	9.37	9.46	9.71	9.70		377.61	380.29	389.37	387.03	
Electric lamps .....	3641	10.66	10.73	10.91	10.86		431.73	433.49	458.22	449.60	
Current-carrying wiring devices .....	3643	8.96	9.05	9.59	9.58		357.50	363.81	374.97	376.49	
Noncurrent-carrying wiring devices .....	3644	9.32	9.35	9.34	9.36		392.37	377.74	380.14	378.14	
Residential lighting fixtures .....	3645	6.87	6.91	7.09	7.07		263.12	264.65	276.51	272.20	
Radio and TV receiving equipment .....	365	9.31	9.56	9.73	9.71		370.54	385.27	396.98	401.02	
Radio and TV receiving sets .....	3651	9.73	9.97	10.21	10.24		385.31	397.80	412.48	419.84	
Communication equipment .....	366	11.94	12.03	12.18	12.27		490.73	492.03	494.51	500.62	
Telephone and telegraph apparatus .....	3661	11.44	11.51	11.75	11.71		491.92	492.63	482.93	488.31	
Radio and TV communication equipment .....	3662	12.14	12.24	12.35	12.49		490.46	492.05	500.18	504.60	
Electronic components and accessories .....	367	9.04	9.07	9.35	9.40		367.02	366.43	373.07	376.00	
Electronic tubes .....	3671-3	11.36	11.26	11.85	12.01		478.26	481.93	490.59	492.41	
Semiconductors and related devices .....	3674	11.00	11.04	11.46	11.57		442.20	442.70	450.38	457.02	
Electronic components, nec .....	3679	8.13	8.14	8.34	8.37		332.52	328.86	335.27	338.99	
Misc. electrical equipment and supplies .....	369	10.73	10.76	11.03	11.10		446.37	449.77	459.95	462.87	
Storage batteries .....	3691	11.30	11.11	11.60	11.42		468.95	453.29	479.08	457.94	
Engine electrical equipment .....	3694	11.40	11.57	11.86	12.10		477.66	494.04	496.93	514.25	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>b</sup>	Apr. 1989 <sup>b</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>b</sup>	Apr. 1989 <sup>b</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	42.5	42.9	43.0	43.3	43.2	4.3	4.8	4.9	5.2	-
Motor vehicles and equipment .....	371	43.0	44.1	43.8	44.2	44.0	4.6	5.7	5.3	5.6	-
Motor vehicles and car bodies .....	3711	42.9	44.2	43.7	44.9	-	4.4	5.7	5.1	6.0	-
Truck and bus bodies .....	3713	43.4	42.8	44.3	43.6	-	4.5	4.2	4.9	4.4	-
Motor vehicle parts and accessories .....	3714	43.4	44.6	44.4	44.3	-	5.0	6.2	6.0	5.9	-
Truck trailers .....	3715	40.2	40.2	40.3	40.7	-	2.4	2.4	2.9	2.7	-
Aircraft and parts .....	372	42.5	41.7	43.0	43.0	-	4.6	4.2	5.3	5.4	-
Aircraft .....	3721	42.0	41.3	42.6	42.8	-	4.2	3.7	5.2	5.2	-
Aircraft engines and engine parts .....	3724	42.1	41.2	43.1	42.7	-	4.2	3.8	5.4	5.6	-
Aircraft equipment, nec .....	3728	43.6	42.7	43.4	43.6	-	5.5	5.1	5.5	5.6	-
Ship and boat building and repairing .....	373	40.7	40.8	40.0	40.8	-	2.9	3.1	2.8	3.4	-
Ship building and repairing .....	3731	41.1	41.1	40.6	41.6	-	3.1	3.0	3.0	3.7	-
Boat building and repairing .....	3732	40.1	40.2	39.1	39.5	-	2.6	3.1	2.6	3.1	-
Railroad equipment .....	374	42.9	42.7	43.1	42.6	-	3.9	4.0	4.2	4.0	-
Guided missiles, space vehicles, and parts .....	376	43.0	42.5	43.2	42.8	-	4.0	4.2	4.5	4.2	-
Guided missiles and space vehicles .....	3761	43.1	42.4	43.0	42.9	-	4.2	4.2	4.4	4.1	-
Miscellaneous transportation equipment .....	379	39.9	40.9	40.3	39.7	-	2.7	3.7	2.8	3.0	-
Travel trailers and campers .....	3792	37.8	39.8	39.0	37.7	-	1.3	3.0	1.9	2.0	-
<b>Instruments and related products</b>											
Engineering and scientific instruments .....	381	41.6	41.5	41.5	41.1	41.1	3.2	3.0	2.9	2.9	-
Measuring and controlling devices .....	382	41.8	41.9	42.0	42.0	-	3.1	2.9	2.8	2.8	-
Environmental controls .....	3822	41.7	41.2	41.6	41.2	-	3.1	2.6	2.8	2.8	-
Process control instruments .....	3823	40.0	39.1	40.2	40.3	-	3.1	2.3	2.5	2.3	-
Instruments to measure electricity .....	3825	44.1	42.8	43.8	44.0	-	4.3	3.4	3.9	3.9	-
Optical instruments and lenses .....	383	41.4	40.9	41.4	40.3	-	2.9	2.3	2.2	2.4	-
Medical instruments and supplies .....	3833	43.4	42.8	42.6	43.0	-	3.6	3.1	2.7	2.7	-
Surgical and medical instruments .....	384	41.0	41.3	40.8	40.0	-	3.1	3.0	2.9	2.9	-
Surgical appliances and supplies .....	3841	40.9	41.8	41.0	39.9	-	2.9	2.9	2.9	3.1	-
Surgical appliances and supplies .....	3842	41.1	40.8	40.3	39.7	-	3.3	3.0	2.7	2.6	-
Ophthalmic goods .....	385	40.2	39.8	40.6	40.3	-	2.9	3.0	3.2	2.8	-
Photographic equipment and supplies .....	386	43.0	43.3	43.3	42.9	-	3.8	4.3	3.7	3.3	-
Watches, clocks, and watchcases .....	387	39.1	38.9	39.3	39.3	-	1.5	1.3	1.0	1.0	-
<b>Miscellaneous manufacturing</b>											
Jewelry, silverware, and plated ware .....	39	39.2	39.1	39.1	39.3	39.5	2.3	2.3	2.3	2.4	-
Jewelry, silverware, and plated ware .....	391	37.6	38.2	37.3	37.8	-	1.7	2.0	1.4	1.9	-
Jewelry, precious metal .....	3911	36.7	37.2	36.7	37.3	-	1.2	1.6	1.1	1.8	-
Musical instruments .....	393	41.3	41.6	39.4	39.5	-	2.8	3.0	2.0	2.1	-
Toys and sporting goods .....	394	39.3	38.9	39.4	39.3	-	2.3	2.3	2.3	2.5	-
Dolls, games, toys, and children's vehicles .....	3942,4	38.5	37.9	37.8	37.6	-	1.6	1.4	1.4	1.5	-
Sporting and athletic goods, nec .....	3949	39.9	39.7	40.6	40.5	-	2.8	3.0	3.0	3.2	-
Pens, pencils, office, and art supplies .....	395	40.8	39.9	39.9	40.6	-	2.6	2.3	2.5	2.9	-
Costume jewelry and notions .....	396	37.9	38.1	38.1	38.3	-	1.5	1.6	2.0	2.0	-
Costume jewelry .....	3961	36.3	37.0	36.9	36.5	-	.6	.9	1.7	1.8	-
Miscellaneous manufactures .....	399	39.5	39.5	39.8	39.8	-	2.8	2.5	2.7	2.6	-
Signs and advertising displays .....	3993	39.0	39.8	39.4	39.7	-	2.5	2.7	2.7	2.7	-
<b>Nondurable goods</b>											
Food and kindred products .....	20	40.0	39.9	39.8	39.9	39.9	3.4	3.4	3.5	3.6	3.5
Meat products .....	201	39.6	39.5	39.6	39.9	39.9	3.5	3.6	3.7	3.8	-
Meat packing plants .....	2011	38.7	38.9	39.0	39.2	-	3.2	3.3	3.4	3.5	-
Sausages and other prepared meats .....	2013	40.2	40.4	40.0	39.9	-	4.1	3.9	4.3	4.0	-
Poultry dressing plants .....	2016	39.3	39.7	39.6	40.9	-	3.4	3.9	4.0	4.4	-
Dairy products .....	202	37.2	37.4	37.9	38.0	-	2.4	2.5	2.4	2.7	-
Cheese, natural and processed .....	2022	41.0	40.7	40.6	40.9	-	4.0	3.9	3.9	4.1	-
Fluid milk .....	2026	39.6	38.7	38.7	39.6	-	3.5	3.2	3.3	3.7	-
Preserved fruits and vegetables .....	203	41.6	41.7	41.9	41.6	-	4.4	4.2	4.6	4.4	-
Canned specialties .....	2032	38.7	38.8	39.0	39.9	-	2.8	3.2	3.3	3.8	-
Canned fruits and vegetables .....	2033	37.5	39.0	41.6	42.0	-	3.0	4.5	4.8	5.3	-
Frozen fruits and vegetables .....	2037	38.8	38.8	38.7	38.4	-	2.7	3.4	2.8	3.1	-
Grain mill products .....	204	37.9	38.0	37.9	39.3	-	2.2	3.0	2.8	3.1	-
Flour and other grain mill products .....	2041	43.3	43.3	43.4	43.8	-	5.1	5.4	5.9	5.9	-
Prepared feeds, nec .....	2048	43.4	44.8	43.7	44.4	-	4.6	5.3	5.4	5.4	-
Bakery products .....	205	42.9	42.6	42.8	43.0	-	5.1	5.1	6.0	6.1	-
Bread, cake, and related products .....	2051	39.4	39.6	38.7	38.8	-	3.5	3.6	3.3	3.4	-
Cookies and crackers .....	2052	38.5	38.9	38.0	38.0	-	3.6	3.9	3.4	3.5	-
Bread, cake, and related products .....	2051	41.7	41.4	40.5	41.0	-	3.1	2.7	3.2	3.2	-

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<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	40.0	38.5	39.8	40.1		3.1	2.3	3.5	3.3	
Cane and beet sugar .....	2061-3	42.8	39.5	44.1	43.7		5.6	3.4	6.7	6.4	
Confectionery products .....	2065	38.5	37.3	38.0	38.6		2.2	1.9	2.6	2.5	
Fats and oils .....	207	42.6	42.7	43.3	43.5		4.8	4.9	5.0	5.2	
Beverages .....	208	40.1	41.0	40.5	41.0		3.5	4.3	3.2	3.6	
Malt beverages .....	2082	42.4	43.5	43.4	44.2		5.5	6.8	5.8	6.2	
Bottled and canned soft drinks .....	2086	39.5	40.8	38.9	39.3		2.8	3.7	2.3	2.7	
Misc. food and kindred products .....	209	38.3	37.4	37.8	37.8		3.3	3.2	3.4	3.4	
Tobacco manufactures .....	21	39.3	38.5	37.8	36.3	39.1	2.2	2.2	1.7	1.6	
Cigarettes .....	211	39.6	38.8	37.9	36.4	-	2.5	2.5	1.8	1.6	
Textile mill products .....	22	41.0	41.0	40.5	41.0	41.0	3.8	3.8	3.9	4.0	
Weaving mills, cotton .....	221	41.4	41.6	41.1	41.2	-	4.6	4.7	4.3	4.3	
Weaving mills, synthetics .....	222	41.7	41.4	41.1	40.8		4.3	4.1	4.0	3.9	
Weaving and finishing mills, wool .....	223	42.2	42.4	41.2	41.3		3.0	3.2	3.7	3.5	
Narrow fabric mills .....	224	41.1	41.3	41.3	42.4		3.3	3.3	3.5	4.1	
Knitting mills .....	225	39.5	39.4	38.9	39.9		2.9	2.9	3.3	3.6	
Women's hosiery, except socks .....	2251	39.0	38.3	38.1	39.1		2.7	2.6	2.9	3.0	
Hosiery, nec .....	2252	39.9	38.8	38.5	39.1		2.9	2.3	2.7	3.0	
Knit outerwear mills .....	2253	38.5	38.8	37.4	39.4		2.5	2.4	2.9	3.5	
Knit underwear mills .....	2254	38.5	37.4	39.6	39.3		1.6	1.9	3.0	2.3	
Circular knit fabric mills .....	2257	40.8	41.9	41.1	41.5		4.2	4.9	4.7	4.6	
Textile finishing, except wool .....	226	41.6	42.1	41.9	42.7		4.4	4.5	4.7	5.0	
Finishing plants, cotton .....	2261	42.7	42.9	42.1	42.7		4.9	4.7	4.2	4.4	
Finishing plants, synthetics .....	2262	41.7	42.3	41.1	42.5		4.3	4.8	4.6	5.1	
Floor covering mills .....	227	42.8	42.4	40.7	41.3		3.5	3.7	3.8	4.0	
Yarn and thread mills .....	228	40.9	40.8	40.3	41.0		4.2	4.3	3.8	4.1	
Yarn mills, except wool .....	2281	41.2	41.4	40.5	41.2		4.3	4.5	4.0	4.4	
Throwing and winding mills .....	2282	39.0	38.2	38.6	38.9		3.2	2.7	2.7	2.3	
Miscellaneous textile goods .....	229	42.9	42.8	42.2	42.1		4.4	4.6	4.3	4.0	
Apparel and other textile products .....	23	37.0	36.8	36.8	36.9	36.9	1.7	1.7	1.8	1.9	
Men's and boys' suits and coats .....	231	37.1	36.7	36.3	36.1	-	1.4	1.3	1.2	1.0	
Men's and boys' furnishings .....	232	36.8	36.6	36.5	36.9		1.5	1.4	1.5	1.7	
Men's and boys' shirts and nightwear .....	2321	37.0	37.0	36.9	36.6		1.3	1.3	1.3	1.4	
Men's and boys' separate trousers .....	2327	36.7	36.4	36.4	36.2		1.6	1.4	1.5	1.3	
Men's and boys' work clothing .....	2328	36.2	35.8	35.7	36.4		1.5	1.4	1.5	1.9	
Women's and misses' outerwear .....	233	36.1	35.9	35.7	35.8		1.8	1.6	1.6	1.7	
Women's and misses' blouses and waists .....	2331	35.7	35.1	36.0	36.1		1.5	1.1	1.3	1.5	
Women's and misses' dresses .....	2335	36.1	36.0	35.6	35.4		1.9	1.7	1.6	1.7	
Women's and misses' suits and coats .....	2337	35.6	35.6	35.4	35.7		1.5	1.5	1.6	2.0	
Women's and misses' outerwear, nec .....	2339	36.3	36.0	35.8	36.0		2.0	1.6	1.7	1.7	
Women's and children's undergarments .....	234	37.5	37.3	37.8	37.5		1.5	1.4	1.8	1.9	
Women's and children's underwear .....	2341	37.7	37.3	38.1	37.8		1.4	1.2	1.9	1.9	
Brassieres and allied garments .....	2342	36.3	37.3	35.8	36.0		2.2	2.6	1.6	1.9	
Children's outerwear .....	236	36.5	35.7	36.6	35.8		1.6	1.1	2.1	1.8	
Children's dresses and blouses .....	2361	34.8	34.9	35.8	34.2		1.3	1.1	1.8	1.6	
Misc. apparel and accessories .....	238	38.3	38.1	37.4	38.2		2.2	2.0	2.3	2.5	
Misc. fabricated textile products .....	239	38.5	38.7	39.0	38.8		2.2	2.5	2.8	2.9	
Curtains and draperies .....	2391	35.6	35.7	37.1	38.0		1.0	1.1	1.5	2.1	
House furnishings, nec .....	2392	38.2	37.6	38.2	37.9		2.1	1.8	2.2	2.3	
Automotive and apparel trimmings .....	2396	40.9	41.8	42.7	42.7		4.4	5.3	5.8	5.8	
Paper and allied products .....	26	42.9	43.0	42.9	43.0	43.0	4.7	4.9	4.9	4.9	
Paper and pulp mills .....	261,2,6	45.2	45.0	45.4	45.2	-	6.3	6.4	6.5	6.5	
Paper mills, except building paper .....	262	45.4	45.2	45.5	45.4		6.4	6.5	6.6	6.7	
Paperboard mills .....	263	43.5	44.7	44.3	44.6		6.4	7.4	6.7	6.5	
Misc. converted paper products .....	264	41.7	41.5	41.4	41.5		3.7	3.7	3.7	3.7	
Paper coating and glazing .....	2641	43.2	43.1	43.9	43.9		3.8	3.9	4.1	4.1	
Envelopes .....	2642	41.0	40.5	41.0	41.3		3.2	3.0	3.1	2.8	
Bags, except textile bags .....	2643	41.4	41.5	40.9	41.0		4.0	4.1	3.8	4.0	
Paperboard containers and boxes .....	265	41.9	42.3	42.1	42.1		4.0	4.4	4.3	4.3	
Folding paperboard boxes .....	2651	41.6	41.7	42.4	42.5		3.9	4.0	4.6	4.6	
Corrugated and solid fiber boxes .....	2653	42.6	43.1	42.7	42.8		4.4	4.8	4.6	4.7	
Sanitary food containers .....	2654	41.9	42.5	39.9	39.8		3.5	4.6	3.6	3.4	

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	38.2	38.0	37.7	37.9	37.7	3.2	3.0	2.9	3.1	
Newspapers .....	271	33.4	33.3	32.7	33.0	-	1.4	1.3	1.1	1.3	
Periodicals .....	272	37.9	38.0	37.7	37.3		3.1	3.0	2.7	2.6	
Books .....	273	39.9	39.8	39.8	40.0		3.8	3.9	3.5	3.7	
Book publishing .....	2731	38.7	38.7	38.9	39.1		3.3	3.2	3.1	3.2	
Book printing .....	2732	42.0	41.7	41.1	41.5		4.5	5.1	4.1	4.4	
Miscellaneous publishing .....	274	36.7	36.6	36.5	36.8		2.3	2.5	1.7	2.2	
Commercial printing .....	275	39.6	39.4	39.3	39.5		3.8	3.5	3.6	3.8	
Commercial printing, letterpress .....	2751	39.0	39.1	38.7	39.0		3.0	3.0	2.9	3.0	
Commercial printing, lithographic .....	2752	39.7	39.4	39.3	39.4		4.1	3.7	3.8	4.0	
Manifold business forms .....	276	41.7	41.1	40.5	40.9		3.9	3.5	3.2	3.4	
Blankbooks and bookbinding .....	278	39.2	39.3	38.0	38.5		2.9	2.8	2.6	3.0	
Printing trade services .....	279	38.9	38.1	38.5	38.7		4.4	3.5	4.0	4.3	
Chemicals and allied products .....	28	42.5	42.1	42.4	42.3	42.4	4.1	4.1	4.2	4.2	
Industrial inorganic chemicals .....	281	43.0	42.9	42.9	42.9	-	4.2	4.3	4.2	4.2	
Industrial inorganic chemicals, nec .....	2819	43.5	43.2	42.9	42.8		4.1	4.2	4.2	4.1	
Plastics materials and synthetics .....	282	43.3	43.1	43.1	43.3		4.5	4.5	5.0	5.0	
Plastics materials and resins .....	2821	43.7	43.6	43.5	43.8		4.7	4.7	5.2	5.3	
Organic fibers, noncellulosic .....	2824	42.8	42.6	43.1	43.1		4.1	4.1	4.7	4.7	
Drugs .....	283	41.4	41.1	41.6	40.8		3.1	2.9	3.7	3.4	
Pharmaceutical preparations .....	2834	41.4	40.9	41.1	40.3		3.2	2.9	3.7	3.3	
Soap, cleaners, and toilet goods .....	284	40.6	39.8	40.0	40.2		3.5	3.2	2.8	2.9	
Soap and other detergents .....	2841	43.5	43.1	42.8	42.6		5.7	5.3	5.1	4.8	
Polishing, sanitation, and finishing preparations .....	2842,3	41.2	40.8	40.8	40.9		3.2	2.9	3.2	3.2	
Toilet preparations .....	2844	38.8	37.4	38.1	38.5		2.5	2.3	1.3	1.8	
Paints and allied products .....	285	42.2	42.3	41.7	41.5		3.9	4.2	3.4	3.1	
Industrial organic chemicals .....	286	44.3	44.0	44.5	45.0		5.3	5.2	5.6	5.9	
Cyclic crudes and intermediates .....	2865	42.2	42.6	43.1	43.5		4.7	5.0	4.5	4.7	
Gum, wood, and industrial organic chemicals, nec .....	2861,9	44.9	44.3	44.9	45.4		5.5	5.3	5.9	6.2	
Agricultural chemicals .....	287	43.6	43.5	43.0	43.1		5.6	5.4	4.9	5.1	
Miscellaneous chemical products .....	289	41.9	41.9	42.2	42.0		3.6	3.7	3.8	3.8	
Petroleum and coal products .....	29	43.7	44.4	44.0	43.0	43.5	4.9	5.6	5.9	5.2	
Petroleum refining .....	291	43.8	44.6	44.5	43.3	-	4.7	5.3	6.2	5.4	
Paving and roofing materials .....	295	44.6	44.7	42.8	42.4		6.7	7.8	5.6	5.4	
Rubber and misc. plastics products .....	30	41.7	41.8	41.5	41.5	41.4	4.1	4.2	4.2	4.1	
Tires and inner tubes .....	301	45.8	45.2	44.9	44.7	-	6.2	6.3	6.0	6.1	
Rubber and plastics footwear .....	302	39.2	39.1	40.2	39.4		1.4	1.8	1.5	1.9	
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	43.6	44.3	43.5	43.1		4.2	4.7	4.0	4.4	
Fabricated rubber products, nec .....	306	41.5	41.8	40.8	41.0		3.7	3.8	3.4	3.4	
Miscellaneous plastics products .....	307	41.2	41.3	41.1	41.1		3.9	4.1	4.1	4.0	
Leather and leather products .....	31	37.4	37.0	37.8	37.4	37.7	1.9	1.9	1.8	1.8	
Leather tanning and finishing .....	311	41.2	41.3	41.6	41.8	-	4.5	4.5	4.6	4.8	
Footwear, except rubber .....	314	36.9	36.4	37.3	36.6		1.5	1.5	1.4	1.4	
Men's footwear, except athletic .....	3143	37.8	37.1	36.9	36.8		1.4	.9	1.2	1.2	
Women's footwear, except athletic .....	3144	35.9	35.0	37.5	36.9		1.6	1.9	1.7	1.9	
Luggage .....	316	39.5	39.7	39.5	40.2	-	3.1	3.2	1.7	2.2	
Handbags and personal leather goods .....	317	36.3	35.7	36.0	35.0		2.5	2.4	1.5	1.5	
<b>Transportation and public utilities .....</b>		<b>38.6</b>	<b>39.2</b>	<b>39.1</b>	<b>39.3</b>	<b>39.5</b>					
Railroad transportation:											
Class I railroads <sup>b</sup> .....	4011	43.1	44.4	45.8	45.8	-					
Local and interurban passenger transit .....	41	33.6	33.7	34.2	34.0						
Local and suburban transportation .....	411	38.2	38.2	38.2	37.9		-				
Intercity highway transportation .....	413	38.6	39.3	40.6	40.6						
Trucking and warehousing .....	42	37	37.9	37.7	38.1						
Trucking and trucking terminals .....	421,3	37.6	37.9	37.7	38.1						
Public warehousing .....	422	38.6	38.3	38.4	38.9	-					
Pipe lines, except natural gas .....	46	42.2	42.6	41.5	42.2	-					

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<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$10.45	\$10.40	\$10.75	\$10.80	\$10.76	\$399.19	\$395.20	\$405.28	\$409.32	\$405.65
Newspapers .....	271	10.37	10.44	10.77	10.73	-	346.36	347.65	352.18	354.09	-
Periodicals .....	272	10.79	10.76	11.29	11.24	-	408.94	408.88	425.63	419.25	-
Books .....	273	9.35	9.24	9.52	9.43	-	373.07	367.75	378.90	377.20	-
Book publishing .....	2731	8.96	8.84	9.16	9.11	-	346.75	342.11	356.32	356.20	-
Book printing .....	2732	9.95	9.86	10.08	9.92	-	417.90	411.16	414.29	411.68	-
Miscellaneous publishing .....	274	9.74	9.72	10.10	10.25	-	357.46	355.75	368.65	377.20	-
Commercial printing .....	275	10.75	10.66	11.03	11.11	-	425.70	420.00	433.48	438.85	-
Commercial printing, letterpress .....	2751	10.32	10.29	10.59	10.66	-	402.48	402.34	409.83	415.74	-
Commercial printing, lithographic .....	2752	10.91	10.79	11.23	11.31	-	433.13	425.13	441.34	445.61	-
Manifold business forms .....	276	10.86	10.89	11.10	11.25	-	452.86	447.58	449.55	460.13	-
Blankbooks and bookbinding .....	278	8.32	8.38	8.52	8.62	-	326.14	329.33	323.76	331.87	-
Printing trade services .....	279	12.98	12.83	13.35	13.51	-	504.92	488.82	513.98	522.84	-
Chemicals and allied products .....	28	12.53	12.57	12.89	12.92	12.87	532.53	529.20	546.54	546.52	545.69
Industrial inorganic chemicals .....	281	13.68	13.76	14.10	14.05	-	588.24	590.30	604.89	602.75	-
Industrial inorganic chemicals, nec .....	2819	13.66	13.76	14.10	14.05	-	594.21	594.43	604.89	601.34	-
Plastics materials and synthetics .....	282	12.81	12.86	13.17	13.21	-	554.67	554.27	567.63	571.99	-
Plastics materials and resins .....	2821	13.69	13.74	14.25	14.22	-	598.25	599.06	619.88	622.84	-
Organic fibers, noncellulosic .....	2824	12.29	12.29	12.44	12.48	-	526.01	523.55	536.16	537.89	-
Drugs .....	283	11.94	11.93	12.34	12.41	-	494.32	490.32	513.34	506.33	-
Pharmaceutical preparations .....	2834	11.57	11.65	12.21	12.34	-	479.00	476.49	501.83	497.30	-
Soap, cleaners, and toilet goods .....	284	11.06	11.01	11.20	11.13	-	449.04	438.20	448.00	447.43	-
Soap and other detergents .....	2841	14.61	14.55	14.94	14.94	-	635.54	627.11	639.43	636.44	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.17	10.20	10.21	10.27	-	419.00	416.16	416.57	420.04	-
Toilet preparations .....	2844	9.34	9.20	9.41	9.33	-	362.39	344.08	358.52	359.21	-
Paints and allied products .....	285	11.20	11.18	11.54	11.59	-	472.64	472.91	481.22	480.99	-
Industrial organic chemicals .....	286	14.83	15.06	15.26	15.35	-	656.97	662.64	679.07	690.75	-
Cyclic crudes and intermediates .....	2865	14.80	14.90	14.90	15.19	-	624.56	634.74	642.19	660.77	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	14.84	15.10	15.35	15.39	-	666.32	668.93	689.22	698.71	-
Agricultural chemicals .....	287	12.09	11.84	12.43	12.48	-	527.12	515.04	534.49	537.89	-
Miscellaneous chemical products .....	289	11.40	11.49	11.74	11.72	-	477.66	481.43	495.43	492.24	-
Petroleum and coal products .....	29	14.98	15.00	15.52	15.54	15.49	654.63	666.00	682.88	668.22	673.82
Petroleum refining .....	291	16.09	16.18	16.57	16.68	-	704.74	721.63	737.37	722.24	-
Paving and roofing materials .....	295	11.52	11.52	11.70	11.67	-	513.79	514.94	500.76	494.81	-
Rubber and misc. plastics products .....	30	9.00	9.04	9.27	9.29	9.32	375.30	377.87	384.71	385.54	385.85
Tires and inner tubes .....	301	14.26	14.22	14.88	14.89	-	653.11	642.74	668.11	665.58	-
Rubber and plastics footwear .....	302	6.19	6.32	6.50	6.46	-	242.65	247.11	261.30	254.52	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	9.04	9.22	9.15	9.30	-	394.14	408.45	398.03	400.83	-
Fabricated rubber products, nec .....	306	8.76	8.77	8.79	8.81	-	363.54	366.59	358.63	361.21	-
Miscellaneous plastics products .....	307	8.38	8.43	8.62	8.65	-	345.26	348.16	354.28	355.52	-
Leather and leather products .....	31	6.23	6.29	6.51	6.55	6.54	233.00	232.73	246.08	244.97	246.56
Leather tanning and finishing .....	311	8.42	8.50	8.72	8.75	-	346.90	351.05	362.75	365.75	-
Footwear, except rubber .....	314	5.94	5.98	6.22	6.25	-	219.19	217.67	232.01	228.75	-
Men's footwear, except athletic .....	3143	6.29	6.31	6.61	6.66	-	237.76	234.10	243.91	245.09	-
Women's footwear, except athletic .....	3144	5.66	5.70	5.90	5.94	-	203.19	199.50	221.25	219.19	-
Luggage .....	316	6.34	6.44	6.27	6.45	-	250.43	255.67	247.67	259.29	-
Handbags and personal leather goods .....	317	5.89	5.88	5.84	5.84	-	213.81	209.92	210.24	204.40	-
<b>Transportation and public utilities</b> .....		12.19	12.27	12.51	12.48	12.56	470.53	480.98	489.14	490.46	496.12
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	14.75	15.00	15.59	15.30	-	635.73	666.00	714.02	700.74	-
Local and interurban passenger transit .....	41	8.36	8.39	8.73	8.77	-	280.90	282.74	298.57	298.18	-
Local and suburban transportation .....	411	9.01	8.97	9.37	9.44	-	344.18	342.65	357.93	357.78	-
Intercity highway transportation .....	413	11.35	11.21	11.72	11.77	-	438.11	440.55	475.83	477.86	-
Trucking and warehousing .....	42	10.88	10.91	11.15	11.21	-	410.18	413.49	420.36	427.10	-
Trucking and trucking terminals .....	421,3	11.06	11.07	11.32	11.37	-	415.86	419.55	426.76	433.20	-
Public warehousing .....	422	8.67	8.78	9.09	9.25	-	334.66	336.27	349.06	359.83	-
Pipe lines, except natural gas .....	46	15.70	15.78	16.11	15.93	-	662.54	672.23	668.57	672.25	-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>b</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Apr. 1989 <sup>b</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	39.5	39.7	39.1	39.1	-	-	-	-	-	-
Telephone communication .....	481	40.9	41.2	40.5	40.6	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.6	35.8	35.1	35.2	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	41.0	41.5	41.7	41.5	-	-	-	-	-	-
Electric services .....	491	41.0	41.5	42.0	41.7	-	-	-	-	-	-
Gas production and distribution .....	492	40.5	40.9	41.8	41.2	-	-	-	-	-	-
Combination utility services .....	493	41.2	41.6	42.1	42.0	-	-	-	-	-	-
Sanitary services .....	495	42.4	42.5	40.0	41.2	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>37.9</b>	<b>38.2</b>	<b>37.7</b>	<b>37.8</b>	<b>38.1</b>	-	-	-	-	-
Durable goods .....	50	38.4	38.7	38.3	38.4	-	-	-	-	-	-
Motor vehicles and automotive equipment .....	501	38.0	38.4	37.3	37.3	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.9	37.9	37.3	37.2	-	-	-	-	-	-
Lumber and construction materials .....	503	38.9	39.5	38.5	39.0	-	-	-	-	-	-
Sporting goods, toys, and hobby goods .....	504	36.2	36.0	36.0	35.5	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.5	40.6	40.1	40.3	-	-	-	-	-	-
Electrical goods .....	506	37.8	37.9	38.0	37.9	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.2	38.6	38.4	38.5	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	38.7	39.1	38.8	38.8	-	-	-	-	-	-
Miscellaneous durable goods .....	509	38.0	38.0	38.0	38.3	-	-	-	-	-	-
Nondurable goods .....	51	37.2	37.5	36.9	37.0	-	-	-	-	-	-
Paper and paper products .....	511	36.6	37.0	36.8	36.9	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	37.2	36.8	36.9	36.8	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	37.1	36.9	36.3	36.4	-	-	-	-	-	-
Groceries and related products .....	514	37.4	37.6	37.4	37.6	-	-	-	-	-	-
Chemicals and allied products .....	516	39.5	39.6	39.6	39.8	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.2	38.5	38.2	38.0	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	35.8	35.8	35.7	36.0	-	-	-	-	-	-
Miscellaneous nondurable goods .....	519	36.8	37.4	36.1	36.2	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>28.6</b>	<b>28.9</b>	<b>28.3</b>	<b>28.5</b>	<b>28.9</b>	-	-	-	-	-
Building materials and garden supplies .....	52	36.0	36.4	35.4	35.6	-	-	-	-	-	-
Lumber and other building materials .....	521	37.9	38.2	37.3	37.7	-	-	-	-	-	-
Hardware stores .....	525	32.0	33.1	31.8	31.8	-	-	-	-	-	-
General merchandise stores .....	53	26.6	27.3	26.4	26.9	-	-	-	-	-	-
Department stores .....	531	26.2	27.0	26.2	26.7	-	-	-	-	-	-
Variety stores .....	533	28.5	28.8	27.5	27.5	-	-	-	-	-	-
Misc. general merchandise stores .....	539	28.6	29.1	27.5	28.1	-	-	-	-	-	-
Food stores .....	54	29.5	29.8	29.3	29.4	-	-	-	-	-	-
Grocery stores .....	541	29.6	29.9	29.3	29.5	-	-	-	-	-	-
Retail bakeries .....	546	28.0	28.3	28.6	28.6	-	-	-	-	-	-
Automotive dealers and service stations .....	55	36.3	36.6	35.9	35.9	-	-	-	-	-	-
New and used car dealers .....	551,2	37.3	37.5	36.7	36.8	-	-	-	-	-	-
Auto and home supply stores .....	553	38.0	38.6	37.8	38.0	-	-	-	-	-	-
Gasoline service stations .....	554	33.9	34.3	33.8	33.5	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.3	26.6	26.0	26.5	-	-	-	-	-	-
Men's and boys' clothing and furnishings .....	561	28.2	28.1	28.4	28.0	-	-	-	-	-	-
Women's ready-to-wear stores .....	562	24.8	25.0	23.5	24.2	-	-	-	-	-	-
Family clothing stores .....	565	26.2	26.7	25.4	26.2	-	-	-	-	-	-
Shoe stores .....	566	27.5	27.8	28.2	28.8	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	32.6	32.8	32.2	32.4	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.2	33.4	33.0	33.1	-	-	-	-	-	-
Household appliance stores .....	572	33.1	33.5	33.5	33.4	-	-	-	-	-	-
Radio, television, and music stores .....	573	31.5	31.4	30.7	30.8	-	-	-	-	-	-
Eating and drinking places <sup>1</sup> .....	58	25.3	25.7	24.8	25.1	-	-	-	-	-	-

See footnotes at end of table.



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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.61	\$12.62	\$12.89	\$12.95		\$498.10	\$501.01	\$504.00	\$506.35	
Telephone communication .....	481	13.31	13.33	13.64	13.69		544.38	549.20	552.42	555.81	
Radio and television broadcasting .....	483	11.26	11.33	11.73	11.87		400.86	405.61	411.72	417.82	
Electric, gas, and sanitary services .....	49	14.20	14.17	14.69	14.69		582.20	588.06	612.57	609.64	
Electric services .....	491	14.28	14.31	14.79	14.83		585.48	593.87	621.18	618.41	
Gas production and distribution .....	492	13.20	13.19	13.59	13.63		534.60	539.47	568.06	561.56	
Combination utility services .....	493	16.91	16.73	17.33	17.34		696.69	695.97	729.59	728.28	
Sanitary services .....	495	10.61	10.68	11.24	11.09		449.86	453.90	449.60	456.91	
<b>Wholesale trade .....</b>		<b>9.78</b>	<b>9.88</b>	<b>10.21</b>	<b>10.19</b>	<b>\$10.32</b>	<b>370.66</b>	<b>377.42</b>	<b>384.92</b>	<b>385.18</b>	<b>\$393.19</b>
Durable goods .....	50	9.97	10.10	10.44	10.42		382.85	390.87	399.85	400.13	
Motor vehicles and automotive equipment .....	501	9.04	9.12	9.43	9.37		343.52	350.21	351.74	349.50	
Furniture and home furnishings .....	502	9.07	9.36	9.66	9.59		343.75	354.74	360.32	356.75	
Lumber and construction materials .....	503	9.43	9.53	9.90	9.91		366.83	376.44	381.15	386.49	
Sporting goods, toys, and hobby goods .....	504	9.57	9.80	9.14	9.29		346.43	352.80	329.04	329.80	
Metals and minerals, except petroleum .....	505	10.59	10.66	10.84	10.76		428.90	432.80	434.68	433.63	
Electrical goods .....	506	10.29	10.51	10.92	10.89		388.96	398.33	414.96	412.73	
Hardware, plumbing, and heating equipment .....	507	9.37	9.46	9.81	9.78		357.93	365.16	376.70	376.53	
Machinery, equipment, and supplies .....	508	10.67	10.79	11.17	11.16		412.93	421.89	433.40	433.01	
Miscellaneous durable goods .....	509	7.91	7.98	8.32	8.31		300.58	303.24	316.16	318.27	
Nondurable goods .....	51	9.50	9.54	9.85	9.84		353.40	357.75	363.47	364.08	
Paper and paper products .....	511	10.26	10.32	10.84	10.81		375.52	381.84	398.91	398.89	
Drugs, proprietaries, and sundries .....	512	10.90	11.19	11.34	11.09		405.48	411.79	418.45	408.11	
Apparel, piece goods, and notions .....	513	9.33	9.48	9.83	9.84		346.14	349.81	356.83	358.18	
Groceries and related products .....	514	9.69	9.69	9.99	10.01		362.41	364.34	373.63	376.38	
Chemicals and allied products .....	516	12.19	12.26	12.42	12.46		481.51	485.50	491.83	495.91	
Petroleum and petroleum products .....	517	9.53	9.64	9.79	9.74		364.05	371.14	373.98	370.12	
Beer, wine, and distilled beverages .....	518	10.92	11.06	11.19	11.34		390.94	395.95	399.48	408.24	
Miscellaneous nondurable goods .....	519	7.79	7.78	8.10	8.08		286.67	290.97	292.41	292.50	
<b>Retail trade .....</b>		<b>6.24</b>	<b>6.26</b>	<b>6.46</b>	<b>6.46</b>	<b>6.48</b>	<b>178.46</b>	<b>180.91</b>	<b>182.82</b>	<b>184.11</b>	<b>187.27</b>
Building materials and garden supplies .....	52	7.23	7.25	7.60	7.59		260.28	263.90	269.04	270.20	
Lumber and other building materials .....	521	7.61	7.67	8.04	8.00		288.42	292.99	299.89	301.60	
Hardware stores .....	525	6.19	6.17	6.33	6.36		198.08	204.23	201.29	202.25	
General merchandise stores .....	53	6.48	6.52	6.66	6.66		172.37	178.00	175.82	179.15	
Department stores .....	531	6.77	6.82	6.92	6.92		177.37	184.14	181.30	184.76	
Variety stores .....	533	4.91	4.93	5.34	5.34		139.94	141.98	146.85	146.85	
Misc. general merchandise stores .....	539	5.32	5.30	5.62	5.61		152.15	154.23	154.55	157.64	
Food stores .....	54	7.00	6.98	7.13	7.14		206.50	208.00	208.91	209.92	
Grocery stores .....	541	7.12	7.09	7.24	7.24		210.75	211.99	212.13	213.58	
Retail bakeries .....	546	5.91	5.92	6.08	6.10		165.48	167.54	173.89	174.46	
Automotive dealers and service stations .....	55	8.06	8.22	8.27	8.33		292.58	300.85	296.89	299.05	
New and used car dealers .....	551,2	9.78	10.03	9.99	10.07		364.79	376.13	366.63	370.58	
Auto and home supply stores .....	553	6.94	7.09	7.26	7.35		263.72	273.67	274.43	279.30	
Gasoline service stations .....	554	5.69	5.74	5.88	5.87		192.89	196.88	198.74	196.65	
Apparel and accessory stores .....	56	5.70	5.74	5.89	5.91		149.91	152.68	153.14	156.62	
Men's and boys' clothing and furnishings .....	561	6.78	6.99	7.27	7.14		191.20	196.42	206.47	199.92	
Women's ready-to-wear stores .....	562	5.38	5.44	5.61	5.60		133.42	136.00	131.84	135.52	
Family clothing stores .....	565	5.48	5.55	5.78	5.80		143.58	148.19	146.81	151.96	
Shoe stores .....	566	5.90	5.86	5.84	5.95		162.25	162.91	164.69	171.36	
Furniture and home furnishings stores .....	57	7.67	7.79	8.05	8.04		250.04	255.51	259.21	260.50	
Furniture and home furnishings stores .....	571	7.82	7.91	8.09	8.10		259.62	264.19	266.97	268.11	
Household appliance stores .....	572	7.51	7.71	8.10	8.03		248.58	258.29	271.35	268.20	
Radio, television, and music stores .....	573	7.45	7.61	7.96	7.94		234.68	238.95	244.37	244.55	
Eating and drinking places <sup>4</sup> .....	58	4.50	4.51	4.69	4.69		113.85	115.91	116.31	117.72	

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	29.5	29.8	29.7	29.5						
Drug stores and proprietary stores .....	591	27.4	27.4	26.9	26.9						
Miscellaneous shopping goods stores .....	594	28.0	28.5	27.9	27.9						
Nonstore retailers .....	596	32.0	32.1	32.0	32.5						
Fuel and ice dealers .....	598	38.1	38.3	39.1	38.6						
Retail stores, nec .....	599	31.1	31.5	32.8	31.4						
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>35.8</b>	<b>36.2</b>	<b>35.8</b>	<b>35.8</b>	<b>36.4</b>					
Banking .....	60	35.4	36.3	35.5	35.4						
Commercial and stock savings banks .....	602	35.4	36.3	35.5	35.4						
Credit agencies other than banks .....	61	36.1	36.6	36.5	36.4						-
Savings and loan associations .....	612	35.5	36.1	35.6	35.6						
Personal credit institutions .....	614	36.3	36.8	36.0	35.9						
Insurance carriers .....	63	37.2	37.3	37.1	37.1						
Life insurance .....	631	36.8	37.0	37.0	36.9						
Medical service and health insurance .....	632	38.1	38.1	38.0	37.8						
Fire, marine, and casualty insurance .....	633	37.1	37.1	36.8	36.9						
<b>Services</b> .....		<b>32.3</b>	<b>32.6</b>	<b>32.4</b>	<b>32.4</b>	<b>32.8</b>					
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>1</sup> .....	701	30.6	31.2	30.5	30.8						
Personal services:											
Laundry, cleaning, and garment services .....	721	33.9	34.4	33.6	34.0						
Beauty shops <sup>1</sup> .....	723	29.6	30.1	29.6	30.0						
Business services .....	73	33.5	33.7	33.5	33.6						
Advertising .....	731	36.3	36.9	36.7	36.8						
Services to buildings .....	734	29.0	29.1	29.5	29.5						
Computer and data processing services .....	737	37.5	37.9	37.9	37.7						
Auto repair, services, and garages .....	75	36.1	36.4	36.5	36.9						
Automotive repair shops .....	753	37.8	38.0	37.9	38.3						
Miscellaneous repair services .....	76	37.8	38.0	37.3	37.7						
Motion pictures .....	78	29.2	28.7	29.2	28.6						
Motion picture production and services .....	781	38.1	37.6	36.3	35.3						
Amusement and recreation services .....	79	27.5	27.7	27.7	27.5						
Health services .....	80	32.2	32.3	32.3	32.2						
Offices of physicians .....	801	31.0	31.2	31.3	31.1						
Offices of dentists .....	802	28.4	28.4	28.3	28.4						
Nursing and personal care facilities .....	805	31.0	31.4	31.3	31.3						
Hospitals .....	806	33.9	33.8	33.8	33.8						
Legal services .....	81	34.3	34.9	34.6	34.5						
Miscellaneous services .....	89	39.0	39.3	38.7	38.8						
Engineering and architectural services .....	891	39.3	39.4	39.1	39.0						
Accounting, auditing, and bookkeeping .....	893	39.6	40.3	38.7	39.3			-			-

See footnotes at end of table.

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

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Apr. 1989 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.51	\$6.55	\$6.76	\$6.78		\$192.05	\$195.19	\$200.77	\$200.01	
Drug stores and proprietary stores .....	591	6.12	6.16	6.41	6.39		167.69	168.78	172.43	171.89	
Miscellaneous shopping goods stores .....	594	6.13	6.20	6.36	6.39		171.64	176.70	177.44	178.28	
Nonstore retailers .....	596	7.30	7.32	7.56	7.59		233.60	234.97	241.92	246.68	
Fuel and ice dealers .....	598	9.18	9.14	9.55	9.44		349.76	350.06	373.41	364.38	
Retail stores, nec .....	599	6.55	6.62	6.77	6.88		203.71	208.53	222.06	216.03	
<b>Finance, insurance, and real estate<sup>2</sup></b> .....		8.97	9.03	9.47	9.43	\$9.55	321.13	326.89	339.03	337.59	\$347.62
Banking .....	60	7.75	7.80	8.18	8.12		274.35	283.14	290.39	287.45	
Commercial and stock savings banks .....	602	7.46	7.52	7.87	7.81		264.08	272.98	279.39	276.47	
Credit agencies other than banks .....	61	8.05	8.14	8.52	8.52		290.61	297.92	310.98	310.13	
Savings and loan associations .....	612	7.57	7.63	8.06	8.05		268.74	275.44	286.94	286.58	
Personal credit institutions .....	614	7.64	7.70	8.06	8.10		277.33	283.36	290.16	290.79	
Insurance carriers .....	63	10.01	10.08	10.49	10.49		372.37	375.98	389.18	389.18	
Life insurance .....	631	9.49	9.56	9.85	9.89		349.23	353.72	364.45	364.94	
Medical service and health insurance .....	632	9.71	9.75	10.21	10.13		369.95	371.48	387.98	382.91	
Fire, marine, and casualty insurance .....	633	10.49	10.60	11.19	11.22		389.18	393.26	411.79	414.02	
<b>Services</b> .....		8.80	8.82	9.26	9.26	9.30	284.24	287.53	300.02	300.02	305.04
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>3</sup> .....	701	6.38	6.41	6.56	6.61		195.23	199.99	200.08	203.59	
Personal services:											
Laundry, cleaning, and garment services .....	721	6.28	6.30	6.48	6.50		212.89	216.72	217.73	221.00	
Beauty shops <sup>4</sup> .....	723	6.70	6.74	6.63	6.84		198.32	202.87	196.25	205.20	
Business services .....	73	9.03	9.06	9.49	9.48		302.51	305.32	317.92	318.53	
Advertising .....	731	12.18	12.31	12.85	12.80		442.13	454.24	471.60	471.04	
Services to buildings .....	734	6.65	6.76	6.91	6.96		192.85	196.72	203.85	205.32	
Computer and data processing services .....	737	12.42	12.55	13.41	13.49		465.75	475.65	508.24	508.57	
Auto repair, services, and garages .....	75	8.04	8.09	8.35	8.35		290.24	294.48	304.78	308.12	
Automotive repair shops .....	753	8.72	8.76	9.08	9.13		329.62	332.88	344.13	349.68	
Miscellaneous repair services .....	76	9.42	9.54	9.75	9.75		356.08	362.52	363.68	367.58	
Motion pictures .....	78	12.55	11.44	12.56	13.08		366.46	328.33	366.75	374.09	
Motion picture production and services .....	781	16.75	15.49	16.00	16.81		638.18	582.42	580.80	593.39	
Amusement and recreation services .....	79	7.66	7.57	8.12	8.10		210.65	209.69	224.92	222.75	
Health services .....	80	9.05	9.12	9.63	9.64		291.41	294.58	311.05	310.41	
Offices of physicians .....	801	8.68	8.75	9.15	9.15		269.08	273.00	286.40	284.57	
Offices of dentists .....	802	8.80	8.83	9.29	9.34		249.92	250.77	262.91	265.26	
Nursing and personal care facilities .....	805	6.20	6.23	6.61	6.63		192.20	195.62	206.89	207.52	
Hospitals .....	806	10.27	10.36	10.97	10.98		348.15	350.17	370.79	371.12	
Legal services .....	81	12.36	12.46	13.21	13.18		423.95	434.85	457.07	454.71	
Miscellaneous services .....	89	12.18	12.28	12.90	12.82		475.02	482.60	499.23	497.42	
Engineering and architectural services .....	891	13.23	13.27	13.89	13.82		519.94	522.84	543.10	536.98	
Accounting, auditing, and bookkeeping .....	893	10.26	10.44	10.92	10.86		406.30	420.73	422.60	426.80	

<sup>1</sup> 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.

<sup>2</sup> See table C-2a for average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.

<sup>3</sup> Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

<sup>4</sup> Money payments only; tips, not included.

<sup>5</sup> Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

<sup>p</sup> = preliminary.

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

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

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

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

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

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

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

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Feb. 1988	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Feb. 1988	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>
Average hourly earnings, excluding lump-sum payments .....	\$13.98	\$13.99	\$14.73	\$14.72	\$13.32	\$13.35	\$14.01	\$14.08
Average hourly earnings, including lump-sum payments .....	14.44	14.46	15.16	15.15	13.62	13.65	14.41	14.48

<sup>p</sup> = preliminary.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-3. Average hourly earnings, excluding overtime,<sup>1</sup> of production workers on manufacturing payrolls**

Industry	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>
<b>Manufacturing</b> .....	\$9.64	\$9.68	\$9.92	\$9.93	\$9.95
<b>Durable goods</b> .....	10.13	10.17	10.41	10.42	10.44
Lumber and wood products .....	8.12	8.15	8.33	8.30	()
Furniture and fixtures .....	7.53	7.58	7.82	7.84	()
Stone, clay, and glass products .....	9.80	9.81	10.09	10.05	()
Primary metal industries .....	11.39	11.41	11.55	11.55	()
Fabricated metal products .....	9.69	9.75	9.97	9.98	()
Machinery, except electrical .....	10.32	10.36	10.62	10.65	()
Electrical and electronic equipment .....	9.68	9.73	9.88	9.93	()
Transportation equipment .....	12.57	12.58	12.90	12.92	()
Instruments and related products .....	9.52	9.55	9.77	9.80	()
Miscellaneous manufacturing .....	7.68	7.69	7.96	7.95	()
<b>Nondurable goods</b> .....	8.95	8.98	9.21	9.23	\$9.24
Food and kindred products .....	8.69	8.75	8.86	8.91	()
Tobacco manufactures .....	14.03	14.56	14.31	14.86	()
Textile mill products .....	6.99	7.02	7.24	7.24	()
Apparel and other textile products .....	5.89	5.91	6.14	6.15	()
Paper and allied products .....	10.92	10.97	11.16	11.19	()
Printing and publishing .....	10.03	10.01	10.35	10.37	()
Chemicals and allied products .....	11.95	11.99	12.28	12.31	()
Petroleum and coal products .....	14.19	14.11	14.55	14.65	()
Rubber and misc. plastics products .....	8.58	8.60	8.82	8.86	()
Leather and leather products .....	6.07	6.13	6.36	6.40	()

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

<sup>2</sup> Not available.

<sup>2</sup> = preliminary.

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

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-4. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.**

Industry	Average hourly earnings					Average weekly earnings				
	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>	Mar. 1988	Apr. 1988	Feb. 1989	Mar. 1989 <sup>2</sup>	Apr. 1989 <sup>2</sup>
<b>Total private:</b>										
Current dollars .....	\$9.18	\$9.23	\$9.54	\$9.55	\$9.60	\$315.79	\$320.28	\$327.22	\$328.52	\$334.08
Constant (1977) dollars .....	4.86	4.86	4.83	4.81	( <sup>3</sup> )	167.08	168.57	165.76	165.58	( <sup>3</sup> )
<b>Mining:</b>										
Current dollars .....	12.59	12.60	13.16	13.09	\$13.05	527.52	539.28	548.77	548.47	\$561.15
Constant (1977) dollars .....	6.66	6.63	6.67	6.60	( <sup>3</sup> )	279.11	283.83	278.00	276.45	( <sup>3</sup> )
<b>Construction:</b>										
Current dollars .....	12.87	12.88	13.17	13.22	\$13.29	481.34	488.15	475.44	493.11	\$501.03
Constant (1977) dollars .....	6.81	6.78	6.67	6.66	( <sup>3</sup> )	254.68	256.92	240.85	248.54	( <sup>3</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.07	10.12	10.37	10.39	\$10.40	411.86	414.92	423.10	424.95	\$426.40
Constant (1977) dollars .....	5.33	5.33	5.25	5.24	( <sup>3</sup> )	217.92	218.38	214.34	214.19	( <sup>3</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.19	12.27	12.51	12.48	\$12.56	470.53	480.98	489.14	490.46	\$496.12
Constant (1977) dollars .....	6.45	6.46	6.34	6.29	( <sup>3</sup> )	248.96	253.15	247.79	247.21	( <sup>3</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	9.78	9.88	10.21	10.19	\$10.32	370.66	377.42	384.92	385.18	\$393.19
Constant (1977) dollars .....	5.17	5.20	5.17	5.14	( <sup>3</sup> )	196.12	198.64	194.99	194.14	( <sup>3</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.24	6.26	6.46	6.46	\$6.48	178.46	180.91	182.82	184.11	\$187.27
Constant (1977) dollars .....	3.30	3.29	3.27	3.26	( <sup>3</sup> )	94.42	95.22	92.61	92.80	( <sup>3</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	8.97	9.03	9.47	9.43	\$9.55	321.13	326.89	339.03	337.59	\$347.62
Constant (1977) dollars .....	4.75	4.75	4.80	4.75	( <sup>3</sup> )	169.91	172.05	171.75	170.16	( <sup>3</sup> )
<b>Services:</b>										
Current dollars .....	8.80	8.82	9.26	9.26	\$9.30	284.24	287.53	300.02	300.02	\$305.04
Constant (1977) dollars .....	4.66	4.64	4.69	4.67	( <sup>3</sup> )	150.39	151.33	151.99	151.22	( <sup>3</sup> )

<sup>1</sup> 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.

<sup>2</sup> Not available.

<sup>3</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced all unadjusted data from April 1987 forward are subject to revision.

**ESTABLISHMENT DATA**  
**HOURS**  
**SEASONALLY ADJUSTED**

**C-5. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>2</sup>	Apr. <sup>2</sup>
<b>Total private</b> .....	34.9	34.7	34.7	34.9	34.6	34.7	34.9	34.8	34.7	34.8	34.6	34.6	35.0
<b>Mining</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Construction</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Manufacturing</b> .....	41.2	41.0	41.1	41.1	41.0	41.2	41.2	41.2	40.8	41.1	41.1	41.0	41.3
<i>Overtime hours</i> .....	3.9	3.9	3.9	3.9	3.9	3.9	4.0	3.9	3.9	3.9	3.9	3.9	4.0
<b>Durable goods</b> .....	42.0	41.8	41.8	41.8	41.6	41.9	41.9	41.9	41.5	41.8	41.7	41.6	42.0
<i>Overtime hours</i> .....	4.2	4.2	4.1	4.0	4.1	4.0	4.2	4.2	4.1	4.1	4.1	4.0	4.1
Lumber and wood products .....	40.6	40.1	40.2	40.5	40.0	39.9	40.7	40.3	40.3	40.3	39.5	40.0	40.3
Furniture and fixtures .....	39.5	39.5	39.4	39.7	39.0	39.6	39.4	39.4	39.2	40.1	39.7	39.9	39.8
Stone, clay, and glass products .....	42.5	42.3	42.4	42.1	42.1	42.3	42.5	42.6	42.4	42.6	42.1	42.3	42.8
Primary metal industries .....	43.5	43.6	43.6	43.4	43.5	44.0	43.8	43.7	43.4	43.6	43.3	43.4	43.4
Blast furnaces and basic steel products ..	43.8	43.9	44.3	44.0	44.0	44.6	44.3	44.0	43.7	44.0	43.7	44.1	44.0
Fabricated metal products .....	42.0	41.9	42.0	41.7	41.8	42.0	41.9	42.2	41.7	41.9	41.8	41.6	41.9
Machinery, except electrical .....	42.8	42.6	42.5	43.0	42.4	42.7	42.6	42.5	42.3	42.5	42.5	42.3	42.6
Electrical and electronic equipment .....	41.2	41.0	41.1	41.0	40.8	41.0	41.0	41.0	40.7	40.8	40.9	40.5	41.2
Transportation equipment .....	43.0	43.0	43.0	42.6	42.7	43.3	43.3	43.3	42.4	42.6	43.0	42.9	43.3
Motor vehicles and equipment .....	44.1	44.0	44.2	42.5	43.6	44.5	44.2	44.6	43.0	43.3	43.7	43.5	44.0
Instruments and related products .....	41.8	41.4	41.3	41.8	41.5	41.6	41.9	41.6	41.0	41.6	41.6	40.9	41.4
Miscellaneous manufacturing .....	39.4	39.2	39.3	39.2	39.2	39.2	39.1	39.2	38.9	39.4	39.5	39.3	39.8
<b>Nondurable goods</b> .....	40.3	40.0	40.1	40.2	40.1	40.2	40.2	40.2	39.9	40.1	40.2	40.1	40.3
<i>Overtime hours</i> .....	3.6	3.6	3.6	3.7	3.6	3.7	3.8	3.6	3.6	3.6	3.7	3.8	3.8
Food and kindred products .....	40.1	40.1	40.3	40.5	40.4	40.3	40.6	40.6	40.3	40.1	40.3	40.4	40.5
Tobacco manufactures .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Textile mill products .....	41.6	40.8	40.7	41.1	41.1	41.1	41.0	41.0	40.5	40.9	40.7	41.2	41.6
Apparel and other textile products .....	37.4	36.8	36.9	36.9	36.8	37.1	36.8	37.0	36.6	37.0	37.1	36.9	37.5
Paper and allied products .....	43.3	43.3	43.2	43.2	43.2	43.3	43.2	43.1	43.1	43.1	43.2	43.3	43.3
Printing and publishing .....	38.2	37.7	38.0	38.0	38.0	38.1	38.0	37.8	37.7	38.0	38.0	37.9	37.9
Chemicals and allied products .....	42.1	42.0	42.4	42.3	42.1	42.1	42.5	42.4	42.3	42.4	42.5	42.3	42.4
Petroleum and coal products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Rubber and misc. plastics products .....	42.0	41.7	41.6	41.6	41.5	41.6	41.5	41.7	41.2	41.7	41.7	41.5	41.6
Leather and leather products .....	37.3	37.3	36.9	37.0	37.6	37.5	37.9	37.3	37.7	38.3	38.8	37.9	38.0
<b>Transportation and public utilities</b> .....	39.5	39.4	39.3	39.5	39.3	39.4	39.4	39.2	39.4	39.7	39.3	39.5	39.8
<b>Wholesale trade</b> .....	38.3	38.0	37.9	38.2	37.8	38.1	38.1	38.0	38.0	38.1	38.0	38.0	38.2
<b>Retail trade</b> .....	29.2	29.0	29.1	29.3	29.0	28.9	29.2	29.0	29.2	29.1	28.9	28.9	29.2
<b>Finance, insurance, and real estate</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Services</b> .....	32.7	32.5	32.5	32.7	32.4	32.6	32.8	32.6	32.6	32.8	32.5	32.5	32.9

<sup>1</sup> 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.

<sup>2</sup> 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.  
<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

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

(1977=100)

Industry	1988									1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>p</sup>	Apr. <sup>p</sup>
<b>Total private</b> .....	125.1	124.4	125.4	126.4	125.5	126.0	127.1	127.1	127.2	128.3	127.8	128.1	129.5
<b>Goods-producing</b> .....	102.7	102.1	103.2	103.3	102.8	103.1	104.0	104.5	103.5	104.4	104.2	104.1	104.8
<b>Mining</b> .....	85.9	84.4	85.0	85.8	83.5	82.8	83.5	80.9	81.2	80.4	80.7	81.8	85.1
<b>Construction</b> .....	141.1	139.3	144.0	142.4	142.5	143.4	145.3	147.5	144.6	146.3	145.4	145.8	146.0
<b>Manufacturing</b> .....	96.1	95.7	96.1	96.5	96.0	96.3	96.9	97.2	96.6	97.4	97.3	97.1	97.7
<b>Durable goods</b> .....	94.0	93.9	94.3	94.8	94.2	94.6	95.2	95.6	94.8	95.7	95.3	94.8	95.6
Lumber and wood products .....	104.7	103.2	103.8	103.9	102.3	101.7	104.8	104.7	105.2	106.0	103.0	103.8	103.6
Furniture and fixtures .....	113.2	113.7	113.4	115.1	112.0	114.2	114.2	114.5	113.9	116.2	115.3	116.5	118.2
Stone, clay, and glass products .....	88.3	87.5	88.1	88.0	87.5	87.5	88.3	88.9	88.9	89.5	88.4	88.5	89.5
Primary metal industries .....	67.6	88.1	68.6	69.0	68.7	69.7	70.1	70.0	69.6	69.8	69.2	69.3	69.5
Blast furnaces and basic steel products .....	54.8	54.6	55.4	55.3	54.8	55.0	55.1	54.8	54.1	54.8	54.4	54.9	54.8
Fabricated metal products .....	91.8	92.1	92.8	92.7	92.6	93.1	93.6	94.6	93.7	94.7	94.3	93.6	94.0
Machinery, except electrical .....	91.5	91.6	91.6	93.7	92.6	93.2	93.7	94.3	94.3	95.1	95.6	95.1	95.8
Electrical and electronic equipment .....	102.8	102.3	103.0	103.1	102.8	103.1	103.4	103.7	102.3	102.2	102.1	100.6	102.1
Transportation equipment .....	100.0	100.2	100.0	99.7	99.9	100.2	100.7	100.8	98.7	99.9	99.8	99.4	100.6
Motor vehicles and equipment .....	89.8	89.9	90.3	88.2	90.9	91.4	91.9	92.6	89.0	91.0	90.1	88.6	90.1
Instruments and related products .....	106.5	106.1	106.6	108.2	107.7	107.9	109.5	109.0	108.3	109.6	109.6	108.0	109.6
Miscellaneous manufacturing .....	85.0	83.9	84.5	85.1	84.2	84.2	83.1	83.6	83.6	85.3	85.8	85.4	86.5
<b>Nondurable goods</b> .....	99.1	98.4	98.9	99.1	98.7	98.7	99.4	99.7	99.2	99.9	100.2	100.3	100.8
Food and kindred products .....	101.0	100.5	101.4	100.6	100.2	100.1	102.7	103.3	102.1	102.3	102.9	103.4	103.8
Tobacco manufactures .....	73.8	71.0	71.4	73.7	72.0	69.1	69.7	72.7	73.2	67.8	70.5	67.3	71.1
Textile mill products .....	82.2	80.6	80.2	81.2	79.9	80.4	80.2	80.2	79.1	80.6	80.0	80.9	81.8
Apparel and other textile products .....	86.2	84.7	84.8	84.7	83.9	84.5	83.9	84.9	84.2	85.4	86.0	86.1	86.9
Paper and allied products .....	101.4	101.5	101.7	101.9	101.9	101.4	101.3	101.3	101.3	101.1	101.1	101.7	101.7
Printing and publishing .....	136.5	134.9	136.4	136.6	137.0	137.5	137.6	137.2	137.5	138.7	138.7	138.8	138.5
Chemicals and allied products .....	97.1	97.4	98.8	98.7	98.7	98.4	99.7	99.4	99.5	100.3	100.7	100.2	100.9
Petroleum and coal products .....	84.9	85.3	86.8	86.6	86.6	86.1	87.3	86.3	86.7	84.1	85.9	83.0	84.7
Rubber and misc. plastics products .....	122.9	123.1	123.4	124.8	124.2	123.9	124.7	126.0	125.1	126.2	126.9	126.9	127.0
Leather and leather products .....	55.5	55.5	54.9	55.5	56.0	55.8	56.4	55.1	55.6	57.0	58.2	56.9	56.6
<b>Service-producing</b> .....	137.4	136.8	137.8	139.1	138.1	138.7	139.9	139.6	140.4	141.5	140.9	141.4	143.2
<b>Transportation and public utilities</b> .....	113.5	113.5	113.8	114.7	114.5	114.6	115.0	115.2	116.2	117.4	116.5	117.0	118.0
<b>Wholesale trade</b> .....	124.8	124.4	124.9	126.3	125.4	126.9	127.4	127.7	128.1	129.1	129.3	129.8	130.7
<b>Retail trade</b> .....	126.0	125.1	126.2	127.3	126.2	125.7	127.2	126.7	127.8	128.2	127.7	128.2	129.5
<b>Finance, insurance, and real estate</b> .....	141.1	140.1	140.1	142.1	140.0	140.6	141.2	140.4	140.0	142.1	140.7	141.0	143.3
<b>Services</b> .....	159.0	158.3	160.0	161.5	160.7	162.0	163.5	163.2	164.1	165.6	164.9	165.6	168.1

<sup>1</sup> 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.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.



**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

**C-7. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1988										1989			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>2</sup>	Apr. <sup>3</sup>	
Average hourly earnings														
<b>Total private</b> (in current dollars) .....	\$9.23	\$9.27	\$9.27	\$9.32	\$9.32	\$9.37	\$9.43	\$9.42	\$9.45	\$9.49	\$9.50	\$9.52	\$9.59	
<b>Mining</b> .....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
<b>Construction</b> .....	\$12.93	\$12.91	\$12.93	\$13.03	\$12.99	\$13.04	\$13.03	\$13.01	\$13.09	\$13.14	\$13.18	\$13.25	\$13.34	
<b>Manufacturing</b> .....	10.11	10.15	10.18	10.17	10.20	10.26	10.28	10.29	10.31	10.32	10.35	10.37	10.39	
<b>Excluding overtime</b> <sup>5</sup> .....	9.65	9.69	9.72	9.71	9.74	9.78	9.81	9.83	9.84	9.86	9.88	9.90	9.92	
<b>Transportation and public utilities</b> .....	12.29	12.35	12.33	12.37	12.39	12.37	12.43	12.37	12.36	12.46	12.46	12.51	12.59	
<b>Wholesale trade</b> .....	9.88	9.88	9.86	9.97	9.93	10.01	10.13	10.04	10.08	10.18	10.15	10.17	10.32	
<b>Retail trade</b> .....	6.25	6.28	6.29	6.33	6.32	6.34	6.37	6.42	6.42	6.43	6.43	6.44	6.47	
<b>Finance, insurance, and real estate</b> .....	8.99	9.08	9.00	9.10	9.09	9.18	9.36	9.26	9.37	9.41	9.35	9.36	9.50	
<b>Services</b> .....	8.81	8.88	8.86	8.92	8.93	8.99	9.06	9.04	9.09	9.14	9.17	9.20	9.29	
<b>Total private</b> (in constant dollars) <sup>6</sup> .....	4.85	4.85	4.84	4.84	4.82	4.83	4.84	4.82	4.82	4.81	4.80	4.79	( <sup>7</sup> )	
Average weekly earnings														
<b>Total private:</b>														
In current dollars .....	322.13	321.67	321.67	325.27	322.47	325.14	329.11	327.82	327.92	330.25	328.70	329.39	335.65	
In constant (1977) dollars <sup>8</sup> .....	169.36	168.41	167.89	169.06	166.82	167.68	169.03	167.77	167.39	167.55	166.09	165.61	( <sup>7</sup> )	

<sup>1</sup> 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.

<sup>2</sup> This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

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

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

<sup>5</sup> Not available.

<sup>6</sup> = preliminary.

**NOTE:** Establishment survey estimates are currently projected from March 1987 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1984 forward are subject to revision.

**ESTABLISHMENT DATA  
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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Alabama</b> .....	41.1	40.8	41.1	\$8.98	\$9.15	\$9.18	\$369.08	\$373.32	\$377.30
Birmingham .....	41.9	40.4	41.0	9.07	9.36	9.56	380.03	378.14	391.96
Mobile .....	40.7	41.7	42.0	10.50	10.70	10.75	427.35	446.19	451.50
<b>Alaska</b> .....	42.9	50.7	49.8	11.93	11.27	11.48	511.80	571.39	571.70
<b>Arizona</b> .....	41.1	41.0	40.7	9.79	9.87	9.82	402.37	404.67	399.67
<b>Arkansas</b> .....	40.7	40.6	39.7	8.03	8.18	8.15	326.82	332.11	323.56
Fayetteville-Springdale .....	40.5	41.5	39.2	7.18	7.41	7.35	290.79	307.52	288.12
Fort Smith .....	40.7	40.9	38.8	8.56	8.79	8.68	348.39	359.51	336.78
Little Rock-North Little Rock .....	40.7	40.5	40.3	8.57	8.66	8.60	348.80	350.73	346.58
Pine Bluff .....	42.2	41.9	43.1	10.48	10.45	10.41	442.26	437.86	448.67
<b>California</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Colorado</b> .....	39.8	38.4	39.1	10.18	10.49	10.46	405.16	402.82	408.99
Denver .....	39.7	39.6	40.1	10.64	11.01	11.04	422.41	436.00	442.70
<b>Connecticut</b> .....	41.8	41.9	42.1	10.75	11.12	11.16	449.35	465.93	469.84
Bridgeport-Milford .....	42.1	41.8	42.1	11.24	11.60	11.40	473.20	484.88	479.94
Hartford .....	42.8	42.2	42.5	11.04	11.69	11.80	472.51	493.32	501.50
New Britain .....	43.0	42.8	43.4	10.98	11.33	11.52	472.14	484.92	499.97
New Haven-Meriden .....	40.4	4.1	41.3	10.19	10.56	10.65	411.68	437.18	439.85
Stamford .....	40.7	40.7	43.1	12.08	12.46	12.34	491.66	507.12	531.85
Waterbury .....	43.0	43.8	42.9	9.47	10.11	10.11	407.21	442.82	433.72
<b>Delaware</b> .....	38.9	40.3	39.9	10.63	10.85	11.05	413.51	437.26	440.90
Wilmington .....	40.1	41.1	43.1	12.99	12.98	12.82	520.90	533.48	552.54
<b>District of Columbia:</b>									
Washington MSA .....	38.9	39.8	39.8	11.05	11.58	11.70	429.85	460.88	465.66
<b>Florida</b> .....	40.6	40.9	40.6	8.28	8.61	8.61	336.17	352.15	349.57
Fort Lauderdale-Hollywood-Pompano Beach .....	41.2	42.0	41.5	8.33	8.54	8.60	343.20	358.68	356.90
Jacksonville .....	40.8	40.4	40.5	9.02	9.25	9.33	368.02	373.70	377.87
Miami-Hialeah .....	38.9	40.2	40.1	7.05	7.44	7.40	274.25	299.09	296.74
Orlando .....	40.8	40.9	40.9	8.65	9.36	9.49	352.92	382.82	388.14
Pensacola .....	43.4	42.6	42.7	10.94	11.25	11.00	474.80	479.25	469.70
Tampa-St. Petersburg-Clearwater .....	41.0	40.6	40.8	7.91	8.49	8.52	324.31	344.69	347.62
West Palm Beach-Boca Raton-Delray Beach .....	42.2	41.2	41.6	9.34	9.45	9.64	394.15	389.34	401.02
<b>Georgia</b> .....	41.4	40.5	40.7	8.63	8.73	8.76	357.28	353.57	356.53
Atlanta .....	41.9	39.8	40.8	10.21	10.10	10.10	427.80	401.98	412.08
Savannah .....	47.4	48.0	46.9	11.45	11.55	11.62	542.73	554.40	544.98
<b>Hawaii</b> .....	40.5	39.6	40.7	9.77	9.88	10.26	395.69	391.25	417.58
Honolulu .....	40.2	39.2	41.7	9.90	10.14	10.54	397.98	397.49	439.52
<b>Idaho</b> .....	37.4	37.8	37.4	9.65	10.15	9.79	360.91	383.67	366.15
<b>Illinois</b> .....	41.8	41.5	41.6	11.01	11.09	11.08	460.22	460.24	460.93
Aurora-Elgin .....	42.3	42.1	41.5	10.44	10.55	10.56	441.61	444.16	438.24
Bloomington-Normal .....	40.8	39.8	40.4	11.17	11.26	11.46	455.74	448.15	462.98
Champaign-Urbana-Rantoul .....	40.0	38.5	38.7	9.35	9.60	9.60	374.00	369.60	371.52
Chicago .....	42.3	41.8	42.0	10.65	10.78	10.81	450.50	450.60	454.02
Davenport-Rock Island-Moline .....	40.2	41.5	42.2	12.46	13.00	12.83	500.89	539.50	541.43
Decatur .....	42.3	42.4	42.0	14.16	14.39	14.59	598.97	610.14	612.78
Joliet .....	41.5	41.4	41.9	12.05	12.33	12.30	500.08	510.46	515.37
Kankakee .....	40.3	40.5	41.9	10.09	11.23	11.17	406.63	454.82	468.02
Lake County .....	40.3	40.2	40.6	11.26	11.66	11.67	453.78	468.73	473.80
Peoria .....	47.8	42.5	44.0	13.38	13.60	13.71	639.56	578.00	603.24
Rockford .....	43.1	42.3	43.3	11.88	11.84	11.96	512.03	500.83	517.87
Springfield .....	41.5	39.5	40.4	11.27	11.51	11.41	467.71	454.65	460.96
<b>Indiana</b> .....	41.7	41.0	41.4	11.36	11.55	11.68	473.71	473.55	483.55

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. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>Iowa</b> .....	41.5	41.3	41.4	\$10.53	\$10.89	\$10.99	\$437.00	\$449.76	\$454.99
Cedar Rapids .....	39.9	39.4	39.1	11.96	12.74	12.68	477.20	501.96	495.79
Des Moines .....	42.7	42.8	43.0	11.82	12.05	12.07	504.71	515.74	519.01
Dubuque .....	40.1	39.9	39.7	11.95	11.78	12.04	479.20	470.02	477.99
Sioux City .....	33.5	34.1	32.6	8.25	8.36	8.29	276.38	285.08	270.25
<b>Kansas</b> .....	40.8	40.1	40.6	10.02	10.46	10.43	408.82	419.45	423.46
Topeka .....	43.7	42.3	42.0	11.47	11.34	11.25	501.24	479.68	472.50
Wichita .....	41.0	41.2	41.4	10.39	11.26	11.27	425.99	463.91	466.58
<b>Kentucky</b> .....	40.3	40.0	40.3	10.07	10.20	10.26	405.82	408.00	413.48
Lexington-Fayette .....	39.4	38.9	39.7	10.25	10.51	10.62	403.85	408.84	421.61
Louisville .....	41.4	41.6	40.5	11.72	11.74	11.79	485.21	488.38	477.50
<b>Louisiana</b> .....	42.6	41.3	41.7	10.84	11.25	11.13	461.78	464.63	464.12
Baton Rouge .....	42.6	42.2	42.2	12.63	12.76	13.02	538.04	538.47	549.44
New Orleans .....	41.7	40.4	41.3	10.44	10.90	10.89	435.35	440.36	449.76
Shreveport .....	40.9	39.8	41.2	11.55	11.95	11.44	472.40	475.61	471.33
<b>Maine</b> .....	41.7	40.2	40.1	9.01	9.69	9.62	375.72	389.54	385.76
Lewiston-Auburn .....	41.4	39.8	39.8	7.75	8.20	8.01	320.85	326.36	318.80
Portland .....	42.5	39.0	40.1	9.41	10.57	10.32	399.93	412.23	413.83
<b>Maryland</b> .....	40.8	41.2	41.3	10.30	10.78	10.88	420.24	444.14	449.34
Baltimore MSA .....	42.0	41.3	41.6	11.09	11.37	11.48	465.78	469.58	477.57
<b>Massachusetts</b> .....	41.5	41.4	41.4	10.23	10.56	10.62	424.55	437.18	439.67
Boston .....	41.5	41.1	41.3	10.85	11.28	11.31	450.28	463.61	467.10
Springfield .....	43.0	42.7	42.4	9.51	9.84	9.90	408.93	420.17	419.76
Worcester .....	40.7	41.5	41.6	10.27	10.65	10.67	417.99	441.98	443.87
<b>Michigan</b> .....	42.8	43.9	44.0	13.36	13.60	13.66	571.81	597.04	601.04
Ann Arbor .....	44.9	45.8	45.5	14.30	14.25	14.23	642.07	652.65	647.46
Battle Creek .....	41.8	42.3	42.2	13.66	14.12	14.24	570.99	597.28	600.93
Detroit .....	44.0	44.4	44.5	14.22	14.54	14.62	625.68	645.58	650.59
Flint .....	42.6	45.9	45.8	16.51	17.32	17.33	703.33	794.99	793.71
Grand Rapids .....	40.8	41.6	41.9	11.38	11.66	11.77	464.30	485.06	493.16
Jackson .....	42.6	43.2	42.5	10.01	10.57	10.80	426.43	456.62	459.00
Kalamazoo .....	42.6	42.8	42.3	12.22	12.74	12.93	520.57	545.27	546.94
Lansing-East Lansing .....	44.0	44.8	47.2	14.58	14.63	14.84	641.52	655.42	700.45
Muskegon .....	40.1	40.9	41.2	12.01	12.33	12.41	481.60	504.30	511.29
Saginaw-Bay City-Midland .....	43.0	44.9	44.3	15.11	15.47	15.47	649.73	694.60	685.32
<b>Minnesota</b> .....	40.3	40.1	40.5	10.50	10.76	10.80	423.15	431.48	437.40
Duluth .....	38.9	36.9	36.7	10.99	11.23	11.10	427.51	414.39	407.37
Minneapolis-St. Paul .....	40.6	40.4	40.6	11.14	11.35	11.40	452.28	458.54	462.84
St. Cloud .....	39.4	37.3	37.3	9.77	9.96	9.77	384.94	371.51	364.42
<b>Mississippi</b> .....	40.1	39.7	40.2	7.75	7.98	8.02	310.78	316.81	322.40
Jackson .....	40.3	40.1	40.0	8.83	9.09	9.04	355.85	364.51	361.60
<b>Missouri</b> .....	40.5	40.7	40.1	10.16	10.39	10.36	411.48	422.87	415.44
Kansas City .....	40.7	41.0	40.5	11.57	11.34	11.49	470.90	464.94	465.35
St. Louis .....	41.3	41.5	40.5	11.69	12.12	12.01	482.80	502.98	486.41
Springfield .....	39.9	40.0	38.7	8.48	8.60	8.69	338.35	344.00	336.30
<b>Montana</b> .....	38.7	39.2	39.8	10.45	10.91	10.83	404.42	427.67	431.03
<b>Nebraska</b> .....	39.7	40.1	40.3	9.39	9.53	9.52	372.78	382.15	383.66
Lincoln .....	41.3	39.7	40.0	9.94	10.24	10.03	410.52	406.53	401.20
Omaha .....	41.1	41.1	41.3	10.18	10.27	10.26	418.40	422.10	423.74
<b>Nevada</b> .....	39.8	40.3	41.0	10.23	10.19	10.04	407.15	410.66	411.64
Las Vegas .....	40.1	41.6	42.1	12.54	12.89	12.99	502.85	536.22	546.88
<b>New Hampshire</b> .....	40.8	41.2	41.3	9.48	9.97	10.06	386.78	410.76	415.48
Manchester .....	39.9	40.2	39.9	9.90	10.12	10.28	395.01	406.82	410.17
Nashua .....	40.5	41.3	40.4	11.42	11.75	12.08	462.51	485.28	488.03
Portsmouth-Dover-Rochester .....	41.1	40.7	41.3	9.24	9.62	9.72	379.76	391.53	401.44

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. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>a</sup>
<b>New Jersey</b> .....	41.4	41.2	41.3	\$10.74	\$11.15	\$11.18	\$444.64	\$459.38	\$461.73
<b>New Mexico</b> .....	41.2	39.4	41.2	8.73	8.79	8.56	359.68	346.33	352.67
Albuquerque .....	40.8	39.5	40.8	9.27	9.47	9.21	378.22	374.07	375.77
<b>New York</b> .....	39.9	40.0	40.0	10.28	10.61	10.62	410.17	424.40	424.80
Albany-Schenectady-Troy .....	40.1	41.1	40.7	10.63	11.11	11.23	434.28	456.62	457.06
Binghamton .....	41.1	40.7	40.3	9.46	9.78	9.75	388.81	398.05	392.93
Buffalo .....	43.0	41.9	42.3	12.13	12.70	12.82	521.59	532.13	542.29
Elmira .....	41.5	42.2	41.5	9.81	9.91	9.97	407.12	418.20	413.76
Nassau-Suffolk .....	39.8	39.8	39.9	11.00	11.71	11.53	437.80	466.06	460.05
New York PMSA .....	37.5	37.5	37.4	9.67	9.88	9.96	362.63	370.50	372.50
New York City .....	37.3	37.2	37.0	9.48	9.72	9.84	353.60	361.58	364.08
Niagara Falls .....	42.3	41.8	41.3	13.29	13.93	13.85	562.17	582.27	572.01
Orange County .....	40.0	38.5	38.5	8.02	8.74	8.74	320.80	336.49	336.49
Poughkeepsie .....	41.0	40.3	40.5	9.76	10.45	10.52	400.16	421.14	426.06
Rochester .....	42.7	43.0	42.7	12.40	12.50	12.46	529.48	537.50	532.04
Rockland County .....	37.4	38.2	37.4	10.54	10.81	10.78	394.20	412.94	403.17
Syracuse .....	42.0	41.7	41.5	11.48	12.28	12.30	482.16	512.08	510.45
Utica-Rome .....	41.1	40.9	40.9	9.68	9.77	9.69	397.85	399.59	396.32
Westchester County .....	39.6	41.2	41.3	10.92	11.04	10.66	432.43	454.85	448.52
<b>North Carolina</b> .....	40.4	39.9	40.3	8.04	8.33	8.37	324.82	332.37	337.31
Asheville .....	41.1	41.3	41.7	8.08	8.29	8.29	332.09	342.38	345.69
Charlotte-Gastonia-Rock Hill .....	40.7	40.3	41.0	8.32	8.73	8.73	338.62	351.82	357.93
Greensboro-Winston-Salem-High Point .....	40.1	38.5	39.2	8.85	9.14	9.11	354.89	351.89	357.11
Raleigh-Durham .....	41.5	41.0	40.1	9.06	9.26	9.32	375.99	379.66	373.73
<b>North Dakota</b> .....	38.2	39.2	39.2	8.25	8.54	8.58	315.15	334.77	336.34
Fargo-Moorhead .....	37.6	39.6	39.5	8.26	8.52	8.62	310.58	337.39	340.49
<b>Ohio</b> .....	42.7	43.0	42.9	11.91	12.21	12.23	508.56	525.03	524.67
Akron .....	43.2	42.4	42.6	11.46	11.40	11.43	495.07	483.36	486.92
Canton .....	43.0	42.7	42.6	11.36	11.52	11.66	488.48	491.90	496.72
Cincinnati .....	42.0	43.0	42.3	10.80	11.47	11.46	453.60	493.21	484.76
Cleveland .....	43.5	43.4	43.4	11.73	12.00	11.99	510.26	520.80	520.37
Columbus .....	41.3	41.5	41.6	11.49	11.85	11.84	474.54	491.78	492.54
Dayton-Springfield .....	43.2	43.6	43.5	12.48	12.98	13.01	539.14	565.93	565.94
Toledo .....	43.1	44.7	44.6	13.19	13.39	13.39	568.49	598.53	597.19
Youngstown-Warren .....	41.6	42.9	43.5	13.41	13.68	13.72	557.86	586.87	596.82
<b>Oklahoma</b> .....	40.5	41.1	40.5	10.21	10.55	10.68	413.51	433.61	432.54
Oklahoma City .....	40.4	41.7	42.1	11.35	11.70	11.65	458.54	487.89	490.47
Tulsa .....	41.4	41.2	40.1	10.77	10.59	10.74	445.88	436.31	430.67
<b>Oregon</b> .....	39.0	38.0	39.3	10.70	10.75	10.77	417.30	408.50	423.26
Eugene-Springfield .....	40.3	36.2	40.1	10.57	10.85	10.87	425.97	392.77	435.89
Portland .....	39.6	38.9	39.5	10.94	10.77	10.89	433.22	418.95	430.16
Salem .....	38.4	36.4	38.3	9.45	9.59	9.48	362.88	349.08	363.08
<b>Pennsylvania</b> .....	40.8	40.6	40.5	10.14	10.48	10.52	413.71	425.49	426.06
Allentown-Bethlehem .....	40.5	39.5	39.2	10.32	10.57	10.56	417.96	417.52	413.95
Altoona .....	40.4	39.8	39.8	8.67	9.24	9.23	350.27	367.75	367.35
Beaver County .....	42.3	43.4	43.6	10.58	10.69	10.75	447.53	463.95	468.70
Erie .....	42.8	42.6	41.8	10.40	10.66	10.70	445.12	454.12	447.26
Harrisburg-Lebanon-Carlisle .....	39.8	39.9	39.5	9.36	9.80	9.78	372.53	391.02	386.31
Johnstown .....	39.6	40.0	39.3	8.51	8.47	8.46	337.00	338.80	332.48
Lancaster .....	40.1	40.4	40.1	9.91	10.49	10.67	397.39	423.80	427.87
Philadelphia PMSA .....	40.3	40.2	40.2	11.03	11.60	11.65	444.51	466.32	468.33
Pittsburgh .....	41.6	42.3	41.9	11.20	11.34	11.30	465.92	479.68	473.47

See footnotes at end of table.

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

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

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	40.7	41.0	40.6	\$10.54	\$11.11	\$11.17	\$428.98	\$455.51	\$453.50
Scranton—Wilkes-Barre .....	38.8	38.7	38.8	8.81	9.05	9.07	341.83	350.24	351.92
Williamsport .....	41.7	38.4	39.4	8.85	9.33	9.39	369.05	358.27	369.97
York .....	42.3	41.8	41.8	9.62	10.10	10.19	406.93	422.18	425.94
<b>Rhode Island</b> .....	39.9	39.1	39.1	8.39	8.88	9.01	334.76	351.12	352.29
Pawtucket—Woonsocket—Attleboro .....	40.6	39.7	40.1	7.96	8.57	8.59	323.18	340.23	344.46
Providence .....	39.3	38.6	38.7	8.43	8.63	8.65	331.30	333.12	334.76
<b>South Carolina</b> .....	41.6	41.3	41.3	8.26	8.48	8.52	343.62	350.22	351.88
Charleston .....	41.5	41.2	41.4	9.18	9.28	9.35	380.97	382.34	387.09
Columbia .....	41.2	41.8	41.6	8.28	8.66	8.70	341.14	361.99	361.92
Greenville—Spartanburg .....	41.8	41.0	41.0	8.21	8.38	8.42	341.54	342.76	345.22
<b>South Dakota</b> .....	41.1	42.0	41.2	7.99	8.25	8.17	328.39	346.50	336.60
Sioux Falls .....	44.3	41.8	43.8	8.26	8.34	8.25	365.92	348.61	361.35
<b>Tennessee</b> .....	41.9	40.8	41.4	8.85	9.21	9.21	370.82	375.77	381.29
Chattanooga .....	43.1	41.7	41.1	7.87	8.16	8.17	339.20	340.27	335.79
Johnson City—Kingsport—Bristol .....	43.8	42.6	44.1	9.40	9.61	9.68	411.72	409.39	426.89
Knoxville .....	41.0	39.1	39.6	8.97	9.04	9.03	367.77	353.46	357.59
Memphis .....	44.2	42.7	42.9	8.89	9.31	9.37	392.94	397.54	401.97
Nashville .....	41.5	40.7	41.7	10.38	10.78	10.72	430.77	438.75	447.02
<b>Texas</b> .....	41.8	41.1	41.7	9.88	10.10	10.17	412.98	415.11	424.09
Dallas .....	41.4	40.7	41.5	9.77	10.07	10.08	404.48	409.85	418.32
Ft. Worth—Arlington .....	41.2	41.3	41.2	10.48	10.72	10.86	431.78	442.74	447.43
Houston .....	44.0	42.7	43.9	11.19	11.75	11.80	492.36	501.73	518.02
San Antonio .....	39.6	38.4	38.8	7.53	7.58	7.54	298.19	291.07	292.55
<b>Utah</b> .....	39.7	39.5	39.4	9.92	10.01	9.96	393.82	395.40	392.42
Salt Lake City—Ogden .....	39.9	40.5	40.3	9.88	9.96	9.86	394.21	403.38	397.36
<b>Vermont</b> .....	40.7	41.0	41.2	9.29	9.76	9.87	378.10	400.16	406.64
Burlington .....	41.3	40.9	41.3	9.63	10.49	10.29	397.72	429.04	424.98
<b>Virginia</b> .....	40.9	40.2	40.4	9.35	9.52	9.55	382.42	382.70	385.82
Bristol .....	42.9	41.3	41.5	7.89	7.75	7.97	338.48	320.08	330.76
Charlottesville .....	40.0	41.2	40.0	7.87	7.82	7.95	306.80	322.18	318.00
Danville .....	41.5	40.3	40.4	8.64	8.60	8.72	358.56	346.58	352.29
Lynchburg .....	40.7	42.1	41.5	8.62	9.21	9.18	350.83	387.74	380.97
Northern Virginia .....	40.2	39.5	40.0	10.36	10.81	10.90	416.47	427.00	436.00
Richmond—Petersburg .....	41.4	41.4	41.7	11.87	12.37	12.29	491.42	512.12	512.49
Roanoke .....	40.2	40.5	40.2	9.30	9.70	9.48	373.86	392.85	381.10
<b>Washington</b> .....	40.2	39.8	40.7	11.74	12.17	12.19	471.95	484.37	496.13
<b>West Virginia</b> .....	40.9	41.1	41.2	10.52	10.97	10.88	430.27	450.87	448.26
Charleston .....	42.7	44.8	44.4	13.35	13.81	13.68	570.05	609.73	607.39
Huntington—Ashland .....	41.5	40.9	43.2	11.88	12.38	12.99	493.02	506.34	561.17
Parkersburg—Marietta .....	41.9	42.4	42.7	12.40	12.81	12.99	519.56	543.14	554.67
Wheeling .....	40.8	40.2	40.3	11.72	12.21	12.19	478.18	490.84	491.26
<b>Wisconsin</b> .....	41.5	41.5	41.5	10.64	10.76	10.74	441.56	446.54	445.71
Appleton—Oshkosh .....	43.4	43.0	43.5	11.22	11.67	11.66	486.95	501.81	507.21
Eau Claire .....	40.0	42.0	40.7	10.99	10.36	10.40	439.60	435.12	423.28
Green Bay .....	41.1	41.1	39.5	11.51	11.43	11.50	473.06	469.77	454.25
Janesville—Beloit .....	39.9	44.4	44.3	12.32	13.23	13.20	491.57	587.41	584.78
Kenosha .....	41.5	41.3	41.7	12.96	12.64	12.63	537.84	522.03	526.67
La Crosse .....	38.5	39.9	40.0	9.16	9.80	9.86	352.66	391.02	394.40
Madison .....	41.4	41.2	40.9	10.20	10.06	10.04	422.28	414.47	410.64
Milwaukee .....	41.7	41.4	41.3	11.56	11.60	11.56	482.05	480.24	477.43
Racine .....	40.8	39.2	39.4	10.97	10.79	10.86	447.58	422.97	427.88
Wausau .....	41.7	40.5	42.0	10.10	10.21	10.18	421.17	413.51	427.58
<b>Wyoming</b> .....	36.7	37.2	38.9	9.62	10.15	9.91	353.05	377.58	385.50
<b>Puerto Rico</b> .....	39.3	39.8	40.1	5.46	5.65	5.69	214.57	224.87	228.17
<b>Virgin Islands</b> .....	39.9	41.5	42.5	9.61	10.38	10.54	383.44	430.77	447.95

<sup>1</sup> Not available.  
<sup>p</sup> = preliminary.  
NOTE: Area definitions are published annually in the May issue of this

publication. All State and area data have been adjusted to March 1988 benchmarks.

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Feb. 1989 <sup>r</sup>	Mar. 1989 <sup>r</sup>	Apr. 1989 <sup>p</sup>	Apr. 1988 to Apr. 1989 <sup>p</sup>	Feb. 1989 to Mar. 1989 <sup>r</sup>	Mar. 1989 to Apr. 1989 <sup>p</sup>
Total .....	201,421	201,304	202,858	3.3	-0.1	0.8
Private sector .....	165,661	165,954	167,476	3.7	.2	.9
Mining .....	1,534	1,565	1,626	-9	2.0	3.9
Construction .....	10,720	10,774	10,731	4.1	.5	-4
Manufacturing .....	42,175	42,098	42,201	1.7	-.2	.2
Durable goods .....	25,172	25,089	25,152	1.6	-.3	.3
Nondurable goods .....	17,004	17,008	17,049	1.7	.0	.2
Transportation and public utilities .....	11,695	11,709	11,810	3.9	.1	.9
Wholesale trade .....	12,589	12,614	12,716	4.8	.2	.8
Retail trade .....	29,507	29,577	29,779	3.1	.2	.7
Finance, insurance, and real estate .....	12,591	12,593	12,795	2.0	.0	1.6
Services .....	44,850	45,024	45,817	6.1	.4	1.8
Government .....	35,760	35,350	35,382	1.7	-1.1	.1

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

<sup>p</sup> = preliminary.

<sup>r</sup> = revised.

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

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

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

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

(1977=100)

Item	Annual average		Quarterly index										
	1987	1988 <sup>1</sup>	1986		1987				1988				1989
			III	IV	I	II	III	IV	I	II	III	IV <sup>1</sup>	P <sup>2</sup>
<b>Business sector</b>													
Output per hour of all persons .....	111.0	112.2	110.0	109.8	109.9	110.8	111.7	111.8	112.8	111.8	112.3	112.0	113.0
Output .....	133.3	139.4	128.5	129.3	130.5	132.2	134.3	136.2	138.0	138.8	139.8	140.9	143.2
Hours .....	120.1	124.9	116.8	117.8	118.8	119.5	120.9	121.8	122.3	124.1	124.5	125.8	128.8
Compensation per hour .....	190.4	199.4	184.0	186.2	187.3	189.0	191.1	194.0	195.8	198.1	201.1	203.2	206.0
Real compensation per hour .....	101.5	102.1	101.6	102.1	101.4	101.1	101.3	101.9	101.9	102.0	102.4	102.3	102.4
Unit labor costs .....	171.5	177.8	167.3	169.6	170.5	170.8	171.1	173.5	173.5	177.1	179.0	181.4	182.3
Unit nonlabor payments .....	168.7	172.0	166.6	163.7	165.6	168.7	171.5	168.9	170.0	170.4	172.7	174.8	177.0
Implicit price deflator .....	170.5	175.7	167.0	167.5	168.7	170.1	171.2	171.9	172.3	174.7	176.8	179.0	180.4
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	109.0	110.6	108.0	107.8	107.8	108.8	109.6	109.9	110.8	110.1	110.7	110.9	111.1
Output .....	133.0	139.9	128.1	128.8	130.1	131.9	134.1	136.0	137.9	139.2	140.5	142.1	143.4
Hours .....	122.1	126.8	118.6	119.5	120.7	121.5	122.3	123.8	124.4	126.4	126.9	128.1	129.1
Compensation per hour .....	189.4	198.0	183.1	185.4	186.4	187.9	190.0	192.9	194.6	196.6	199.4	201.9	204.8
Real compensation per hour .....	101.0	101.4	101.2	101.7	100.9	100.5	100.7	101.4	101.3	101.3	101.5	101.7	101.8
Unit labor costs .....	173.8	179.1	169.5	172.1	172.9	173.0	173.3	175.6	175.7	178.8	180.2	182.0	184.3
Unit nonlabor payments .....	170.2	173.9	168.1	164.9	167.2	169.8	173.0	170.9	171.6	171.8	173.9	177.9	177.8
Implicit price deflator .....	172.5	177.3	169.0	169.5	170.9	171.9	173.2	174.0	174.2	176.2	178.0	180.8	182.0
<b>Manufacturing</b>													
Output per hour of all persons .....	132.0	136.2	128.0	128.8	130.0	131.7	132.8	133.2	134.3	135.5	137.2	137.8	139.0
Output .....	130.1	136.1	124.8	125.9	127.2	128.7	131.1	133.5	135.0	136.9	139.3	141.1	142.7
Hours .....	98.6	101.4	97.4	97.7	97.8	97.7	98.8	100.2	100.6	101.1	101.5	102.4	102.6
Compensation per hour .....	186.9	193.5	183.6	185.3	185.9	186.3	187.2	188.2	190.7	192.1	194.4	196.8	198.8
Real compensation per hour .....	99.7	99.1	101.4	101.7	100.7	99.7	99.3	98.9	99.3	99.0	99.0	99.1	98.8
Unit labor costs .....	141.7	142.1	143.4	143.8	143.1	141.4	141.0	141.3	142.1	141.8	141.6	142.9	143.0
<b>Durable goods</b>													
Output per hour of all persons .....	138.5	143.2	133.9	135.1	136.8	138.1	139.1	140.0	141.3	142.7	144.2	144.6	145.9
Output .....	138.0	145.0	130.7	131.8	133.3	134.2	136.5	139.9	141.3	144.0	146.4	148.3	149.8
Hours .....	98.2	101.3	97.6	97.6	97.6	97.2	98.2	99.9	100.0	100.9	101.5	102.6	102.7
Compensation per hour .....	185.2	191.7	182.2	184.2	184.9	184.4	185.3	186.2	189.5	190.1	192.3	194.8	197.0
Real compensation per hour .....	98.8	98.2	100.7	101.1	100.1	98.7	98.3	97.8	98.7	97.9	97.9	98.1	97.9
Unit labor costs .....	133.7	133.9	136.0	136.4	135.3	133.5	133.2	133.0	134.1	133.3	133.4	134.7	135.0
<b>Nondurable goods</b>													
Output per hour of all persons .....	122.3	125.8	119.2	119.6	120.1	122.4	123.5	123.2	123.9	124.8	126.9	127.5	128.8
Output .....	121.4	127.8	115.9	117.0	118.0	120.5	123.1	124.0	125.6	126.4	128.8	130.3	132.0
Hours .....	99.3	101.6	97.2	97.9	98.2	98.4	99.7	100.7	101.4	101.3	101.5	102.2	102.5
Compensation per hour .....	190.1	196.8	186.0	187.2	188.0	189.7	190.8	191.9	193.2	195.7	197.9	200.2	202.0
Real compensation per hour .....	101.4	100.8	102.7	102.7	101.8	101.5	101.2	100.8	100.6	100.6	100.8	100.8	100.4
Unit labor costs .....	155.4	156.5	156.0	156.5	156.4	155.0	154.5	155.8	156.0	156.8	156.0	157.0	158.9
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	111.3	112.8	109.6	110.3	110.1	110.9	112.2	112.2	113.3	112.9	112.7	112.7	( <sup>1</sup> )
Output .....	134.6	141.7	128.9	130.4	131.3	133.3	136.1	137.7	140.1	141.2	142.0	143.6	( <sup>1</sup> )
Hours .....	120.9	125.6	117.6	118.1	119.3	120.2	121.3	122.8	123.6	125.0	126.1	127.4	( <sup>1</sup> )
Compensation per hour .....	185.5	193.1	180.2	182.2	182.9	184.3	186.1	188.5	189.9	191.9	194.5	196.8	( <sup>1</sup> )
Real compensation per hour .....	98.9	98.9	99.5	100.0	99.0	98.6	98.7	99.0	98.9	98.8	99.0	99.0	( <sup>1</sup> )
Total unit costs .....	170.6	175.0	168.4	168.8	169.9	170.3	170.2	172.0	171.5	173.8	176.4	178.3	( <sup>1</sup> )
Unit labor costs .....	168.6	171.1	164.3	165.1	166.2	166.1	165.9	168.1	167.5	170.0	172.6	174.4	( <sup>1</sup> )
Unit nonlabor costs .....	182.5	186.5	180.3	179.6	180.8	182.6	183.0	183.6	183.4	185.1	187.6	189.6	( <sup>1</sup> )
Unit profits .....	130.8	132.2	133.6	129.7	128.5	129.6	136.4	128.3	132.5	132.6	129.6	133.9	( <sup>1</sup> )
Implicit price deflator .....	165.6	169.9	164.2	164.1	164.9	165.4	166.1	166.7	168.9	168.8	170.8	172.9	( <sup>1</sup> )

<sup>1</sup> Not available.  
<sup>2</sup> =preliminary.

<sup>r</sup> =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 1987	I 1988	II 1988	III 1988	IV 1988 <sup>1</sup>	I 1989 <sup>p</sup>	IV 1987	I 1988	II 1988	III 1988	IV 1988 <sup>1</sup>	I 1989 <sup>p</sup>
<b>Business sector</b>												
Output per hour of all persons .....	0.6	3.5	-3.4	1.7	-1.0	3.5	1.9	2.7	1.1	0.6	0.2	0.2
Output .....	5.7	5.5	2.4	2.8	3.3	6.7	5.3	5.8	5.0	4.1	3.5	3.8
Hours .....	5.1	1.9	6.0	1.1	4.3	3.1	3.4	3.0	3.9	3.5	3.3	3.6
Compensation per hour .....	6.2	3.7	4.8	6.2	4.3	5.7	4.2	4.5	4.8	5.2	4.7	5.2
Real compensation per hour .....	2.4	.0	.3	1.4	-2	.3	-2	.5	.9	1.0	.4	.4
Unit labor costs .....	5.6	.2	8.5	4.4	5.4	2.1	2.3	1.8	3.7	4.6	4.6	5.1
Unit nonlabor payments .....	-5.8	2.5	1.0	5.3	4.7	5.5	3.2	2.7	1.0	.7	3.4	4.1
Implicit price deflator .....	1.4	1.0	5.8	4.7	5.1	3.3	2.6	2.1	2.7	3.2	4.1	4.7
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	.9	3.4	-2.4	2.0	1.0	.5	1.9	2.8	1.4	1.0	1.0	.2
Output .....	5.9	5.6	4.0	3.5	4.8	3.6	5.6	6.0	5.6	4.7	4.5	4.0
Hours .....	4.9	2.1	6.6	1.5	3.7	3.1	3.6	3.1	4.1	3.8	3.5	3.7
Compensation per hour .....	6.4	3.5	4.2	5.7	5.2	5.7	4.1	4.4	4.6	5.0	4.7	5.2
Real compensation per hour .....	2.6	-.1	-.3	.9	.7	.3	-.3	.4	.7	.8	.3	.4
Unit labor costs .....	5.4	.1	6.8	3.7	4.1	5.2	2.1	1.6	3.2	4.0	3.6	4.9
Unit nonlabor payments .....	-4.8	1.6	.7	4.8	9.6	-.7	3.6	2.6	1.2	.5	4.1	3.5
Implicit price deflator .....	1.8	.6	4.7	4.1	6.0	3.1	2.6	1.9	2.5	2.8	3.8	4.5
<b>Manufacturing</b>												
Output per hour of all persons .....	1.3	3.2	3.7	5.2	1.6	3.8	3.4	3.3	2.8	3.3	3.4	3.6
Output .....	7.5	4.6	5.8	7.1	5.1	4.6	6.0	6.2	6.4	6.2	5.6	5.7
Hours .....	6.1	1.3	2.0	1.8	3.5	.8	2.6	2.8	3.4	2.8	2.2	2.0
Compensation per hour .....	2.1	5.4	3.0	4.8	5.1	4.1	1.6	2.6	3.2	3.8	4.6	4.2
Real compensation per hour .....	-1.5	1.8	-1.5	.0	.6	-1.2	-2.7	-1.3	-.7	-.3	.2	-.5
Unit labor costs .....	.8	2.2	-.7	-.5	3.5	.4	-1.8	-.7	.3	.5	1.1	.6
<b>Durable goods</b>												
Output per hour of all persons .....	2.6	3.8	3.8	4.3	1.2	3.6	3.7	3.4	3.3	3.6	3.3	3.2
Output .....	10.2	4.3	7.7	6.8	5.3	4.2	6.1	6.0	7.3	7.2	6.0	6.0
Hours .....	7.3	.4	3.8	2.4	4.1	.5	2.3	2.5	3.8	3.4	2.7	2.7
Compensation per hour .....	1.9	7.1	1.4	4.7	5.3	4.5	1.1	2.5	3.1	3.8	4.6	4.0
Real compensation per hour .....	-1.7	3.4	-3.0	.0	.6	-.9	-3.2	-1.4	-.8	-.3	.3	-.8
Unit labor costs .....	-.7	3.2	-2.3	.5	4.0	.8	-2.5	-.9	-.2	.1	1.3	.7
<b>Nondurable goods</b>												
Output per hour of all persons .....	-1.1	2.3	3.2	6.8	2.0	4.0	3.0	3.1	2.0	2.7	3.5	4.0
Output .....	3.1	5.1	2.7	7.7	4.8	5.3	6.0	6.4	4.9	4.6	5.0	5.1
Hours .....	4.2	2.7	-.5	.9	2.7	1.2	2.9	3.2	2.9	1.8	1.4	1.1
Compensation per hour .....	2.2	2.9	5.2	4.6	4.7	3.7	2.5	2.8	3.2	3.7	4.3	4.5
Real compensation per hour .....	-1.4	-.7	.6	-.1	.2	-1.7	-1.8	-1.1	-.7	-.4	.0	-.2
Unit labor costs .....	3.4	.6	2.0	-2.0	2.6	-.4	-.5	-.3	1.1	1.0	.8	.5
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-.1	4.3	-1.6	-.8	.2	( <sup>1</sup> )	1.6	3.0	1.8	.4	.5	( <sup>1</sup> )
Output .....	4.7	7.2	3.0	2.5	4.5	( <sup>1</sup> )	5.6	6.7	5.9	4.3	4.3	( <sup>1</sup> )
Hours .....	4.8	2.8	4.7	3.3	4.2	( <sup>1</sup> )	3.9	3.6	4.1	3.9	3.7	( <sup>1</sup> )
Compensation per hour .....	5.2	3.0	4.2	5.5	4.6	( <sup>1</sup> )	3.4	3.8	4.1	4.5	4.3	( <sup>1</sup> )
Real compensation per hour .....	1.5	-.6	-.3	.8	.1	( <sup>1</sup> )	-.9	-.2	.2	.3	.0	( <sup>1</sup> )
Total unit costs .....	4.2	-1.0	5.3	6.3	4.2	( <sup>1</sup> )	1.9	1.0	2.1	3.7	3.7	( <sup>1</sup> )
Unit labor costs .....	5.3	-1.2	5.9	6.4	4.3	( <sup>1</sup> )	1.8	.8	2.3	4.0	3.8	( <sup>1</sup> )
Unit nonlabor costs .....	1.3	-.3	3.7	6.1	3.8	( <sup>1</sup> )	2.2	1.5	1.4	2.7	3.3	( <sup>1</sup> )
Unit profits .....	-21.5	13.8	.3	-8.9	14.1	( <sup>1</sup> )	-1.1	3.1	2.2	-5.0	4.3	( <sup>1</sup> )
Implicit price deflator .....	1.5	.3	4.8	4.8	5.0	( <sup>1</sup> )	1.6	1.2	2.1	2.8	3.7	( <sup>1</sup> )

<sup>1</sup> Not available.  
<sup>p</sup> = preliminary.

(<sup>1</sup>) = 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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Alabama</b> .....	1,859.4	1,888.9	1,907.5	126.4	144.9	139.8	6.8	7.7	7.3
Birmingham .....	434.4	438.2	443.6	24.8	26.3	25.7	5.7	6.0	5.8
Huntsville .....	129.6	133.9	134.8	6.1	7.1	6.7	4.7	5.3	5.0
Mobile .....	207.6	210.1	212.1	18.1	20.9	19.5	8.7	10.0	9.2
Montgomery .....	135.1	136.7	138.5	7.8	8.8	8.4	5.8	6.4	6.0
Tuscaloosa .....	69.8	70.9	72.0	3.7	3.8	3.9	5.2	5.4	5.4
<b>Alaska</b> .....	235.8	234.6	232.8	26.2	23.6	22.0	11.1	10.1	9.5
<b>Arizona</b> .....	1,613.0	1,687.1	1,693.0	93.9	100.1	97.8	5.8	5.9	5.8
Phoenix .....	1,001.6	1,043.1	1,047.7	48.9	50.8	50.5	4.9	4.9	4.8
Tucson .....	304.5	319.4	320.3	14.9	16.3	15.8	4.9	5.1	4.9
<b>Arkansas</b> .....	1,117.9	1,134.5	1,146.1	96.3	93.1	86.4	8.6	8.2	7.5
Fayetteville-Springdale .....	61.6	62.5	63.1	2.8	2.8	2.4	4.5	4.4	3.8
Fort Smith .....	92.4	92.6	92.5	6.1	7.7	7.3	6.7	8.3	7.9
Little Rock-North Little Rock .....	264.7	270.5	271.6	19.1	17.1	16.7	7.2	6.3	6.2
Pine Bluff .....	37.6	38.1	38.5	3.4	3.3	3.1	9.2	8.5	8.2
<b>California<sup>1</sup></b> .....	13,885.4	14,083.2	14,091.7	736.0	774.2	657.5	5.3	5.5	4.7
Anaheim-Santa Ana .....	1,308.7	1,363.7	1,368.5	38.2	41.3	34.9	2.9	3.0	2.5
Bakersfield .....	221.9	229.3	229.7	26.1	28.1	26.1	12.0	12.3	11.4
Fresno .....	285.2	301.6	295.8	37.8	37.9	34.2	13.3	12.6	11.6
Los Angeles-Long Beach .....	4,373.0	4,139.1	4,132.9	193.0	182.1	151.9	4.4	4.4	3.7
Modesto .....	148.9	158.3	156.2	20.1	22.1	18.9	13.5	13.9	12.1
Oakland .....	1,031.0	1,081.8	1,084.0	47.8	48.3	41.5	4.6	4.5	3.8
Oxnard-Ventura .....	338.1	355.4	356.8	15.6	18.9	14.0	4.6	5.3	3.9
Riverside-San Bernardino .....	920.7	949.7	957.3	49.2	57.1	45.4	5.3	6.0	4.7
Sacramento .....	672.3	715.7	716.6	36.8	40.0	34.7	5.5	5.6	4.8
San Diego .....	1,074.0	1,135.7	1,144.3	44.9	45.2	37.9	4.2	4.0	3.3
San Francisco .....	849.8	879.1	882.7	29.8	30.1	26.2	3.5	3.4	3.0
San Jose .....	813.9	843.3	843.9	32.6	33.2	29.5	4.0	3.9	3.5
Santa Barbara-Santa Maria-Lompoc .....	173.7	179.2	178.5	8.5	8.8	7.3	4.9	4.9	4.1
Santa Rosa-Petaluma .....	186.5	192.2	191.5	8.9	10.1	8.5	4.8	5.3	4.4
Stockton .....	187.2	193.8	192.9	19.7	22.6	19.4	10.5	11.6	10.1
Vallejo-Fairfield-Napa .....	181.3	191.0	193.2	10.4	10.6	9.7	5.7	5.6	5.0
<b>Colorado</b> .....	1,687.7	1,677.2	1,659.5	125.4	125.5	121.9	7.4	7.5	7.3
Boulder-Longmont .....	129.6	129.6	127.4	7.1	7.6	7.5	5.5	5.9	5.9
Denver .....	871.1	862.1	848.7	58.6	58.3	56.8	6.7	6.8	6.7
<b>Connecticut</b> .....	1,728.1	1,713.3	1,757.1	50.1	59.4	53.2	2.9	3.5	3.0
Bridgeport-Milford .....	229.5	226.2	231.5	8.3	10.1	9.1	3.6	4.5	3.9
Hartford .....	421.1	417.5	427.8	11.0	13.1	11.8	2.6	3.1	2.8
New Britain .....	71.7	70.7	72.6	2.3	2.9	2.8	3.2	4.1	3.6
New Haven-Meriden .....	270.6	269.6	277.0	7.3	8.8	7.7	2.7	3.2	2.8
Stamford .....	113.4	111.9	114.7	2.3	2.4	2.1	2.0	2.1	1.9
Waterbury .....	99.3	99.6	102.0	4.0	4.5	4.0	4.0	4.5	3.9
<b>Delaware</b> .....	345.5	351.8	353.5	13.6	12.4	13.1	3.9	3.5	3.7
Wilmington .....	301.1	303.9	305.2	13.0	11.1	11.6	4.3	3.7	3.8
<b>District of Columbia</b> .....	335.6	332.1	329.6	17.4	20.1	18.6	5.2	6.1	5.7
Washington .....	2,182.3	2,207.1	2,214.7	62.3	65.6	62.1	2.9	3.0	2.8
<b>Florida<sup>1</sup></b> .....	6,052.1	6,013.4	6,161.3	267.1	311.5	290.3	4.7	5.2	4.7
Daytona Beach .....	152.1	150.2	153.7	6.5	8.0	7.1	4.3	5.3	4.6
Fort Lauderdale-Hollywood-Pompano Beach .....	631.2	625.6	640.0	25.3	29.9	29.0	4.0	4.8	4.5
Fort Myers-Cape Coral .....	139.8	143.7	148.0	4.6	5.0	4.5	3.3	3.5	3.0
Jacksonville .....	448.9	442.7	452.7	24.2	24.1	22.5	5.4	5.5	5.0
Melbourne-Titusville-Palm Bay .....	180.7	180.9	183.6	8.4	9.4	7.9	4.7	5.2	4.3
Miami-Hialeah .....	938.7	921.2	944.2	47.8	51.2	53.7	5.1	5.6	5.7
Orlando .....	570.0	565.7	585.4	24.8	27.6	26.3	4.4	4.9	4.5
Pensacola .....	147.1	141.7	144.2	9.0	9.5	8.3	6.1	6.7	5.7
Sarasota .....	121.9	120.8	124.9	4.0	4.1	3.9	3.3	3.4	3.1
Tallahassee .....	127.1	125.8	130.1	4.5	5.1	4.8	3.6	4.1	3.7
Tampa-St. Petersburg-Clearwater .....	990.0	974.7	995.5	44.4	47.7	41.9	4.5	4.9	4.2
West Palm Beach-Boca Raton-Delray Beach .....	405.8	417.2	432.0	17.7	20.4	20.1	4.4	4.9	4.6

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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Georgia</b> .....	3,146.5	3,243.1	3,252.4	183.6	169.8	171.2	5.8	5.2	5.3
Athens .....	74.0	77.0	77.4	3.1	3.0	3.0	4.2	3.9	3.9
Atlanta .....	1,493.9	1,525.0	1,527.7	74.0	71.6	77.6	5.0	4.7	5.1
Augusta .....	180.6	182.8	184.0	11.0	10.2	10.0	6.1	5.6	5.5
Columbus .....	101.4	101.6	101.9	7.1	5.6	5.2	7.0	5.5	5.1
Macon-Warner Robins .....	129.7	133.7	134.3	7.4	6.2	6.3	5.7	4.7	4.7
Savannah .....	114.0	113.9	113.0	8.1	6.1	5.7	7.1	5.3	5.0
<b>Hawaii</b> .....	516.8	514.5	513.8	15.5	17.5	17.6	3.0	3.4	3.4
Honolulu .....	384.2	379.7	379.1	10.5	11.3	11.3	2.7	3.0	3.0
<b>Idaho</b> .....	460.2	485.3	481.6	36.3	34.2	31.5	7.9	7.1	6.5
Boise City .....	104.2	112.6	111.9	4.9	4.9	4.2	4.7	4.4	3.8
<b>Illinois</b> <sup>1</sup> .....	5,652.2	5,902.6	5,894.1	438.5	359.4	362.8	7.8	6.1	6.2
Aurora-Elgin .....	173.3	184.6	185.7	10.8	10.0	9.7	6.3	5.4	5.2
Bloomington-Normal .....	68.8	71.8	71.8	4.5	3.2	3.4	6.6	4.5	4.7
Champaign-Urbana-Rantoul .....	89.1	93.7	93.4	4.2	3.9	4.1	4.7	4.2	4.4
Chicago .....	3,109.1	3,239.5	3,244.8	214.6	173.1	179.0	6.9	5.3	5.5
Davenport-Rock Island-Moline .....	178.6	183.3	181.8	14.5	12.0	11.8	8.1	6.5	6.5
Decatur .....	57.8	60.4	60.2	5.6	4.6	4.7	9.6	7.7	7.8
Joliet .....	192.8	198.9	198.5	17.2	13.9	13.9	8.9	7.0	7.0
Kankakee .....	43.9	45.3	45.2	5.1	4.0	3.9	11.5	8.8	8.5
Lake County .....	263.8	286.7	286.9	12.8	11.5	11.4	4.8	4.0	4.0
Peoria .....	152.0	160.1	158.7	11.6	10.1	9.5	7.6	6.3	6.0
Rockford .....	147.5	150.5	150.2	12.6	9.3	9.2	8.5	6.2	6.1
Springfield .....	107.0	111.7	111.3	6.4	5.9	5.7	6.0	5.3	5.1
<b>Indiana</b> .....	2,791.1	2,822.2	2,852.0	195.3	155.9	145.3	7.0	5.5	5.1
Anderson .....	60.0	59.9	60.2	4.7	3.7	3.2	7.8	6.2	5.3
Bloomington .....	60.2	64.2	62.9	2.6	2.6	2.0	4.4	4.0	3.2
Elkhart-Goshen .....	95.4	97.8	98.3	4.7	4.1	3.9	5.0	4.2	4.0
Evansville .....	142.5	144.4	145.3	11.4	9.4	8.5	8.0	6.5	5.8
Fort Wayne .....	197.2	200.3	202.6	11.9	9.5	9.0	6.0	4.7	4.4
Gary-Hammond .....	257.4	258.6	261.9	23.2	16.2	15.6	9.0	6.3	5.9
Indianapolis .....	663.6	677.0	686.3	37.3	30.0	28.8	5.6	4.4	4.2
Lafayette-West Lafayette .....	66.2	68.6	68.3	2.5	2.3	2.1	3.8	3.4	3.1
Muncie .....	61.2	61.2	61.7	4.7	3.4	3.2	7.6	5.6	5.2
South Bend-Mishawaka .....	130.5	132.0	133.5	7.5	6.4	6.0	5.8	4.9	4.5
Terre Haute .....	60.7	59.7	60.4	5.1	3.7	3.5	8.5	6.2	5.8
<b>Iowa</b> .....	1,470.9	1,514.3	1,512.9	81.5	70.5	67.8	5.5	4.7	4.5
Cedar Rapids .....	94.9	98.2	97.2	4.5	3.7	3.6	4.8	3.8	3.7
Des Moines .....	227.3	238.0	236.9	9.7	9.1	8.8	4.3	3.8	3.7
Dubuque .....	44.0	45.2	44.6	3.1	3.1	2.8	7.2	6.8	6.3
Sioux City .....	59.5	60.7	60.0	3.9	2.6	2.6	6.6	4.3	4.4
Waterloo-Cedar Falls .....	70.2	73.1	72.6	4.9	3.8	3.7	7.0	5.2	5.1
<b>Kansas</b> .....	1,274.4	1,286.8	1,286.7	61.6	65.5	58.5	4.8	5.1	4.5
Topeka .....	92.7	93.5	93.1	4.3	4.8	4.2	4.7	5.1	4.5
Wichita .....	251.9	259.7	260.6	12.6	12.4	11.6	5.0	4.8	4.4
<b>Kentucky</b> .....	1,654.6	1,701.8	1,704.2	154.1	136.4	134.4	9.3	8.0	7.9
Lexington-Fayette .....	183.9	196.7	196.6	9.5	9.1	9.0	5.2	4.6	4.6
Louisville .....	491.5	503.3	506.7	34.6	31.2	32.3	7.0	6.2	6.4
Owensboro .....	42.5	43.4	43.5	4.1	3.4	3.4	9.8	7.8	7.7
<b>Louisiana</b> .....	1,929.3	1,876.9	1,888.7	223.1	221.8	180.8	11.6	11.8	9.6
Alexandria .....	59.9	58.7	59.1	6.4	6.6	5.5	10.7	11.3	9.3
Baton Rouge .....	271.8	263.9	265.1	25.7	25.2	20.1	9.4	9.5	7.6
Houma-Thibodaux .....	71.7	68.7	69.0	9.2	8.1	6.6	12.9	11.8	9.5
Lafayette .....	100.0	97.2	98.2	10.7	10.2	8.3	10.7	10.5	8.5
Monroe .....	69.8	66.4	69.4	7.8	7.6	6.3	11.2	11.4	9.0
New Orleans .....	597.2	582.3	588.4	57.7	57.2	48.1	9.7	9.8	8.2
Shreveport .....	163.9	157.3	157.8	18.5	18.5	15.0	11.3	11.8	9.5
<b>Maine</b> .....	580.6	594.5	590.3	27.4	27.9	24.8	4.7	4.7	4.2
Lewiston-Auburn .....	41.7	42.1	41.7	2.1	2.2	2.2	4.9	5.3	5.3
Portland .....	124.1	128.7	128.2	2.9	3.3	3.0	2.4	2.6	2.3

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. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>Maryland</b> .....	2,439.3	2,477.8	2,492.7	109.8	103.0	100.3	4.5	4.2	4.0
Baltimore .....	1,175.4	1,184.3	1,192.3	58.1	53.5	52.8	4.9	4.5	4.4
<b>Massachusetts</b> <sup>1</sup> .....	3,165.2	3,162.4	3,156.4	113.6	124.1	128.2	3.6	3.9	4.1
Boston .....	1,572.3	1,567.8	1,557.7	46.7	49.6	51.4	3.0	3.2	3.3
Brockton .....	99.3	99.8	100.2	3.9	4.4	4.6	3.9	4.4	4.6
Fall River .....	78.2	76.4	76.5	5.1	5.3	5.5	6.6	6.9	7.1
Fitchburg-Leominster .....	49.1	47.2	47.8	1.9	2.4	2.8	4.0	5.1	5.3
Lawrence-Haverhill .....	189.8	187.6	188.4	7.7	8.7	8.8	4.1	4.7	4.7
Lowell .....	153.6	155.0	155.4	5.3	6.2	6.4	3.5	4.0	4.1
New Bedford .....	86.6	87.5	87.4	5.2	5.8	5.8	6.0	6.6	6.7
Springfield .....	255.7	252.9	252.1	9.2	10.1	10.3	3.6	4.0	4.1
Worcester .....	224.5	228.7	227.9	7.5	8.1	8.7	3.3	3.6	3.8
<b>Michigan</b> <sup>1</sup> .....	4,462.8	4,611.9	4,567.7	385.9	312.2	324.4	8.6	6.8	7.1
Ann Arbor .....	158.5	168.5	166.7	6.8	5.7	7.3	4.3	3.4	4.4
Battle Creek .....	63.5	65.2	64.8	5.8	4.0	4.5	9.1	6.2	7.0
Benton Harbor .....	77.1	79.3	78.6	5.7	5.5	5.6	7.4	6.9	7.2
Detroit .....	2,147.7	2,212.7	2,194.0	178.4	142.2	148.7	8.3	6.4	6.8
Flint .....	191.1	187.7	186.5	29.8	18.5	17.6	15.6	9.9	9.4
Grand Rapids .....	348.7	365.9	363.2	20.1	17.4	18.0	5.8	4.8	5.0
Jackson .....	63.6	66.6	66.3	4.8	4.3	4.6	7.6	6.4	6.9
Kalamazoo .....	114.4	120.4	118.7	5.9	5.4	5.9	5.1	4.5	5.0
Lansing-East Lansing .....	238.1	247.2	241.1	17.2	13.4	13.7	7.2	5.4	5.7
Muskegon .....	66.7	67.1	66.8	6.4	5.6	5.7	9.7	8.4	8.5
Saginaw-Bay City-Midland .....	178.9	184.5	182.2	16.9	13.0	13.4	9.5	7.1	7.4
<b>Minnesota</b> .....	2,309.9	2,311.7	2,308.4	103.2	112.2	104.4	4.5	4.9	4.5
Duluth .....	106.2	106.4	105.8	7.6	7.4	6.7	7.1	6.9	6.3
Minneapolis-St. Paul .....	1,379.1	1,383.5	1,385.9	48.0	53.2	50.5	3.5	3.8	3.6
Rochester .....	59.6	61.2	60.9	1.8	1.9	1.8	3.0	3.2	3.0
St. Cloud .....	94.4	97.1	96.9	5.1	5.9	5.5	5.4	6.0	5.7
<b>Mississippi</b> .....	1,145.5	1,149.1	1,144.8	86.8	100.6	97.8	7.6	8.8	8.5
Jackson .....	198.4	198.0	198.3	10.4	11.1	11.2	5.3	5.6	5.6
<b>Missouri</b> .....	2,576.1	2,580.7	2,595.3	152.9	169.0	153.5	5.9	6.5	5.9
Kansas City .....	846.2	853.8	851.1	43.6	51.5	43.4	5.1	6.0	5.1
St. Louis LMA .....	1,247.9	1,259.5	1,262.2	78.1	76.5	75.8	6.3	6.1	6.0
Springfield .....	122.5	124.8	127.0	5.5	6.3	5.7	4.5	5.0	4.5
<b>Montana</b> .....	394.7	396.6	396.1	32.9	30.0	30.5	8.3	7.6	7.7
<b>Nebraska</b> .....	803.1	803.2	812.4	32.6	25.3	28.5	4.1	3.2	3.5
Lincoln .....	124.9	125.6	126.2	3.4	3.1	3.3	2.7	2.5	2.6
Omaha .....	324.0	326.7	326.7	13.8	10.9	11.9	4.3	3.3	3.6
<b>Nevada</b> .....	571.9	599.2	602.1	36.5	38.7	34.6	6.4	6.5	5.7
Las Vegas .....	335.3	353.0	355.1	21.9	21.4	20.4	6.5	6.1	5.8
Reno .....	138.5	140.5	141.2	8.3	9.3	7.6	6.0	6.6	5.4
<b>New Hampshire</b> .....	593.6	608.2	610.4	15.3	17.3	16.7	2.6	2.8	2.7
Manchester .....	85.1	85.2	85.6	1.9	2.4	2.1	2.2	2.8	2.5
Nashua .....	100.0	100.1	100.6	2.4	2.8	3.0	2.4	2.8	2.9
Portsmouth-Dover-Rochester .....	128.6	133.1	133.2	2.8	3.3	3.1	2.2	2.5	2.4
<b>New Jersey</b> <sup>1</sup> .....	3,975.5	4,030.8	4,003.2	173.1	180.1	136.2	4.4	4.5	3.4
Atlantic City .....	170.0	175.6	175.1	12.0	11.9	8.7	7.1	6.8	5.0
Bergen-Passaic .....	721.7	731.3	726.5	26.9	29.1	21.9	3.7	4.0	3.0
Jersey City .....	272.1	274.4	270.9	19.4	19.2	14.3	7.1	7.0	5.3
Middlesex-Somerset-Hunterdon .....	560.1	574.1	572.1	16.6	17.6	13.7	3.0	3.1	2.4
Monmouth-Ocean .....	467.2	476.1	473.7	18.1	20.5	15.1	3.9	4.3	3.2
Newark .....	960.8	968.6	961.9	42.0	43.6	33.2	4.4	4.5	3.4
Trenton .....	173.5	175.4	174.3	6.1	6.0	4.7	3.5	3.4	2.7
Vineland-Millville-Bridgeton .....	58.2	60.4	59.0	5.0	5.3	4.0	8.6	8.8	6.8
<b>New Mexico</b> .....	683.0	691.4	682.2	58.2	50.8	52.4	8.5	7.3	7.7
Albuquerque .....	262.3	265.1	260.9	15.9	14.4	14.8	6.1	5.4	5.7
Las Cruces .....	55.1	55.6	55.6	4.2	3.9	4.2	7.7	7.1	7.6
Santa Fe .....	65.3	65.2	64.3	3.7	3.1	3.3	5.7	4.8	5.2

See footnotes at end of table.

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

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,438.1	8,624.4	8,491.0	382.6	472.8	392.3	4.3	5.5	4.6
Albany-Schenectady-Troy .....	417.2	433.7	425.6	15.6	22.1	18.4	3.7	5.1	4.3
Binghamton .....	126.6	130.0	127.6	5.0	7.1	5.9	4.0	5.5	4.7
Buffalo .....	445.2	456.1	447.8	24.3	31.8	25.6	5.5	7.0	5.7
Elmira .....	41.2	43.4	42.4	1.6	2.4	1.9	3.9	5.5	4.5
Nassau-Suffolk .....	1,412.6	1,443.7	1,426.0	42.7	62.2	50.1	3.0	4.3	3.5
New York .....	3,900.9	3,926.1	3,873.9	164.9	201.6	170.7	4.2	5.1	4.4
New York City .....	3,235.0	3,247.7	3,205.2	147.0	174.4	147.9	4.6	5.4	4.6
Orange County .....	131.5	137.6	135.3	5.1	7.7	6.3	3.9	5.6	4.7
Poughkeepsie .....	126.7	131.3	129.4	3.4	5.4	4.4	2.6	4.1	3.4
Rochester .....	492.2	517.1	507.4	20.4	26.2	21.0	4.1	5.1	4.1
Syracuse .....	312.6	324.1	315.2	16.3	19.2	15.8	5.2	5.9	5.0
Utica-Rome .....	133.8	140.1	137.3	7.6	9.9	8.2	5.7	7.0	6.0
<b>North Carolina<sup>1</sup></b> .....	3,276.4	3,380.8	3,378.9	129.5	125.4	109.5	4.0	3.7	3.2
Asheville .....	86.3	88.8	89.1	3.2	3.0	2.4	3.7	3.3	2.6
Charlotte-Gastonia-Rock Hill .....	621.3	651.5	653.8	19.5	20.9	19.4	3.1	3.2	3.0
Greensboro-Winston-Salem-High Point .....	520.1	532.6	529.6	16.6	16.5	16.4	3.2	3.1	3.1
Raleigh-Durham .....	394.0	410.1	410.4	11.0	9.5	8.5	2.8	2.3	2.1
<b>North Dakota</b> .....	325.1	317.8	318.9	18.2	17.0	16.4	5.6	5.3	5.2
Bismarck .....	44.9	44.8	44.6	2.7	2.5	2.2	6.1	5.5	4.8
Fargo-Moorhead .....	84.6	84.9	84.9	3.0	3.1	3.0	3.6	3.7	3.6
Grand Forks .....	35.2	34.7	34.7	1.5	1.3	1.3	4.2	3.7	3.8
<b>Ohio<sup>1</sup></b> .....	5,316.3	5,379.6	5,375.3	418.1	317.0	306.9	7.9	5.9	5.7
Akron .....	327.8	331.3	330.7	26.6	19.9	19.1	8.1	6.0	5.8
Canton .....	191.0	192.1	191.4	17.2	12.3	12.1	9.0	6.4	6.3
Cincinnati .....	754.1	771.5	772.0	47.6	35.3	35.1	6.3	4.6	4.5
Cleveland .....	934.5	939.7	938.4	68.1	47.3	46.1	7.3	5.0	4.9
Columbus .....	706.8	725.3	724.6	43.5	34.8	34.4	6.2	4.8	4.7
Dayton-Springfield .....	468.7	475.7	476.1	30.6	23.4	23.8	6.5	4.9	5.0
Toledo .....	310.7	315.9	316.0	23.8	19.4	18.7	7.7	6.1	5.9
Youngstown-Warren .....	222.6	223.9	223.6	21.2	16.3	15.9	9.5	7.3	7.1
<b>Oklahoma</b> .....	1,523.6	1,517.3	1,498.0	107.2	104.0	97.8	7.0	6.9	6.5
Enid .....	28.9	28.0	27.5	1.6	1.7	1.5	6.1	6.0	5.5
Lawton .....	49.2	47.4	47.5	3.0	2.6	2.6	6.0	5.4	5.6
Oklahoma City .....	495.6	489.4	462.6	26.8	26.5	25.5	5.8	5.4	5.3
Tulsa .....	338.4	338.4	335.2	26.6	25.3	23.3	7.9	7.5	7.0
<b>Oregon</b> .....	1,391.7	1,435.2	1,439.3	91.7	69.6	66.8	6.6	6.2	6.2
Eugene-Springfield .....	139.7	146.2	146.0	8.2	9.3	8.2	5.9	6.3	5.6
Portland .....	636.4	660.1	660.6	33.2	30.8	29.2	5.2	4.7	4.4
Salem .....	129.1	133.9	134.3	8.9	8.6	6.4	6.9	6.4	6.3
<b>Pennsylvania<sup>1</sup></b> .....	5,638.6	5,814.3	5,892.1	315.0	261.1	250.2	5.6	4.8	4.2
Allentown-Bethlehem .....	316.9	329.7	332.9	15.0	14.5	12.6	4.7	4.4	3.8
Altoona .....	56.0	59.5	60.5	4.3	4.3	3.6	7.4	7.3	5.9
Beaver County .....	59.7	59.9	60.1	6.3	5.0	4.3	10.6	6.4	7.1
Erie .....	127.4	131.5	133.6	8.9	7.2	6.4	7.0	5.5	4.6
Harrisburg-Lebanon-Carlisle .....	311.1	322.7	326.8	13.4	12.2	11.1	4.3	3.8	3.4
Johnstown .....	92.5	95.9	96.1	7.9	7.3	6.4	8.6	7.6	6.6
Lancaster .....	211.2	220.6	225.1	7.2	7.0	6.1	3.4	3.2	2.7
Philadelphia .....	2,369.3	2,442.0	2,463.3	103.9	95.0	84.6	4.3	3.9	3.4
Pittsburgh .....	945.1	965.6	980.7	61.1	51.6	45.4	6.5	5.3	4.6
Reading .....	166.0	176.1	179.1	6.5	7.4	6.6	5.1	4.2	3.7
Scranton-Wilkes-Barre .....	348.4	360.3	384.4	23.3	21.0	18.0	6.7	5.8	4.9
Williamsport .....	57.7	60.4	60.9	3.6	4.0	3.5	6.2	6.7	5.6
York .....	212.0	221.4	225.0	9.3	8.6	7.8	4.4	3.9	3.5
<b>Rhode Island</b> .....	517.7	527.6	534.3	19.4	19.3	22.9	3.7	3.7	4.3
Pawtucket-Woonsocket-Attleboro .....	166.7	169.7	169.0	7.6	7.6	8.7	4.5	4.6	5.1
Providence .....	336.8	342.9	350.2	12.3	12.3	14.2	3.6	3.6	4.1
<b>South Carolina</b> .....	1,642.0	1,689.0	1,710.4	75.3	60.6	75.2	4.6	4.6	4.4
Charleston .....	223.6	230.2	232.5	8.8	9.1	6.6	3.9	4.0	3.7
Columbia .....	230.6	235.7	239.3	7.3	7.6	7.4	3.2	3.2	3.1
Greenville-Spartanburg .....	327.0	339.1	344.6	11.1	11.6	10.9	3.4	3.4	3.2
<b>South Dakota</b> .....	352.8	351.5	353.1	14.3	15.8	14.6	4.1	4.5	4.2
Rapid City .....	36.9	36.7	36.3	1.7	1.9	1.6	4.3	5.0	4.1
Sioux Falls .....	74.5	74.2	73.7	3.4	3.3	3.2	4.6	4.5	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. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>	Mar. 1988	Feb. 1989	Mar. 1989 <sup>p</sup>
<b>Tennessee</b>	2,327.0	2,339.4	2,367.3	133.6	131.8	141.3	5.7	5.6	6.0
Chattanooga	211.6	213.9	214.1	11.2	11.3	11.7	5.3	5.3	5.5
Johnson City-Kingsport-Bristol	214.2	214.8	214.8	12.4	11.3	11.6	5.8	5.3	5.4
Knoxville	281.5	280.7	284.5	15.9	18.4	19.8	5.7	6.6	7.0
Memphis LMA	436.1	442.9	450.8	21.7	21.6	23.1	5.0	4.9	5.1
Nashville	523.9	517.4	519.3	22.2	21.4	22.8	4.2	4.1	4.4
<b>Texas<sup>1</sup></b>	8,138.7	8,150.4	8,159.5	671.8	594.0	517.9	8.3	7.3	6.3
Abilene	52.4	53.2	52.9	4.0	3.6	3.1	7.7	6.8	5.9
Amarillo	96.6	96.1	95.7	6.3	6.0	5.0	6.6	6.2	5.2
Austin	424.0	416.1	416.9	29.1	23.3	20.8	6.9	5.6	5.0
Beaumont-Port Arthur	159.4	159.5	158.9	18.3	15.8	13.5	11.5	9.9	8.5
Brazoria	79.9	81.7	82.0	7.5	5.9	5.2	9.4	7.3	6.3
Brownsville-Harlingen	96.4	97.7	97.3	14.5	12.4	10.7	15.1	12.7	11.0
Bryan-College Station	57.2	59.0	59.1	2.8	2.8	2.6	4.9	4.8	4.4
Corpus Christi	157.3	154.4	156.2	17.1	13.6	12.3	10.9	8.8	7.8
Dallas	1,427.9	1,417.1	1,420.8	90.7	79.1	70.5	6.4	5.6	5.0
El Paso	236.2	237.8	236.9	27.1	25.7	22.9	11.5	10.8	9.7
Fort Worth-Arlington	672.2	673.4	675.5	47.0	40.2	34.9	7.0	6.0	5.2
Galveston-Texas City	106.7	103.1	103.2	10.9	8.1	6.9	10.2	7.8	6.7
Houston	1,583.8	1,601.1	1,607.6	123.4	99.3	88.1	7.8	6.2	5.5
Killeen-Temple	91.4	94.5	94.0	7.8	7.8	6.5	8.5	8.2	7.0
Laredo	47.1	48.9	48.1	8.1	7.6	6.1	17.1	15.4	12.7
Longview-Marshall	77.2	78.1	77.9	7.8	7.3	6.5	10.0	9.3	8.3
Lubbock	111.1	112.5	114.2	6.7	6.1	6.8	6.0	5.4	6.0
McAllen-Edinburg-Mission	153.8	163.9	158.1	30.2	31.3	24.8	19.6	19.1	15.7
Midland	48.7	48.2	48.1	3.5	3.1	2.6	7.2	6.4	5.5
Odessa	53.0	51.5	51.4	4.5	4.5	4.0	8.4	8.7	7.7
San Angelo	44.2	44.5	44.6	2.8	2.6	2.3	6.4	5.8	5.3
San Antonio	595.6	596.3	597.8	50.0	45.5	39.9	8.4	7.6	6.7
Sherman-Denison	48.4	46.8	47.7	3.6	3.1	3.4	7.5	6.6	7.2
Texarkana	57.0	56.7	56.7	5.0	4.7	4.1	8.8	8.3	7.2
Tyler	73.8	74.2	74.0	6.1	5.4	4.7	8.3	7.3	6.3
Victoria	35.8	35.1	35.4	2.8	2.2	2.2	7.9	6.3	6.1
Waco	91.3	91.3	91.3	7.4	5.4	4.7	8.1	5.9	5.1
Wichita Falls	56.4	56.5	56.3	4.3	3.7	3.4	7.6	6.6	6.0
<b>Utah</b>	745.2	765.3	770.9	43.7	35.9	42.4	5.9	4.7	5.5
Provo-Orem	101.4	107.0	107.7	5.2	4.4	5.1	5.2	4.1	4.8
Salt Lake City-Ogden	489.1	501.0	502.6	27.2	22.2	26.4	5.6	4.4	5.3
<b>Vermont</b>	292.8	304.0	306.5	9.8	10.7	11.6	3.4	3.5	3.8
Burlington	73.1	73.9	75.1	1.6	1.7	2.0	2.1	2.3	2.7
<b>Virginia</b>	3,076.6	3,054.3	3,051.1	118.4	138.0	124.1	3.8	4.5	4.1
Charlottesville	68.9	66.7	66.5	2.0	2.2	1.8	2.9	3.3	2.8
Danville	51.6	52.1	51.3	3.5	3.6	3.3	6.8	6.9	6.5
Lynchburg	71.0	70.2	70.0	3.6	4.0	3.9	5.0	5.7	5.6
Norfolk-Virginia Beach-Newport News	605.4	596.6	595.8	25.7	31.4	27.2	4.3	5.3	4.6
Richmond-Petersburg	445.5	445.6	448.4	14.4	17.2	17.5	3.2	3.9	3.9
Roanoke	122.7	120.3	119.8	4.9	5.2	4.4	4.0	4.4	3.7
<b>Washington</b>	2,260.6	2,321.6	2,350.8	156.7	158.8	148.3	6.9	6.8	6.3
Seattle	1,013.6	1,051.9	1,063.7	54.2	51.5	48.7	5.3	4.9	4.6
<b>West Virginia</b>	738.2	741.5	747.2	79.2	68.0	60.8	10.7	9.2	8.1
Charleston	115.1	116.4	116.9	10.1	9.3	8.1	8.8	8.0	7.0
Huntington-Ashland	125.7	127.9	127.4	12.7	10.6	9.6	10.1	8.3	7.5
Parkersburg-Marietta	71.1	72.6	71.2	6.4	5.7	5.2	9.0	7.9	7.2
Wheeling	72.4	71.4	72.0	7.7	5.8	5.0	10.6	8.1	7.0
<b>Wisconsin</b>	2,529.0	2,589.1	2,595.1	139.8	127.5	133.9	5.5	4.9	5.2
Appleton-Oshkosh-Neenah	168.7	172.7	172.4	8.4	7.9	8.1	5.0	4.6	4.7
Eau Claire	72.1	74.4	74.2	4.0	3.7	4.2	5.5	5.0	5.6
Green Bay	105.9	108.1	109.9	5.8	5.1	4.9	5.4	4.7	4.5
Janesville-Beloit	72.4	74.0	74.3	4.1	3.3	3.8	5.6	4.4	5.1
Kenosha	56.2	55.7	55.1	3.0	4.0	3.9	5.4	7.2	7.0
La Crosse	54.7	58.4	59.0	2.5	2.4	2.7	4.6	4.2	4.6
Madison	218.9	224.1	224.6	6.9	6.5	7.0	3.2	2.9	3.1
Milwaukee	752.7	771.6	773.3	33.7	28.9	30.7	4.5	3.7	4.0
Racine	89.3	91.5	91.7	4.8	4.5	4.8	5.4	4.9	5.3
Wausau	61.0	63.2	63.1	4.0	3.6	3.7	6.6	5.6	5.8
<b>Wyoming</b>	229.4	226.8	225.5	16.9	18.1	16.1	7.4	8.0	7.1

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

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Data refer to place of residence. Estimates for 1988 have been

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

# 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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Alabama</b> .....	1,483.3	1,507.7	1,549.7	12.4	11.3	11.2	74.9	75.1	77.4
Birmingham .....	381.3	390.8	401.9	6.2	5.5	5.2	22.9	23.6	24.8
Huntsville .....	117.1	123.4	128.8	.1	.1	.1	4.8	5.6	5.6
Mobile .....	158.3	161.8	164.7	.7	.6	.7	10.6	9.8	10.0
Montgomery .....	121.5	125.2	129.1	.1	.1	.2	8.8	7.7	8.2
Tuscaloosa .....	56.1	58.2	60.9	2.8	2.4	2.6	2.9	3.0	3.1
<b>Alaska</b> .....	220.7	210.1	212.3	9.1	8.8	9.5	13.4	10.1	8.7
<b>Arizona</b> .....	1,337.8	1,385.8	1,410.6	11.0	11.4	12.0	113.1	103.2	93.9
Phoenix .....	882.6	913.8	931.3	.5	.8	.7	78.7	69.9	64.6
Tucson .....	239.6	245.0	247.1	1.7	1.6	1.8	21.4	19.7	17.1
<b>Arkansas</b> .....	813.8	836.6	859.9	4.3	4.1	4.2	36.2	34.1	33.3
Fayetteville-Springdale .....	44.8	48.1	50.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.0	1.8
Fort Smith .....	72.3	78.3	77.5	1.0	1.0	1.0	2.9	2.9	2.6
Little Rock-North Little Rock .....	225.2	229.6	236.8	.4	.4	.4	11.5	10.6	10.1
Pine Bluff .....	33.0	32.3	33.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.3	1.7	1.6
<b>California</b> .....	11,258.1	11,878.5	12,075.1	42.6	41.1	42.3	531.0	574.6	607.0
Anaheim-Santa Ana .....	1,040.2	1,091.9	1,132.0	2.1	1.8	1.4	56.2	63.6	66.8
Bakersfield .....	158.0	158.4	161.1	13.8	13.2	14.2	9.9	9.6	9.7
Fresno .....	196.2	203.2	207.5	.7	.6	.6	11.7	12.4	12.1
Los Angeles-Long Beach .....	3,908.2	4,019.8	4,109.8	10.5	9.5	9.8	130.7	143.7	148.4
Modesto .....	98.0	104.2	109.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.3	7.0	7.2
Oakland .....	786.5	813.7	841.6	2.7	3.2	3.3	45.0	47.3	50.3
Oxnard-Ventura .....	193.7	205.5	213.9	2.9	2.8	2.8	10.7	12.6	13.9
Riverside-San Bernardino .....	561.6	600.9	626.3	1.3	1.3	1.3	43.9	49.7	53.1
Sacramento .....	520.0	546.6	569.9	.8	.8	.7	30.8	32.5	33.5
San Diego .....	819.7	867.4	912.7	.8	.8	.8	50.9	54.8	57.3
San Francisco .....	919.6	928.4	943.3	1.1	1.0	.9	33.3	34.6	35.7
San Jose .....	768.2	789.1	818.8	.1	.2	.1	31.5	32.2	33.5
Santa Barbara-Santa Maria-Lompoc .....	143.7	143.9	145.6	1.3	1.3	1.5	6.5	6.4	6.6
Santa Rosa-Petaluma .....	118.3	124.1	127.8	.6	.7	.7	7.9	8.3	8.6
Stockton .....	138.3	144.1	148.7	.1	.1	.1	8.0	8.4	8.4
Vallejo-Fairfield-Napa .....	119.9	124.7	129.4	.3	.4	.6	7.9	8.8	9.7
<b>Colorado</b> .....	1,408.3	1,412.6	1,425.5	25.8	21.3	20.8	77.6	67.3	59.1
Boulder-Longmont .....	103.2	104.9	107.9	.3	.2	.3	4.1	3.6	3.5
Denver .....	804.7	799.8	801.8	18.7	13.4	13.0	42.9	36.7	32.4
<b>Connecticut</b> .....	1,604.2	1,644.7	1,873.9	1.6	1.6	1.6	71.3	78.0	79.9
Bridgeport-Milford .....	192.9	197.2	202.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.8	9.3
Hartford .....	459.1	473.9	484.9	.3	.3	.3	18.1	19.8	20.6
New Britain .....	65.0	84.3	65.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	4.0	5.0
New Haven-Meriden .....	243.7	250.0	258.9	.3	.3	.4	12.3	12.8	13.8
Stamford .....	122.5	125.1	125.7	.6	.6	.5	5.2	5.4	5.5
Waterbury .....	84.9	86.9	87.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	4.4	4.8
<b>Delaware</b> .....	303.2	320.7	330.2	.1	.1	.1	18.9	20.2	21.5
Wilmington .....	261.2	273.8	283.5	.2	.2	.2	17.1	16.9	18.6
<b>District of Columbia</b> .....	640.0	655.6	673.1	.1	.1	.1	14.1	14.7	13.4
Washington MSA .....	1,987.9	2,080.1	2,164.0	1.1	1.1	1.1	121.9	131.6	140.0
<b>Florida</b> .....	4,599.4	4,848.1	5,080.2	9.3	8.7	9.1	339.5	341.5	348.6
Daytona Beach .....	106.0	111.8	117.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.7	8.3	8.5
Fort Lauderdale-Hollywood-Pompano Beach .....	442.6	465.3	483.6	.4	.4	.3	36.7	35.4	36.9
Fort Myers-Cape Coral .....	99.6	107.7	116.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11.6	12.2	12.9
Jacksonville .....	374.7	393.8	408.3	.5	.5	.6	27.6	27.6	28.7
Melbourne-Titusville-Palm Bay .....	138.9	143.4	152.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	9.0	9.1
Miami-Hialeah .....	798.8	828.6	855.5	.9	.9	.9	40.1	41.5	40.5
Orlando .....	444.4	477.3	502.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	33.6	34.6	37.3
Pensacola .....	121.6	123.6	124.9	.4	.4	.4	10.3	8.8	8.3
Sarasota .....	97.6	103.8	109.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	10.1	10.4	10.1
Tallahassee .....	103.1	109.1	113.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	5.7	5.7
Tampa-St. Petersburg-Clearwater .....	761.2	803.2	832.2	.7	.7	.7	60.6	59.2	58.0
West Palm Beach-Boca Raton-Delray Beach .....	302.8	324.6	343.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	27.6	28.3	30.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Alabama</b> .....	358.6	368.8	379.0	71.7	73.3	79.0	319.6	331.6	339.5
Birmingham .....	54.5	54.0	57.2	27.4	27.8	32.1	95.3	97.7	98.7
Huntsville .....	30.8	31.2	32.6	2.7	2.8	2.9	22.3	23.3	24.5
Mobile .....	26.1	26.5	25.6	9.3	9.3	10.1	42.9	43.7	43.7
Montgomery .....	17.9	18.9	19.0	4.8	4.9	5.0	27.2	28.4	29.3
Tuscaloosa .....	8.7	9.7	10.1	2.0	1.9	2.0	11.5	12.1	12.6
<b>Alaska</b> .....	12.6	12.9	14.8	17.9	17.6	17.2	43.7	41.1	42.0
<b>Arizona</b> .....	184.6	187.4	189.9	65.9	71.7	72.7	325.6	340.3	347.5
Phoenix .....	132.3	135.7	138.3	43.9	49.1	50.3	222.6	231.5	235.7
Tucson .....	31.6	31.0	30.4	9.2	9.2	9.1	53.7	55.6	57.0
<b>Arkansas</b> .....	211.8	219.6	228.4	48.4	51.3	51.6	184.8	189.6	193.6
Fayetteville-Springdale .....	10.2	11.8	12.8	3.9	4.5	4.7	10.6	11.1	11.7
Fort Smith .....	24.7	26.5	27.4	3.6	3.8	4.2	15.6	15.9	15.8
Little Rock-North Little Rock .....	32.4	32.2	34.4	15.1	16.5	16.8	55.0	55.7	56.9
Pine Bluff .....	5.9	6.2	6.5	2.7	2.5	2.5	6.7	6.9	7.1
<b>California</b> .....	2,069.7	2,107.6	2,147.9	574.6	582.6	586.4	2,686.4	2,761.4	2,869.3
Anaheim-Santa Ana .....	241.7	248.6	257.1	33.8	34.2	34.0	259.1	270.2	280.3
Bakersfield .....	10.2	10.8	10.6	8.1	7.9	7.2	38.6	38.4	38.6
Fresno .....	21.0	21.8	22.0	10.3	11.0	11.5	51.2	52.7	53.3
Los Angeles-Long Beach .....	891.4	905.9	904.3	202.7	204.4	204.3	910.2	920.9	951.5
Modesto .....	21.7	22.9	23.7	4.4	4.5	4.5	24.6	26.8	28.5
Oakland .....	101.6	103.9	108.8	54.8	56.3	56.0	197.1	201.4	206.7
Oxnard-Ventura .....	29.2	29.7	30.2	9.2	10.9	11.1	48.2	51.1	52.8
Riverside-San Bernardino .....	74.5	80.1	81.9	30.0	30.5	30.5	141.2	151.4	157.0
Sacramento .....	38.2	40.5	41.7	23.8	24.6	25.0	127.0	132.6	137.8
San Diego .....	121.8	124.3	127.3	32.3	33.7	35.2	196.2	207.0	222.0
San Francisco .....	78.3	79.2	80.3	79.7	77.2	76.9	212.0	210.9	211.5
San Jose .....	263.7	262.0	273.2	21.3	21.5	21.6	148.6	154.4	160.8
Santa Barbara-Santa Maria-Lompoc .....	23.8	22.0	22.0	5.4	5.1	5.0	34.0	34.1	34.7
Santa Rosa-Petaluma .....	18.1	19.0	19.6	5.6	5.9	5.8	30.7	32.0	32.8
Stockton .....	21.9	24.0	24.1	8.5	8.8	8.9	31.6	33.3	34.3
Vallejo-Fairfield-Napa .....	11.8	11.6	12.2	4.5	4.6	4.6	28.6	29.6	31.5
<b>Colorado</b> .....	185.3	184.5	189.2	87.0	88.3	91.2	348.5	348.0	350.8
Boulder-Longmont .....	28.2	28.9	29.7	2.4	2.3	2.3	22.7	23.1	22.9
Denver .....	96.8	93.8	94.7	62.4	64.2	66.9	201.1	197.0	197.2
<b>Connecticut</b> .....	395.0	385.1	373.3	69.0	71.9	72.7	361.5	369.9	379.6
Bridgeport-Milford .....	59.8	58.3	56.9	7.7	8.5	8.3	44.9	45.7	47.0
Hartford .....	91.9	91.0	90.3	17.1	18.0	18.6	98.7	101.2	103.5
New Britain .....	22.3	20.1	19.2	3.1	3.1	3.1	12.9	13.2	13.5
New Haven-Meriden .....	47.1	46.8	47.4	17.4	18.1	17.7	56.9	57.8	60.4
Stamford .....	25.4	23.8	22.9	4.9	5.2	5.5	29.2	30.1	29.6
Waterbury .....	25.7	24.7	23.7	3.1	3.2	3.1	16.9	17.3	17.1
<b>Delaware</b> .....	68.7	70.5	69.7	12.7	13.4	14.0	67.3	71.0	72.5
Wilmington .....	58.6	59.9	59.2	13.6	14.4	14.8	55.0	58.1	59.8
<b>District of Columbia</b> .....	15.7	16.1	16.4	24.9	24.5	25.2	62.7	62.9	64.9
Washington MSA .....	85.6	86.2	87.4	95.2	100.0	105.9	400.3	415.4	429.5
<b>Florida</b> .....	517.2	531.0	540.8	247.4	254.8	260.4	1,238.8	1,316.7	1,384.7
Daytona Beach .....	12.0	11.9	11.9	3.3	3.4	3.6	30.8	32.9	34.9
Fort Lauderdale-Hollywood-Pompano Beach .....	43.3	45.3	46.2	21.0	22.4	23.1	130.9	139.1	145.0
Fort Myers-Cape Coral .....	5.1	5.3	5.9	4.6	4.7	5.2	29.5	32.2	34.4
Jacksonville .....	37.4	38.2	38.5	26.9	27.7	27.5	100.1	106.5	112.9
Melbourne-Titusville-Palm Bay .....	27.6	28.2	29.4	5.7	5.7	5.7	31.5	33.0	35.6
Miami-Hialeah .....	93.4	94.0	93.2	68.6	69.4	70.0	211.9	222.9	233.7
Orlando .....	51.7	55.2	57.3	23.4	24.5	25.6	115.3	124.5	130.6
Pensacola .....	11.5	11.5	11.2	6.1	6.1	6.6	31.4	32.1	31.8
Sarasota .....	8.0	8.6	8.5	3.6	3.5	3.4	29.0	30.5	32.4
Tallahassee .....	4.4	4.7	4.9	2.9	3.0	2.8	21.8	23.4	24.2
Tampa-St. Petersburg-Clearwater .....	90.4	92.8	95.9	37.5	38.1	39.0	209.9	222.9	229.0
West Palm Beach-Boca Raton-DeLray Beach .....	36.9	35.7	35.3	10.9	12.2	12.5	79.3	86.6	92.2

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Alabama</b> .....	69.1	70.5	70.3	259.0	276.5	284.4	298.0	300.6	308.9
Birmingham .....	28.5	29.0	28.5	87.4	93.2	93.7	59.1	60.0	61.7
Huntsville .....	3.4	3.6	3.7	24.8	27.7	29.9	28.2	29.1	29.5
Mobile .....	7.8	8.0	8.0	33.7	36.3	38.2	27.2	27.6	28.4
Montgomery .....	7.3	7.5	7.6	24.2	26.0	27.7	31.2	31.7	32.1
Tuscaloosa .....	2.0	2.0	2.1	7.5	8.2	8.8	18.7	18.9	19.6
<b>Alaska</b> .....	12.4	11.3	10.7	43.7	42.5	42.9	68.0	65.8	66.6
<b>Arizona</b> .....	88.9	94.5	93.3	323.8	345.3	361.2	225.0	232.0	240.3
Phoenix .....	70.4	74.9	74.3	218.0	232.0	243.9	116.3	120.0	123.6
Tucson .....	12.1	12.8	12.2	61.3	65.3	67.5	48.6	49.8	51.9
<b>Arkansas</b> .....	37.4	37.8	37.8	146.0	154.1	162.0	145.1	146.1	149.0
Fayetteville-Springdale .....	1.5	1.5	1.5	6.4	7.1	7.7	10.3	10.2	10.4
Fort Smith .....	2.7	2.7	2.7	14.6	16.3	16.3	7.2	7.3	7.7
Little Rock-North Little Rock .....	15.2	15.6	15.8	50.3	52.7	56.2	45.3	45.8	46.2
Pine Bluff .....	1.5	1.5	1.4	5.8	6.2	6.5	7.2	7.3	7.5
<b>California</b> .....	763.7	800.9	812.8	2,751.3	2,926.7	3,074.9	1,838.8	1,883.7	1,934.5
Anaheim-Santa Ana .....	85.0	92.2	92.4	250.4	266.5	282.2	112.0	114.8	117.9
Bakersfield .....	6.2	6.3	6.4	30.4	33.0	33.7	38.7	40.3	40.8
Fresno .....	13.4	13.1	12.2	44.2	47.0	49.7	43.6	44.7	46.1
Los Angeles-Long Beach .....	273.6	286.1	286.0	1,001.7	1,054.3	1,098.2	487.4	494.9	507.4
Modesto .....	4.4	4.4	4.4	20.2	21.4	22.7	16.3	17.2	18.1
Oakland .....	50.6	54.1	55.4	178.3	189.1	199.9	156.3	158.3	161.2
Oxnard-Ventura .....	10.1	10.5	11.2	43.6	48.0	51.1	39.7	40.1	40.6
Riverside-San Bernardino .....	24.0	26.1	27.5	130.7	141.5	149.1	116.0	120.3	125.9
Sacramento .....	30.8	33.5	35.5	108.3	116.4	124.5	160.4	165.8	171.3
San Diego .....	56.6	61.4	63.8	211.1	229.0	243.1	149.9	156.6	163.2
San Francisco .....	113.6	112.5	111.5	268.3	279.1	291.5	133.4	133.9	134.9
San Jose .....	33.3	33.9	32.6	185.0	198.1	210.4	84.7	86.9	86.5
Santa Barbara-Santa Maria-Lompoc .....	8.1	8.6	8.6	38.1	39.4	40.0	26.5	27.1	27.3
Santa Rosa-Petaluma .....	8.0	8.3	8.5	26.1	27.9	28.9	21.3	22.1	22.8
Stockton .....	8.2	8.8	8.8	28.5	30.1	30.6	29.6	30.7	31.6
Vallejo-Fairfield-Napa .....	4.6	4.7	4.6	26.0	28.0	28.5	36.2	37.1	37.8
<b>Colorado</b> .....	98.7	98.6	95.1	329.4	342.3	353.0	256.0	262.2	266.3
Boulder-Longmont .....	4.0	4.1	4.0	20.9	21.4	23.1	20.8	21.3	22.1
Denver .....	66.8	66.6	63.2	196.6	203.3	208.7	121.5	124.8	125.9
<b>Connecticut</b> .....	140.6	150.5	153.8	369.9	386.5	406.2	195.3	201.2	206.9
Bridgeport-Milford .....	10.6	11.8	12.8	43.8	45.0	48.3	18.3	19.1	19.6
Hartford .....	73.4	76.7	76.3	101.9	106.8	113.1	57.7	60.0	62.2
New Britain .....	3.7	4.1	4.3	12.8	13.4	14.0	6.5	6.6	6.7
New Haven-Meriden .....	14.6	15.3	16.2	65.2	67.9	70.9	30.0	31.0	32.1
Stamford .....	11.6	13.2	13.9	35.6	36.4	37.2	10.0	10.5	10.7
Waterbury .....	4.1	4.4	4.5	19.5	20.5	21.3	11.7	12.3	12.7
<b>Delaware</b> .....	22.9	26.7	29.4	66.6	72.2	75.8	46.1	46.6	47.4
Wilmington .....	20.8	23.7	26.0	59.3	63.8	67.2	36.4	36.8	37.7
<b>District of Columbia</b> .....	36.2	35.9	34.8	219.4	230.9	242.7	266.9	270.6	275.7
Washington MSA .....	115.1	123.3	127.3	616.0	662.6	700.7	552.7	560.0	572.1
<b>Florida</b> .....	339.7	359.3	365.1	1,205.6	1,304.4	1,397.4	701.9	731.8	774.2
Daytona Beach .....	6.4	6.4	6.4	28.6	30.9	32.7	17.2	18.2	19.0
Fort Lauderdale-Hollywood-Pompano Beach .....	36.7	39.7	39.7	119.1	125.9	131.9	54.5	57.2	60.6
Fort Myers-Cape Coral .....	7.6	7.9	8.0	26.5	29.7	32.8	14.5	15.6	17.2
Jacksonville .....	35.6	37.6	38.8	90.9	98.7	104.0	55.7	57.0	59.2
Melbourne-Titusville-Palm Bay .....	5.1	5.4	5.6	39.8	41.3	45.5	20.0	20.8	21.5
Miami-Hialeah .....	66.3	68.5	70.9	214.9	225.4	233.2	102.7	106.0	113.1
Orlando .....	29.8	32.6	33.2	139.8	151.9	161.2	50.7	53.8	57.3
Pensacola .....	5.4	5.6	5.6	28.6	30.6	31.9	27.9	28.5	29.3
Sarasota .....	8.1	8.4	8.5	27.3	30.3	33.3	11.5	12.1	13.5
Tallahassee .....	4.6	4.9	4.9	20.6	22.2	23.6	43.3	45.0	47.2
Tampa-St. Petersburg-Clearwater .....	61.9	65.3	65.6	204.3	224.6	239.9	95.9	99.7	104.1
West Palm Beach-Boca Raton-DeLray Beach .....	26.1	28.2	28.4	85.4	94.3	101.3	36.4	39.1	42.9

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Georgia</b> .....	2,672.4	2,782.0	2,879.1	8.2	8.5	8.9	151.9	152.2	148.9
Athens .....	60.6	62.8	64.8	.1	.2	.1	2.5	2.5	2.5
Atlanta .....	1,323.8	1,376.7	1,417.6	1.3	1.4	1.5	73.9	72.9	70.3
Augusta .....	151.0	156.5	159.0	.5	.5	.5	9.0	9.5	10.3
Columbus .....	89.8	92.5	94.5	.1	.1	.1	5.4	5.3	5.1
Macon-Warner Robins .....	115.1	118.4	121.1	.1	.1	.1	4.9	5.1	5.1
Savannah .....	99.3	101.9	105.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.0	6.4
<b>Hawaii</b> .....	438.6	460.0	477.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.6	21.2	23.1
Honolulu .....	351.4	366.5	377.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.1	16.8	18.3
<b>Idaho</b> .....	328.2	333.4	348.7	2.9	2.6	3.3	14.6	13.6	14.5
Boise City .....	86.1	86.7	92.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.9	4.4	4.9
<b>Illinois</b> .....	4,790.7	4,928.3	5,077.8	25.0	23.4	21.1	181.3	196.2	204.7
Aurora-Elgin .....	130.3	135.2	142.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.4	6.4	7.0
Bloomington-Normal .....	53.3	57.1	59.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.7	1.7
Champaign-Urbana-Rantoul .....	82.0	85.0	87.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.7	2.6
Chicago .....	2,954.4	3,027.6	3,114.7	2.9	2.4	2.2	111.0	119.9	129.7
Davenport-Rock Island-Moline .....	153.3	155.5	155.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	5.0	4.7
Decatur .....	50.6	50.6	51.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.1	2.5
Joliet .....	94.6	97.0	98.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.5	5.7	5.6
Kankakee .....	32.2	32.8	33.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.3	1.2
Lake County .....	175.7	185.3	197.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	8.3	9.3
Peoria .....	131.6	134.5	139.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.3	5.3	5.7
Rockford .....	123.8	125.3	130.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	4.7	4.4
Springfield .....	94.4	98.8	100.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.9	2.9
<b>Indiana</b> .....	2,221.8	2,304.9	2,398.4	8.9	8.6	8.4	92.9	99.0	109.8
Anderson .....	48.5	48.4	48.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.3	1.3	1.4
Bloomington .....	48.9	50.8	53.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.9	2.1	2.3
Elkhart-Goshen .....	91.5	97.6	102.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.6	2.7	2.9
Evansville .....	123.2	125.6	128.9	2.4	2.3	2.2	8.0	7.5	7.4
Fort Wayne .....	176.1	185.0	191.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.6	9.0	9.4
Gary-Hammond .....	209.9	219.4	229.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.7	11.6	12.7
Indianapolis .....	577.9	600.3	624.4	.8	.8	.8	27.9	30.0	32.0
Lafayette-West Lafayette .....	60.9	63.2	64.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.9	2.5	3.1
Muncie .....	48.8	50.2	51.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	2.0	2.1
South Bend-Mishawaka .....	106.4	110.9	114.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.6	4.9	5.5
Terre Haute .....	52.1	52.8	53.8	.5	.3	.4	1.8	1.9	2.0
<b>Iowa</b> .....	1,073.8	1,109.1	1,155.9	2.0	2.2	2.2	35.2	35.6	38.0
Cedar Rapids .....	82.6	85.6	88.8	.2	.2	.1	2.8	3.3	3.2
Des Moines .....	196.5	206.0	214.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	7.4	7.0
Dubuque .....	39.6	41.5	41.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.2	1.1
Sioux City .....	48.4	49.3	51.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.9	1.8
Waterloo-Cedar Falls .....	57.7	60.6	63.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.8	2.0
<b>Kansas</b> .....	984.8	1,005.1	1,033.2	12.2	11.3	10.5	43.9	45.4	42.2
Topeka .....	83.9	86.4	89.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.8	3.3
Wichita .....	217.5	226.9	234.7	2.4	2.2	2.1	9.7	9.7	9.7
<b>Kentucky</b> .....	1,274.1	1,328.2	1,370.3	40.1	38.8	36.5	56.3	61.6	62.9
Lexington-Fayette .....	167.8	178.7	190.2	.9	.7	.3	9.4	10.6	11.5
Louisville .....	421.2	437.4	450.8	.7	.6	.8	20.6	21.7	21.6
Owensboro .....	33.0	33.4	34.0	.9	.8	.7	1.9	2.1	2.1
<b>Louisiana</b> .....	1,518.5	1,483.6	1,501.5	62.2	54.8	56.6	90.5	81.3	84.1
Alexandria .....	45.1	45.4	45.2	.2	.2	.2	2.6	2.3	2.2
Baton Rouge .....	213.3	211.7	220.1	1.0	.9	1.0	20.0	19.7	23.9
Houma-Thibodaux .....	55.2	52.6	53.8	6.4	5.8	5.9	1.9	1.6	1.8
Lafayette .....	87.9	81.7	85.3	11.9	10.6	11.4	3.8	3.2	3.3
Monroe .....	55.4	55.0	54.7	.4	.4	.5	3.3	2.8	2.4
New Orleans .....	519.9	509.5	517.0	16.3	14.6	15.2	25.3	22.0	22.8
Shreveport .....	134.5	131.9	130.1	3.8	3.4	3.3	7.5	6.7	6.4
<b>Maine</b> .....	477.4	501.1	520.5	.1	.1	.2	26.9	31.5	34.1
Lewiston-Auburn .....	37.9	39.2	40.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.2	2.3
Portland .....	116.5	121.8	128.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.4	8.4	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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Georgia</b> .....	564.6	571.2	574.0	168.3	175.4	182.3	667.7	702.7	738.2
Athens .....	14.9	15.1	15.0	1.7	1.8	1.7	12.5	13.2	14.1
Atlanta .....	191.1	188.7	184.4	109.4	115.2	120.3	366.4	384.1	400.2
Augusta .....	36.1	35.5	36.2	5.0	5.2	4.7	32.4	34.2	35.0
Columbus .....	20.1	20.3	20.3	3.4	3.7	3.6	19.5	20.4	20.9
Macon-Warner Robins .....	18.7	18.4	18.8	5.0	5.0	5.2	25.2	27.0	28.2
Savannah .....	16.2	16.7	17.6	9.7	9.3	9.6	24.2	25.3	26.0
<b>Hawaii</b> .....	22.0	21.9	22.3	34.2	36.8	38.0	118.0	123.8	127.6
Honolulu .....	16.2	16.2	16.6	28.0	30.2	31.1	92.7	96.9	99.7
<b>Idaho</b> .....	52.1	54.3	58.1	18.3	17.9	18.6	83.9	84.7	87.0
Boise City .....	10.3	11.0	12.9	5.5	5.2	5.2	22.1	22.6	23.4
<b>Illinois</b> .....	925.8	940.2	971.5	281.4	295.5	300.8	1,184.5	1,221.2	1,253.1
Aurora-Elgin .....	35.7	35.9	38.0	4.0	3.0	3.1	36.1	37.7	38.6
Bloomington-Normal .....	4.6	5.2	5.8	3.0	2.6	2.7	12.6	13.1	13.2
Champaign-Urbana-Rantoul .....	7.5	7.9	8.3	2.3	2.3	2.3	19.0	19.5	20.2
Chicago .....	552.6	555.1	564.5	187.5	191.4	189.1	735.6	757.1	776.6
Davenport-Rock Island-Moline .....	32.0	32.7	32.3	8.2	8.2	8.0	42.4	42.8	42.8
Decatur .....	14.2	13.5	13.6	4.7	5.0	5.0	11.2	11.4	11.5
Joliet .....	19.5	19.0	19.0	8.7	8.3	8.4	22.4	22.9	22.9
Kankakee .....	5.2	4.9	5.2	1.5	1.4	1.3	8.0	8.3	8.3
Lake County .....	40.6	41.5	43.7	6.4	6.8	7.0	46.3	50.7	54.9
Peoria .....	31.5	31.1	33.5	6.6	6.9	7.0	33.0	33.3	33.8
Rockford .....	45.0	42.6	45.3	4.4	4.5	5.0	28.5	28.8	28.7
Springfield .....	4.0	3.9	3.9	4.7	4.7	4.9	20.2	22.7	22.7
<b>Indiana</b> .....	604.0	616.6	633.0	113.0	118.6	124.2	524.7	547.6	571.0
Anderson .....	18.7	17.4	17.1	1.4	1.4	1.4	10.6	11.1	11.3
Bloomington .....	8.0	8.8	9.7	1.7	1.7	1.7	11.3	11.5	12.1
Elkhart-Goshen .....	48.8	53.0	56.1	2.8	2.8	2.8	17.4	18.0	18.7
Evansville .....	30.7	30.5	30.9	6.5	6.5	6.6	31.0	33.0	33.8
Fort Wayne .....	48.5	50.8	52.5	11.5	12.0	12.6	43.4	45.9	47.5
Gary-Hammond .....	53.6	54.4	56.5	13.9	14.8	15.5	50.0	52.3	54.4
Indianapolis .....	107.4	107.1	106.4	34.3	36.3	38.8	148.2	155.2	161.4
Lafayette-West Lafayette .....	11.3	11.8	12.3	1.8	2.0	1.9	12.7	13.0	13.1
Muncie .....	10.9	10.7	11.0	2.2	2.3	2.4	12.1	12.5	12.8
South Bend-Mishawaka .....	23.7	23.9	23.7	4.7	5.0	5.3	27.8	29.2	30.0
Terre Haute .....	10.6	10.4	10.2	2.6	2.7	2.9	14.1	14.3	14.7
<b>Iowa</b> .....	201.7	213.5	227.2	51.5	52.7	54.4	274.4	282.3	294.5
Cedar Rapids .....	22.2	22.2	23.3	4.3	5.4	5.4	20.5	20.7	21.3
Des Moines .....	22.1	23.8	25.6	11.8	12.0	12.5	52.0	53.9	55.8
Dubuque .....	10.9	12.1	12.0	1.6	1.6	1.7	9.2	9.6	9.8
Sioux City .....	9.8	8.6	9.9	3.1	3.1	3.1	12.4	13.0	13.4
Waterloo-Cedar Falls .....	11.3	13.2	14.8	1.8	1.7	1.8	14.1	14.5	15.1
<b>Kansas</b> .....	175.7	176.2	181.4	62.7	62.6	64.4	247.8	251.3	258.5
Topeka .....	9.2	8.8	9.0	6.9	6.7	6.7	18.7	19.4	21.3
Wichita .....	57.8	59.7	61.4	10.5	10.7	10.9	52.9	53.3	54.6
<b>Kentucky</b> .....	253.8	262.5	274.2	65.8	70.1	73.3	303.3	317.7	328.0
Lexington-Fayette .....	28.2	28.7	31.7	7.7	8.0	8.3	39.8	41.6	42.3
Louisville .....	86.1	87.1	87.9	25.8	27.2	28.5	104.3	108.7	112.1
Owensboro .....	5.8	5.6	5.9	2.2	2.1	2.1	8.6	8.7	8.8
<b>Louisiana</b> .....	166.0	164.5	170.1	107.2	104.7	107.1	370.3	361.5	359.6
Alexandria .....	3.3	3.4	3.3	2.3	2.2	2.1	10.7	11.0	10.9
Baton Rouge .....	18.9	18.8	19.2	10.4	10.3	10.5	52.0	50.6	52.5
Houma-Thibodaux .....	4.5	4.2	4.6	6.2	5.7	6.2	14.0	13.6	13.8
Lafayette .....	6.0	6.2	7.1	6.6	5.7	6.0	23.8	22.3	23.2
Monroe .....	7.4	7.2	7.4	2.9	2.9	2.9	15.0	14.5	14.1
New Orleans .....	43.5	41.7	43.3	43.7	43.4	44.2	137.2	134.3	134.4
Shreveport .....	18.6	18.0	18.0	8.4	8.3	8.1	32.5	32.1	31.7
<b>Maine</b> .....	103.6	104.1	108.0	19.4	20.5	21.0	116.1	123.7	127.4
Lewiston-Auburn .....	10.2	10.1	10.3	1.4	1.4	1.5	8.9	9.6	10.1
Portland .....	16.6	15.9	17.3	5.9	5.8	5.4	34.3	36.5	38.7

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	Finance, insurance, and real estate			Services			Government		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Georgia</b> .....	146.1	155.4	161.1	503.3	539.9	570.5	462.2	476.6	495.1
Athens .....	1.9	1.9	1.9	9.0	9.6	10.2	18.0	18.5	19.2
Atlanta .....	93.4	99.1	102.9	302.8	320.8	335.4	185.5	194.5	202.6
Augusta .....	5.7	5.4	5.6	29.7	32.6	32.9	32.6	33.5	34.0
Columbus .....	6.0	6.2	6.6	15.1	16.0	17.3	20.2	20.6	20.7
Macon-Warner Robins .....	7.2	7.3	7.5	20.5	21.9	22.9	33.6	33.5	33.2
Savannah .....	4.4	4.4	4.6	22.5	23.4	24.9	15.2	15.7	16.0
<b>Hawaii</b> .....	33.2	33.7	34.8	118.7	126.5	132.2	93.9	96.1	99.1
Honolulu .....	28.0	28.4	29.3	92.2	97.2	99.7	79.2	80.8	83.1
<b>Idaho</b> .....	18.9	19.2	19.4	66.6	67.9	72.1	70.9	73.3	75.6
Boise City .....	8.0	7.6	7.7	18.8	19.2	20.6	16.5	17.0	17.5
<b>Illinois</b> .....	348.1	359.5	389.2	1,129.8	1,167.9	1,224.7	714.8	724.5	732.7
Aurora-Elgin .....	6.7	7.3	8.5	28.0	29.8	31.9	14.4	15.1	15.5
Bloomington-Normal .....	9.2	9.7	10.0	11.4	12.4	13.2	11.2	12.5	12.6
Champaign-Urbana-Rantoul .....	3.3	3.4	3.4	15.0	15.9	18.4	32.5	33.4	33.7
Chicago .....	251.3	259.2	269.9	758.6	786.0	816.4	355.0	356.5	366.2
Davenport-Rock Island-Moline .....	7.8	8.0	8.2	30.7	31.9	32.8	27.4	26.9	27.0
Decatur .....	2.8	2.6	2.2	10.4	10.8	11.4	5.5	5.2	5.5
Joliet .....	3.8	3.8	3.8	19.4	20.8	21.9	16.0	16.1	16.6
Kankakee .....	1.5	1.5	1.5	8.3	8.7	9.1	6.4	6.6	6.7
Lake County .....	6.7	6.9	7.1	39.5	41.8	44.5	28.8	28.9	30.7
Peoria .....	6.8	7.1	7.3	32.6	34.6	36.4	16.0	16.1	16.2
Rockford .....	5.2	5.2	5.2	25.1	27.6	29.5	11.7	11.8	12.2
Springfield .....	7.8	8.1	8.0	23.4	24.6	25.6	31.5	31.8	32.6
<b>Indiana</b> .....	110.4	115.3	119.4	428.3	451.9	475.7	339.7	347.2	356.9
Anderson .....	1.6	1.6	1.6	9.2	9.7	10.1	5.8	5.8	6.0
Bloomington .....	1.6	1.7	2.0	7.6	8.1	8.6	16.9	17.0	17.3
Elkhart-Goshen .....	2.3	2.5	2.6	12.2	13.0	13.9	5.4	5.6	5.7
Evansville .....	4.9	5.1	5.2	28.0	28.7	30.5	11.7	11.9	12.4
Fort Wayne .....	11.6	12.1	12.4	35.6	37.8	39.3	16.9	17.3	17.6
Gary-Hammond .....	8.0	8.2	8.3	43.8	47.7	50.6	29.9	30.5	31.2
Indianapolis .....	43.0	45.6	48.2	128.1	135.4	143.8	88.1	89.9	92.8
Lafayette-West Lafayette .....	2.9	3.0	3.1	10.9	11.2	11.2	19.3	19.7	19.7
Muncie .....	1.6	1.6	1.7	9.9	10.3	10.9	10.4	10.7	11.1
South Bend-Mishawaka .....	5.6	6.2	8.0	29.0	30.7	32.7	11.0	11.1	11.4
Terre Haute .....	1.9	1.9	2.0	10.6	11.0	11.2	10.1	10.3	10.4
<b>Iowa</b> .....	63.3	64.5	66.1	238.5	248.1	261.4	207.3	210.2	211.9
Cedar Rapids .....	4.7	4.8	4.8	17.9	19.0	20.9	10.0	10.2	9.9
Des Moines .....	25.3	26.8	29.0	48.9	52.4	54.0	29.0	29.5	30.0
Dubuque .....	1.4	1.4	1.4	11.7	12.0	12.1	3.5	3.4	3.4
Sioux City .....	2.6	2.6	2.5	12.5	13.8	14.3	6.3	6.4	6.5
Waterloo-Cedar Falls .....	3.1	3.0	2.9	13.8	14.3	14.5	11.8	12.0	12.2
<b>Kansas</b> .....	54.7	56.8	58.1	193.7	202.6	212.3	194.1	199.0	206.0
Topeka .....	5.9	6.2	6.5	18.8	20.5	20.9	20.9	20.8	21.6
Wichita .....	11.2	11.2	11.0	47.9	53.9	56.8	25.2	25.9	28.2
<b>Kentucky</b> .....	59.2	60.0	58.9	259.6	277.4	292.3	236.0	240.2	244.3
Lexington-Fayette .....	8.7	9.1	9.2	38.9	41.7	42.9	34.3	38.2	44.0
Louisville .....	27.5	27.9	26.8	97.0	104.3	111.7	59.2	59.9	61.4
Owensboro .....	1.4	1.4	1.4	7.3	7.7	7.8	4.9	5.0	5.2
<b>Louisiana</b> .....	85.7	84.5	82.5	317.3	319.2	327.3	319.3	313.1	314.3
Alexandria .....	2.6	2.6	2.6	10.7	11.0	11.3	12.7	12.6	12.7
Baton Rouge .....	13.8	13.5	13.7	41.6	43.3	45.7	55.7	54.7	53.7
Houma-Thibodaux .....	2.5	2.3	2.2	8.8	8.7	9.1	11.0	10.6	10.3
Lafayette .....	4.1	3.9	3.6	18.6	17.3	18.3	13.1	12.6	12.4
Monroe .....	4.5	4.5	4.4	11.3	11.6	11.7	10.7	10.9	11.3
New Orleans .....	33.9	34.1	33.9	132.5	132.9	137.2	87.5	86.6	86.1
Shreveport .....	7.8	7.4	6.7	31.2	31.1	31.1	24.7	25.1	24.9
<b>Maine</b> .....	22.9	24.8	25.3	101.6	108.0	113.8	86.7	88.4	90.7
Lewiston-Auburn .....	2.0	2.2	2.2	9.7	9.9	10.4	3.9	3.8	3.9
Portland .....	10.9	12.1	12.1	26.7	28.2	30.5	14.6	14.9	15.6

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	Total			Mining			Construction		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Maryland</b> .....	1,952.0	2,028.0	2,091.9	1.7	1.8	1.7	139.5	152.3	160.4
Baltimore MSA .....	1,052.5	1,092.1	1,115.4	.3	.3	.3	66.3	73.2	75.6
Baltimore City .....	450.9	459.7	467.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.2	19.2	19.5
Suburban Maryland-D.C. ....	689.1	718.4	747.9	.6	.6	.5	59.7	63.9	67.2
<b>Massachusetts</b> .....	2,984.8	3,061.8	3,119.6	1.6	1.6	1.7	123.2	137.7	143.2
Boston .....	1,675.1	1,717.1	1,751.6	.7	.8	.9	63.7	69.5	72.5
Brockton .....	70.2	72.4	74.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	3.8	4.1
Fall River .....	55.0	55.4	56.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.1	2.4	3.1
Fitchburg-Leominster .....	39.3	40.2	41.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.5	2.6
Lawrence-Haverhill .....	159.6	161.5	165.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.4	8.2	7.8
Lowell .....	104.1	106.4	109.3	.2	.2	.2	4.9	5.4	5.7
New Bedford .....	65.2	66.9	68.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	3.2	3.4
Springfield .....	229.5	237.5	241.8	.2	.1	.1	8.4	9.8	10.2
Worcester .....	192.8	198.9	207.9	.1	.1	.1	8.5	9.6	10.6
<b>Michigan</b> .....	3,657.3	3,735.8	3,797.7	9.6	9.9	10.5	115.2	123.3	133.4
Ann Arbor .....	158.2	164.2	171.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.1	5.3	6.2
Battle Creek .....	55.4	57.6	58.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.8	1.8
Benton Harbor .....	61.7	63.8	65.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.4	1.5
Detroit .....	1,834.7	1,865.9	1,890.9	.9	.8	.8	57.6	61.4	63.4
Flint .....	176.9	169.8	162.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.7	4.7	5.2
Grand Rapids .....	303.6	314.9	330.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.2	14.5	16.6
Jackson .....	50.2	52.0	52.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.4	1.5
Kalamazoo .....	101.1	104.4	108.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	3.3	3.5
Lansing-East Lansing .....	198.6	205.4	209.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.5	5.6	6.4
Muskegon .....	56.3	56.5	57.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.2	2.4
Saginaw-Bay City-Midland .....	149.8	151.4	154.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.0	6.5	7.4
<b>Minnesota</b> .....	1,892.5	1,958.4	2,022.1	6.5	6.0	6.9	75.0	80.1	78.6
Duluth .....	86.8	88.7	91.1	3.7	3.9	4.7	3.7	4.0	3.3
Minneapolis-St. Paul .....	1,232.8	1,278.8	1,319.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	49.3	53.1	52.9
Rochester .....	55.1	56.7	60.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1.8	1.9	2.1
St. Cloud .....	66.0	68.4	71.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.4	3.6	3.4
<b>Mississippi</b> .....	848.2	864.4	894.8	6.7	6.0	6.3	35.2	33.9	35.6
Jackson .....	170.1	175.7	180.8	1.2	.9	.9	8.4	8.4	8.5
<b>Missouri</b> .....	2,142.6	2,197.8	2,236.6	5.9	5.5	5.3	98.1	98.7	94.6
Kansas City .....	723.8	740.3	755.2	.6	.5	.6	35.8	37.1	33.6
St. Louis .....	1,102.5	1,122.5	1,139.5	3.6	3.4	3.3	56.6	56.0	54.6
Springfield .....	104.3	107.9	112.1	.1	.1	.1	4.6	4.7	4.6
<b>Montana</b> .....	275.4	274.1	278.9	5.8	5.7	6.2	10.2	8.8	8.5
<b>Nebraska</b> .....	652.5	667.2	688.2	1.7	1.7	1.6	24.6	24.5	24.5
Lincoln .....	107.7	111.8	117.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	4.2	4.2
Omaha .....	293.1	301.7	308.7	.2	.2	.2	12.2	11.9	11.8
<b>Nevada</b> .....	468.1	500.2	537.7	6.3	8.1	11.0	27.7	30.1	36.3
Las Vegas .....	262.2	284.6	307.0	.3	.3	.2	16.9	18.7	22.5
Reno .....	126.2	131.5	137.5	.8	.9	1.3	6.8	6.9	7.6
<b>New Hampshire</b> .....	490.1	512.8	528.4	.5	.6	.7	35.2	36.8	36.5
Manchester .....	83.4	85.2	86.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.6	6.0	6.1
Nashua .....	87.6	93.3	95.7	.1	.1	.1	4.6	5.0	4.8
Portsmouth-Dover-Rochester .....	103.7	109.0	111.7	.1	.2	.2	5.4	6.1	6.1
<b>New Jersey</b> .....	3,489.9	3,581.6	3,648.3	2.1	2.3	2.3	153.4	164.4	173.3
Atlantic City .....	156.3	163.2	169.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.1	9.9	10.1
Bergen-Passaic .....	647.4	664.2	673.5	.1	.1	.1	29.1	31.4	32.8
Camden .....	408.6	421.9	433.8	.1	.1	.1	20.4	23.0	24.1
Jersey City .....	236.5	242.6	245.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.4	6.8	7.2
Middlesex-Somerset-Hunterdon .....	494.3	514.3	528.8	.6	.6	.7	21.9	23.0	24.2
Monmouth-Ocean .....	307.1	321.8	328.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.9	20.9	21.0
Newark .....	942.4	949.7	955.1	.7	.7	.7	35.7	37.7	39.4
Trenton .....	187.9	192.8	197.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.6	5.1	5.4
Vineland-Millville-Bridgeton .....	54.4	55.5	57.3	.3	.4	.4	2.1	2.1	2.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Maryland</b> .....	210.2	208.4	209.3	91.2	93.1	95.7	497.4	518.5	532.8
Baltimore MSA .....	133.2	132.8	133.3	53.7	53.0	54.5	259.1	268.6	273.9
Baltimore City .....	47.2	44.8	45.0	27.6	27.5	27.7	95.9	97.2	95.9
Suburban Maryland-D.C. ....	35.4	34.6	35.7	24.6	26.6	28.0	184.1	193.0	200.2
<b>Massachusetts</b> .....	614.4	599.1	585.6	125.9	131.0	134.1	709.7	723.4	732.9
Boston .....	286.5	279.7	271.1	74.4	76.6	76.9	380.6	386.7	390.6
Brockton .....	11.6	11.3	11.0	5.2	5.2	5.2	20.7	21.9	22.5
Fall River .....	17.4	17.0	15.8	1.8	1.9	2.0	14.1	14.1	14.5
Fitchburg-Leominster .....	12.6	12.0	12.0	1.5	1.6	1.6	9.9	10.1	10.3
Lawrence-Haverhill .....	52.6	50.7	50.3	6.6	6.8	7.0	34.9	36.1	37.0
Lowell .....	37.3	36.6	36.6	3.3	3.9	4.9	22.3	22.8	23.5
New Bedford .....	20.6	19.6	19.1	2.9	2.8	3.0	15.1	16.3	16.4
Springfield .....	50.8	50.7	51.0	9.1	9.6	9.8	54.5	55.9	57.6
Worcester .....	47.5	45.5	45.0	8.2	8.6	9.5	46.7	48.2	50.3
<b>Michigan</b> .....	1,000.4	972.5	947.2	149.0	152.3	154.7	819.7	860.6	888.2
Ann Arbor .....	39.7	39.5	38.6	4.1	4.3	4.4	26.5	28.9	31.0
Battle Creek .....	14.9	15.3	15.4	1.9	1.9	1.8	10.7	11.6	12.0
Benton Harbor .....	21.3	22.0	22.3	2.3	2.3	2.3	12.5	13.1	13.9
Detroit .....	490.7	472.1	457.3	84.1	86.0	87.8	418.3	435.9	446.8
Flint .....	66.2	57.0	48.5	4.7	4.6	4.1	41.7	42.9	43.6
Grand Rapids .....	95.4	96.3	98.6	10.9	11.3	11.7	76.8	81.0	86.1
Jackson .....	13.0	13.3	13.5	4.2	4.3	4.2	11.3	11.7	11.9
Kalamazoo .....	29.6	29.7	30.3	3.1	3.2	3.2	22.2	23.3	24.4
Lansing-East Lansing .....	38.1	35.3	33.3	5.6	5.7	5.4	39.7	42.6	44.7
Muskegon .....	17.7	17.5	17.1	2.6	2.3	2.3	12.2	12.6	13.4
Saginaw-Bay City-Midland .....	45.2	43.8	43.3	7.0	6.7	6.8	34.8	36.2	36.5
<b>Minnesota</b> .....	369.1	376.4	393.6	98.0	99.9	101.9	471.1	489.3	508.1
Duluth .....	7.2	7.5	7.7	5.8	5.7	5.7	21.6	22.0	22.6
Minneapolis-St. Paul .....	251.4	254.2	263.9	67.3	69.0	70.4	303.1	316.2	329.5
Rochester .....	10.8	10.6	11.0	1.7	1.7	1.7	11.2	11.6	12.3
St. Cloud .....	11.5	11.9	13.1	3.5	3.4	3.6	19.9	21.1	21.4
<b>Mississippi</b> .....	223.7	228.6	238.5	39.7	42.4	43.8	182.1	185.2	190.7
Jackson .....	20.1	20.3	20.9	11.2	12.7	13.2	41.5	42.1	42.7
<b>Missouri</b> .....	424.7	424.0	429.3	140.1	142.8	146.7	519.6	539.9	551.2
Kansas City .....	118.1	111.5	111.7	55.2	58.0	61.3	185.7	193.7	197.5
St. Louis .....	222.3	219.9	222.4	73.0	72.9	74.0	265.3	274.1	277.1
Springfield .....	20.6	20.4	21.6	6.6	6.8	6.9	28.4	30.6	31.7
<b>Montana</b> .....	21.1	20.8	20.8	20.4	19.5	19.4	72.6	72.6	73.0
<b>Nebraska</b> .....	86.0	88.6	94.7	42.7	43.0	45.0	169.1	173.0	177.5
Lincoln .....	12.7	13.3	14.5	5.9	6.0	6.2	25.0	26.4	26.9
Omaha .....	32.4	33.7	35.0	22.7	23.0	24.2	75.5	77.0	78.0
<b>Nevada</b> .....	22.3	23.3	25.1	26.5	27.8	29.0	94.7	102.2	109.4
Las Vegas .....	8.1	8.7	9.6	14.9	15.7	16.4	54.9	60.3	64.2
Reno .....	8.2	8.4	8.7	8.6	9.0	9.3	28.3	29.6	31.6
<b>New Hampshire</b> .....	118.1	117.5	118.7	16.5	17.3	17.9	121.4	130.4	135.7
Manchester .....	13.8	12.6	12.1	4.7	5.2	5.3	22.3	23.8	23.9
Nashua .....	35.6	36.2	36.4	2.2	2.3	2.6	19.6	21.7	22.6
Portsmouth-Dover-Rochester .....	20.7	20.5	20.8	2.7	2.9	3.1	27.2	28.6	29.0
<b>New Jersey</b> .....	690.5	675.4	666.1	231.2	237.6	243.3	834.2	862.0	874.1
Atlantic City .....	8.3	8.4	8.6	6.0	6.4	6.7	34.2	35.8	37.8
Bergen-Passaic .....	162.8	159.6	157.9	28.4	28.2	28.2	184.1	190.0	192.3
Camden .....	74.8	72.5	72.9	17.3	18.4	19.4	109.2	114.6	117.4
Jersey City .....	51.8	48.9	45.3	30.9	32.2	33.2	56.6	60.0	61.8
Middlesex-Somerset-Hunterdon .....	112.3	113.0	115.4	40.0	42.7	43.2	120.1	123.9	126.6
Monmouth-Ocean .....	30.7	30.1	29.4	15.3	16.9	17.8	85.2	88.2	89.2
Newark .....	185.6	181.3	175.4	80.3	80.5	79.8	194.2	196.4	196.0
Trenton .....	31.5	31.0	31.5	6.1	6.4	6.6	30.2	31.0	31.7
Vineland-Millville-Bridgeton .....	15.0	15.3	15.0	2.1	2.1	2.3	10.8	11.0	11.7

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	Finance, insurance, and real estate			Services			Government		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Maryland</b> .....	117.6	125.5	129.9	502.8	535.7	562.7	391.6	392.9	399.4
Baltimore MSA .....	71.4	75.3	77.3	264.7	283.8	294.4	203.8	205.1	206.1
Baltimore City .....	43.5	44.3	45.7	131.0	137.4	142.7	87.5	89.1	91.3
Suburban Maryland-D.C. ....	38.4	41.3	43.5	196.6	208.3	217.8	149.7	150.2	154.9
<b>Massachusetts</b> .....	202.6	217.9	225.4	818.4	853.9	891.4	389.0	397.2	405.4
Boston .....	139.8	149.8	154.9	534.0	554.5	578.6	195.5	199.5	206.1
Brockton .....	3.1	3.2	3.3	14.6	15.1	15.7	11.6	11.9	12.1
Fall River .....	2.7	3.0	3.2	10.2	10.3	10.7	6.6	6.7	6.8
Fitchburg-Leominster .....	1.6	1.7	1.7	7.2	7.9	8.4	4.3	4.4	4.8
Lawrence-Haverhill .....	5.9	6.3	6.6	30.7	33.2	35.5	19.6	20.2	21.4
Lowell .....	4.0	4.1	3.9	19.2	20.4	21.0	12.9	13.0	13.4
New Bedford .....	2.4	2.5	2.6	12.0	12.9	13.8	9.4	9.7	10.0
Springfield .....	15.4	16.0	15.8	54.2	57.0	58.9	36.9	38.4	38.5
Worcester .....	12.6	13.8	14.6	46.2	49.1	53.1	23.1	23.9	24.7
<b>Michigan</b> .....	171.0	179.6	185.4	793.8	826.0	853.1	598.6	611.6	625.2
Ann Arbor .....	4.3	4.6	4.7	30.0	31.6	35.1	48.2	49.8	51.5
Battle Creek .....	3.8	3.7	3.5	11.4	11.9	12.0	11.2	11.3	11.7
Benton Harbor .....	2.3	2.5	2.6	13.6	13.8	14.2	8.3	8.4	8.6
Detroit .....	100.3	105.8	109.6	446.9	464.5	479.5	235.9	239.3	245.6
Flint .....	5.9	6.0	5.9	30.1	31.0	31.9	23.5	23.4	23.4
Grand Rapids .....	13.6	14.6	15.2	62.9	65.9	69.3	30.4	31.0	32.3
Jackson .....	1.7	1.9	2.0	9.4	9.7	9.9	9.3	9.6	9.7
Kalamazoo .....	4.4	4.6	4.9	22.4	23.4	24.2	16.3	16.8	17.4
Lansing-East Lansing .....	10.7	11.9	12.4	35.0	37.9	39.9	63.6	66.1	67.0
Muskegon .....	1.4	1.4	1.4	11.6	11.6	12.0	8.7	8.8	9.1
Saginaw-Bay City-Midland .....	6.0	6.0	6.2	30.5	31.7	33.3	20.1	20.4	21.0
<b>Minnesota</b> .....	115.2	119.1	119.4	449.7	473.8	492.0	307.9	313.8	321.6
Duluth .....	3.1	3.1	3.1	19.9	21.2	22.3	21.8	21.3	21.6
Minneapolis-St. Paul .....	88.9	92.0	93.0	306.1	322.0	333.7	166.1	171.6	175.8
Rochester .....	1.6	1.5	1.5	22.3	23.5	25.1	5.8	5.9	6.1
St. Cloud .....	2.4	2.3	2.3	13.5	14.5	15.4	11.9	11.8	12.5
<b>Mississippi</b> .....	37.3	38.4	38.9	134.0	138.8	145.3	189.5	191.1	195.7
Jackson .....	13.6	14.3	14.6	36.3	38.4	40.1	37.9	38.7	39.8
<b>Missouri</b> .....	129.7	135.5	135.7	486.0	507.4	523.7	338.5	344.0	350.2
Kansas City .....	56.5	58.8	58.3	164.3	171.1	178.4	107.6	109.6	113.9
St. Louis .....	70.8	74.7	75.6	272.1	282.5	292.0	138.8	139.1	140.5
Springfield .....	5.0	4.9	5.1	26.2	26.9	28.1	12.8	13.5	14.0
<b>Montana</b> .....	13.1	13.2	13.4	62.1	64.1	66.9	70.2	69.4	70.8
<b>Nebraska</b> .....	46.8	48.0	47.9	146.7	153.0	158.6	134.9	135.3	138.3
Lincoln .....	7.7	8.1	8.3	22.2	24.0	26.3	30.3	29.9	30.8
Omaha .....	28.4	28.9	28.7	78.1	81.9	84.8	43.7	45.2	46.1
<b>Nevada</b> .....	22.4	23.4	24.5	206.6	221.2	235.4	61.6	64.1	67.0
Las Vegas .....	13.3	14.0	15.2	123.0	134.6	145.0	30.8	32.3	33.9
Reno .....	6.8	7.0	6.9	51.1	53.6	55.3	15.6	16.1	16.8
<b>New Hampshire</b> .....	28.3	31.3	32.2	108.0	113.6	118.3	62.0	65.4	68.5
Manchester .....	7.8	8.4	8.2	21.2	21.0	21.8	8.0	8.3	8.7
Nashua .....	3.2	3.8	3.7	16.3	17.6	18.6	6.0	6.6	6.8
Portsmouth-Dover-Rochester .....	5.7	6.4	6.9	18.2	19.8	20.8	23.8	24.8	24.9
<b>New Jersey</b> .....	210.8	226.8	235.8	832.1	871.4	902.0	535.8	541.8	551.5
Atlantic City .....	6.7	7.1	7.6	67.2	70.7	73.2	24.8	24.8	25.2
Bergen-Passaic .....	34.3	37.5	39.1	142.8	150.3	154.4	65.8	67.1	68.6
Camden .....	22.0	24.1	24.8	94.4	98.7	103.9	70.4	70.4	71.2
Jersey City .....	11.0	12.4	13.4	39.6	41.8	43.3	40.3	40.5	41.5
Middlesex-Somerset-Hunterdon .....	33.2	36.1	37.6	98.1	104.6	109.8	70.1	70.4	71.4
Monmouth-Ocean .....	16.6	18.0	18.6	80.6	87.1	90.9	59.5	60.5	61.6
Newark .....	73.5	76.8	78.7	238.6	242.7	249.5	133.9	133.6	135.6
Trenton .....	8.9	9.4	9.7	53.4	55.5	57.0	53.1	54.5	55.9
Vineland-Millville-Bridgeton .....	2.8	3.1	3.5	10.0	10.1	10.5	11.3	11.4	11.7

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	Total			Mining			Construction		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>New Mexico</b> .....	525.9	529.3	540.4	16.2	14.9	15.4	35.1	32.1	30.2
Albuquerque .....	227.7	231.4	235.3	.2	.2	.2	17.0	16.0	14.8
Las Cruces .....	38.0	39.4	40.5	.1	.1	.1	2.5	2.1	2.2
Santa Fe .....	53.0	54.0	55.1	.1	.1	.1	3.0	2.6	2.6
<b>New York</b> .....	7,904.4	8,053.6	8,184.4	5.9	5.9	5.9	308.9	328.8	340.0
Albany-Schenectady-Troy .....	393.3	402.4	413.8	.3	.4	.5	17.1	18.7	20.2
Binghamton .....	118.1	119.6	123.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	5.1	5.6
Buffalo .....	423.0	436.0	445.4	.4	.4	.3	15.5	16.5	17.1
Elmira .....	36.0	38.3	39.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.6
Nassau-Suffolk .....	1,103.8	1,128.8	1,142.7	.2	.2	.2	55.3	59.3	60.5
New York PMSA .....	4,056.6	4,114.0	4,137.4	1.4	1.2	1.1	145.7	152.0	153.7
New York City .....	3,540.6	3,590.0	3,605.7	.8	.7	.6	113.7	118.8	120.9
Niagara Falls .....	78.6	80.0	82.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.8	3.1	3.2
Orange County .....	96.9	101.3	104.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.4	5.4	5.6
Poughkeepsie .....	115.4	116.5	120.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6.0	6.6	7.1
Rochester .....	454.5	462.0	478.5	.8	.7	.8	16.3	18.0	18.7
Rockland County .....	95.4	97.0	99.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.7	5.1	4.8
Syracuse .....	291.9	296.3	304.1	.2	.2	.2	15.2	14.6	14.7
Utica-Rome .....	118.9	120.4	124.6	.1	.1	.1	3.7	3.9	4.0
Westchester County .....	403.3	408.9	413.5	.3	.3	.2	26.1	26.6	26.4
<b>North Carolina</b> .....	2,744.1	2,862.6	2,967.7	4.8	4.9	4.8	155.2	159.9	164.7
Asheville .....	75.9	77.3	80.6	.1	.1	.1	3.8	4.1	4.3
Charlotte-Gastonia-Rock Hill .....	545.4	575.5	593.1	.4	.4	.4	31.6	33.7	36.4
Greensboro-Winston-Salem-High Point .....	450.3	468.4	482.4	.3	.3	.3	24.4	24.5	24.8
Raleigh-Durham .....	368.3	382.6	395.1	.4	.4	.4	23.2	21.7	22.0
<b>North Dakota</b> .....	249.9	252.8	255.9	4.7	4.1	4.2	10.8	10.8	10.0
Bismarck .....	36.1	36.7	37.5	.2	.2	.2	1.6	1.6	1.5
Fargo-Moorhead .....	68.3	70.6	72.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.2	3.4	3.3
Grand Forks .....	28.7	29.8	30.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.7	1.3
<b>Ohio</b> .....	4,471.4	4,582.6	4,683.0	22.6	20.9	19.5	160.7	176.4	183.6
Akron .....	260.7	265.1	271.9	.7	.5	.6	8.6	9.1	9.7
Canton .....	151.9	156.4	159.5	1.0	1.0	.9	5.3	6.0	6.1
Cincinnati .....	650.8	677.7	700.2	.4	.4	.4	26.1	29.5	31.3
Cleveland .....	879.2	891.6	904.6	1.1	1.1	1.0	26.4	28.4	27.6
Columbus .....	630.7	658.0	678.1	.9	.9	.9	24.0	27.0	28.5
Dayton-Springfield .....	419.4	429.8	436.7	.4	.4	.4	14.8	16.4	17.8
Toledo .....	272.0	278.0	284.9	.2	.2	.3	9.5	10.1	10.6
Youngstown-Warren .....	187.1	188.3	193.9	.6	.7	.7	6.7	7.3	7.5
<b>Oklahoma</b> .....	1,124.4	1,108.5	1,132.7	51.8	46.0	44.9	38.0	34.6	34.4
Enid .....	22.7	21.7	21.4	1.3	1.1	1.1	.8	.6	.7
Lawton .....	33.7	33.9	33.6	.2	.3	.3	1.3	1.2	1.2
Oklahoma City .....	409.7	402.6	408.2	12.7	11.6	11.7	13.1	12.4	12.3
Tulsa .....	297.3	290.7	296.7	16.6	14.7	14.3	11.8	10.1	9.8
<b>Oregon</b> .....	1,058.5	1,100.1	1,152.3	1.4	1.4	1.4	34.3	35.3	39.0
Eugene-Springfield .....	99.2	105.1	109.7	.2	.2	.2	2.9	3.3	3.5
Portland .....	535.3	554.4	579.4	.5	.5	.5	18.8	19.1	20.9
Salem .....	91.0	96.5	101.2	.1	.1	.1	3.0	3.2	3.5
<b>Pennsylvania</b> .....	4,790.9	4,915.1	5,033.9	33.5	30.7	29.1	201.8	218.3	230.8
Allentown-Bethlehem .....	263.7	271.7	277.9	.5	.6	.6	10.9	13.0	13.9
Altoona .....	49.5	50.9	51.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.5	2.6	2.3
Beaver County .....	51.3	50.5	49.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.7	3.5	2.0
Erie .....	109.1	110.2	113.8	.3	.2	.2	3.2	3.3	3.4
Harrisburg-Lebanon-Carlisle .....	282.9	292.9	299.8	.4	.3	.3	11.2	12.3	13.1
Johnstown .....	76.1	77.6	79.1	3.8	3.5	3.1	2.8	2.7	2.7
Lancaster .....	172.2	178.8	184.6	.4	.4	.4	9.2	10.4	11.4
Philadelphia PMSA .....	2,089.5	2,141.9	2,172.0	1.2	1.1	1.1	92.3	100.3	105.3
Philadelphia City .....	760.3	772.3	780.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	17.8	17.4	17.5
Pittsburgh .....	843.3	855.8	871.4	6.6	5.4	4.8	40.7	41.6	39.5

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>New Mexico</b> .....	37.4	38.3	39.9	29.4	28.8	28.9	126.3	127.7	130.4
Albuquerque .....	19.7	20.1	20.3	12.3	12.3	12.6	58.1	59.3	60.4
Las Cruces .....	3.5	3.9	3.8	1.3	1.3	1.4	7.6	8.1	8.7
Santa Fe .....	1.6	1.6	1.6	1.2	1.2	1.2	10.2	10.4	10.7
<b>New York</b> .....	1,251.6	1,218.4	1,208.4	402.2	405.3	410.4	1,674.4	1,701.2	1,722.0
Albany-Schenectady-Troy .....	50.4	48.9	47.4	16.0	16.5	16.3	84.7	85.9	89.2
Binghamton .....	38.0	37.8	38.5	4.2	4.4	4.3	24.9	25.5	26.4
Buffalo .....	76.5	77.0	77.4	21.4	21.3	21.4	106.1	108.9	110.1
Elmira .....	6.8	7.8	8.5	1.3	1.4	1.4	10.1	10.5	10.6
Nassau-Suffolk .....	180.0	175.3	169.4	46.4	48.3	48.9	298.2	305.4	307.3
New York PMSA .....	475.6	461.0	448.5	242.4	240.5	243.4	762.9	762.8	760.8
New York City .....	391.2	379.6	366.5	217.3	214.9	217.8	638.5	637.6	635.8
Niagara Falls .....	24.4	24.1	23.8	3.6	3.6	3.8	17.8	18.5	19.1
Orange County .....	15.0	14.7	15.3	5.6	6.0	6.0	25.4	26.8	28.1
Poughkeepsie .....	32.1	30.3	30.5	3.3	3.3	3.5	21.0	21.7	22.3
Rochester .....	138.6	132.5	136.2	13.9	14.4	14.5	96.0	99.2	101.7
Rockland County .....	15.5	15.0	15.3	4.1	4.1	4.5	22.8	23.0	23.4
Syracuse .....	54.3	52.5	53.4	16.7	17.9	18.4	69.0	70.3	72.4
Utica-Rome .....	24.8	24.0	24.8	4.5	4.3	4.3	25.8	26.4	27.0
Westchester County .....	67.2	64.6	64.8	20.4	20.8	20.4	97.3	97.8	97.1
<b>North Carolina</b> .....	832.8	856.0	866.9	133.7	141.0	146.9	612.6	643.5	678.4
Asheville .....	20.2	19.3	19.1	3.6	3.7	3.8	17.6	18.5	19.5
Charlotte-Gastonia-Rock Hill .....	148.1	152.8	155.4	46.4	48.3	48.6	130.1	139.4	145.3
Greensboro-Winston-Salem-High Point .....	152.0	153.6	154.4	27.1	27.1	27.0	99.6	105.6	110.3
Raleigh-Durham .....	58.9	58.0	59.3	17.5	17.3	17.6	76.4	82.2	84.4
<b>North Dakota</b> .....	15.3	15.8	16.2	16.1	16.3	16.7	67.0	67.5	68.2
Bismarck .....	1.9	1.9	2.1	2.7	2.6	2.7	9.7	9.8	9.9
Fargo-Moorhead .....	4.9	4.9	5.0	4.1	4.4	4.6	20.2	20.8	21.4
Grand Forks .....	1.5	1.6	1.7	1.5	1.6	1.6	8.0	8.3	8.6
<b>Ohio</b> .....	1,109.8	1,098.9	1,103.1	203.4	207.8	211.5	1,062.8	1,096.3	1,130.8
Akron .....	67.2	66.4	65.8	12.9	12.8	12.9	63.9	65.6	67.8
Canton .....	43.7	44.0	44.9	5.7	5.7	5.8	38.2	39.3	39.7
Cincinnati .....	147.7	146.0	144.5	33.5	35.7	38.1	164.4	170.8	179.6
Cleveland .....	204.9	200.6	201.7	41.4	41.5	41.4	212.6	214.9	220.4
Columbus .....	105.8	103.9	102.6	26.6	28.2	29.7	157.4	167.2	173.2
Dayton-Springfield .....	105.7	104.3	104.5	14.9	15.8	16.8	93.6	96.9	99.4
Toledo .....	63.4	62.2	62.5	13.8	13.7	13.1	66.6	68.4	70.6
Youngstown-Warren .....	51.7	48.9	50.5	7.5	7.6	7.6	46.4	48.2	49.9
<b>Oklahoma</b> .....	160.4	156.8	162.8	64.1	63.3	62.0	276.2	270.4	274.0
Enid .....	1.6	1.5	1.6	2.3	2.2	2.2	6.7	6.4	6.2
Lawton .....	3.5	3.5	3.5	1.4	1.5	1.3	8.8	8.4	8.5
Oklahoma City .....	48.7	47.6	48.7	20.6	20.1	19.4	103.8	99.9	100.9
Tulsa .....	50.1	48.0	49.5	22.9	23.0	23.2	72.3	70.9	70.6
<b>Oregon</b> .....	198.4	206.2	214.3	57.2	58.5	60.5	267.3	276.7	291.3
Eugene-Springfield .....	18.0	19.9	20.8	4.1	4.2	4.3	25.5	26.6	27.4
Portland .....	91.9	94.4	98.6	33.7	34.6	35.6	141.6	145.2	152.1
Salem .....	13.5	14.5	15.4	2.7	2.9	2.9	20.6	21.6	22.6
<b>Pennsylvania</b> .....	1,048.9	1,044.0	1,055.8	239.5	247.2	252.3	1,092.3	1,121.6	1,151.1
Allentown-Bethlehem .....	79.6	77.5	77.6	14.0	14.1	14.3	58.0	59.8	61.0
Altoona .....	11.1	11.2	11.0	4.7	4.5	4.5	12.4	12.9	13.4
Beaver County .....	11.0	9.9	9.6	5.1	5.2	5.0	11.0	11.3	11.5
Erie .....	35.0	34.5	35.3	4.1	3.9	3.7	23.2	23.9	25.3
Harrisburg-Lebanon-Carlisle .....	50.4	52.0	52.0	17.8	18.2	18.5	63.4	66.2	67.6
Johnstown .....	12.5	13.0	13.5	5.0	5.1	5.1	16.1	16.5	17.1
Lancaster .....	58.5	60.0	60.1	7.0	7.0	7.3	41.7	42.8	44.4
Philadelphia PMSA .....	382.6	374.8	368.9	95.0	99.2	101.1	485.5	497.3	504.7
Philadelphia City .....	99.8	96.0	94.0	44.3	45.0	44.3	147.4	148.1	151.9
Pittsburgh .....	128.9	123.8	124.9	44.8	45.6	47.5	213.4	215.7	222.5

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>New Mexico</b> .....	28.6	28.9	27.0	118.9	123.0	127.9	135.9	137.6	140.8
Albuquerque .....	14.2	14.8	14.9	61.5	63.9	65.7	44.7	45.0	46.4
Las Cruces .....	1.6	1.8	1.7	5.7	6.2	6.4	15.6	16.0	16.2
Santa Fe .....	2.0	2.0	2.0	13.5	14.3	14.8	21.3	21.8	22.2
<b>New York</b> .....	758.0	793.5	797.5	2,121.0	2,198.3	2,265.5	1,382.3	1,402.1	1,434.6
Albany-Schenectady-Troy .....	21.3	22.4	24.1	95.4	100.2	104.2	108.1	109.5	111.9
Binghamton .....	3.9	4.1	4.3	21.3	21.9	23.2	20.7	20.8	21.1
Buffalo .....	24.5	28.5	28.0	106.2	111.5	115.7	72.4	74.0	75.3
Elmira .....	1.2	1.4	1.4	8.8	9.4	9.9	6.4	8.3	6.5
Nassau-Suffolk .....	71.2	75.5	78.4	275.0	286.0	295.9	177.4	178.8	182.1
New York PMSA .....	559.4	583.0	577.8	1,215.4	1,252.0	1,274.0	653.8	661.5	678.2
New York City .....	529.3	549.7	543.2	1,078.2	1,108.5	1,125.1	573.5	580.4	595.8
Niagara Falls .....	1.8	1.9	2.0	15.8	16.0	17.1	12.2	12.6	12.8
Orange County .....	4.0	4.1	4.5	20.6	21.9	22.4	21.6	22.2	22.9
Poughkeepsie .....	4.0	4.6	4.9	25.0	25.8	27.9	23.9	24.1	24.3
Rochester .....	20.8	21.8	22.7	105.2	111.2	117.8	62.9	64.3	66.1
Rockland County .....	4.0	5.0	5.2	23.2	24.0	25.3	21.1	20.9	21.1
Syracuse .....	19.0	19.3	20.2	68.4	71.1	73.4	49.2	50.4	51.5
Utica-Rome .....	6.4	6.6	7.1	24.7	26.0	27.2	28.8	29.0	30.1
Westchester County .....	25.4	27.6	28.6	111.3	114.5	118.4	55.5	56.5	57.4
<b>North Carolina</b> .....	117.9	126.2	130.3	456.3	488.8	522.3	430.9	442.3	453.5
Asheville .....	2.7	2.7	2.7	18.4	17.9	19.4	11.5	11.1	11.8
Charlotte-Gastonia-Rock Hill .....	32.6	38.5	37.2	96.7	102.9	108.8	59.6	61.4	63.2
Greensboro-Winston-Salem-High Point .....	21.6	23.0	24.1	76.8	83.2	89.6	50.6	51.2	51.9
Raleigh-Durham .....	21.4	22.9	23.3	86.0	93.2	98.7	64.7	67.0	69.5
<b>North Dakota</b> .....	12.5	12.6	12.3	59.2	61.1	63.6	64.4	64.6	64.7
Bismarck .....	1.7	1.7	1.6	10.2	10.5	11.0	8.2	8.4	8.5
Fargo-Moorhead .....	4.3	4.4	4.4	18.0	18.9	20.0	13.5	13.8	13.8
Grand Forks .....	1.1	1.1	1.1	6.2	6.6	6.8	8.8	8.9	9.1
<b>Ohio</b> .....	232.3	243.8	249.8	1,001.0	1,051.2	1,087.8	878.9	887.3	896.8
Akron .....	10.2	10.6	10.7	55.6	57.8	61.3	41.7	42.2	43.1
Canton .....	6.4	6.5	8.4	33.5	35.6	38.8	18.1	18.5	19.0
Cincinnati .....	38.2	40.4	42.2	155.9	168.0	175.8	84.7	86.8	88.1
Cleveland .....	51.8	54.9	56.9	224.8	233.5	239.1	116.2	116.8	118.5
Columbus .....	53.7	57.0	58.2	145.9	154.4	161.5	118.4	119.4	123.4
Dayton-Springfield .....	17.2	17.9	18.1	100.2	104.5	106.8	72.6	73.5	72.9
Toledo .....	11.0	11.6	12.3	66.6	70.3	73.1	40.9	41.5	42.5
Youngstown-Warren .....	8.0	8.2	8.3	42.6	43.8	45.3	23.5	23.7	24.2
<b>Oklahoma</b> .....	62.4	59.8	59.0	224.6	232.5	248.0	246.8	245.4	247.5
Enid .....	1.1	1.0	1.0	5.3	5.4	5.2	3.6	3.5	3.4
Lawton .....	1.6	1.6	1.5	5.8	5.9	6.1	11.4	11.6	11.4
Oklahoma City .....	26.3	24.8	24.1	86.7	90.1	95.0	97.8	96.3	95.9
Tulsa .....	17.7	17.2	17.3	89.5	71.0	75.5	36.5	35.7	36.8
<b>Oregon</b> .....	69.5	72.1	73.6	230.2	244.4	260.8	200.2	205.6	211.5
Eugene-Springfield .....	4.6	4.9	5.2	22.1	23.8	25.2	21.8	22.3	23.2
Portland .....	44.5	47.4	48.6	129.0	135.7	143.6	75.4	77.6	79.5
Salem .....	5.3	5.5	5.8	17.8	19.1	20.4	28.1	29.7	30.4
<b>Pennsylvania</b> .....	278.3	291.9	292.5	1,216.9	1,272.9	1,328.0	679.8	688.7	694.3
Allentown-Bethlehem .....	10.5	11.8	12.7	61.0	65.5	68.0	29.3	29.5	29.9
Altoona .....	1.5	1.6	1.8	10.2	10.8	11.0	7.2	7.3	7.4
Beaver County .....	1.8	1.7	1.6	10.9	11.3	11.8	7.8	7.7	7.9
Erie .....	5.1	5.3	5.3	24.9	25.8	27.0	13.3	13.3	13.6
Harrisburg-Lebanon-Carlisle .....	18.0	17.3	18.8	59.0	61.4	63.8	64.9	65.4	65.8
Johnstown .....	4.7	4.7	4.7	18.5	19.3	20.0	12.8	12.8	12.9
Lancaster .....	8.5	6.6	7.1	34.1	36.4	38.6	14.9	15.0	15.4
Philadelphia PMSA .....	152.8	163.2	162.8	585.0	607.4	627.6	295.2	296.6	300.7
Philadelphia City .....	69.5	72.8	71.4	242.5	250.3	257.5	138.9	142.8	143.5
Pittsburgh .....	51.6	53.8	52.3	252.8	265.4	274.1	104.5	104.7	106.0

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	Total			Mining			Construction		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Pennsylvania—Continued</b>									
Reading .....	143.5	146.8	150.0	(?)	(?)	(?)	5.9	6.5	7.2
Scranton—Wilkes-Barre .....	282.3	289.6	298.7	0.8	0.7	0.7	11.1	12.2	14.0
Williamsport .....	47.1	49.7	51.0	(?)	(?)	(?)	1.8	2.0	2.1
York .....	164.2	169.8	175.9	.4	.4	.5	8.2	9.3	9.5
<b>Rhode Island</b>									
Pawtucket—Woonsocket—Attleboro .....	442.5	451.9	456.0	.1	.2	.2	17.4	19.6	20.7
Providence .....	130.0	131.2	131.4	.1	.2	.2	4.5	5.4	6.0
Providence .....	309.7	318.2	322.3	.1	.1	.1	13.0	14.3	15.5
<b>South Carolina</b>									
Charleston .....	1,338.0	1,392.2	1,447.8	1.6	1.7	1.8	87.8	86.7	91.6
Charleston .....	179.3	185.8	191.8	(!)	(!)	(!)	13.6	13.2	13.2
Columbia .....	215.3	223.6	229.4	(!)	(!)	(!)	13.8	13.6	14.1
Greenville—Spartanburg .....	295.4	308.2	319.6	(!)	(!)	(!)	21.2	21.0	22.3
<b>South Dakota</b>									
Rapid City .....	251.9	256.9	264.0	2.6	2.7	2.7	9.6	9.6	9.3
Rapid City .....	33.9	34.8	34.9	.3	.3	.3	2.3	2.1	1.8
Sioux Falls .....	63.0	65.1	67.8	(!)	(!)	(!)	2.4	2.6	2.7
<b>Tennessee</b>									
Chattanooga .....	1,929.8	2,011.6	2,065.8	7.2	6.8	6.7	90.0	95.2	94.4
Chattanooga .....	179.7	190.3	195.9	.9	.7	.7	7.5	7.9	8.3
Johnson City—Kingsport—Bristol .....	154.4	159.5	163.2	.2	.3	.4	5.9	6.7	7.0
Knoxville .....	242.0	251.9	259.9	1.8	1.9	1.7	11.9	12.4	12.9
Memphis .....	403.0	422.0	433.3	.1	.1	.1	18.5	19.1	18.3
Nashville .....	456.1	476.7	483.5	.7	.6	.8	28.2	28.9	27.1
<b>Texas</b>									
Abilene .....	6,564.2	6,516.9	6,646.9	205.2	181.6	184.9	404.2	345.3	327.8
Abilene .....	50.6	48.4	49.0	2.6	2.1	2.1	2.4	2.1	2.0
Amarillo .....	78.4	77.2	77.4	1.6	1.4	1.3	3.8	3.5	3.7
Austin .....	360.1	353.0	352.6	1.0	.8	.7	23.6	16.7	14.4
Beaumont—Port Arthur .....	130.3	129.9	132.0	1.8	1.6	1.7	7.8	8.0	8.4
Brazoria .....	57.3	57.0	59.0	1.8	1.9	2.1	5.6	5.6	6.6
Brownsville—Harlingen .....	65.8	65.7	68.2	.1	.1	.1	2.9	2.1	2.0
Bryan—College Station .....	48.4	47.3	48.9	.8	.6	.6	2.4	1.8	1.8
Corpus Christi .....	129.0	124.5	124.3	6.0	4.3	4.1	8.3	7.2	8.1
Dallas .....	1,337.5	1,327.5	1,342.5	21.3	19.0	18.6	81.5	63.5	55.5
El Paso .....	182.8	187.7	193.4	.2	.1	.1	10.0	9.6	9.0
Ft. Worth—Arlington .....	512.2	516.0	526.1	3.8	3.6	3.7	30.4	25.4	22.8
Galveston—Texas City .....	70.9	71.0	71.7	.6	.6	.5	4.2	4.3	4.6
Houston .....	1,410.9	1,386.8	1,432.3	71.6	62.5	65.9	94.9	85.2	87.3
Killeen—Temple .....	68.3	69.3	70.8	.1	.1	.1	3.8	3.6	3.5
Laredo .....	34.6	35.7	38.0	1.7	1.9	1.9	1.3	1.2	1.2
Longview—Marshall .....	65.6	64.6	66.1	3.9	3.6	3.7	3.2	3.0	3.3
Lubbock .....	90.6	91.4	93.2	.3	.4	.4	4.1	3.4	3.2
McAllen—Edinburg—Mission .....	85.9	88.2	94.3	1.1	.9	.9	4.3	4.0	4.1
Midland .....	45.7	43.6	44.7	9.9	9.8	10.2	1.7	1.3	1.3
Odessa .....	45.1	42.4	43.2	6.5	6.0	6.0	2.7	2.3	2.1
San Angelo .....	36.9	36.4	36.5	.6	.4	.5	2.0	1.8	1.5
San Antonio .....	495.4	499.7	499.9	2.8	2.6	2.4	35.2	29.5	24.9
Sherman—Denison .....	37.8	37.4	37.5	.2	.1	.1	1.8	1.7	1.7
Texarkana .....	45.3	45.2	44.8	.1	.1	.1	2.0	1.9	1.7
Tyler .....	61.8	61.2	60.5	2.1	1.9	2.0	3.0	2.3	2.1
Victoria .....	28.2	26.9	27.4	1.9	1.7	1.7	2.1	1.7	1.6
Waco .....	77.6	77.3	78.7	.1	.1	.1	3.9	3.6	3.6
Wichita Falls .....	50.4	49.8	50.7	2.2	1.9	2.0	2.2	1.7	2.0
<b>Utah</b>									
Provo—Orem .....	634.1	640.0	660.4	7.8	8.1	8.2	32.2	26.7	25.1
Provo—Orem .....	72.5	74.5	80.9	(!)	(!)	(!)	2.9	2.6	2.7
Salt Lake City—Ogden .....	442.9	445.8	454.9	1.8	2.5	2.6	23.0	18.8	17.6
<b>Vermont</b>									
Barre—Montpelier .....	234.4	245.6	253.2	.5	.5	.6	15.3	16.5	17.4
Barre—Montpelier .....	31.4	33.5	33.9	.2	.2	.2	2.0	2.2	2.0
Burlington .....	70.9	74.5	77.3	(!)	(!)	(!)	4.2	4.4	4.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Pennsylvania-Continued</b>									
Reading .....	48.0	47.7	48.0	6.3	6.6	6.7	31.4	32.7	33.3
Scranton-Wilkes-Barre .....	72.7	71.5	71.7	14.8	15.4	16.2	63.4	65.8	67.6
Williamsport .....	15.1	16.3	16.6	1.8	1.8	1.8	10.5	11.1	11.4
York .....	57.9	58.9	61.3	6.9	7.2	7.7	39.3	41.1	42.3
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	118.9	116.3	114.1	14.6	15.6	15.7	99.3	103.3	104.0
Providence .....	54.7	52.8	50.7	3.4	3.5	3.5	30.6	32.1	33.0
.....	74.8	73.4	71.4	11.1	12.1	12.4	67.3	69.8	70.6
<b>South Carolina</b>									
.....	365.2	374.0	383.5	56.4	59.0	62.4	290.9	308.4	325.9
Charleston .....	19.5	19.8	21.1	9.1	10.0	11.2	44.2	45.9	45.8
Columbia .....	28.0	28.7	29.2	9.9	10.2	10.5	47.9	49.6	50.4
Greenville-Spartanburg .....	98.0	100.0	102.4	10.6	11.4	12.2	66.6	71.5	74.2
<b>South Dakota</b>									
.....	28.2	29.3	30.8	12.6	12.8	13.7	65.2	67.4	68.9
Rapid City .....	3.0	3.2	3.2	1.9	1.8	1.9	9.7	10.0	10.2
Sioux Falls .....	8.5	8.4	8.3	4.7	4.8	5.3	16.8	17.8	18.4
<b>Tennessee</b>									
.....	490.5	497.4	508.2	97.6	103.4	108.8	452.1	477.2	488.2
Chattanooga .....	43.8	46.0	47.2	8.7	9.0	9.1	41.2	43.9	45.2
Johnson City-Kingsport-Bristol .....	52.8	53.2	53.0	6.1	6.0	6.2	34.4	35.7	37.0
Knoxville .....	51.0	50.6	53.6	9.0	9.8	10.2	60.7	63.6	65.0
Memphis .....	51.8	53.6	55.1	35.5	38.8	40.7	111.2	116.3	117.1
Nashville .....	90.5	90.3	89.8	22.7	24.2	24.2	111.5	116.9	118.8
<b>Texas</b>									
.....	951.1	932.0	958.8	374.1	382.0	390.2	1,678.1	1,642.6	1,652.1
Abilene .....	4.9	4.6	4.8	2.6	2.5	2.4	14.0	13.4	13.5
Amarillo .....	9.8	9.8	9.7	6.1	5.7	5.6	23.1	22.3	22.5
Austin .....	40.8	40.1	41.1	11.1	10.9	10.6	81.0	78.2	76.9
Beaumont-Port Arthur .....	25.5	25.1	25.2	10.0	9.9	9.6	32.3	31.9	32.2
Brazoria .....	15.7	15.3	15.5	2.4	2.5	2.7	11.3	11.1	11.1
Brownsville-Harlingen .....	9.5	9.7	10.0	3.2	3.1	3.1	17.9	17.5	17.9
Bryan-College Station .....	3.2	3.2	3.4	1.6	1.5	1.5	10.7	10.1	10.7
Corpus Christi .....	12.2	11.6	11.4	7.2	7.0	6.6	33.5	31.9	31.2
Dallas .....	226.4	221.5	223.1	86.6	89.1	91.3	357.0	344.3	345.5
El Paso .....	35.8	37.5	40.6	9.9	10.4	10.7	44.9	45.7	46.0
Ft. Worth-Arlington .....	113.6	115.1	120.1	27.4	29.3	30.2	137.4	137.4	137.0
Galveston-Texas City .....	9.2	8.5	8.1	5.2	5.3	4.7	14.0	14.2	14.2
Houston .....	153.8	146.5	154.1	96.6	98.4	100.3	361.2	349.8	355.7
Killeen-Temple .....	8.6	8.0	8.1	2.8	2.7	2.7	16.2	16.1	16.3
Laredo .....	1.9	1.8	1.8	3.9	4.3	4.8	10.3	10.5	11.1
Longview-Marshall .....	15.3	15.3	15.9	3.2	3.2	3.0	17.3	16.6	16.9
Lubbock .....	7.5	7.1	7.3	4.7	4.9	4.8	27.2	27.1	28.0
McAllen-Edinburg-Mission .....	11.9	12.4	12.8	2.8	3.0	2.9	25.5	26.7	29.5
Midland .....	3.3	2.7	2.6	2.3	2.1	2.3	10.6	10.2	10.1
Odessa .....	4.0	3.8	4.1	2.1	2.1	2.1	13.4	12.4	12.7
San Angelo .....	5.7	5.6	5.4	3.3	3.2	3.1	9.4	9.4	9.1
San Antonio .....	48.6	46.9	47.6	18.7	18.8	19.0	128.1	128.5	127.3
Sherman-Denison .....	11.5	11.1	11.2	2.0	2.0	2.0	8.3	8.2	7.8
Texarkana .....	7.3	7.4	7.4	1.8	1.8	1.9	11.0	10.7	10.5
Tyler .....	11.4	10.9	10.6	2.9	2.8	2.6	16.5	16.6	16.0
Victoria .....	3.0	2.9	3.0	1.5	1.4	1.4	8.0	7.7	7.5
Waco .....	15.4	14.7	14.6	3.5	3.3	3.3	18.8	18.9	18.7
Wichita Falls .....	8.2	8.4	8.2	2.6	2.6	2.6	12.3	11.9	12.0
<b>Utah</b>									
.....	92.0	92.1	99.0	37.6	37.8	39.6	152.4	152.8	156.3
Provo-Orem .....	10.9	10.5	13.3	2.5	2.8	2.8	15.5	16.0	17.0
Salt Lake City-Ogden .....	62.0	62.0	64.1	29.0	28.8	30.3	111.8	111.7	112.8
<b>Vermont</b>									
.....	49.5	49.6	49.8	9.7	10.1	10.3	53.0	56.8	59.8
Barre-Montpelier .....	4.4	4.6	4.7	.8	.9	.9	6.6	7.1	7.4
Burlington .....	16.7	16.5	16.9	3.0	3.0	3.2	16.1	17.7	18.7

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	Finance, insurance, and real estate			Services			Government		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Pennsylvania—Continued</b>									
Reading .....	7.1	7.6	8.1	28.5	29.3	30.3	16.2	16.4	16.5
Scranton-Wilkes-Barre .....	11.9	12.9	13.3	66.5	70.0	73.5	41.2	41.2	41.7
Williamsport .....	2.2	2.3	2.4	9.2	9.7	10.1	6.5	6.6	6.7
York .....	4.7	4.9	4.6	29.0	30.0	31.6	17.8	18.1	18.1
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	25.0	25.6	26.5	109.3	113.1	115.6	58.0	58.2	59.1
Providence .....	3.5	3.6	3.9	23.5	23.5	24.0	9.7	10.1	10.2
.....	20.9	21.3	22.3	79.0	83.5	86.3	43.5	43.6	43.8
<b>South Carolina</b>									
.....	61.5	63.4	64.9	223.1	240.9	256.3	251.4	258.0	261.5
Charleston .....	8.3	8.4	8.6	36.3	36.6	40.2	48.2	49.9	51.6
Columbia .....	17.4	17.9	17.8	39.6	42.7	45.1	58.3	60.5	61.9
Greenville-Spartanburg .....	11.6	12.0	12.0	47.8	51.6	56.1	39.4	40.5	40.2
<b>South Dakota</b>									
.....	14.2	14.3	14.5	60.5	62.1	64.9	58.8	58.9	59.3
Rapid City .....	1.7	1.8	1.6	6.5	8.9	8.8	6.5	6.7	7.1
Sioux Falls .....	6.1	6.2	6.4	17.3	17.9	19.3	7.3	7.4	7.3
<b>Tennessee</b>									
.....	95.4	101.4	103.9	364.7	408.9	430.0	312.4	321.2	325.6
Chattanooga .....	11.1	12.0	12.5	35.2	37.5	36.3	31.2	33.3	34.6
Johnson City-Kingsport-Bristol .....	4.9	5.2	5.3	27.0	28.7	30.1	23.0	23.7	24.2
Knoxville .....	9.0	9.5	9.6	50.1	53.4	56.4	48.4	50.8	50.3
Memphis .....	22.9	24.2	24.9	93.8	98.9	106.0	69.2	71.1	71.2
Nashville .....	31.4	33.6	34.4	107.0	116.4	121.0	64.2	65.7	67.4
<b>Texas</b>									
.....	449.6	444.9	439.4	1,383.0	1,445.9	1,519.6	1,118.8	1,142.7	1,174.3
Abilene .....	2.6	2.6	2.4	13.2	12.9	13.0	8.2	8.2	8.7
Amarillo .....	4.4	4.5	4.4	16.0	16.2	16.6	13.6	13.8	13.5
Austin .....	25.5	25.2	24.5	83.0	84.5	84.3	94.1	96.6	100.3
Beaumont-Port Arthur .....	5.5	5.3	5.3	27.5	28.4	29.5	19.7	19.9	20.1
Brazoria .....	2.1	2.1	2.0	7.8	7.7	8.1	10.6	10.8	10.8
Brownsville-Harlingen .....	3.4	3.5	3.6	13.2	13.5	15.2	15.4	15.9	16.5
Bryan-College Station .....	1.9	1.8	1.6	8.0	8.3	8.7	19.8	19.9	20.5
Corpus Christi .....	7.0	6.9	6.6	27.4	28.1	28.6	27.2	27.3	27.5
Dallas .....	133.0	132.8	129.5	290.6	309.8	329.6	141.4	147.2	149.4
El Paso .....	9.3	9.3	8.7	34.0	35.5	38.5	38.6	39.9	39.9
Ft. Worth-Arlington .....	28.5	27.7	26.6	108.2	112.0	117.8	62.9	65.5	67.9
Galveston-Texas City .....	4.4	4.2	4.3	12.8	13.4	13.9	20.5	20.7	21.4
Houston .....	105.3	102.9	101.3	340.9	356.8	379.9	166.8	164.8	167.8
Killeen-Temple .....	3.1	2.9	2.9	13.8	15.0	15.9	19.8	20.9	21.2
Laredo .....	1.6	1.6	1.7	5.7	5.8	6.2	8.1	8.4	9.4
Longview-Marshall .....	3.3	2.9	2.7	11.2	11.5	12.1	8.2	8.3	8.4
Lubbock .....	5.5	5.5	5.4	20.3	21.9	22.7	21.0	21.4	21.4
McAllen-Edinburg-Mission .....	4.0	3.8	3.7	13.7	14.2	15.8	22.6	23.5	24.7
Midland .....	2.8	2.5	2.3	8.9	8.9	9.5	6.1	6.1	6.4
Odessa .....	1.7	1.6	1.7	7.3	6.8	7.1	7.4	7.4	7.5
San Angelo .....	1.8	1.8	1.8	7.6	7.7	8.0	8.5	6.5	6.9
San Antonio .....	38.5	39.3	39.4	114.4	120.2	124.4	108.9	113.9	114.8
Sherman-Denison .....	1.6	1.7	1.7	7.4	8.1	8.6	5.1	4.5	4.4
Texarkana .....	1.9	1.9	1.9	8.9	9.1	9.4	12.1	12.4	12.0
Tyler .....	3.8	3.6	3.4	13.3	14.1	14.6	8.8	9.0	9.3
Victoria .....	1.6	1.5	1.5	5.8	5.8	5.9	4.3	4.6	4.8
Waco .....	4.7	4.8	4.9	19.2	19.9	21.1	12.0	12.2	12.5
Wichita Falls .....	2.4	2.3	2.3	11.0	11.5	11.9	9.5	9.5	9.7
<b>Utah</b>									
.....	32.9	33.6	33.3	138.0	147.4	156.4	141.2	141.5	142.7
Provo-Orem .....	2.3	2.4	2.3	25.0	26.8	29.4	13.4	13.4	13.5
Salt Lake City-Ogden .....	27.1	27.6	27.3	94.6	101.1	106.5	93.6	93.1	93.7
<b>Vermont</b>									
.....	11.0	12.0	12.5	57.3	61.0	62.2	38.2	39.0	40.7
Barre-Montpelier .....	2.8	3.0	3.0	6.7	7.3	7.6	7.9	8.2	6.3
Burlington .....	3.2	3.6	3.6	16.9	18.3	18.9	10.8	11.2	11.7

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	Total			Mining			Construction		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Virginia</b> .....	2,557.7	2,680.4	2,780.6	16.5	15.9	15.9	169.5	182.9	195.1
Bristol .....	30.1	31.0	32.0	.1	.1	.1	.9	.9	.9
Charlottesville .....	62.3	65.2	66.8	.1	.1	.1	3.3	3.6	3.9
Danville .....	38.9	40.4	41.5	.1	.1	.1	1.4	1.7	2.1
Lynchburg .....	70.4	71.2	71.8	.1	.1	.1	3.1	3.4	3.6
Norfolk-Virginia Beach-Newport News .....	531.5	553.4	565.1	.1	.1	.1	37.7	39.4	38.1
Northern Virginia .....	658.8	706.3	743.5	.5	.5	.5	48.0	53.0	59.8
Richmond-Petersburg .....	416.9	438.9	452.1	.4	.6	.9	25.9	28.8	30.1
Roanoke .....	117.4	121.1	122.6	.1	.1	.1	6.9	7.6	7.8
<b>Washington</b> .....	1,769.9	1,851.8	1,935.5	2.9	3.0	3.3	84.5	88.9	96.0
Seattle .....	890.2	938.0	985.9	.6	.6	.6	45.4	48.1	51.5
<b>West Virginia</b> .....	597.5	599.0	610.9	40.5	36.4	34.4	22.8	24.0	25.1
Charleston .....	107.6	106.2	107.5	2.5	2.2	1.9	4.3	4.2	4.3
Huntington-Ashland .....	100.5	102.6	104.4	1.1	1.3	1.4	3.7	4.2	3.7
Parkersburg-Marietta .....	58.4	59.3	60.1	.8	.6	.6	2.7	2.9	2.9
Wheeling .....	57.0	58.1	59.6	2.4	2.3	2.5	1.8	2.0	2.0
<b>Wisconsin</b> .....	2,023.9	2,089.6	2,149.0	1.9	2.0	2.2	68.0	72.2	71.5
Appleton-Oshkosh-Neenah .....	139.9	144.4	150.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.9	6.2	6.8
Eau Claire .....	53.0	55.1	56.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.8	1.6
Green Bay .....	91.6	93.6	95.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.9	3.7	3.2
Janesville-Beloit .....	53.3	54.4	56.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.5	1.5
Kenosha .....	37.1	41.2	42.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.6	1.5
La Crosse .....	49.4	51.4	54.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.6	1.9
Madison .....	191.9	199.7	203.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	7.2	6.6
Milwaukee .....	678.1	698.0	717.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21.3	23.2	22.6
Racine .....	68.3	70.6	72.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.0	1.9
Wausau .....	44.2	45.8	48.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.7	1.8
<b>Wyoming</b> .....	196.3	182.6	182.8	19.4	17.9	18.6	16.2	10.8	10.0
<b>Puerto Rico</b> .....	728.3	770.6	816.1	.7	.8	.8	28.6	35.5	41.2
Caguas .....	45.9	49.7	52.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mayaguez .....	53.1	55.1	57.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ponce .....	46.6	49.8	52.8	.1	.1	.1	2.3	3.2	3.9
San Juan .....	446.6	473.3	502.7	.4	.4	.5	21.7	26.5	30.2
<b>Virgin Islands</b> .....	37.7	39.6	41.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.0	2.3

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Virginia</b> .....	424.7	428.9	427.3	137.1	142.6	145.6	579.0	610.2	633.8
Bristol .....	9.7	10.1	10.8	1.1	1.1	1.1	7.8	7.8	8.2
Charlottesville .....	8.6	8.7	8.7	2.1	2.2	2.3	12.2	13.0	13.1
Danville .....	16.5	17.0	16.7	1.0	1.0	1.0	8.1	8.5	9.2
Lynchburg .....	24.0	23.8	22.9	2.9	2.9	2.6	13.5	14.6	16.2
Norfolk-Virginia Beach-Newport News .....	68.8	67.6	67.9	25.8	26.2	26.5	130.0	136.2	140.1
Northern Virginia .....	34.6	35.5	35.3	45.7	48.9	52.7	153.5	159.6	164.5
Richmond-Petersburg .....	62.4	62.3	62.6	22.0	23.1	23.6	101.4	105.1	108.9
Roanoke .....	20.6	19.9	19.9	9.1	8.9	8.4	31.4	33.5	33.7
<b>Washington</b> .....	305.0	318.4	338.6	96.2	98.5	101.5	436.5	458.2	475.2
Seattle .....	172.0	183.1	197.9	57.9	59.5	61.3	219.8	229.9	238.9
<b>West Virginia</b> .....	86.8	86.2	87.0	36.9	36.4	37.0	136.7	138.9	142.6
Charleston .....	12.5	11.1	10.9	8.4	8.4	8.6	28.1	28.0	28.3
Huntington-Ashland .....	19.4	19.2	19.5	7.6	7.9	8.0	25.9	26.4	26.8
Parkersburg-Marietta .....	14.2	13.8	13.9	2.1	2.1	2.2	14.1	14.6	14.5
Wheeling .....	7.0	6.9	7.2	3.1	3.2	3.3	15.2	15.9	16.5
<b>Wisconsin</b> .....	514.5	528.7	550.6	93.7	95.0	97.4	477.2	494.3	505.9
Appleton-Oshkosh-Neenah .....	49.1	50.5	52.6	5.2	5.1	5.4	29.9	30.9	32.1
Eau Claire .....	10.1	10.4	11.3	2.9	3.2	3.0	14.7	15.5	15.4
Green Bay .....	24.6	24.4	24.8	6.4	6.8	7.3	23.9	24.6	24.5
Janesville-Beloit .....	17.2	17.5	18.2	2.1	2.2	2.1	13.3	13.4	13.9
Kenosha .....	10.7	13.3	14.0	1.4	1.4	1.5	8.4	9.2	9.6
La Crosse .....	10.5	10.8	11.2	2.4	2.3	2.2	13.4	14.2	15.5
Madison .....	21.3	23.2	24.3	6.5	6.9	7.1	42.2	44.9	46.1
Milwaukee .....	168.5	168.6	173.4	34.9	34.5	34.9	153.1	159.6	163.3
Racine .....	24.7	24.8	25.7	2.3	2.3	2.3	15.6	16.3	16.4
Wausau .....	12.0	12.7	13.5	2.6	2.7	2.8	10.9	11.2	11.8
<b>Wyoming</b> .....	7.9	8.2	9.0	14.0	12.9	13.5	44.4	41.9	41.4
<b>Puerto Rico</b> .....	148.8	151.0	154.7	16.3	18.2	17.9	128.7	136.7	145.5
Caguas .....	14.6	15.8	16.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.5	9.5	10.8
Mayaguez .....	20.2	19.9	20.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.7	7.9
Ponce .....	9.2	9.5	9.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	7.8	8.4
San Juan .....	64.8	64.2	65.0	12.6	14.6	14.3	88.2	93.8	100.3
<b>Virgin Islands</b> .....	1.8	2.1	2.4	2.5	2.6	2.6	8.6	9.3	9.5

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Virginia</b> .....	131.8	143.6	150.4	579.3	626.1	668.5	519.9	530.3	544.1
Bristol .....	1.0	1.2	1.2	4.5	4.6	4.6	5.1	5.1	5.1
Charlottesville .....	3.1	3.4	3.4	10.9	11.9	12.7	22.0	22.2	22.7
Danville .....	1.2	1.2	1.3	5.8	5.9	6.1	4.9	5.1	5.1
Lynchburg .....	3.3	3.7	3.9	13.9	13.4	13.3	9.5	9.3	9.3
Norfolk-Virginia Beach-Newport News .....	24.4	26.8	27.0	120.0	129.7	135.8	124.8	127.4	129.6
Northern Virginia .....	40.5	46.1	46.9	200.0	223.8	240.3	136.1	139.1	141.5
Richmond-Petersburg .....	33.7	36.7	38.8	84.1	93.0	95.0	87.1	89.4	92.1
Roanoke .....	7.6	8.1	8.3	26.5	27.9	29.1	15.2	15.2	15.4
<b>Washington</b> .....	104.9	107.5	109.8	391.0	420.1	444.3	348.9	357.2	366.8
Seattle .....	66.5	68.0	70.1	200.6	217.8	230.7	127.4	130.9	134.9
<b>West Virginia</b> .....	23.7	24.1	24.2	121.3	124.8	131.0	128.9	128.2	129.7
Charleston .....	5.9	6.0	6.2	24.6	25.2	25.7	21.3	21.1	21.6
Huntington-Ashland .....	4.1	3.9	3.8	19.7	20.2	22.3	19.0	19.6	19.0
Parkersburg-Marietta .....	2.2	2.3	2.3	12.8	13.4	13.7	9.5	9.6	10.0
Wheeling .....	2.8	2.7	2.8	15.6	15.7	15.6	9.4	9.3	9.6
<b>Wisconsin</b> .....	108.1	112.6	115.4	434.9	459.6	479.9	325.8	325.0	326.2
Appleton-Oshkosh-Neenah .....	6.9	7.1	7.2	26.1	27.7	29.5	16.6	16.6	16.8
Eau Claire .....	1.8	1.9	1.8	11.2	11.9	12.6	10.4	10.4	10.7
Green Bay .....	3.2	3.3	3.2	19.0	20.0	21.9	10.5	10.7	11.0
Janesville-Beloit .....	1.6	1.6	1.6	10.9	11.5	12.3	6.6	6.7	7.1
Kenosha .....	1.1	1.1	1.1	8.1	8.5	8.6	6.2	6.2	6.1
La Crosse .....	1.5	1.4	1.6	12.6	13.6	14.8	7.2	7.1	7.3
Madison .....	16.9	17.7	18.3	40.4	43.2	45.1	57.8	56.4	56.2
Milwaukee .....	46.7	48.8	50.4	172.2	181.5	190.0	81.2	81.5	82.2
Racine .....	2.2	2.3	2.3	13.5	14.8	16.1	8.1	8.1	8.2
Wausau .....	3.3	3.4	3.5	7.7	8.1	8.5	6.1	6.0	6.0
<b>Wyoming</b> .....	8.0	7.5	7.2	33.2	32.9	33.1	53.1	50.5	50.1
<b>Puerto Rico</b> .....	33.4	34.9	36.0	104.0	112.3	120.5	267.7	281.2	299.4
Caguas .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15.3	15.9	16.4
Mayaguez .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17.6	18.5	19.6
Ponce .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.8	9.5	9.9	15.8	16.7	17.4
San Juan .....	27.1	28.2	28.6	74.4	80.3	87.3	157.4	165.3	176.7
<b>Virgin Islands</b> .....	1.6	1.8	1.9	7.7	9.0	9.3	13.1	12.8	13.2

<sup>1</sup> Not available.

<sup>2</sup> 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 1988 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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Alabama</b> .....	41.1	41.4	41.4	\$8.64	\$8.76	\$9.01	\$355.10	\$362.66	\$374.67
Birmingham .....	41.2	41.1	41.5	8.74	8.99	9.12	360.09	369.49	378.48
Mobile .....	41.2	41.5	40.8	10.15	10.18	10.58	418.18	422.47	431.66
<b>Alaska</b> .....	41.1	42.7	42.2	11.62	11.79	12.28	477.58	503.43	518.22
<b>Arizona</b> .....	41.0	40.6	41.1	9.88	9.97	9.89	405.08	404.78	406.48
<b>Arkansas</b> .....	40.4	41.0	40.9	7.76	7.88	8.07	313.50	323.08	330.06
Fayetteville-Springdale .....	40.5	41.0	41.0	6.91	7.10	7.20	279.86	291.10	295.20
Fort Smith .....	40.3	40.7	40.9	8.13	8.47	8.67	327.64	344.73	354.60
Little Rock-North Little Rock .....	40.7	41.4	41.1	8.35	8.55	8.52	339.85	353.97	350.17
Pine Bluff .....	43.0	43.1	43.3	10.20	10.69	10.61	438.60	460.74	459.41
<b>California</b> .....	40.3	( <sup>1</sup> )	( <sup>1</sup> )	10.37	( <sup>1</sup> )	( <sup>1</sup> )	417.91	( <sup>1</sup> )	( <sup>1</sup> )
<b>Colorado</b> .....	39.9	40.2	40.0	9.82	10.05	10.26	391.82	404.01	410.40
Denver .....	40.2	39.5	40.2	10.78	10.57	10.81	433.36	417.52	434.56
<b>Connecticut</b> .....	41.8	42.1	41.8	10.07	10.46	10.81	420.93	440.37	451.86
Bridgeport-Milford .....	41.0	41.8	41.7	10.34	10.86	11.21	423.94	453.95	467.46
Hartford .....	41.9	42.1	42.5	10.31	10.68	11.27	431.99	449.63	478.98
New Britain .....	41.9	43.3	42.7	10.48	10.75	11.20	439.11	465.48	478.24
New Haven-Meriden .....	41.1	40.7	40.9	9.63	10.08	10.26	395.79	410.26	419.63
Stamford .....	40.4	40.9	40.0	10.74	11.32	12.16	433.90	462.99	486.40
Waterbury .....	42.6	42.7	43.4	8.51	8.99	9.75	362.53	383.87	423.15
<b>Delaware</b> .....	41.3	40.7	39.7	10.05	10.67	10.48	415.07	434.27	416.06
Wilmington .....	38.2	41.4	40.6	11.55	12.69	13.07	441.21	525.37	530.64
<b>District of Columbia:</b>									
Washington MSA .....	38.5	39.2	39.3	10.40	10.73	11.25	400.40	420.62	442.13
<b>Florida</b> .....	40.8	40.8	40.8	8.02	8.16	8.40	327.22	332.93	342.72
Fort Lauderdale-Hollywood-Pompano Beach .....	41.4	42.3	41.5	7.83	8.03	8.34	324.16	339.67	346.11
Jacksonville .....	41.5	41.2	41.0	8.59	8.80	9.12	356.49	362.56	373.92
Miami-Hialeah .....	39.2	38.9	39.5	7.02	7.06	7.19	275.18	274.63	284.01
Orlando .....	41.6	40.7	40.5	8.36	8.58	8.88	347.78	349.21	359.64
Pensacola .....	42.6	42.4	42.4	9.89	10.60	10.83	421.31	449.44	459.19
Tampa-St. Petersburg-Clearwater .....	40.2	40.1	40.8	7.52	7.60	8.14	302.30	304.76	332.11
West Palm Beach-Boca Raton-Delray Beach .....	41.1	41.6	41.2	8.62	9.13	9.29	354.28	379.81	382.75
<b>Georgia</b> .....	40.9	41.6	41.5	8.35	8.49	8.68	341.52	353.18	360.22
Atlanta .....	40.7	41.6	41.4	10.12	10.07	10.23	411.88	418.91	423.52
Savannah .....	44.4	45.6	48.0	10.55	10.94	11.43	468.42	498.86	548.64
<b>Hawaii</b> .....	38.9	39.4	40.1	8.86	9.30	9.79	344.65	366.42	392.58
Honolulu .....	38.9	39.2	40.0	9.00	9.49	9.94	350.10	372.01	397.60
<b>Idaho</b> .....	38.2	38.1	37.9	9.66	9.75	9.93	369.01	371.48	376.35
<b>Illinois</b> .....	40.9	41.6	41.7	10.67	10.85	11.03	436.40	451.36	459.95
Aurora-Elgin .....	40.4	42.1	42.2	9.97	10.49	10.48	402.79	441.63	442.26
Bloomington-Normal .....	40.7	40.6	40.3	10.81	10.79	11.34	439.97	438.07	457.00
Champaign-Urbana-Rantoul .....	40.2	40.5	40.4	9.19	9.32	9.31	369.44	377.46	376.12
Chicago .....	41.8	42.0	42.2	10.46	10.60	10.71	437.23	445.20	451.96
Davenport-Rock Island-Moline .....	40.5	40.4	39.7	12.48	12.76	12.79	505.44	515.50	507.76
Decatur .....	40.8	41.6	42.3	13.62	14.02	14.29	555.70	583.23	604.47
Joliet .....	41.4	41.3	41.6	11.58	11.72	12.17	479.41	484.04	506.27
Kankakee .....	39.9	39.5	40.8	10.12	9.92	10.72	403.79	391.84	437.38
Lake County .....	40.9	40.0	40.8	10.50	10.97	11.48	429.45	438.80	468.38
Peoria .....	42.4	43.7	46.4	12.88	13.10	13.41	546.11	572.47	622.22
Rockford .....	42.7	41.8	42.9	11.12	11.18	11.68	474.82	467.32	501.07
Springfield .....	41.9	42.2	42.4	11.65	11.72	11.80	488.14	494.58	500.32
<b>Indiana</b> .....	41.5	41.9	41.8	10.81	11.06	11.38	448.62	463.41	475.68

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Iowa</b> .....	40.6	41.3	41.7	\$10.35	\$10.62	\$10.64	\$420.21	\$438.61	\$443.69
Cedar Rapids .....	40.3	40.3	40.5	11.36	11.85	12.19	457.81	477.56	493.70
Des Moines .....	40.1	42.0	42.3	11.42	11.80	11.86	457.94	495.60	501.68
Dubuque .....	39.7	42.4	41.7	11.23	12.13	11.81	445.83	518.55	492.48
Sioux City .....	40.4	39.4	35.5	8.50	8.42	8.42	343.40	331.75	298.91
<b>Kansas</b> .....	40.3	40.8	40.7	9.76	9.97	10.19	393.33	406.78	414.73
Topeka .....	40.6	42.3	43.0	11.05	11.38	11.44	448.63	481.37	491.92
Wichita .....	38.9	39.9	40.9	10.21	10.81	10.72	397.17	431.32	438.45
<b>Kentucky</b> .....	39.2	40.5	40.5	9.86	10.02	10.15	386.51	405.81	411.08
Lexington-Fayette .....	37.4	39.7	39.7	10.30	10.44	10.34	385.22	414.47	410.50
Louisville .....	40.9	41.9	41.8	10.90	11.45	11.76	445.81	479.76	491.57
<b>Louisiana</b> .....	41.8	41.8	42.4	10.60	10.90	10.91	443.08	455.62	462.58
Baton Rouge .....	42.2	43.1	43.0	12.36	12.18	12.78	521.59	524.96	549.54
New Orleans .....	40.5	40.2	41.1	10.67	10.64	10.54	432.14	427.73	433.19
Shreveport .....	40.9	40.4	40.9	11.22	11.67	11.58	458.90	471.47	473.62
<b>Maine</b> .....	40.6	41.5	41.0	8.65	8.77	9.31	351.19	363.96	381.71
Lewiston-Auburn .....	38.6	40.2	39.2	7.19	7.40	8.08	277.53	297.48	316.74
Portland .....	38.9	40.6	40.9	9.17	9.13	9.58	356.71	370.68	391.82
<b>Maryland</b> .....	40.5	40.8	41.5	9.91	10.11	10.47	401.36	412.49	434.51
Baltimore MSA .....	41.5	41.9	41.6	10.39	10.89	11.20	431.19	456.29	465.92
<b>Massachusetts</b> .....	41.3	41.0	41.3	9.24	9.77	10.26	381.61	400.57	423.74
Boston .....	40.5	40.6	41.5	10.12	10.66	10.98	409.86	432.80	455.67
Springfield .....	42.4	42.3	42.8	8.98	9.21	9.71	380.75	389.58	415.59
Worcester .....	40.4	40.7	40.7	9.42	9.86	10.43	380.57	401.30	424.50
<b>Michigan</b> .....	42.6	42.2	43.3	12.80	12.97	13.43	545.28	547.33	581.52
Ann Arbor .....	44.0	44.8	46.1	13.83	14.02	14.55	608.52	628.10	670.75
Battle Creek .....	41.8	43.2	42.2	13.45	13.70	14.15	562.21	591.84	597.13
Detroit .....	43.6	43.4	44.3	13.74	13.87	14.44	599.06	601.96	639.69
Flint .....	43.7	41.8	43.7	14.57	15.26	16.70	636.71	637.87	729.79
Grand Rapids .....	40.7	40.1	41.2	10.70	11.06	11.35	435.49	443.51	467.62
Jackson .....	41.5	41.6	42.6	10.19	9.95	10.02	422.88	413.92	426.85
Kalamazoo .....	43.1	43.0	42.7	11.91	12.10	12.44	513.32	520.30	531.19
Lansing-East Lansing .....	42.5	41.8	42.0	14.25	13.86	14.56	605.63	579.35	611.52
Muskegon .....	40.4	40.9	40.9	11.51	11.85	11.96	465.00	484.66	489.16
Saginaw-Bay City-Midland .....	43.6	42.7	43.7	14.03	14.48	15.14	611.71	618.30	661.62
<b>Minnesota</b> .....	40.6	40.9	40.7	10.20	10.37	10.56	414.12	424.13	429.79
Duluth .....	37.4	38.1	38.2	10.77	10.83	11.05	402.80	412.62	422.11
Minneapolis-St. Paul .....	40.9	40.8	41.0	10.99	11.15	11.20	449.49	454.92	459.20
St. Cloud .....	39.4	39.0	39.2	9.40	9.43	9.92	370.36	367.77	388.86
<b>Mississippi</b> .....	40.2	40.3	40.3	7.46	7.59	7.83	299.89	305.88	315.55
Jackson .....	40.2	40.2	40.7	8.30	8.55	8.80	333.66	343.71	358.16
<b>Missouri</b> .....	40.5	40.6	40.9	9.83	10.00	10.17	398.12	406.00	415.95
Kansas City .....	40.6	40.4	40.9	11.15	11.14	11.45	452.69	450.06	468.31
St. Louis .....	40.8	41.3	41.3	11.32	11.63	11.81	461.86	480.32	487.75
Springfield .....	40.9	39.8	40.2	8.84	8.58	8.49	361.56	341.48	341.30
<b>Montana</b> .....	39.4	38.6	39.3	10.94	10.61	10.63	431.04	409.55	417.76
<b>Nebraska</b> .....	40.4	40.5	40.5	9.26	9.33	9.49	374.10	377.87	384.35
Lincoln .....	40.3	40.7	40.6	9.72	9.90	10.06	391.72	402.93	408.44
Omaha .....	40.4	40.5	41.5	9.82	9.98	10.24	396.73	404.19	424.96
<b>Nevada</b> .....	40.2	40.3	39.7	9.36	9.76	10.08	376.27	393.33	400.18
Las Vegas .....	39.4	40.2	40.2	11.32	12.16	12.60	446.01	488.83	506.52
<b>New Hampshire</b> .....	41.2	41.2	40.5	8.77	9.29	9.73	361.32	382.75	394.07
Manchester .....	40.5	40.4	39.2	8.79	9.41	10.08	356.00	380.16	395.14
Nashua .....	41.4	41.4	40.5	10.52	11.26	11.84	435.53	466.16	479.52
Portsmouth-Dover-Rochester .....	40.3	40.1	41.2	8.78	9.23	9.33	353.83	370.12	384.40

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>New Jersey</b> .....	41.2	41.2	41.0	\$10.12	\$10.40	\$10.88	\$416.94	\$428.48	\$446.08
<b>New Mexico</b> .....	39.5	39.7	40.5	8.75	8.74	8.78	345.63	346.98	355.59
Albuquerque .....	39.7	39.9	40.5	8.84	9.07	9.36	350.95	361.89	379.08
<b>New York</b> .....	39.9	39.9	39.9	9.92	10.09	10.43	395.81	402.59	416.16
Albany-Schenectady-Troy .....	40.6	39.9	40.8	10.23	10.56	11.06	415.34	421.34	451.25
Binghamton .....	40.3	40.4	40.4	8.97	9.22	9.64	361.49	372.49	389.46
Buffalo .....	42.4	41.7	43.4	12.03	11.98	12.29	510.07	499.57	533.39
Elmira .....	41.1	41.2	41.5	9.43	9.54	9.70	387.57	393.05	402.55
Nassau-Suffolk .....	40.4	40.2	39.5	10.04	10.69	11.13	405.62	429.74	439.64
New York PMSA .....	37.4	37.4	37.2	9.17	9.51	9.82	342.96	355.67	365.30
New York City .....	37.0	37.1	37.0	9.01	9.36	9.58	333.37	347.26	354.46
Niagara Falls .....	41.7	41.2	42.3	12.67	12.88	13.47	528.34	530.66	569.78
Orange County .....	38.9	38.6	38.9	7.90	7.97	8.25	307.31	307.64	320.93
Poughkeepsie .....	42.4	41.8	41.2	9.03	9.40	9.94	382.87	392.92	409.53
Rochester .....	41.6	41.8	43.1	11.98	11.97	12.41	498.37	500.35	534.87
Rockland County .....	40.9	39.5	36.0	9.59	10.31	10.91	392.23	407.25	392.76
Syracuse .....	41.0	41.3	41.9	11.20	11.22	11.95	459.20	463.39	500.71
Utica-Rome .....	41.5	41.8	41.5	9.31	9.58	9.71	386.37	399.81	402.97
Westchester County .....	39.1	39.6	40.1	10.28	10.40	11.33	401.95	411.84	454.33
<b>North Carolina</b> .....	40.7	41.2	40.5	7.54	7.84	8.13	306.88	323.01	329.27
Asheville .....	41.4	42.0	41.3	7.81	7.88	8.16	315.05	330.98	337.01
Charlotte-Gastonia-Rock Hill .....	41.5	42.1	40.7	7.74	8.08	8.43	321.21	340.17	343.10
Greensboro-Winston-Salem-High Point .....	40.2	40.7	40.1	8.32	8.65	9.04	334.46	352.06	362.50
Raleigh-Durham .....	41.5	41.9	41.8	8.58	8.93	9.19	356.07	374.17	384.14
<b>North Dakota</b> .....	38.2	38.7	38.8	8.19	8.43	8.37	312.86	326.24	324.76
Fargo-Moorhead .....	37.5	37.6	38.8	8.47	8.50	8.38	317.83	319.60	325.14
<b>Ohio</b> .....	42.1	42.6	43.0	11.56	11.73	12.00	486.68	499.70	516.00
Akron .....	43.2	43.1	43.2	11.22	11.30	11.49	484.70	487.03	496.37
Canton .....	40.3	41.9	42.9	11.21	11.34	11.41	451.76	475.15	489.49
Cincinnati .....	42.1	42.7	42.5	10.76	10.95	11.15	453.00	467.57	473.88
Cleveland .....	42.1	42.9	43.3	11.44	11.57	11.84	481.62	496.35	512.67
Columbus .....	41.1	41.5	41.5	11.22	11.41	11.57	481.14	473.52	480.16
Dayton-Springfield .....	42.8	42.0	43.4	12.03	11.89	12.59	514.88	499.38	546.41
Toledo .....	42.4	42.5	43.4	12.43	12.72	13.12	527.03	540.60	569.41
Youngstown-Warren .....	41.8	42.7	42.8	13.30	13.30	13.52	553.28	567.91	575.95
<b>Oklahoma</b> .....	41.3	41.2	41.1	9.80	10.14	10.35	404.74	417.77	425.39
Oklahoma City .....	40.3	40.5	41.5	10.88	11.18	11.50	437.66	452.79	477.25
Tulsa .....	39.8	41.3	41.8	10.49	10.66	10.80	417.50	440.26	449.28
<b>Oregon</b> .....	39.0	39.2	39.4	10.57	10.56	10.64	412.23	413.95	419.22
Eugene-Springfield .....	39.8	39.5	39.9	10.80	10.66	10.62	427.68	421.07	423.74
Portland .....	39.3	39.4	39.7	10.85	10.80	10.84	426.41	425.52	430.35
Salem .....	37.2	38.0	38.2	9.02	8.98	8.94	335.54	341.24	341.51
<b>Pennsylvania</b> .....	40.2	40.9	41.0	9.74	9.98	10.27	391.55	408.18	421.07
Allentown-Bethlehem .....	38.8	39.8	40.1	10.21	10.53	10.49	396.15	419.09	420.65
Altoona .....	38.8	39.4	40.4	8.56	8.64	8.79	332.13	340.42	355.12
Beaver County .....	41.0	41.5	42.4	11.68	11.06	10.68	478.88	458.99	452.83
Erie .....	41.9	42.0	43.0	10.21	10.28	10.48	427.80	431.76	450.84
Harrisburg-Lebanon-Carlisle .....	39.8	39.9	39.8	9.25	9.35	9.55	368.15	373.07	380.09
Johnstown .....	37.8	39.1	39.6	8.30	8.41	8.49	313.74	328.83	336.20
Lancaster .....	40.2	40.3	40.5	9.45	9.70	10.10	379.89	390.91	409.05
Philadelphia PMSA .....	40.3	40.7	40.4	10.43	10.85	11.27	420.33	441.60	455.31
Pittsburgh .....	41.2	41.9	42.2	11.07	11.18	11.27	456.08	468.44	475.59

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		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
<b>Pennsylvania-Continued</b>									
Reading .....	40.5	41.2	40.9	\$9.91	\$10.18	\$10.73	\$401.36	\$419.42	\$438.86
Scranton-Wilkes-Barre .....	38.5	38.9	38.9	8.55	8.75	8.94	329.18	340.38	347.77
Williamsport .....	40.0	41.5	41.0	8.62	8.54	8.98	344.80	354.41	368.18
York .....	41.5	42.6	42.5	9.17	9.42	9.79	380.56	401.29	416.08
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	40.4	40.0	39.5	7.90	8.20	8.55	319.16	328.00	337.73
Providence .....	40.4	40.5	40.0	7.41	7.73	8.13	299.36	313.07	325.20
Providence .....	39.9	39.8	39.3	7.91	8.22	8.53	315.61	327.16	335.23
<b>South Carolina</b>									
Charleston .....	41.1	41.7	41.4	7.92	8.10	8.30	325.51	337.77	343.62
Columbia .....	41.9	42.0	41.1	9.17	9.11	9.18	384.22	382.62	377.30
Greenville-Spartanburg .....	40.2	41.1	41.3	7.72	7.92	8.37	310.34	325.51	345.68
Greenville-Spartanburg .....	41.3	41.7	41.4	7.76	8.00	8.25	320.49	333.60	341.55
<b>South Dakota</b>									
Sioux Falls .....	42.1	41.7	41.4	7.75	7.92	8.03	326.28	330.26	332.44
Sioux Falls .....	45.8	43.9	43.3	7.91	7.94	8.20	362.28	348.57	355.06
<b>Tennessee</b>									
Chattanooga .....	41.2	41.6	41.6	8.58	8.78	8.96	353.50	365.25	372.74
Johnson City-Kingsport-Bristol .....	42.0	42.4	43.0	7.62	7.90	8.10	320.04	334.96	348.30
Knoxville .....	43.7	43.8	43.9	9.07	9.21	9.44	396.36	403.40	414.42
Memphis .....	39.4	40.7	40.8	8.95	9.08	8.99	352.63	369.56	366.79
Nashville .....	43.0	42.9	42.6	8.78	8.84	9.09	377.54	379.24	387.23
Nashville .....	39.6	42.4	41.6	9.56	10.23	10.45	378.58	433.75	434.72
<b>Texas</b>									
Dallas .....	41.4	41.6	41.7	9.65	9.85	9.97	399.51	409.76	415.75
Ft. Worth-Arlington .....	41.9	41.5	41.6	9.45	9.76	9.86	395.96	405.04	410.18
Houston .....	41.8	41.1	41.4	9.69	9.89	10.63	405.04	406.48	440.08
San Antonio .....	42.3	43.6	43.8	11.15	11.25	11.36	471.65	490.50	497.57
San Antonio .....	41.0	40.2	39.9	7.36	7.62	7.52	301.76	306.32	300.05
<b>Utah</b>									
Salt Lake City-Ogden .....	40.0	39.5	40.4	9.98	9.96	9.93	399.20	393.42	401.17
Salt Lake City-Ogden .....	40.4	40.3	40.8	9.75	9.94	9.88	393.90	400.58	403.10
<b>Vermont</b>									
Burlington .....	40.7	40.6	40.9	8.83	9.12	9.45	359.38	370.27	386.51
Burlington .....	42.8	41.0	41.2	9.65	9.98	9.74	413.02	409.18	401.28
<b>Virginia</b>									
Bristol .....	40.4	41.1	41.0	8.83	9.14	9.35	356.73	375.65	383.35
Charlottesville .....	40.5	41.9	43.1	7.49	7.80	7.82	303.35	326.82	337.04
Danville .....	40.6	41.2	41.2	7.42	7.43	7.71	301.25	306.12	317.65
Lynchburg .....	40.6	42.6	41.5	8.24	8.27	8.58	334.54	352.30	356.07
Northern Virginia .....	40.9	41.8	40.8	8.43	8.62	8.79	344.79	360.32	358.63
Richmond-Petersburg .....	40.9	39.4	39.8	9.33	9.84	10.49	381.60	387.70	417.50
Roanoke .....	40.5	41.4	41.5	11.16	11.77	12.03	451.98	487.28	499.25
Roanoke .....	40.7	41.5	41.1	8.24	8.86	9.32	335.37	367.69	383.05
<b>Washington</b>									
Seattle .....	39.4	39.9	40.1	11.65	11.73	11.83	459.01	468.03	474.38
<b>West Virginia</b>									
Charleston .....	40.3	40.6	41.0	10.38	10.55	10.72	418.31	428.33	439.52
Huntington-Ashland .....	42.2	42.3	43.8	12.78	13.01	13.58	539.32	550.32	594.80
Parkersburg-Marietta .....	39.3	39.7	41.4	11.72	12.05	12.31	460.60	478.39	509.63
Wheeling .....	42.2	41.8	42.4	12.22	12.21	12.50	515.68	510.38	530.00
Wheeling .....	40.5	41.2	40.8	11.62	12.02	11.89	470.61	495.22	485.11
<b>Wisconsin</b>									
Appleton-Oshkosh .....	41.3	41.4	41.7	10.35	10.55	10.64	427.46	436.77	443.69
Eau Claire .....	42.6	42.7	43.0	10.32	10.83	11.26	439.63	462.44	484.18
Green Bay .....	40.5	40.9	40.5	10.42	10.76	10.76	422.01	440.08	435.78
Janesville-Beloit .....	42.1	41.6	42.0	11.22	11.30	11.40	472.36	470.08	478.80
Kenosha .....	39.8	38.4	41.7	11.98	12.18	12.73	476.80	467.71	530.84
La Crosse .....	40.0	40.6	41.6	11.16	12.32	13.03	446.40	500.19	542.05
Madison .....	39.3	39.9	39.6	9.26	9.14	9.15	363.92	364.69	362.34
Milwaukee .....	40.9	40.7	41.4	9.76	9.86	9.95	399.18	401.30	411.93
Racine .....	41.2	41.5	41.5	11.65	11.72	11.59	479.98	486.38	480.99
Wausau .....	40.3	40.9	40.4	10.86	11.06	10.89	437.66	452.35	439.96
Wausau .....	41.8	42.7	42.2	9.79	9.94	10.10	409.22	424.44	426.22
<b>Wyoming</b>									
Wyoming .....	39.0	38.8	38.0	9.68	9.75	9.88	377.52	378.30	375.44
<b>Puerto Rico</b>									
Puerto Rico .....	39.0	38.9	39.1	5.31	5.43	5.54	207.09	211.23	216.61
<b>Virgin Islands</b>									
Virgin Islands .....	41.9	42.2	40.4	9.60	9.40	9.86	402.24	396.68	398.34

<sup>1</sup> 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 1988 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	
	1987	1988	1987	1988	1987	1988
<b>Alabama</b> .....	1,895.0	1,887.0	147.0	136.0	7.8	7.2
Birmingham .....	444.9	439.2	30.0	26.3	6.7	6.0
Huntsville .....	130.6	132.7	6.7	6.8	5.2	5.1
Mobile .....	213.0	208.8	19.8	18.8	9.3	9.0
Montgomery .....	137.2	136.7	8.8	8.5	6.4	6.2
Tuscaloosa .....	69.7	70.0	4.2	3.8	6.1	5.4
<b>Alaska</b> .....	248.0	242.0	27.0	23.0	10.8	9.3
<b>Arizona</b> .....	1,612.0	1,654.0	101.0	104.0	6.2	6.3
Phoenix .....	1,000.7	1,027.7	52.3	52.5	5.2	5.1
Tucson .....	307.1	311.9	15.6	16.0	5.1	5.1
<b>Arkansas</b> .....	1,092.0	1,123.0	89.0	86.0	8.1	7.7
Fayetteville-Springdale .....	58.3	61.6	2.4	2.6	4.1	4.2
Fort Smith .....	91.0	93.1	5.6	6.2	6.1	6.7
Little Rock-North Little Rock .....	257.8	265.7	18.5	17.1	7.2	6.4
Pine Bluff .....	37.1	37.6	3.4	3.1	9.1	8.3
<b>California</b> .....	13,729.0	14,036.0	791.0	743.0	5.8	5.3
Anaheim-Santa Ana .....	1,294.2	1,345.7	42.2	40.9	3.3	3.0
Bakersfield .....	224.7	225.7	23.6	23.0	10.5	10.2
Fresno .....	295.5	304.7	31.4	32.3	10.6	10.6
Los Angeles-Long Beach .....	4,234.0	4,173.1	249.0	203.2	5.9	4.9
Modesto .....	149.6	157.2	18.0	18.7	12.1	11.9
Oakland .....	1,028.7	1,066.2	51.8	49.3	5.0	4.6
Oxnard-Ventura .....	334.9	351.7	18.6	18.7	5.5	5.3
Riverside-San Bernardino .....	895.1	939.7	50.9	55.0	5.7	5.9
Sacramento .....	669.8	701.0	37.3	37.6	5.6	5.4
San Diego .....	1,059.4	1,118.3	47.7	48.0	4.5	4.3
San Francisco .....	862.4	879.3	33.3	31.4	3.9	3.6
San Jose .....	807.2	836.4	36.4	33.0	4.5	4.0
Santa Barbara-Santa Maria-Lompoc .....	175.1	178.7	8.2	7.9	4.7	4.4
Santa Rosa-Petaluma .....	186.4	193.2	9.0	9.2	4.8	4.8
Stockton .....	189.6	194.8	18.6	18.8	9.8	9.7
Vallejo-Fairfield-Napa .....	182.8	190.6	10.8	10.6	5.9	5.5
<b>Colorado</b> .....	1,694.0	1,699.0	130.0	109.0	7.7	6.4
Boulder-Longmont .....	127.7	131.4	7.3	6.4	5.7	4.8
Denver .....	881.7	879.3	63.1	52.1	7.2	5.9
<b>Connecticut</b> .....	1,752.0	1,746.0	58.0	52.0	3.3	3.0
Bridgeport-Milford .....	230.8	230.8	9.2	8.6	4.0	3.7
Hartford .....	425.4	423.8	12.9	11.7	3.0	2.8
New Britain .....	72.2	72.3	2.7	2.3	3.7	3.2
New Haven-Meriden .....	272.5	274.9	8.6	7.8	3.2	2.9
Stamford .....	117.6	115.2	2.7	2.3	2.3	2.0
Waterbury .....	102.8	100.1	4.6	3.8	4.5	3.8
<b>Delaware</b> .....	332.0	349.0	11.0	11.0	3.2	3.2
Wilmington .....	288.4	301.7	10.7	11.1	3.7	3.7
<b>District of Columbia</b> .....	331.0	337.0	21.0	17.0	6.3	5.0
Washington .....	2,117.4	2,201.4	66.8	64.7	3.2	2.9
<b>Florida</b> .....	5,870.0	6,104.0	312.0	305.0	5.3	5.0
Daytona Beach .....	145.7	152.0	6.8	6.8	4.7	4.5
Fort Lauderdale-Hollywood-Pompano Beach .....	610.6	634.7	25.7	26.2	4.2	4.1
Fort Myers-Cape Coral .....	130.8	140.7	5.0	5.1	3.8	3.6
Jacksonville .....	441.3	457.8	23.5	24.3	5.3	5.3
Melbourne-Titusville-Palm Bay .....	175.0	184.6	9.6	8.6	5.5	4.7
Miami-Hialeah .....	915.2	941.9	53.0	50.3	5.8	5.3
Orlando .....	554.2	579.9	25.6	26.3	4.6	4.5
Pensacola .....	147.6	148.5	9.5	9.1	6.5	6.1
Sarasota .....	116.0	122.3	4.2	4.2	3.6	3.4
Tallahassee .....	124.5	129.0	4.9	4.8	3.9	3.7
Tampa-St. Petersburg-Clearwater .....	961.4	994.1	46.6	45.7	4.8	4.6
West Palm Beach-Boca Raton-Delray Beach .....	391.7	408.9	21.1	20.6	5.4	5.0

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	
	1987	1988	1987	1988	1987	1988
<b>Georgia</b> .....	3,055.0	3,192.0	168.0	185.0	5.5	5.8
Athens .....	72.2	75.2	3.2	3.4	4.4	4.5
Atlanta .....	1,444.2	1,508.1	67.4	76.9	4.7	5.1
Augusta .....	178.9	182.7	10.8	10.9	5.9	5.9
Columbus .....	100.4	102.4	6.4	6.8	8.3	6.6
Macon-Warner Robins .....	128.0	131.8	6.7	7.0	5.2	5.3
Savannah .....	109.6	114.6	6.6	7.4	6.0	6.5
<b>Hawaii</b> .....	513.0	516.0	20.0	16.0	3.8	3.2
Honolulu .....	382.3	382.6	13.6	10.6	3.6	2.8
<b>Idaho</b> .....	473.0	475.0	38.0	28.0	8.0	5.8
Boise City .....	103.5	105.5	5.9	4.1	5.7	3.9
<b>Illinois</b> .....	5,751.0	5,766.0	423.0	392.0	7.4	6.8
Aurora-Elgin .....	173.9	178.6	10.6	9.5	6.1	5.3
Bloomington-Normal .....	86.9	88.4	3.1	3.5	4.6	5.1
Champaign-Urbana-Rantoul .....	88.2	88.3	3.9	3.7	4.5	4.2
Chicago .....	3,160.3	3,177.7	210.6	198.2	6.7	6.2
Davenport-Rock Island-Moline .....	161.8	180.8	14.2	13.7	7.8	7.6
Decatur .....	58.7	58.4	5.7	5.2	9.8	8.9
Joliet .....	195.6	193.5	16.0	14.6	8.2	7.5
Kankakee .....	44.3	44.2	4.2	4.2	9.5	9.5
Lake County .....	264.1	275.6	12.3	11.9	4.7	4.3
Peoria .....	154.3	155.2	12.5	10.6	8.1	6.8
Rockford .....	148.9	148.2	14.2	11.0	9.5	7.4
Springfield .....	109.6	109.2	5.8	5.7	5.3	5.3
<b>Indiana</b> .....	2,752.0	2,817.0	176.0	150.0	6.4	5.3
Anderson .....	59.8	59.9	4.1	3.7	6.9	6.2
Bloomington .....	58.3	61.3	2.5	2.1	4.3	3.4
Elkhart-Goshen .....	92.9	97.1	4.6	4.0	4.9	4.1
Evansville .....	142.3	143.6	10.2	8.6	7.2	6.0
Fort Wayne .....	194.4	199.3	10.7	9.6	5.5	4.8
Gary-Hammond .....	255.1	257.8	24.1	16.4	9.4	6.3
Indianapolis .....	654.3	675.0	34.0	31.2	5.2	4.6
Lafayette-West Lafayette .....	65.4	67.2	2.3	2.0	3.5	3.0
Muncie .....	59.7	60.7	4.2	3.5	7.0	5.8
South Bend-Mishawaka .....	127.2	130.8	6.9	6.4	5.5	4.9
Terre Haute .....	59.0	59.7	3.9	3.6	6.6	6.1
<b>Iowa</b> .....	1,449.0	1,500.0	80.0	67.0	5.5	4.5
Cedar Rapids .....	91.8	95.8	4.8	3.6	5.2	3.7
Des Moines .....	221.1	231.6	9.8	8.6	4.5	3.7
Dubuque .....	43.6	44.0	2.7	2.4	6.1	5.5
Sioux City .....	60.0	60.4	4.1	3.1	6.9	5.2
Waterloo-Cedar Falls .....	68.2	70.4	5.6	3.9	8.2	5.5
<b>Kansas</b> .....	1,267.0	1,277.0	62.0	61.0	4.9	4.8
Topeka .....	90.9	92.1	4.3	4.3	4.7	4.7
Wichita .....	247.7	254.4	12.6	12.8	5.1	5.0
<b>Kentucky</b> .....	1,684.0	1,710.0	146.0	134.0	8.8	7.9
Lexington-Fayette .....	184.1	193.8	9.4	9.1	5.1	4.7
Louisville .....	494.2	504.3	34.3	31.6	6.9	6.3
Owensboro .....	44.5	43.6	4.7	3.6	10.6	8.2
<b>Louisiana</b> .....	1,949.0	1,921.0	234.0	209.0	12.0	10.9
Alexandria .....	61.0	60.0	6.1	6.0	10.0	10.0
Baton Rouge .....	264.1	270.0	26.4	25.2	10.0	9.3
Houma-Thibodaux .....	73.6	70.4	11.6	7.8	15.7	11.1
Lafayette .....	100.7	99.8	12.8	9.8	12.7	9.8
Monroe .....	70.2	69.1	7.1	7.2	10.0	10.4
New Orleans .....	602.4	597.3	60.8	56.6	10.1	9.5
Shreveport .....	167.4	162.7	18.5	17.3	11.1	10.6
<b>Maine</b> .....	587.0	598.0	26.0	22.0	4.4	3.8
Lewiston-Auburn .....	41.3	41.7	2.2	1.8	5.4	4.3
Portland .....	123.4	127.7	2.9	2.4	2.3	1.9

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	
	1987	1988	1987	1988	1987	1988
<b>Maryland</b> .....	2,405.0	2,465.0	102.0	110.0	4.2	4.5
Baltimore .....	1,164.9	1,184.5	54.2	57.9	4.7	4.9
<b>Massachusetts</b> .....	3,086.0	3,144.0	99.0	103.0	3.2	3.3
Boston .....	1,532.1	1,555.3	41.8	43.5	2.7	2.8
Brockton .....	96.6	98.6	3.5	3.8	3.6	3.8
Fall River .....	76.2	76.7	4.3	4.1	5.6	5.4
Fitchburg-Leominster .....	46.3	47.4	2.0	1.9	4.2	4.1
Lawrence-Haverhill .....	183.6	187.8	7.9	7.6	4.3	4.1
Lowell .....	149.6	152.3	5.1	5.2	3.4	3.4
New Bedford .....	84.0	85.8	4.3	4.3	5.1	5.0
Springfield .....	248.5	251.7	8.2	8.3	3.3	3.3
Worcester .....	213.8	222.4	6.3	6.6	2.9	3.0
<b>Michigan</b> .....	4,529.0	4,580.0	370.0	348.0	8.2	7.6
Ann Arbor .....	156.5	162.5	6.6	6.2	4.2	3.8
Battle Creek .....	64.6	64.7	5.1	4.7	7.8	7.3
Benton Harbor .....	77.3	79.0	5.7	5.4	7.4	6.8
Detroit .....	2,187.1	2,198.4	177.9	168.5	8.1	7.7
Flint .....	197.2	192.6	24.1	27.3	12.2	14.2
Grand Rapids .....	348.6	360.8	21.5	19.3	6.2	5.3
Jackson .....	64.8	65.4	5.0	4.7	7.7	7.2
Kalamazoo .....	114.3	117.3	6.1	5.6	5.3	4.8
Lansing-East Lansing .....	240.5	243.3	15.9	14.4	6.6	5.9
Muskegon .....	68.2	68.6	6.8	6.1	10.0	8.8
Saginaw-Bay City-Midland .....	182.5	184.0	16.0	13.9	8.7	7.5
<b>Minnesota</b> .....	2,261.0	2,327.0	122.0	94.0	5.4	4.0
Duluth .....	107.8	106.3	9.9	6.5	9.2	6.1
Minneapolis-St.Paul .....	1,345.9	1,387.0	59.4	47.3	4.4	3.4
Rochester .....	57.4	60.8	2.3	1.7	4.0	2.8
St. Cloud .....	90.9	95.3	5.5	4.5	6.1	4.7
<b>Mississippi</b> .....	1,152.0	1,144.0	117.0	96.0	10.2	8.4
Jackson .....	198.5	198.7	14.3	11.7	7.2	5.9
<b>Missouri</b> .....	2,590.0	2,593.0	164.0	148.0	6.3	5.7
Kansas City .....	847.1	847.1	47.4	44.9	5.6	5.3
St. Louis LMA .....	1,269.3	1,257.1	83.2	75.0	6.6	6.0
Springfield .....	123.0	123.5	6.1	5.3	5.0	4.3
<b>Montana</b> .....	403.0	401.0	30.0	27.0	7.4	6.8
<b>Nebraska</b> .....	812.0	817.0	40.0	29.0	4.9	3.6
Lincoln .....	122.1	126.5	4.3	3.4	3.5	2.7
Omaha .....	323.8	326.8	16.9	12.7	5.2	3.9
<b>Nevada</b> .....	556.0	587.0	35.0	30.0	6.3	5.2
Las Vegas .....	324.6	342.1	21.0	18.3	6.5	5.4
Reno .....	137.1	140.6	7.8	6.5	5.7	4.6
<b>New Hampshire</b> .....	588.0	606.0	15.0	15.0	2.5	2.4
Manchester .....	85.0	85.6	1.8	1.9	2.1	2.2
Nashua .....	97.6	99.8	2.6	2.8	2.7	2.8
Portsmouth-Dover-Rochester .....	131.0	133.1	3.0	2.6	2.3	1.9
<b>New Jersey</b> .....	3,967.0	3,978.0	160.0	151.0	4.0	3.8
Atlantic City .....	175.1	178.0	10.0	9.6	5.7	5.4
Bergen-Passaic .....	718.6	719.3	25.4	23.5	3.5	3.3
Jersey City .....	270.5	270.5	17.6	17.1	6.5	6.3
Middlesex-Somerset-Hunterdon .....	554.6	563.3	16.0	15.1	2.9	2.7
Monmouth-Ocean .....	471.9	477.2	15.5	16.1	3.3	3.4
Newark .....	961.5	952.3	40.8	37.3	4.2	3.9
Trenton .....	171.2	172.9	5.8	5.0	3.4	2.9
Vineland-Millville-Bridgeton .....	57.3	58.3	4.4	4.3	7.6	7.4
<b>New Mexico</b> .....	682.0	688.0	60.0	54.0	8.9	7.8
Albuquerque .....	260.8	264.1	16.5	15.6	6.3	5.9
Las Cruces .....	54.4	55.9	4.1	4.1	7.5	7.4
Santa Fe .....	65.4	66.8	3.7	3.4	5.7	5.1

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	
	1987	1988	1987	1988	1987	1988
<b>New York</b> .....	8,490.0	8,522.0	412.0	358.0	4.9	4.2
Albany-Schenectady-Troy .....	417.8	422.5	16.5	15.2	4.0	3.6
Binghamton .....	126.0	127.7	5.3	4.6	4.2	3.6
Buffalo .....	448.7	449.7	24.9	22.6	5.5	5.0
Elmira .....	41.2	42.1	1.8	1.6	4.4	3.9
Nassau-Suffolk .....	1,432.7	1,430.2	47.5	45.8	3.3	3.2
New York .....	3,915.8	3,912.2	206.5	171.3	5.3	4.4
New York City .....	3,236.0	3,232.3	186.0	151.9	5.7	4.7
Orange County .....	130.8	133.5	5.0	4.9	3.8	3.7
Poughkeepsie .....	126.6	129.1	3.6	3.4	2.8	2.6
Rochester .....	495.3	502.8	21.9	18.9	4.4	3.8
Syracuse .....	317.7	316.0	19.6	14.0	6.2	4.4
Utica-Rome .....	133.9	136.0	7.2	6.5	5.4	4.8
<b>North Carolina</b> .....	3,276.0	3,343.0	146.0	121.0	4.5	3.6
Asheville .....	85.5	88.4	3.9	2.8	4.5	3.2
Charlotte-Gastonia-Rock Hill .....	618.5	634.0	23.3	20.0	3.8	3.2
Greensboro-Winston-Salem-High Point .....	511.8	525.3	19.1	16.0	3.7	3.0
Raleigh-Durham .....	390.9	401.4	12.2	10.3	3.1	2.6
<b>North Dakota</b> .....	331.0	329.0	17.0	16.0	5.2	4.8
Bismarck .....	45.7	45.2	2.3	2.3	5.0	5.0
Fargo-Moorhead .....	84.7	84.7	3.1	2.5	3.7	3.0
Grand Forks .....	35.3	35.1	1.4	1.5	3.9	4.2
<b>Ohio</b> .....	5,254.0	5,328.0	367.0	320.0	7.0	6.0
Akron .....	320.3	325.3	22.7	19.7	7.1	6.0
Canton .....	190.4	190.5	15.7	12.6	8.2	6.6
Cincinnati .....	744.2	762.7	44.0	39.0	5.9	5.1
Cleveland .....	927.0	933.7	58.0	51.4	6.3	5.5
Columbus .....	694.9	711.5	37.7	35.0	5.4	4.9
Dayton-Springfield .....	463.8	469.0	26.2	24.4	5.6	5.2
Toledo .....	307.6	310.3	22.5	18.2	7.3	5.9
Youngstown-Warren .....	221.6	222.3	21.6	16.4	9.7	7.4
<b>Oklahoma</b> .....	1,565.0	1,533.0	115.0	102.0	7.4	6.7
Enid .....	30.0	28.8	2.1	1.6	6.9	5.6
Lawton .....	49.8	48.9	2.5	2.8	4.9	5.7
Oklahoma City .....	507.7	498.0	30.5	27.6	6.0	5.5
Tulsa .....	348.9	341.6	28.7	24.9	8.2	7.3
<b>Oregon</b> .....	1,387.0	1,408.0	86.0	82.0	6.2	5.8
Eugene-Springfield .....	138.1	140.6	7.9	7.8	5.8	5.5
Portland .....	630.4	640.7	33.5	30.5	5.3	4.8
Salem .....	129.6	132.2	8.0	7.8	6.2	5.9
<b>Pennsylvania</b> .....	5,655.0	5,780.0	320.0	294.0	5.7	5.1
Allentown-Bethlehem .....	319.1	325.4	16.1	14.3	5.0	4.4
Altoona .....	58.8	59.6	4.2	4.1	7.2	6.9
Beaver County .....	62.1	60.3	6.1	5.5	9.8	9.1
Erie .....	127.3	130.3	9.2	7.8	7.2	6.0
Harrisburg-Lebanon-Carlisle .....	310.5	319.9	12.7	12.7	4.1	4.0
Johnstown .....	93.2	94.7	7.8	7.0	8.3	7.4
Lancaster .....	210.9	218.7	8.1	7.7	3.9	3.5
Philadelphia .....	2,387.6	2,419.9	105.6	100.0	4.4	4.1
Pittsburgh .....	950.3	964.8	63.4	55.5	6.7	5.8
Reading .....	169.5	173.6	8.3	7.6	4.9	4.4
Scranton-Wilkes-Barre .....	348.4	358.0	24.1	21.5	6.9	6.0
Williamsport .....	57.5	59.2	3.2	3.2	5.6	5.3
York .....	209.2	217.7	9.6	9.3	4.6	4.3
<b>Rhode Island</b> .....	519.0	526.0	20.0	16.0	3.8	3.1
Pawtucket-Woonsocket-Attleboro .....	166.7	166.7	7.4	6.5	4.4	3.9
Providence .....	338.6	343.6	12.6	10.1	3.7	2.9
<b>South Carolina</b> .....	1,634.0	1,680.0	91.0	76.0	5.6	4.5
Charleston .....	221.2	229.7	10.2	9.0	4.6	3.9
Columbia .....	228.1	235.4	8.7	7.4	3.8	3.2
Greenville-Spartanburg .....	325.1	336.6	14.3	11.4	4.4	3.4
<b>South Dakota</b> .....	355.0	358.0	15.0	14.0	4.2	3.9
Rapid City .....	39.7	39.4	1.7	1.7	4.3	4.3
Sioux Falls .....	72.3	73.9	2.7	3.0	3.7	4.0

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	
	1987	1988	1987	1988	1987	1988
<b>Tennessee</b> .....	2,336.0	2,351.0	154.0	136.0	6.6	5.8
Chattanooga .....	208.2	212.6	11.8	11.7	5.7	5.5
Johnson City-Kingsport-Bristol .....	214.7	215.0	14.6	12.1	8.8	5.6
Knoxville .....	284.5	285.6	18.3	15.6	6.4	5.5
Memphis LMA .....	441.5	443.1	25.3	22.5	5.7	5.1
Nashville .....	522.7	523.7	22.9	22.8	4.4	4.4
<b>Texas</b> .....	8,257.0	8,308.0	897.0	606.0	8.4	7.3
Abilene .....	54.0	53.5	4.6	3.4	8.5	6.4
Amarillo .....	99.7	99.3	6.4	5.9	6.4	6.0
Austin .....	428.8	427.4	28.0	25.9	6.5	6.1
Beaumont-Port Arthur .....	163.6	163.0	20.0	16.7	12.2	10.3
Brazoria .....	80.9	82.5	7.9	8.7	9.7	8.1
Brownsville-Harlingen .....	95.8	98.4	13.7	13.0	14.3	13.2
Bryan-College Station .....	57.0	58.2	3.3	2.6	5.7	4.5
Corpus Christi .....	162.0	158.8	19.1	15.2	11.8	9.6
Dallas .....	1,445.1	1,459.8	90.9	84.5	6.3	5.8
El Paso .....	234.3	242.1	25.0	25.9	10.7	10.7
Fort Worth-Arlington .....	677.7	687.8	46.8	42.8	6.9	6.2
Galveston-Texas City .....	109.4	108.7	11.5	9.6	10.5	8.8
Houston .....	1,610.6	1,622.4	145.2	110.8	9.0	6.8
Killeen-Temple .....	92.7	95.0	7.3	7.4	7.9	7.8
Laredo .....	45.9	47.6	7.0	6.4	15.3	13.5
Longview-Marshall .....	79.6	79.6	8.4	7.0	10.6	8.8
Lubbock .....	112.6	113.9	6.9	6.2	6.1	5.4
McAllen-Edinburg-Mission .....	145.8	153.6	26.4	25.7	18.1	16.8
Midland .....	50.5	49.6	4.6	3.0	9.1	6.1
Odessa .....	54.7	53.5	6.2	4.1	11.4	7.6
San Angelo .....	45.4	45.2	2.9	2.7	6.3	5.9
San Antonio .....	606.2	608.3	48.0	47.7	7.9	7.8
Sherman-Denison .....	48.9	49.1	3.8	3.3	7.8	6.6
Texarkana .....	57.6	57.6	4.8	4.6	8.3	8.0
Tyler .....	77.3	75.0	6.8	5.7	8.8	7.6
Victoria .....	36.7	36.3	3.3	2.5	9.1	7.0
Waco .....	92.4	93.0	7.4	6.6	8.0	7.1
Wichita Falls .....	57.2	57.6	4.5	3.6	7.8	6.3
<b>Utah</b> .....	757.0	759.0	48.0	37.0	6.4	4.9
Provo-Orem .....	99.7	104.9	6.9	4.5	6.9	4.2
Salt Lake City-Ogden .....	499.2	496.6	28.6	23.1	5.7	4.6
<b>Vermont</b> .....	295.0	298.0	11.0	8.0	3.6	2.8
Burlington .....	74.4	74.8	2.0	1.4	2.7	1.9
<b>Virginia</b> .....	2,996.0	3,093.0	127.0	120.0	4.2	3.9
Charlottesville .....	65.1	67.6	1.9	1.9	2.9	2.8
Danville .....	50.7	52.4	3.4	3.5	6.8	6.7
Lynchburg .....	69.7	70.8	3.6	3.4	5.2	4.8
Norfolk-Virginia Beach-Newport News .....	598.6	612.0	28.4	27.5	4.7	4.5
Richmond-Petersburg .....	430.9	445.0	16.0	15.1	3.7	3.4
Roanoke .....	120.0	122.3	4.9	4.9	4.1	4.0
<b>Washington</b> .....	2,255.0	2,295.0	171.0	141.0	7.6	6.2
Seattle .....	996.4	1,023.0	59.5	49.3	6.0	4.8
<b>West Virginia</b> .....	750.0	743.0	81.0	74.0	10.8	9.9
Charleston .....	116.8	115.2	10.8	9.9	9.2	8.6
Huntington-Ashland .....	127.4	125.4	13.3	10.5	10.5	8.4
Parkersburg-Marietta .....	72.0	71.0	6.4	5.2	8.9	7.3
Wheeling .....	72.0	71.9	6.8	5.9	9.1	8.2
<b>Wisconsin</b> .....	2,494.0	2,575.0	152.0	110.0	8.1	4.3
Appleton-Oshkosh-Neenah .....	164.7	171.5	9.7	6.7	5.9	3.9
Eau Claire .....	71.0	72.8	4.3	3.1	6.1	4.2
Green Bay .....	104.8	107.0	6.3	4.5	6.0	4.2
Janesville-Beloit .....	71.5	73.7	5.5	3.3	7.7	4.5
Kenosha .....	55.7	58.6	4.1	2.7	7.3	4.8
La Crosse .....	53.6	57.0	2.7	2.1	5.0	3.7
Madison .....	215.6	222.1	8.3	6.0	3.8	2.7
Milwaukee .....	739.6	762.6	39.4	28.6	5.3	3.8
Racine .....	87.5	90.0	6.0	4.1	6.9	4.5
Wausau .....	59.1	61.8	3.9	2.9	6.6	4.6
<b>Wyoming</b> .....	240.0	232.0	21.0	15.0	8.6	6.3

NOTE: Annual averages for States are obtained directly from the Current Population Survey. Estimates for all sub-state areas are based on administrative statistics adjusted to the statewide totals except for 1987 New York City and Los Angeles-Long Beach estimates which are obtained from the

Current Population Survey. 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 1987-88 have been adjusted to new benchmark levels.

# Area Definitions

**Area definitions**

State and area	Type of area	Definition
<b>Alabama</b>		
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
<b>Arizona</b>		
Phoenix .....	MSA	Maricopa County
Tucson .....	MSA	Pima County
<b>Arkansas</b>		
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
<b>California</b>		
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
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
<b>Colorado</b>		
Boulder-Longmont .....	PMSA	Boulder County
Denver .....	PMSA	Adams, Arapahoe, Denver, Douglas, and Jefferson Counties
<b>Connecticut</b>		
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
<b>Delaware</b>		
Wilmington .....	PMSA	New Castle County, Del.; Cecil County, Md.; Salem County, N.J.
<b>District of Columbia</b>		
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
<b>Florida</b>		
Daytona Beach .....	MSA	Volusia County
Fort Lauderdale-Hollywood-Pompano Beach .....	PMSA	Broward County
Fort Myers-Cape Coral .....	MSA	Lee County
Jacksonville .....	MSA	Clay, Duval, Nassau, and St. Johns Counties
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
<b>Georgia</b>		
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
<b>Hawaii</b>		
Honolulu .....	MSA	Honolulu County
<b>Idaho</b>		
Boise City .....	MSA	Ada County
<b>Illinois</b>		
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
<b>Indiana</b>		
Anderson .....	MSA	Madison County
Bloomington .....	MSA	Monroe County
Elkhart-Goshen .....	MSA	Eikhart 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
Lafayette-West Lafayette .....	MSA	Tippecanoe County
Muncie .....	MSA	Delaware County
South Bend-Mishawaka .....	MSA	St. Joseph County
Terre Haute .....	MSA	Clay and Vigo Counties
<b>Iowa</b>		
Cedar Rapids .....	MSA	Linn County
Des Moines .....	MSA	Dallas, Polk, and Warren Counties
Dubuque .....	MSA	Dubuque County
Sioux City .....	MSA	Woodbury County, Iowa; Dakota County, Nebr.
Waterloo-Cedar Falls .....	MSA	Black Hawk and Bremer Counties
<b>Kansas</b>		
Topeka .....	MSA	Shawnee County
Wichita .....	MSA	Butler, Harvey, and Sedgwick Counties

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Kentucky</b>		
Lexington-Fayette .....	MSA	Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties
Louisville .....	MSA	Bullitt, Jefferson, Oldham, and Shelby Counties, Ky.; Clark, Floyd, and Harrison Counties, Ind.
Owensboro .....	MSA	Daviess County
<b>Louisiana</b>		
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
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
<b>Maine</b>		
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
<b>Maryland</b>		
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
<b>Massachusetts</b>		
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
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

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Massachusetts—Continued</b>		
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
<b>Michigan</b>		
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
<b>Minnesota</b>		
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
<b>Mississippi</b>		
Jackson .....	MSA	Hinds, Madison, and Rankin Counties
<b>Missouri</b>		
Kansas City .....	MSA	Johnson, Leavenworth, Miami, and Wyandotte Counties, Kan.; Cass, Clay, Jackson, Lafayette, Platte, and Ray Counties, Mo.
St. Louis .....		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
<b>Nebraska</b>		
Lincoln .....	MSA	Lancaster County
Omaha .....	MSA	Douglas, Sarpy, and Washington Counties, Nebr.; Pottawattamie County, Iowa
<b>Nevada</b>		
Las Vegas .....	MSA	Clark County
Reno .....	MSA	Washoe County
<b>New Hampshire</b>		
Manchester .....	MSA	Manchester city, and Bedford and Goffstown towns in Hillsborough County; Allenstown and Hooksett towns in Merrimack County; Auburn and Candia towns in Rockingham County
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
<b>New Jersey</b>		
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
<b>New Mexico</b>		
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
<b>New York</b>		
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
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
<b>North Carolina</b>		
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
<b>North Dakota</b>		
Bismarck .....	MSA	Burleigh and Morton Counties
Fargo-Moorhead .....	MSA	Cass County, N.D.; Clay County, Minn.
Grand Forks .....	MSA	Grand Forks County
<b>Ohio</b>		
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
<b>Oklahoma</b>		
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
<b>Oregon</b>		
Eugene-Springfield .....	MSA	Lane County
Portland .....	PMSA	Clackamas, Multnomah, Washington, and Yamhill Counties
Salem .....	MSA	Marion and Polk Counties
<b>Pennsylvania</b>		
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
Williamsport .....	MSA	Lycoming County
York .....	MSA	Adams and York Counties

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Puerto Rico</b>		
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
<b>Rhode Island</b>		
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 Kingstown, Richmond, and South Kingstown towns in Washington County
<b>South Carolina</b>		
Charleston .....	MSA	Berkeley, Charleston, and Dorchester Counties
Columbia .....	MSA	Lexington and Richland Counties
Greenville-Spartanburg .....	MSA	Greenville, Pickens, and Spartanburg Counties
<b>South Dakota</b>		
Rapid City .....	MSA	Pennington County
Sioux Falls .....	MSA	Minnehaha County
<b>Tennessee</b>		
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
<b>Texas</b>		
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



**Area definitions—Continued**

State and area	Type of area	Definition
<b>Utah</b>		
Provo-Orem .....	MSA	Utah County
Salt Lake City-Ogden .....	MSA	Davis, Salt Lake, and Weber Counties
<b>Vermont</b>		
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
<b>Virginia</b>		
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
<b>Washington</b>		
Seattle .....	PMSA	King and Snohomish Counties
<b>West Virginia</b>		
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
<b>Wisconsin</b>		
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
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 over about 55,800 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

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

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

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

### Employment

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

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

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

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

### Hours of work

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

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

## Earnings

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

## COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

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

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

unemployed in the household survey.

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

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

## COMPARABILITY OF PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

# Household Data (A tables)

## COLLECTION AND COVERAGE

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

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

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

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

## CONCEPTS AND DEFINITIONS

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

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

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

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

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

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

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

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

*Jobseekers* are all unemployed persons who made

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## HISTORICAL COMPARABILITY

### Change in lower age limit

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

*Report on the Labor Force*, February 1967.

### Noncomparability of labor force levels

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

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

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

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

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

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

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

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

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

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

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

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

### **Changes in the occupational and industrial classification system**

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

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

The 1980 census occupational classification system evolved



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

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

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

### Changes in the sample design

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

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

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

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

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

### ESTIMATING METHODS

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

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

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

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

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

<sup>2</sup> 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	<b>Occupation—Continued</b>		
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	<b>Industry</b>		
Married women, spouse present . . . . .	.19	.21	Nonagricultural private wage and salary workers . . . . .	.12	.13
Full-time workers . . . . .	.12	.12	Mining . . . . .	1.63	1.86
Part-time workers . . . . .	.34	.42	Construction . . . . .	.65	.75
Unemployed 15 weeks and over . . . . .	.06	.07	Manufacturing . . . . .	.26	.29
<b>Occupation</b>			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 <sup>1</sup>								
	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	-	-	-	-	-

<sup>1</sup> 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 <sup>1</sup>							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force <sup>2</sup>	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	-	-	-

<sup>1</sup> See footnote 1, table D.

<sup>2</sup> 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 or teenagers (16 to 19 years) . . . . .	1.30	.82	.88	.57	.70
Part time . . . . .	1.40	.74	.88	.46	.60
Unemployment:					
Total . . . . .	1.40	.76	.88	.50	.65
Part time . . . . .	1.40	.69	.88	.39	.54

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

(In thousands)

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

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

## COLLECTION

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

### Federal-State cooperation

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

### Shuttle schedules

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

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

## CONCEPTS

### Industrial classification

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

industry indicated by the principal product or activity.

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

### Industry employment

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

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

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

*Indexes of diffusion of employment change (table B-7).* These indexes measure the dispersion among industries of the change in employment over the specified time span. The overall indexes are calculated from 349 seasonally adjusted employment series (three-digit industries) covering all nonagricultural payroll employment in the private sector. The manufacturing diffusion indexes are based on 143 three-digit industries.

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

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

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

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

### Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## ESTIMATING METHODS

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

### The "link relative" technique

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

### Size and regional stratification

A number of industries are stratified by size of establish-

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

### Benchmark adjustments

Employment estimates are compared periodically with

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

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

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

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
Monthly data		
All employees . . . . .	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. <sup>1</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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. <sup>2</sup>	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.

<sup>1</sup> 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.

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

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

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

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

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

## THE SAMPLE

### Design

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

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

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

<sup>1</sup>Less 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 1987<sup>1</sup>**

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

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

<sup>2</sup> Total Federal employment counts for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,600 reports covering about 55 percent of employment in Federal establishments.

## Reliability

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

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

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

(In percent)

Industry	Average benchmark revision in estimates of employment <sup>1</sup>	Relative error <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total . . . . .	0.2		
Total private . . . . .	.2	0.1	0.2
Mining . . . . .	2.9	1.0	1.3
Construction . . . . .	1.4	.2	.5
Manufacturing . . . . .	.8	.1	.2
Durable goods . . . . .	.9	.1	.3
Nondurable goods . . . . .	.8	.1	.2
Transportation and public utilities . . . . .	.3	.7	.6
Wholesale trade . . . . .	.8	.2	.4
Retail trade . . . . .	.9	.2	.4
Finance, insurance, and real estate . . . . .	.3	.2	.4
Services . . . . .	.2	.4	.6
Government <sup>3</sup> . . . . .	.5	—	—

<sup>1</sup> The average percent revision in employment for the 1983-87 benchmarks.

<sup>2</sup> Relative errors relate to 1982 data.

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

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

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

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

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

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

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

## STATISTICS FOR STATES AND AREAS

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

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

Size of employment estimate	Root-mean-square error of employment estimates <sup>1</sup>	Relative error <sup>2</sup> (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

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

<sup>2</sup> Relative errors relate to 1982 data.



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

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

**Table Q. Errors of preliminary employment estimates**

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total . . . . .	89,600	89,100	Nondurable goods—Continued		
Total private . . . . .	62,700	60,000	Chemicals and allied products . . . . .	2,700	2,900
Goods-producing industries . . . . .	22,400	20,800	Petroleum and coal products . . . . .	1,200	1,100
Mining . . . . .	4,700	4,400	Rubber and misc. plastics products . . . . .	1,600	1,700
Oil and gas extraction . . . . .	4,000	3,400	Leather and leather products . . . . .	1,800	1,700
Construction . . . . .	14,800	15,700	Service-producing industries . . . . .	86,300	85,700
General building contractors . . . . .	5,000	5,200	Transportation and public utilities . . . . .	15,500	13,900
Manufacturing . . . . .	19,200	19,300	Transportation . . . . .	17,800	17,300
Durable goods . . . . .	14,400	12,700	Communication and public utilities . . . . .	6,800	6,400
Lumber and wood products . . . . .	2,300	2,100	Wholesale trade . . . . .	9,400	8,200
Furniture and fixtures . . . . .	1,700	1,700	Durable goods . . . . .	6,100	5,500
Stone, clay, and glass products . . . . .	1,600	1,600	Nondurable goods . . . . .	5,400	4,600
Primary metal industries . . . . .	4,700	4,700	Retail trade . . . . .	40,700	36,100
Blast furnaces and basic steel products . . . . .	3,600	3,400	General merchandise stores . . . . .	23,900	21,400
Fabricated metal products . . . . .	2,500	2,300	Food stores . . . . .	6,900	6,200
Machinery, except electrical . . . . .	6,000	7,300	Automotive dealers and service stations . . . . .	3,300	3,200
Electrical and electronic equipment . . . . .	5,100	5,100	Eating and drinking places . . . . .	10,900	10,300
Transportation equipment . . . . .	8,100	7,400	Finance, insurance, and real estate . . . . .	8,400	7,500
Motor vehicles and equipment . . . . .	7,000	7,000	Finance . . . . .	4,000	3,900
Instruments and related products . . . . .	2,000	2,200	Insurance . . . . .	3,800	3,100
Miscellaneous manufacturing . . . . .	1,900	1,800	Real estate . . . . .	4,800	3,800
Nondurable goods . . . . .	8,900	8,500	Services . . . . .	34,700	31,700
Food and kindred products . . . . .	5,600	5,700	Business services . . . . .	11,000	10,500
Tobacco manufactures . . . . .	1,600	1,500	Health services . . . . .	10,300	10,100
Textile mill products . . . . .	1,800	1,700	Government . . . . .	62,800	54,500
Apparel and other textile products . . . . .	4,700	4,100	Federal . . . . .	16,900	11,700
Paper and allied products . . . . .	1,600	1,400	State . . . . .	22,600	20,600
Printing and publishing . . . . .	2,200	2,100	Local . . . . .	34,900	32,400

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

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

### COLLECTION

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

### CONCEPTS

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

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

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

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

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

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

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

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

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

### NOTES ON THE DATA

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

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

## State and Area Labor Force Data (D table)

### FEDERAL-STATE COOPERATIVE PROGRAM

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

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

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

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

### ESTIMATING METHODS

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

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

## Estimates for States

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

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

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

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

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

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

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

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

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

## Estimates for sub-State areas

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

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

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

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

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

## Seasonal Adjustment

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

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

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

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

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

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

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current year's estimates are based on actual data through March 1988 and projected data through March 1989. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series since June 1981.

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

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

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

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

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

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

The revised seasonally adjusted series for the establishment data reflect experience through March 1988. Seasonal adjustment factors to be used for current adjustment appear in the June 1988 issue of *Employment and Earnings*.