

# Employment and Earnings

## May 1979



U. S. Department of Labor  
Bureau of Labor Statistics

Vol. 26 No. 5

In this issue:  
1976-78 annual averages for  
States and areas





**U.S. DEPARTMENT OF LABOR**  
**Ray Marshall, Secretary**

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

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CALENDAR OF SPECIAL FEATURES								
Features	Jan.	Feb.	Mar.	Apr.	May	Jul.	Oct.	Dec.
<b>Household data</b>								
Annual averages	x							
Revised seasonally adjusted series		x						
Quarterly averages:								
Seasonally adjusted data								
Persons not in labor force								
Persons of Hispanic origin	x			x		x	x	
Vietnam-Era veterans and nonveterans								
Poverty-nonpoverty area data								
Family relationship data								
<b>Establishment data</b>								
National annual averages:								
Industry divisions (preliminary)	x							
Industry detail (final)			x					
National data adjusted to new benchmarks							(1)	
Revised seasonally adjusted series							(2)	
State and area annual averages					x			
Area definitions					x			

<sup>1</sup> The issue that introduces new benchmarks varies. The October 1978 issue marks the introduction of March 1977 benchmarks and conversion to the 1972 SIC.

<sup>2</sup> Revised data introduced October 1978.

# Employment and Earnings

Vol. 26 No. 5 May 1979

Editors: Chester L. Green, Gloria P. Green, Marc Weinstein

## Editor's Note

Subsequent to the production of the March 1979 Current Population Survey (household survey) data, a minor error was discovered in the estimation process. The effect of this error is an overstatement of 60,000 (0.04 percent) in the civilian noninstitutional population 16 years and over. Although the error was corrected prior to the production of the April data, the use of a composite estimator in the CPS produced a carryover effect which resulted in an understatement of 43,000 (0.03 percent) in the April civilian noninstitutional population. As a consequence, the published statistics show an over-the-month growth in population that is 103,000 less than the correct population figures would have indicated. The impact of these effects on the employment and unemployment estimates for each month is negligible. There will be no further carryover effects in May and subsequent months.

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# Employment and Unemployment Developments, April 1979

Total employment fell in April and unemployment remained near recent levels.

The total employment measure—from the monthly survey of households—declined by 670,000 in April to 96.2 million. This drop followed 8 months of strong growth, with average monthly gains of 300,000 recorded during the period. In contrast, nonfarm payroll employment—as measured by the monthly survey of establishments—was about unchanged over the month at 88.3 million. Several special factors (discussed later) may account, at least in part, for the April survey results.

The overall unemployment rate was 5.8 percent in April. It has hovered around that mark for the past 9 months.

## Unemployment

Both the number of unemployed, 5.9 million, and the unemployment rate, 5.8 percent, remained at about the levels which have been in evidence since August 1978. The jobless rates for adult men (4.0 percent) and adult women (5.7 percent) were exactly the same as in March, while the rate for teenagers increased by a full percentage point to 16.5 percent. Unemployment rates for whites (4.9 percent) and blacks (11.8 percent) and most other worker groups were at or near the levels which have prevailed over the past several months. Since April of last year, the overall unemployment rate has edged down by three-tenths of a percentage point. (See tables A-33 and A-36.)

The median duration of unemployment in April (5.2 weeks) was about half a week shorter than in March, reflecting an over-the-month increase in the number of persons jobless for less than 5 weeks. (See table A-37.)

## Total employment and the labor force

Following 8 months of strong growth, total employment fell sharply in April. The March-to-April employment decline totaled 670,000. The reasons for this slowdown in employment growth are not entirely clear but may relate, in part, to adverse weather conditions, school and religious holiday effects, and the trucking strike/lockout.

April job levels (seasonally adjusted) were down for adult men, women, and teenagers, as well as for both whites and blacks. Employment declines were heavily concentrated among blue-collar operatives, except transport, and farm workers. Because of the strong job gains registered in earlier months, total employment in April was 2.5 million higher

than a year earlier. Virtually all of the over-the-year employment growth occurred within the white-collar occupations. (See tables A-33 and A-42.)

The civilian labor force declined by 600,000 over the month to 102.1 million but was still 2.4 million higher than April 1978. At 63.5 percent, the civilian labor force participation rate was 0.4 percentage point below its March level, but up 0.5 percentage point from the year-ago level. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment was about unchanged over the month at 88.3 million, seasonally adjusted. Job gains took place in only 49 percent of the 172 industries comprising the BLS diffusion index, the lowest proportion in 2½ years. (See tables B-4 and B-7.) As already noted, however, there were several special factors contributing to the employment and hours picture in April. Prior to April, payroll employment had been growing almost continuously. Jobs have increased by 2.9 million, or 3.4 percent, over the year.

In the goods-producing industries, employment in manufacturing, construction and mining were all essentially unchanged. Within manufacturing, employment in the non-electrical machinery industry continued to climb, while the transportation equipment industry was adversely affected by interruptions in deliveries.

In the service-producing sector, the largest monthly increase was in the services industry (55,000), which has also accounted for a disproportionate share of payroll employment growth over the past year. In addition, employment continued to rise in trade and finance, insurance, and real estate. A substantial decline in transportation and public utilities (65,000) was primarily the result of strike activity.

## Hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.4 hours in April, down 0.5 hour from the March level. This brought weekly hours to a record low, but the strike/lockout, religious observances, and, to some extent, widespread flooding and tornadoes caused the workweek of many employees to be temporarily curtailed. Because the effects of the truckers' strike/lockout were concentrated in manufacturing, the factory workweek experienced an especially sharp dip of 1.7 hours to 39.1 hours. Similarly, factory overtime dropped by more than an hour, to 2.7 hours, and the decline was even larger in durable goods. (See table C-7.)

Reflecting the almost constant level of employment and the decline in weekly hours between March and April, the index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls fell 1.7 percent to 122.6 (1967=100). The index was 1.8 percent above its year-earlier level. (See table C-8.)

#### **Hourly and weekly earnings**

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls posted a very slight decline over the month (0.2 percent) and were 7.7 percent above the April 1978 level (seasonally adjusted). Average weekly earnings fell 1.6 percent over the month and were 5.6 percent above the year-earlier level.

Before adjustment for seasonality, average hourly earnings were \$6.02 in both March and April, 43 cents above April 1978. Average weekly earnings were \$211.30, \$3.61 lower than in March but \$11.18 higher than a year earlier. (See tables C-1 and C-9.)

#### **The hourly earnings index**

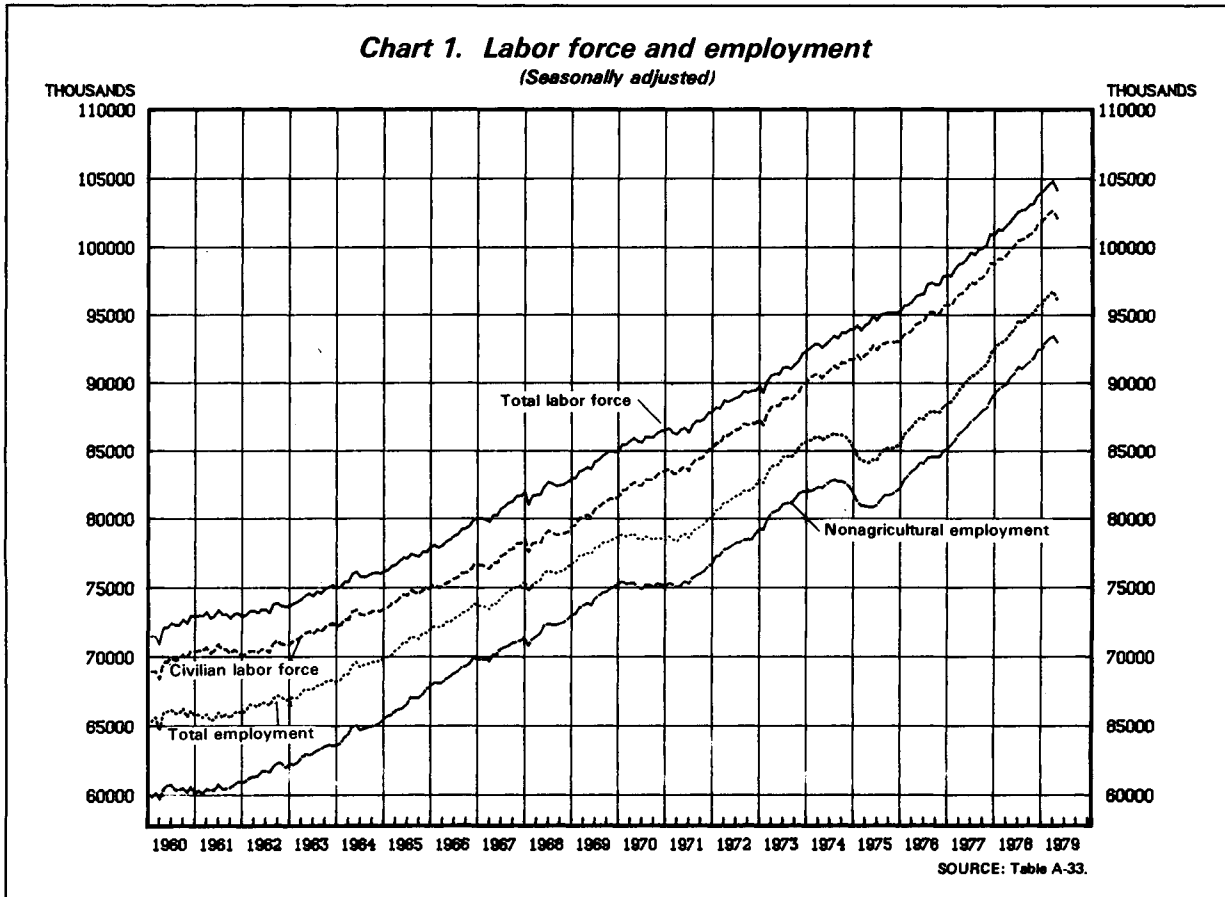
The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 226.6 (1967=100) in April, 0.6 percent higher than in March. The index was 7.8 percent above April a year ago. During the 12-month period ended in March, the Hourly Earnings Index in dollars of constant purchasing power declined 2.0 percent. (See table C-9.)



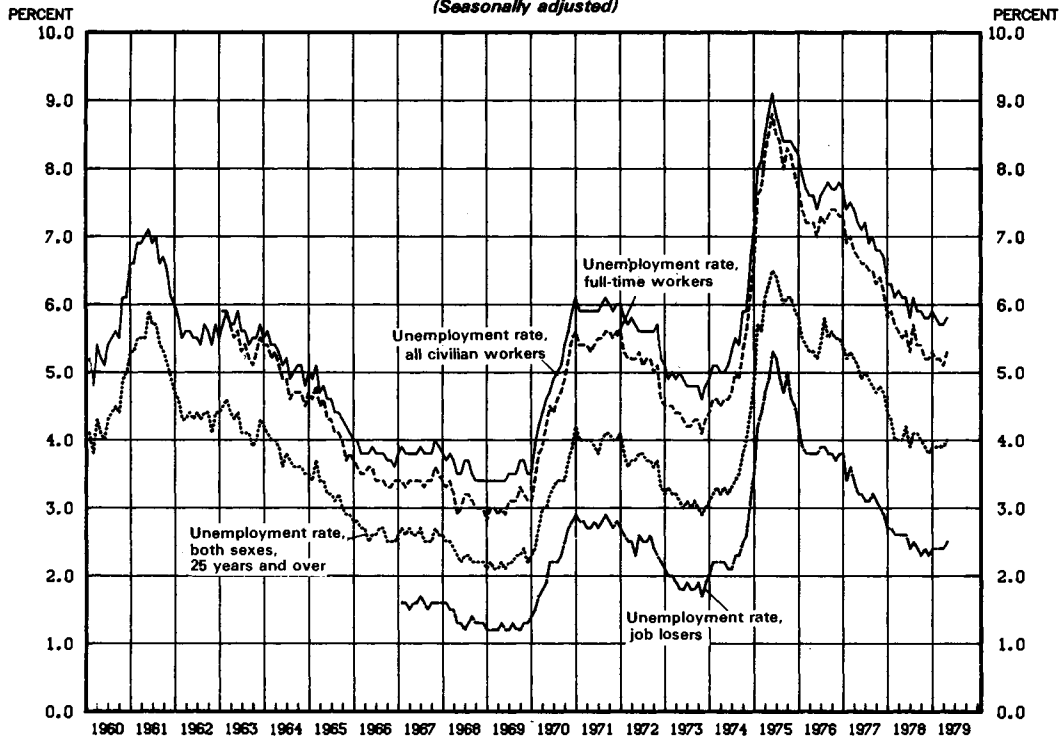
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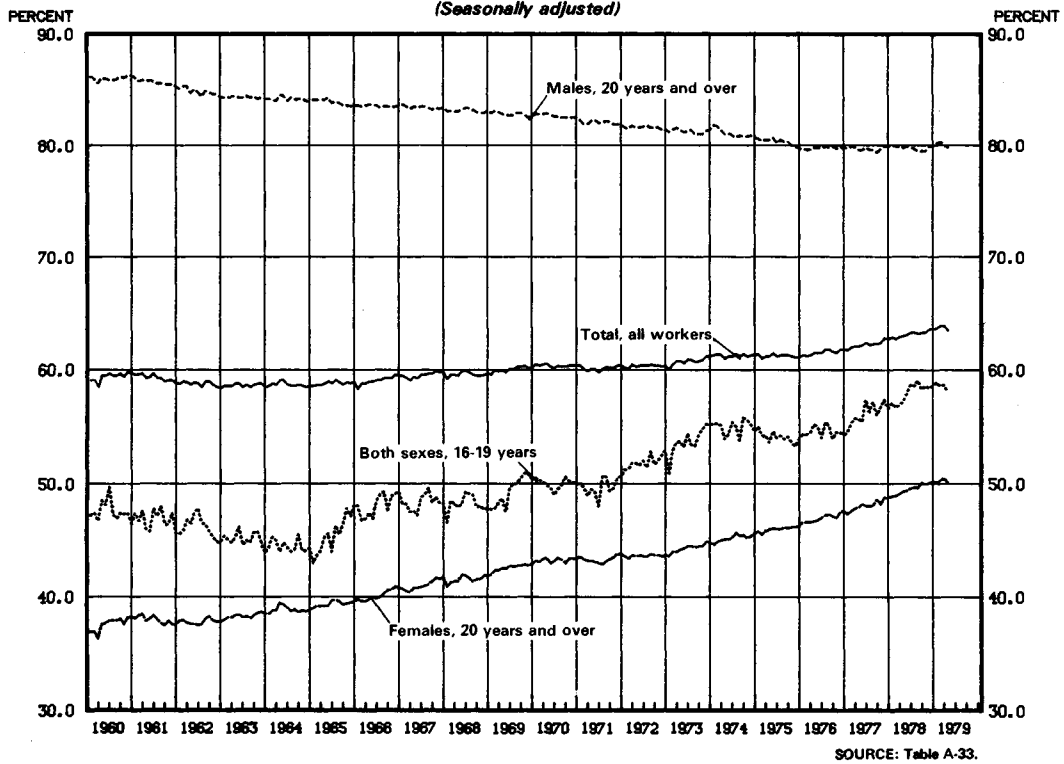
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**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)

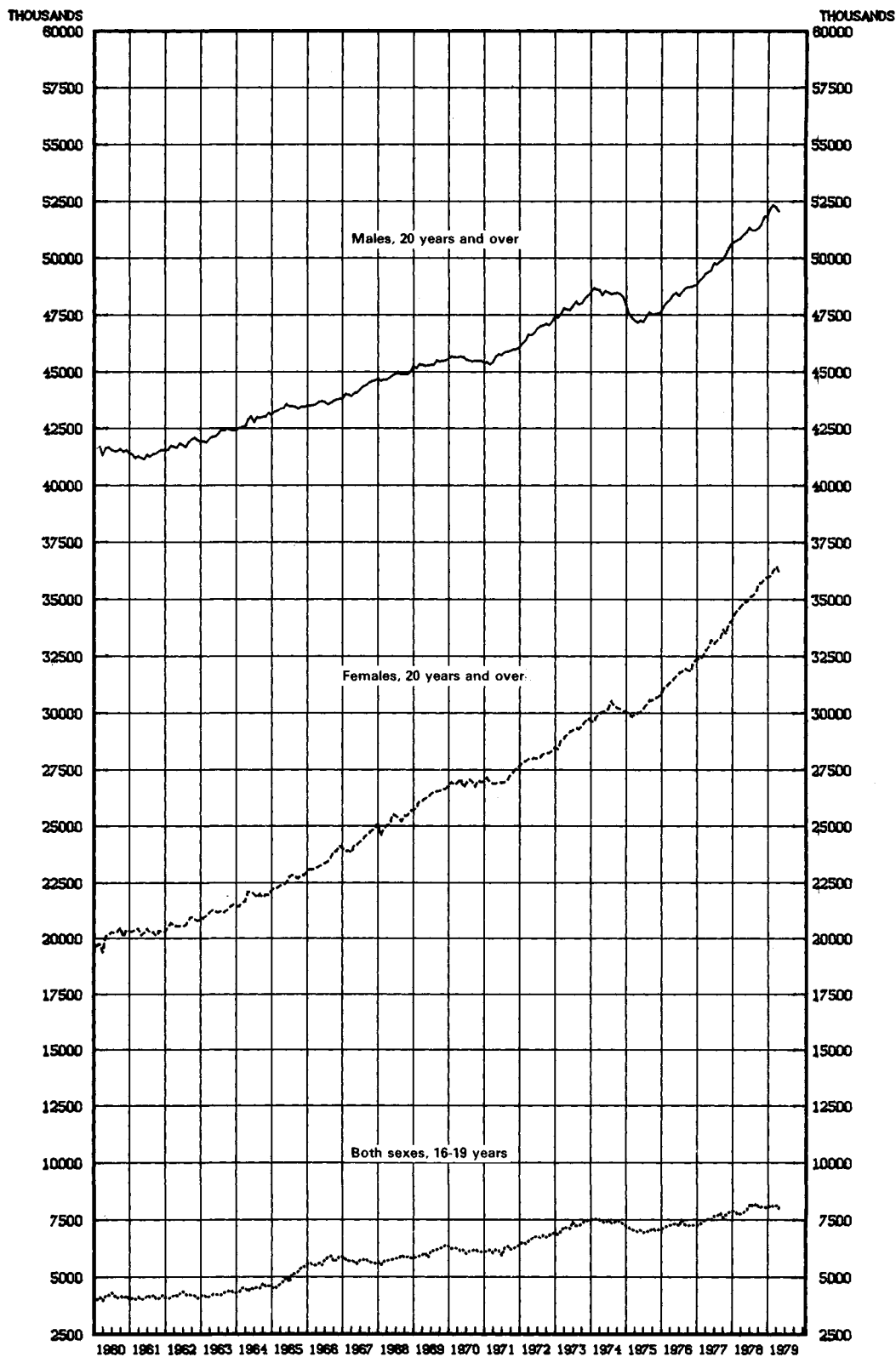


**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



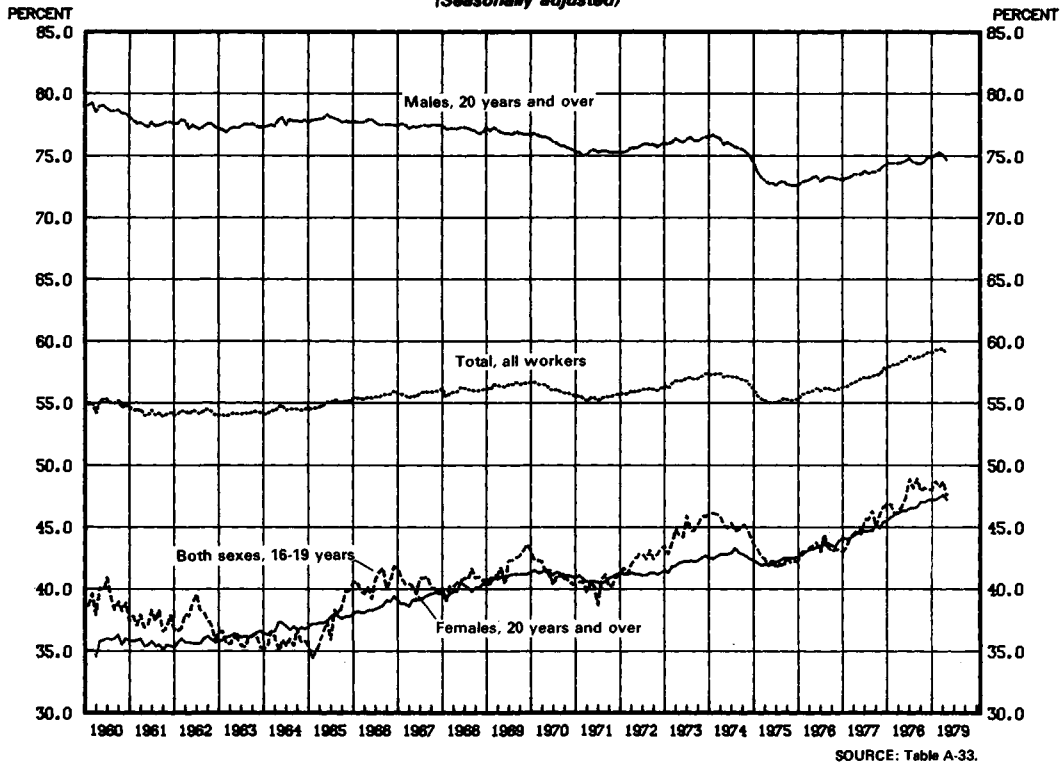
**Chart 4. Total employment by sex and age**

*(Seasonally adjusted)*

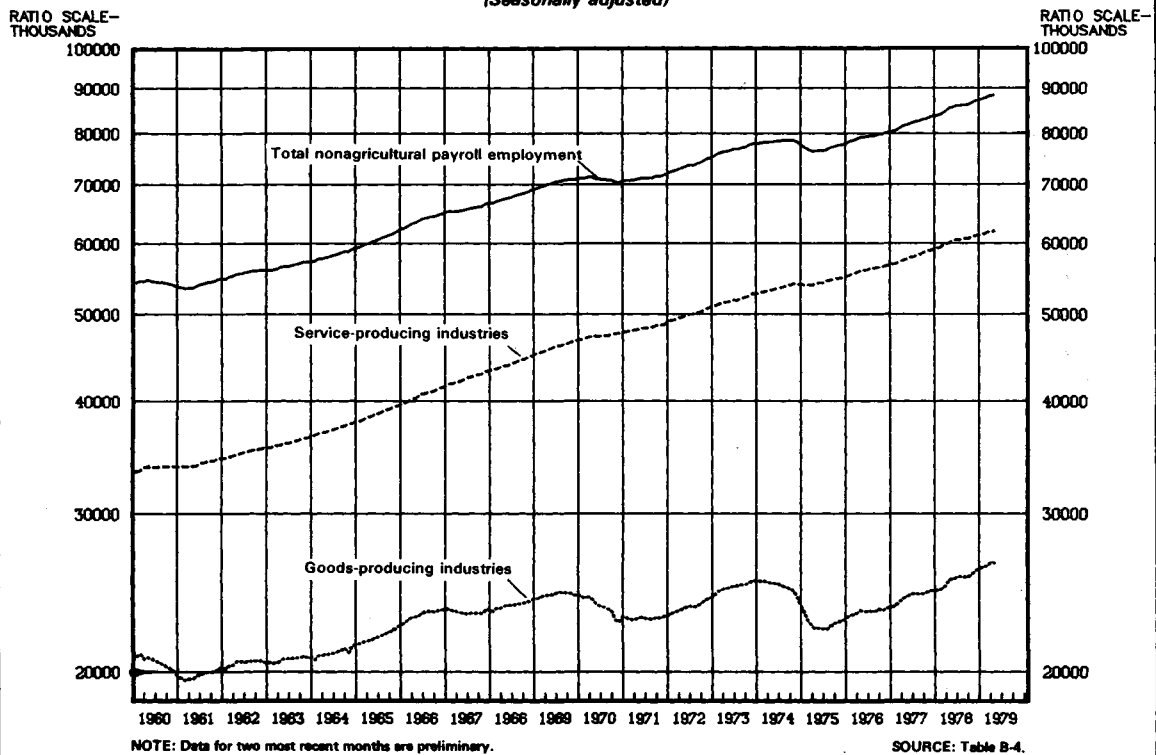


SOURCE: Table A-33.

**Chart 5. Employment—population ratios by sex and age**  
(Seasonally adjusted)

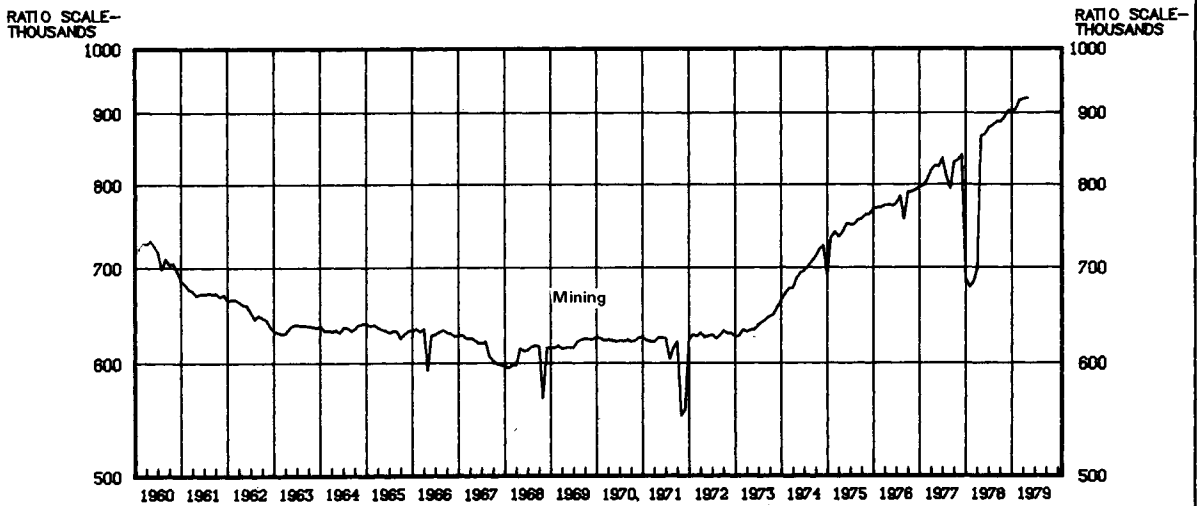
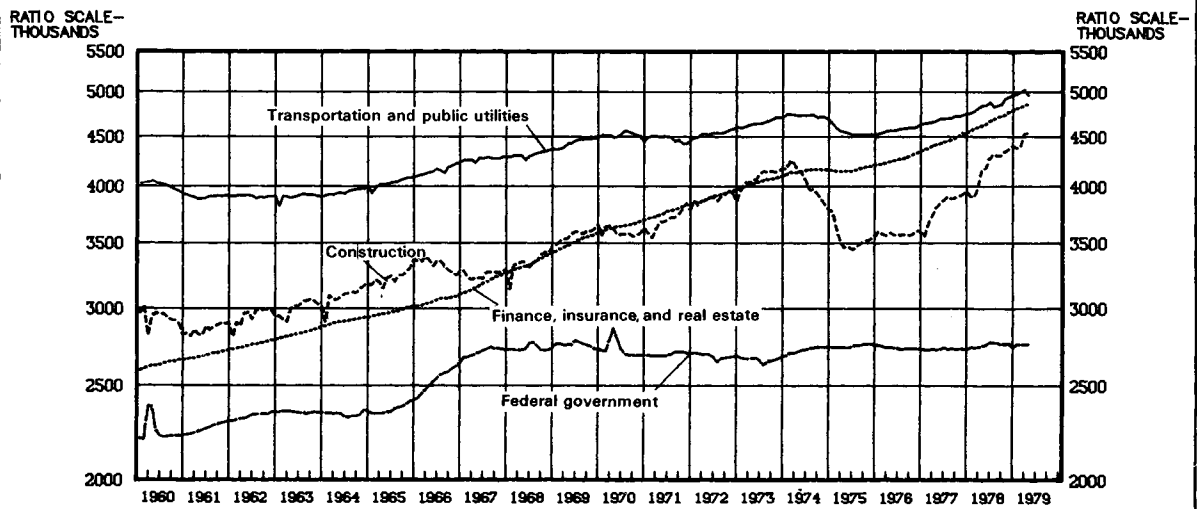
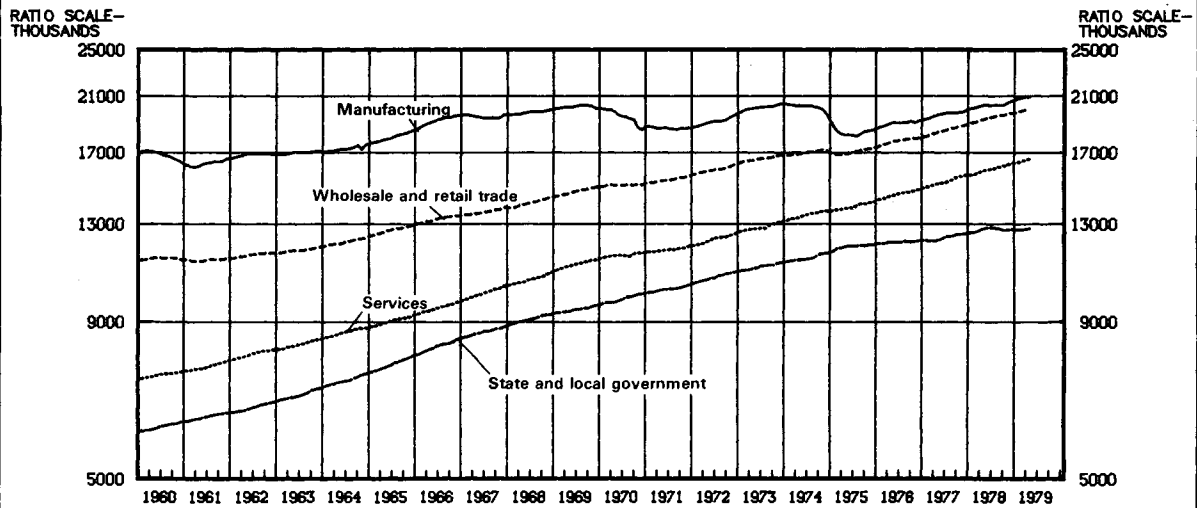


**Chart 6. Payroll employment in goods-and service-producing industries**  
(Seasonally adjusted)



### Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

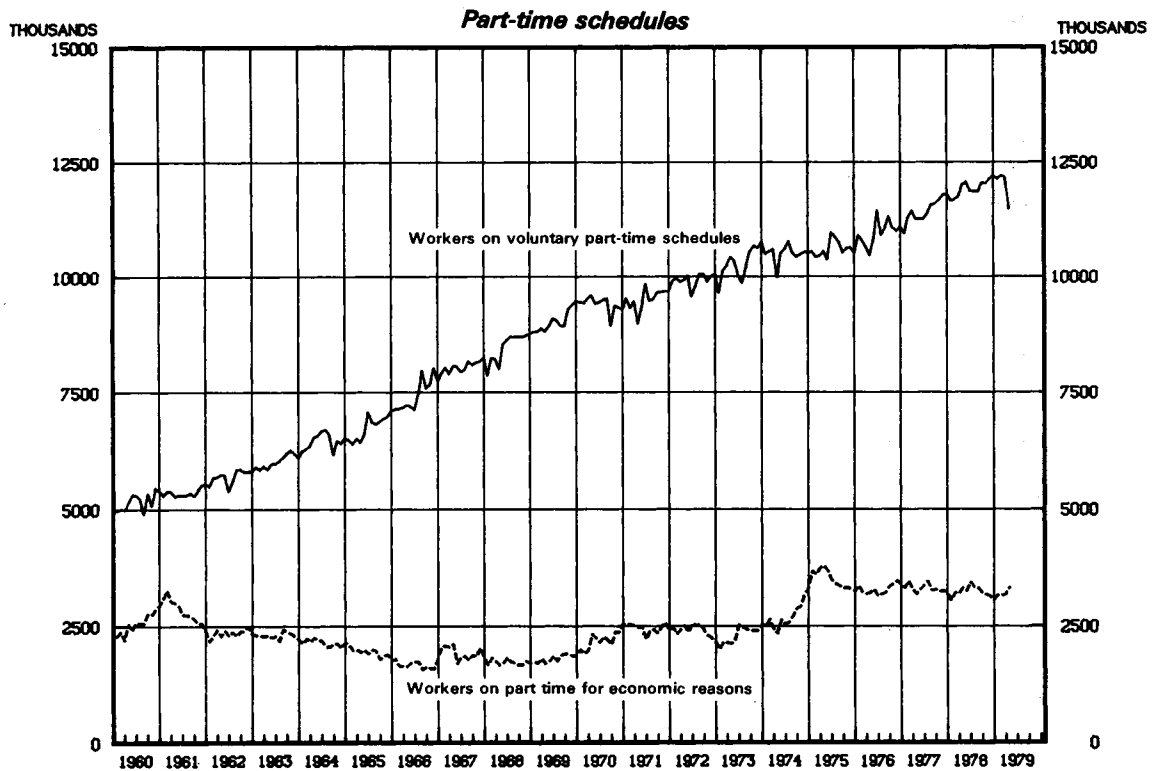
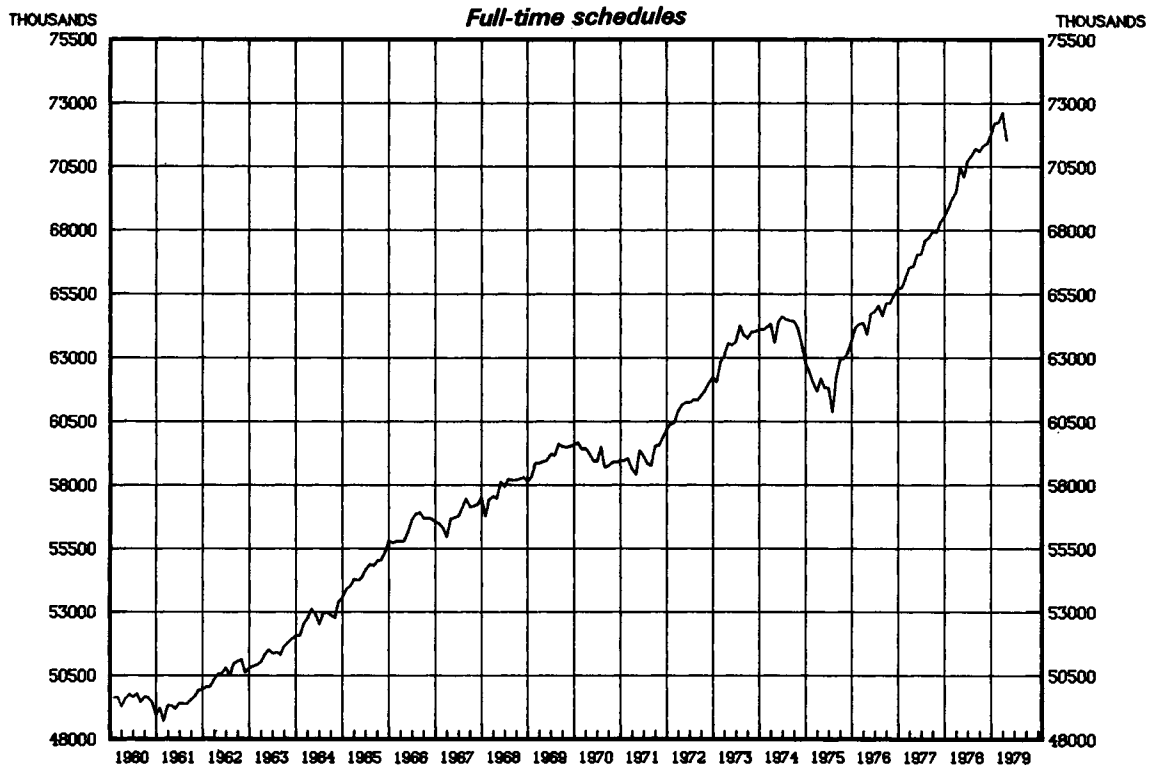


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

**Chart 8. Persons at work full and part time in nonagricultural industries**

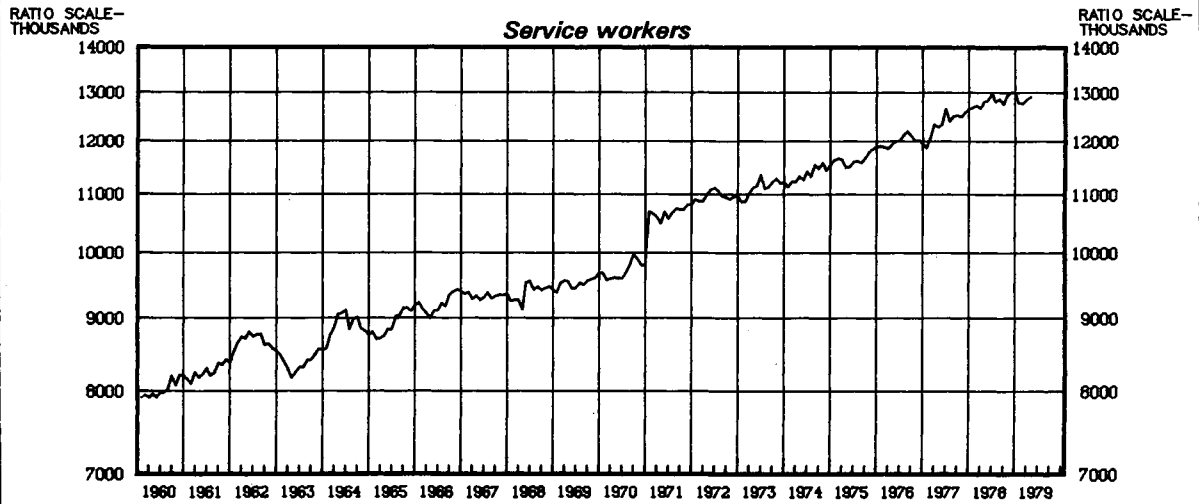
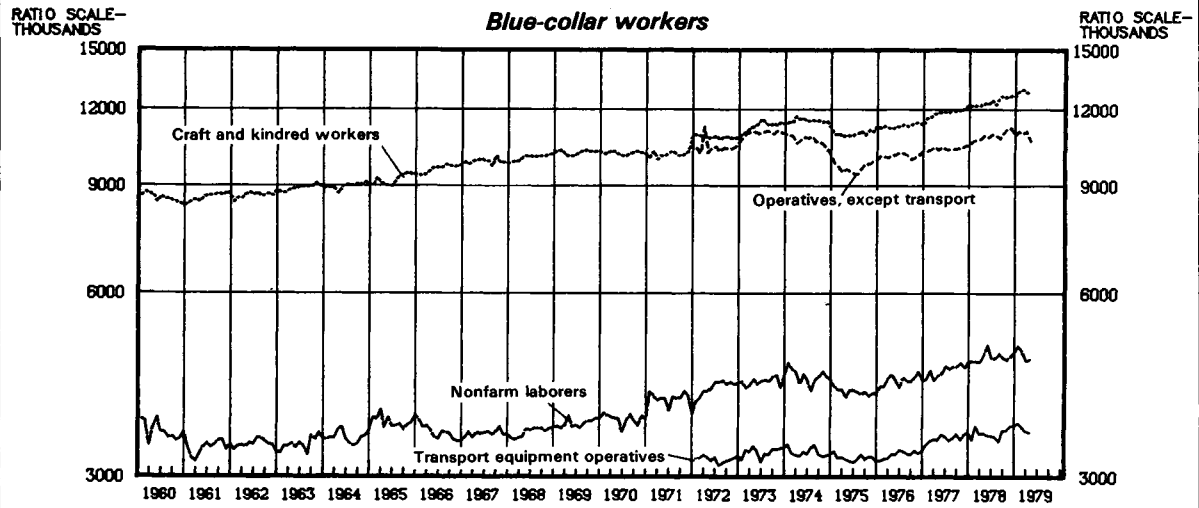
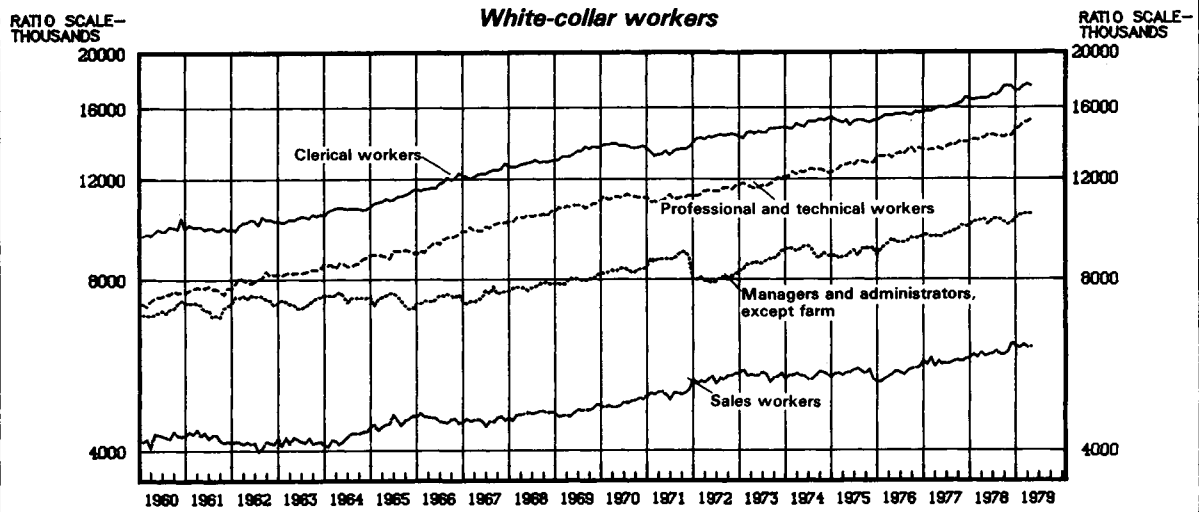
*(Seasonally adjusted)*



SOURCE: Table A-42.

### Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

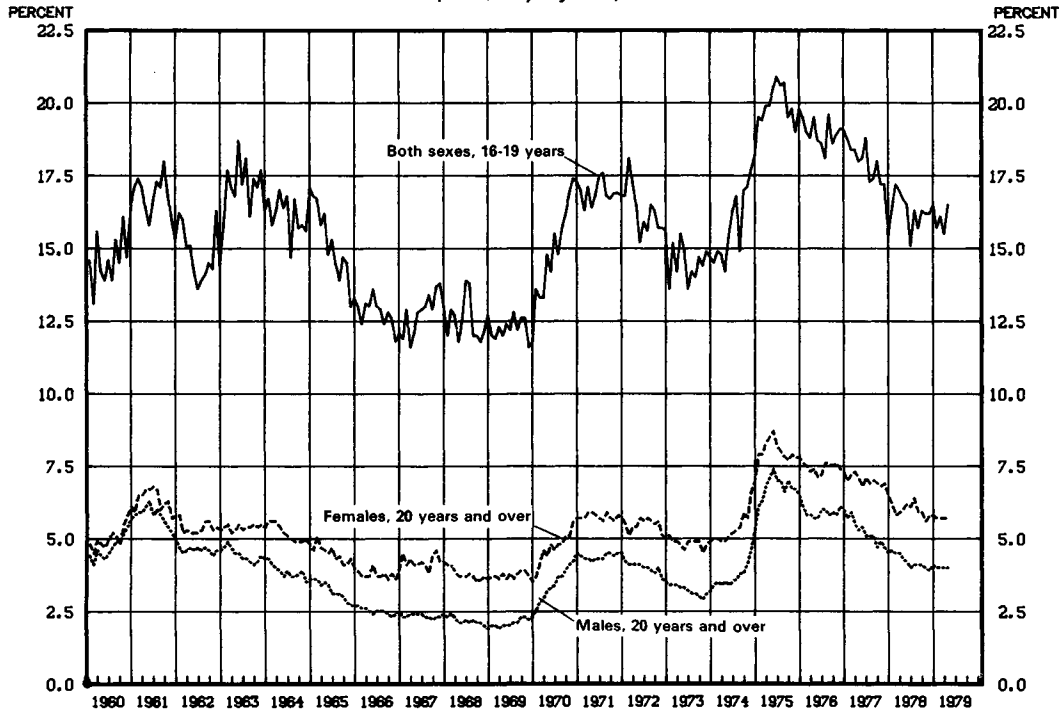


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

**Chart 10. Unemployment rates by sex and age**

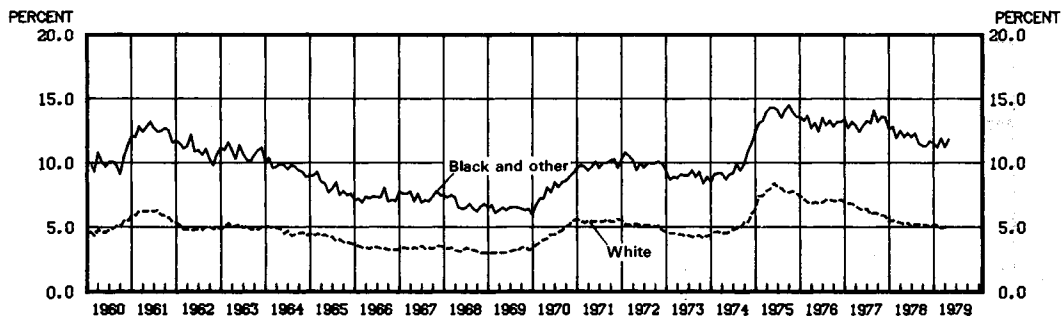
*(Seasonally adjusted)*



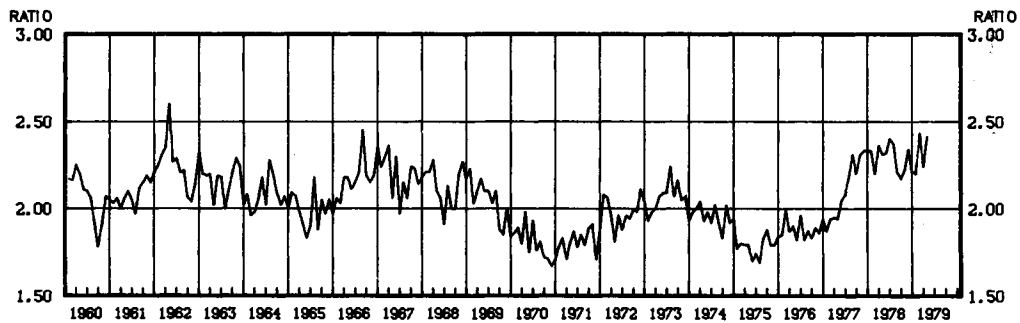
SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**

*(Seasonally adjusted)*



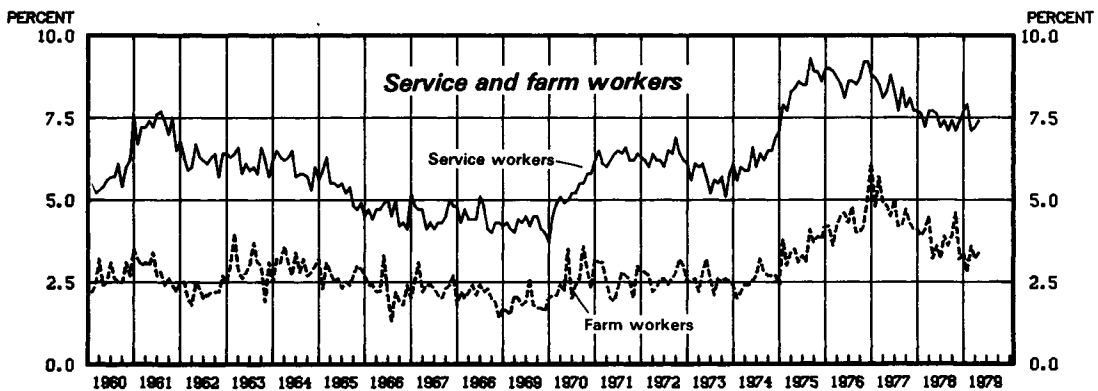
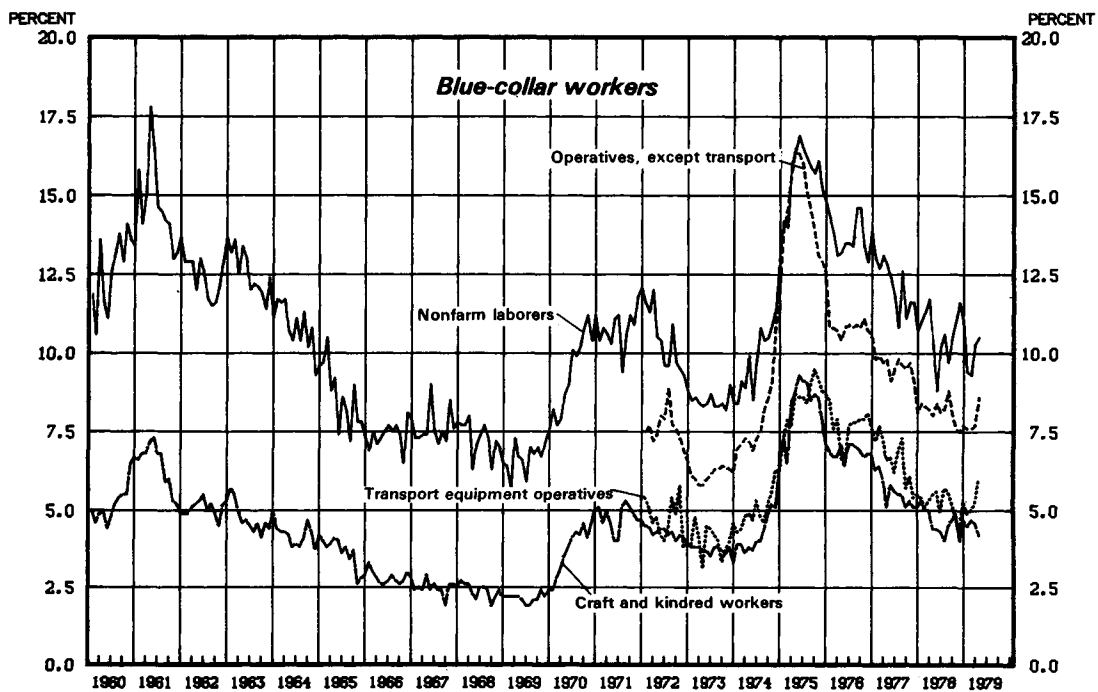
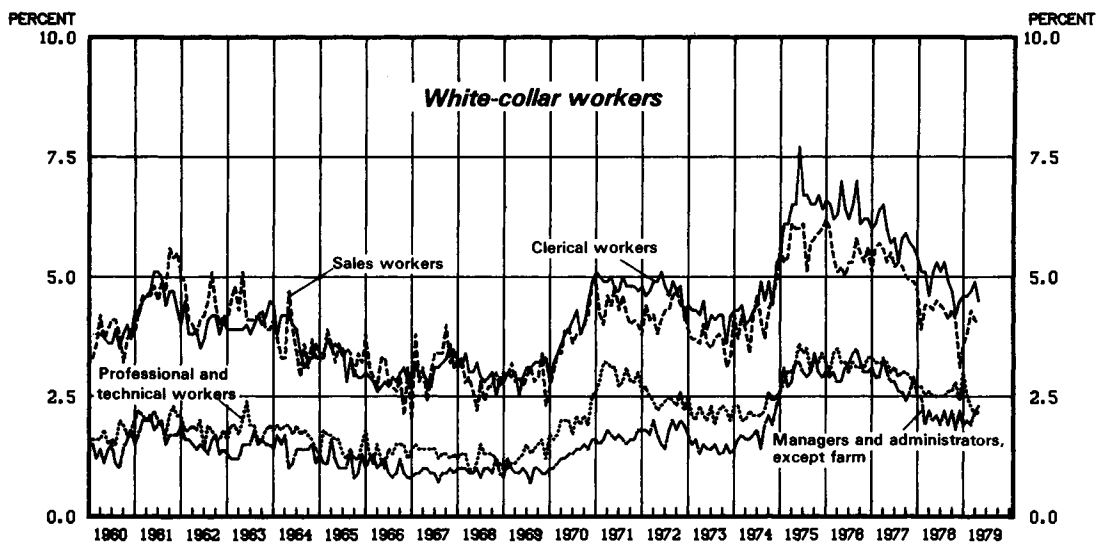
**Ratio of black to white unemployment rate**



SOURCE: Table A-36.



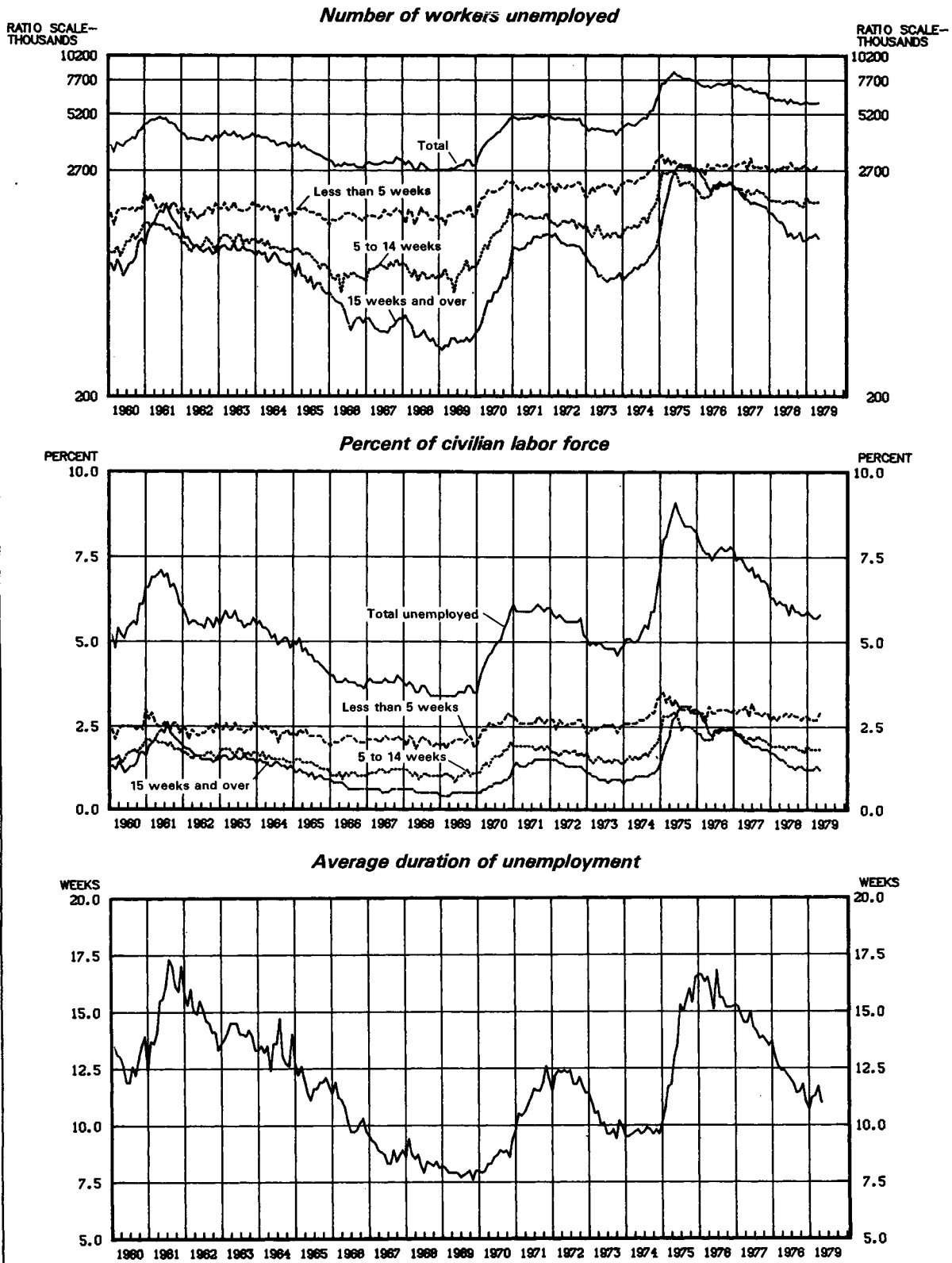
**Chart 12. Unemployment rates by major occupational groups**  
(Seasonally adjusted)



SOURCE: Table A-36.

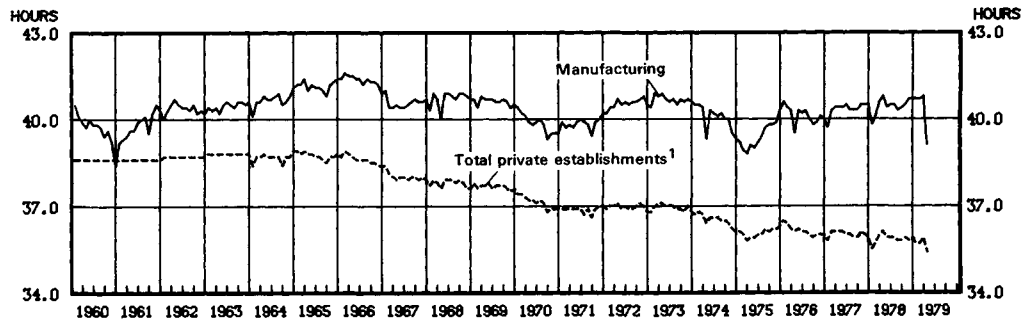
### Chart 13. Duration of unemployment

(Seasonally adjusted)

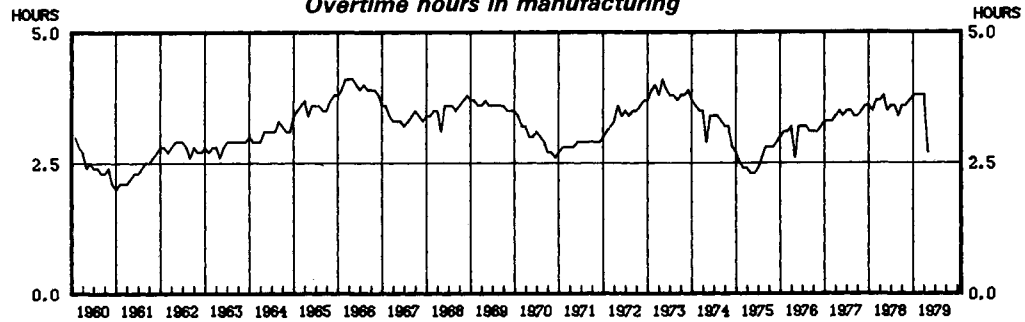


SOURCE: Table A-37.

**Chart 14. Average weekly hours in nonagricultural industries**  
(Seasonally adjusted)



**Overtime hours in manufacturing**

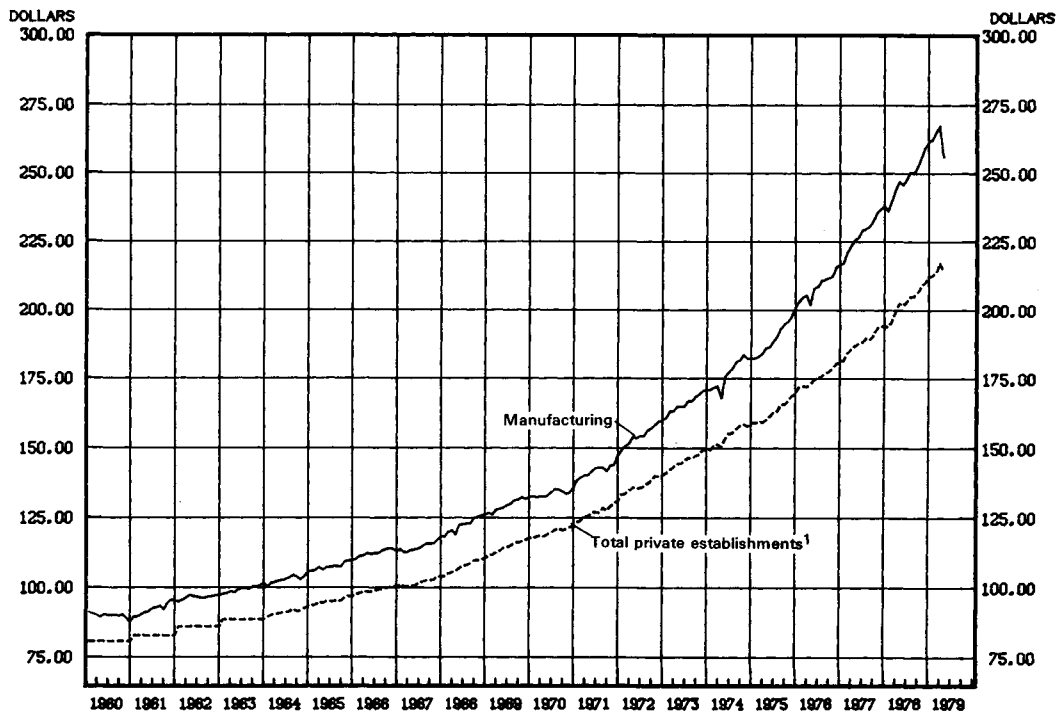


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

**Chart 15. Average weekly earnings in nonagricultural industries**  
(Seasonally adjusted)

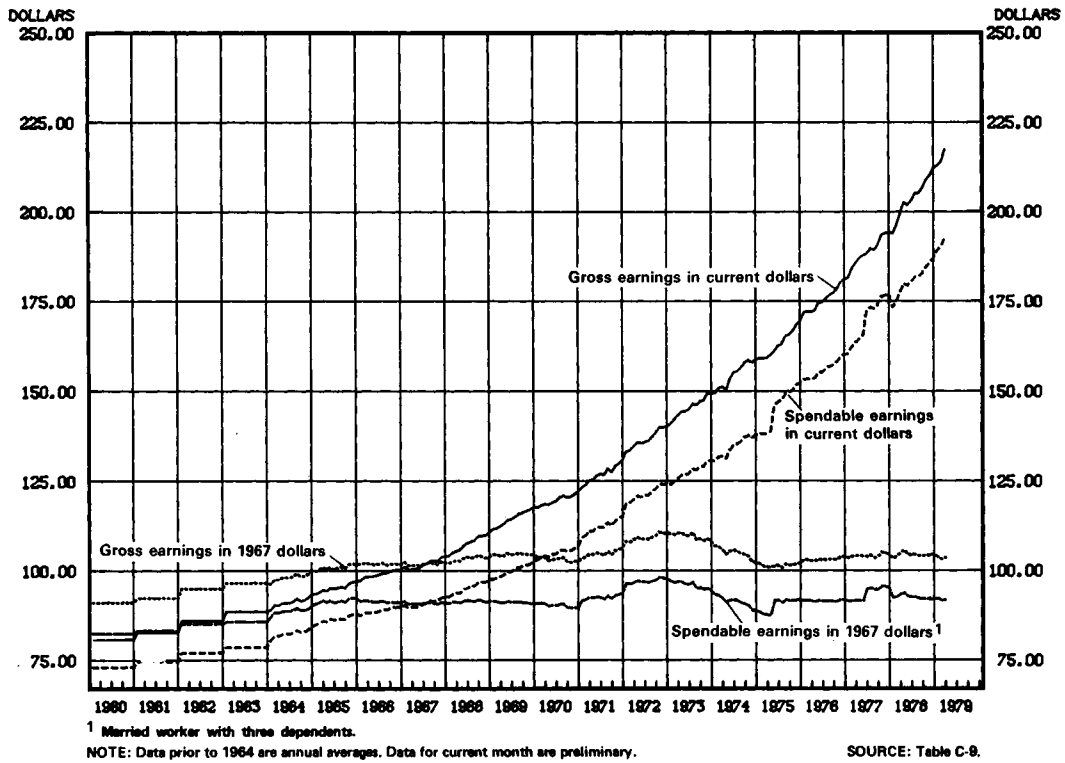


¹Annual averages prior to 1964.

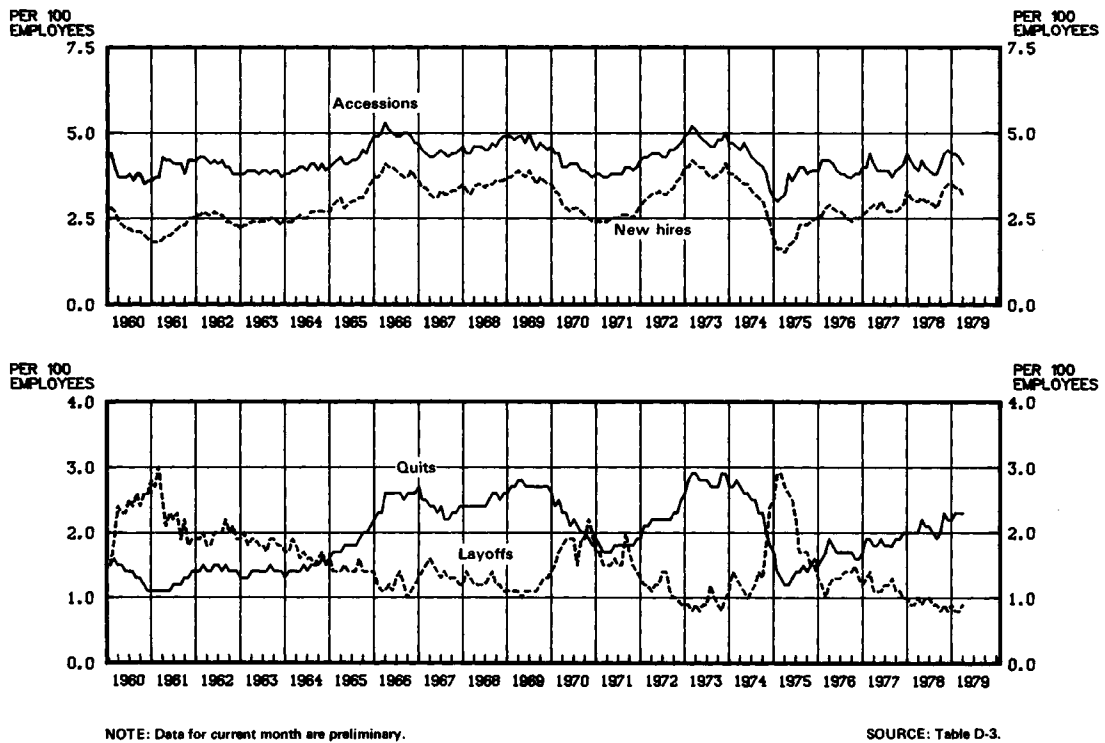
NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

**Chart 16. Total private gross and spendable weekly earnings**  
(Seasonally adjusted)



**Chart 17. Labor turnover rates in manufacturing**  
(Seasonally adjusted)



**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1947 to date**

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
<b>TOTAL</b>										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>1</sup> .....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 <sup>1</sup> .....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978:</b>										
April....	160,504	101,885	63.5	99,767	93,704	3,274	90,430	6,063	6.1	58,619
May.....	160,713	102,222	63.6	100,109	93,953	3,243	90,710	6,156	6.1	58,492
June.....	160,928	102,602	63.8	100,504	94,640	3,424	91,216	5,864	5.8	58,326
July.....	161,148	102,738	63.8	100,622	94,446	3,377	91,069	6,176	6.1	58,410
August...	161,348	102,785	63.7	100,663	94,723	3,351	91,372	5,940	5.9	58,563
September	161,570	103,097	63.8	100,974	95,010	3,406	91,604	5,964	5.9	58,473
October..	161,829	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275
<b>1979:</b>										
January..	162,448	104,277	64.2	102,183	96,300	3,232	93,068	5,883	5.8	58,170
February	162,633	104,621	64.3	102,527	96,647	3,311	93,335	5,881	5.7	58,012
March....	162,909	104,804	64.3	102,714	96,842	3,343	93,499	5,871	5.7	58,105
April....	163,008	104,193	63.9	102,111	96,174	3,186	92,987	5,937	5.8	58,815

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

<sup>2</sup> Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

**HOUSEHOLD DATA  
HISTORICAL**

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date**

(Numbers in thousands)

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>MALES</b>										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 <sup>2</sup> .....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,636
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1978:</b>										
April....	76,901	60,277	78.4	58,280	55,184	2,598	52,586	3,096	5.3	16,624
May.....	77,000	60,396	78.4	58,404	55,372	2,636	52,736	3,032	5.2	16,604
June.....	77,102	60,555	78.5	58,582	55,766	2,745	53,021	2,816	4.8	16,546
July.....	77,206	60,492	78.4	58,502	55,531	2,718	52,813	2,971	5.1	16,715
August...	77,301	60,510	78.3	58,517	55,580	2,695	52,885	2,937	5.0	16,792
September	77,407	60,552	78.2	58,559	55,594	2,739	52,855	2,965	5.1	16,855
October..	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November..	77,643	61,006	78.6	59,019	56,096	2,614	53,482	2,923	5.0	16,636
December..	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
<b>1979:</b>										
January..	77,839	61,438	78.9	59,475	56,449	2,596	53,854	3,026	5.1	16,401
February..	77,926	61,501	78.9	59,538	56,549	2,649	53,900	2,989	5.0	16,425
March.....	78,058	61,515	78.8	59,560	56,559	2,656	53,903	3,001	5.0	16,543
April.....	78,105	61,215	78.4	59,268	56,267	2,559	53,708	3,001	5.1	16,890
Annual averages										
<b>FEMALES</b>										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,928
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,218
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 <sup>1</sup> .....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 <sup>1</sup> .....	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 <sup>2</sup> .....	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1978:</b>										
April....	83,603	41,608	49.8	41,487	38,520	676	37,844	2,967	7.2	41,995
May.....	83,714	41,826	50.0	41,705	38,581	607	37,974	3,124	7.5	41,888
June.....	83,826	42,047	50.2	41,922	38,874	679	38,195	3,048	7.3	41,779
July.....	83,941	42,286	50.3	42,120	38,915	659	38,256	3,205	7.6	41,695
August...	84,047	42,276	50.3	42,146	39,143	656	38,487	3,003	7.1	41,772
September	84,162	42,545	50.6	42,415	39,416	667	38,749	2,999	7.1	41,618
October..	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,801
November..	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December..	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,628
<b>1979:</b>										
January..	84,608	42,840	50.6	42,708	39,851	636	39,214	2,857	6.7	41,769
February..	84,707	43,121	50.9	42,989	40,098	663	39,435	2,891	6.7	41,587
March.....	84,851	43,289	51.0	43,153	40,283	687	39,596	2,870	6.7	41,563
April.....	84,903	42,978	50.6	42,843	39,907	627	39,279	2,936	6.9	41,925

<sup>1</sup> See footnote 1, table A-1.

<sup>2</sup> See footnote 2, table A-1.

## A-3. Employment status of the noninstitutional population by sex, age, and race

[Numbers in thousands]

Sex, age, and race	April 1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>MALES</b>											
16 years and over	60,594	77.6	58,647	55,745	2,902	4.9	17,511	321	4,224	1,862	11,104
16 to 21 years	8,417	66.1	7,763	6,779	985	12.7	4,315	26	3,460	24	805
16 to 19 years	4,970	58.9	4,689	3,972	717	15.3	3,472	23	2,800	13	637
18 to 17 years	2,005	47.9	1,993	1,639	353	17.7	2,178	17	1,798	6	357
18 to 19 years	2,965	69.6	2,696	2,333	363	13.5	1,294	5	1,002	7	280
20 to 64 years	53,691	89.3	52,025	49,920	2,105	4.0	6,413	114	1,424	1,333	3,541
20 to 24 years	8,802	86.1	8,057	7,433	624	7.8	1,426	13	1,069	37	308
25 to 64 years	37,821	94.3	36,900	35,621	1,280	3.5	2,307	57	349	684	1,217
25 to 29 years	8,519	94.6	8,155	7,754	402	4.9	490	2	233	57	199
30 to 34 years	7,702	95.9	7,458	7,215	243	3.3	332	11	58	79	183
35 to 39 years	6,262	96.1	6,072	5,899	172	2.8	254	7	28	79	140
40 to 44 years	5,250	95.0	5,164	5,008	156	3.0	276	4	10	106	155
45 to 49 years	5,068	93.4	5,038	4,904	134	2.7	359	14	12	124	208
50 to 64 years	5,019	89.4	5,013	4,840	173	3.4	596	18	7	239	332
55 to 64 years	7,068	72.5	7,067	6,866	201	2.8	2,679	45	7	612	2,016
55 to 59 years	4,341	81.2	4,340	4,214	126	2.9	1,003	18	4	307	674
60 to 64 years	2,727	61.9	2,727	2,652	75	2.7	1,676	26	2	305	1,342
65 years and over	1,933	20.2	1,933	1,853	80	4.1	7,626	184	1	515	6,926
65 to 69 years	1,155	30.6	1,155	1,100	55	4.8	2,620	52	1	208	2,358
70 years and over	778	13.5	778	753	25	3.2	5,006	132	--	306	4,567
<b>White</b>											
16 years and over	53,903	78.3	52,358	50,122	2,236	4.3	14,895	260	3,419	1,496	9,720
16 to 21 years	7,395	68.3	6,891	6,135	755	11.0	3,427	13	2,793	16	605
16 to 19 years	4,426	61.9	4,209	3,649	561	13.3	2,726	11	2,220	10	485
18 to 17 years	1,826	51.8	1,816	1,534	282	15.5	1,699	9	1,405	6	278
18 to 19 years	2,600	71.7	2,393	2,115	278	11.6	1,027	1	815	3	207
20 to 64 years	47,730	90.0	46,402	44,792	1,609	3.5	5,309	88	1,197	1,074	2,951
20 to 24 years	7,617	86.6	7,044	6,576	467	6.6	1,180	8	925	31	217
25 to 64 years	33,650	95.0	32,896	31,913	982	3.0	1,779	41	266	552	920
25 to 29 years	14,343	95.8	13,854	13,377	477	3.4	624	11	229	104	280
30 to 34 years	10,269	96.4	10,037	9,777	260	2.6	389	6	23	150	210
35 to 44 years	9,038	92.2	9,005	8,760	245	2.7	767	25	14	298	430
55 to 64 years	6,463	73.3	6,462	6,302	160	2.5	2,350	39	7	491	1,813
55 to 59 years	3,971	82.4	3,970	3,871	99	2.5	846	17	4	238	587
60 to 64 years	2,492	62.4	2,492	2,431	61	2.4	1,504	22	2	253	1,226
65 years and over	1,747	20.3	1,747	1,682	66	3.8	6,860	162	1	412	6,284
<b>Black and other</b>											
16 years and over	6,691	71.9	6,289	5,623	666	10.6	2,616	61	806	366	1,384
16 to 21 years	1,022	53.5	873	643	229	26.3	888	13	667	8	200
16 to 19 years	544	42.2	480	324	156	32.5	746	12	579	4	151
18 to 17 years	179	27.2	177	106	71	40.2	479	8	392	--	78
18 to 19 years	365	57.7	303	218	85	28.1	267	4	187	4	73
20 to 64 years	5,961	84.4	5,623	5,128	495	8.8	1,103	27	226	260	591
20 to 24 years	1,185	82.8	1,014	857	157	15.5	246	5	144	6	91
25 to 64 years	4,172	88.8	4,005	3,708	297	7.4	527	15	82	132	297
25 to 29 years	1,879	90.4	1,760	1,592	168	9.5	198	2	62	31	102
30 to 34 years	1,243	89.4	1,199	1,130	69	5.7	141	6	15	36	84
35 to 44 years	1,049	84.8	1,045	985	61	5.8	188	8	5	65	110
55 to 64 years	605	64.8	605	564	41	6.8	329	6	--	120	203
55 to 59 years	370	70.1	370	343	27	7.3	158	2	--	69	87
60 to 64 years	235	57.8	235	221	14	6.1	172	4	--	52	116
65 years and over	186	19.5	186	171	15	7.8	766	22	--	102	642

**HOUSEHOLD DATA**

**A-3. Employment status of the noninstitutional population by sex, age, and race—Continued**

(Numbers in thousands)

Sex, age, and race		April 1979										
		Total labor force		Civilian labor force				Not in labor force				
		Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
						Number	Percent of labor force					
<b>FEMALES</b>												
16 years and over	42,724	50.3	42,589	39,930	2,659	6.2	42,179	32,016	4,242	1,233	4,688	
16 to 21 years	6,935	55.6	6,882	5,966	916	13.3	5,536	1,343	3,517	24	652	
16 to 19 years	4,187	50.7	4,164	3,526	638	15.3	4,071	622	2,929	16	504	
16 to 17 years	1,683	41.5	1,682	1,372	311	18.5	2,368	157	1,888	5	318	
18 to 19 years	2,504	59.5	2,482	2,155	327	13.2	1,703	465	1,041	11	186	
20 to 64 years	37,348	59.3	37,236	35,248	1,987	5.3	25,645	21,917	1,306	552	1,870	
20 to 24 years	6,907	67.6	6,839	6,251	587	8.6	3,305	2,071	902	27	305	
25 to 54 years	25,859	61.7	25,815	24,566	1,249	4.8	16,030	14,411	385	285	949	
25 to 29 years	6,002	65.4	5,972	5,572	400	6.7	3,173	2,797	182	33	161	
30 to 34 years	5,024	61.0	5,016	4,769	247	4.9	3,218	2,897	89	28	204	
35 to 39 years	4,294	62.7	4,291	4,104	187	4.4	2,556	2,300	66	33	156	
40 to 44 years	3,746	64.0	3,745	3,604	141	3.8	2,106	1,950	23	42	92	
45 to 49 years	3,459	60.4	3,459	3,314	145	4.2	2,272	2,069	20	48	135	
50 to 64 years	3,333	55.2	3,333	3,204	129	3.9	2,706	2,399	5	100	202	
55 to 64 years	4,582	42.1	4,582	4,431	151	3.3	6,310	5,435	19	240	616	
65 to 69 years	2,846	48.5	2,846	2,761	85	3.0	3,021	2,630	10	128	253	
60 to 64 years	1,736	34.5	1,736	1,670	66	3.8	3,289	2,804	9	111	364	
65 years and over	1,189	8.7	1,189	1,155	34	2.9	12,463	9,477	7	666	2,313	
65 to 69 years	743	15.7	743	716	27	3.6	3,989	3,204	4	142	638	
70 years and over	446	5.0	446	439	7	1.6	8,473	6,273	3	523	1,674	
<b>White</b>												
16 years and over	36,942	49.9	36,837	34,874	1,962	5.3	37,033	28,611	3,422	965	4,036	
16 to 21 years	6,093	58.0	6,051	5,388	663	11.0	4,416	1,046	2,853	19	498	
16 to 19 years	3,707	53.4	3,690	3,226	464	12.6	3,237	482	2,363	15	376	
16 to 17 years	1,525	44.9	1,525	1,279	246	16.1	1,870	123	1,509	5	233	
18 to 19 years	2,182	61.5	2,165	1,947	218	10.1	1,367	359	855	10	143	
20 to 64 years	32,181	58.9	32,094	30,623	1,471	4.6	22,477	19,415	1,052	421	1,589	
20 to 24 years	5,975	69.1	5,922	5,510	412	7.0	2,667	1,683	731	23	229	
25 to 54 years	22,130	61.1	22,096	21,170	926	4.2	14,100	12,778	302	211	809	
25 to 29 years	9,322	62.5	9,292	8,843	448	4.8	5,604	5,030	206	55	312	
30 to 34 years	6,870	62.5	6,867	6,624	243	3.5	4,113	3,774	73	57	210	
35 to 44 years	5,938	57.5	5,937	5,702	236	4.0	4,383	3,975	22	99	287	
55 to 64 years	4,076	41.7	4,076	3,944	133	3.3	5,710	4,953	19	186	552	
65 to 69 years	2,531	48.2	2,531	2,460	71	2.8	2,721	2,394	10	95	222	
60 to 64 years	1,546	34.1	1,546	1,483	62	4.0	2,989	2,559	9	91	329	
65 years and over	1,053	8.5	1,053	1,026	27	2.6	11,320	8,714	7	529	2,070	
<b>Black and other</b>												
16 years and over	5,782	52.9	5,752	5,055	697	12.1	5,145	3,405	819	269	652	
16 to 21 years	842	42.9	830	578	253	30.4	1,120	297	664	5	155	
16 to 19 years	480	36.5	475	301	174	36.6	834	139	566	1	128	
16 to 17 years	157	24.0	157	93	64	41.0	498	34	379	--	85	
18 to 19 years	322	49.0	317	208	109	34.5	336	105	187	1	63	
20 to 64 years	5,167	62.0	5,141	4,626	516	10.0	3,169	2,502	254	132	281	
20 to 24 years	932	59.3	917	742	176	19.2	639	388	170	4	76	
25 to 54 years	3,729	65.9	3,719	3,397	323	8.7	1,931	1,632	84	74	141	
25 to 29 years	1,705	68.4	1,696	1,497	198	11.7	787	664	64	6	52	
30 to 34 years	1,170	68.1	1,169	1,084	86	7.3	548	476	17	18	38	
35 to 44 years	854	58.9	854	816	39	4.5	595	492	3	49	50	
55 to 64 years	505	45.7	505	487	18	3.5	600	482	--	53	65	
65 to 69 years	315	51.2	315	301	14	4.5	300	237	--	33	30	
60 to 64 years	190	38.8	190	186	4	2.0	300	245	--	20	34	
65 years and over	136	10.6	136	129	7	4.9	1,142	764	--	136	243	



## A-4. Labor force by sex, age, and race

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>MALES</b>								
16 years and over	59,669	60,594	77.6	77.6	57,672	58,647	77.0	77.0
16 to 19 years	4,987	4,970	58.8	58.9	4,669	4,689	57.2	57.5
16 to 17 years	1,994	2,005	47.0	47.9	1,975	1,993	46.8	47.8
18 to 19 years	2,993	2,965	70.6	69.6	2,694	2,696	68.3	67.6
20 to 24 years	8,570	8,802	85.0	86.1	7,830	8,057	83.8	85.0
25 to 54 years	37,118	37,821	94.3	94.3	36,180	36,900	94.1	94.1
25 to 34 years	15,771	16,222	95.3	95.2	15,154	15,618	95.1	95.0
35 to 44 years	11,172	11,513	95.6	95.6	10,889	11,236	95.5	95.5
45 to 54 years	10,174	10,087	91.3	91.4	10,136	10,051	91.3	91.3
55 to 64 years	7,072	7,068	73.5	72.5	7,071	7,067	73.5	72.5
55 to 59 years	4,401	4,341	83.4	81.2	4,400	4,340	83.4	81.2
60 to 64 years	2,671	2,727	61.5	61.9	2,671	2,727	61.5	61.9
65 years and over	1,921	1,933	20.6	20.2	1,921	1,933	20.6	20.2
<b>White</b>								
16 years and over	53,144	53,903	78.3	78.3	51,528	52,358	77.8	77.9
16 to 19 years	4,438	4,426	61.6	61.9	4,185	4,209	60.2	60.7
16 to 17 years	1,818	1,826	50.7	51.8	1,802	1,816	50.5	51.7
18 to 19 years	2,619	2,600	72.4	71.7	2,383	2,393	70.5	70.0
20 to 24 years	7,483	7,617	86.0	86.6	6,900	7,044	85.0	85.7
25 to 54 years	33,047	33,650	94.9	95.0	32,267	32,896	94.8	94.9
25 to 34 years	13,955	14,343	95.8	95.8	13,448	13,854	95.6	95.7
35 to 44 years	9,933	10,269	96.1	96.4	9,695	10,037	96.0	96.3
45 to 54 years	9,159	9,038	92.3	92.2	9,125	9,005	92.3	92.2
55 to 64 years	6,441	6,463	74.0	73.3	6,439	6,462	74.0	73.3
55 to 59 years	4,012	3,971	84.3	82.4	4,011	3,970	84.3	82.4
60 to 64 years	2,429	2,492	61.5	62.4	2,429	2,492	61.5	62.4
65 years and over	1,736	1,747	20.6	20.3	1,736	1,747	20.6	20.3
<b>Black and other</b>								
16 years and over	6,525	6,691	72.2	71.9	6,144	6,289	71.0	70.6
16 to 19 years	550	584	43.0	42.2	485	480	39.9	39.1
16 to 17 years	176	179	26.9	27.2	173	177	26.6	27.0
18 to 19 years	373	365	59.8	57.7	311	303	55.4	53.1
20 to 24 years	1,087	1,185	78.5	82.8	930	1,014	75.7	80.4
25 to 54 years	4,071	4,172	89.6	88.8	3,913	4,005	89.3	88.4
25 to 34 years	1,816	1,879	91.9	90.4	1,706	1,760	91.4	89.9
35 to 44 years	1,239	1,243	92.0	89.8	1,195	1,199	91.7	89.5
45 to 54 years	1,015	1,049	83.2	84.8	1,012	1,045	83.2	84.8
55 to 64 years	632	605	69.5	64.8	632	605	69.4	64.8
55 to 59 years	389	370	75.5	70.1	389	370	75.5	70.1
60 to 64 years	242	235	61.5	57.8	242	235	61.5	57.8
65 years and over	185	186	20.1	19.5	185	186	20.1	19.5

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**A-4. Labor force by sex, age, and race—Continued**

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>FEMALES</b>								
16 years and over	41,315	42,724	49.4	50.3	41,193	42,589	49.3	50.2
16 to 19 years	4,079	4,187	49.1	50.7	4,060	4,164	49.0	50.6
16 to 17 years	1,654	1,683	40.3	41.5	1,654	1,682	40.3	41.5
18 to 19 years	2,425	2,504	57.8	59.5	2,406	2,482	57.6	59.3
20 to 24 years	6,720	6,907	66.7	67.6	6,656	6,839	66.5	67.4
25 to 54 years	24,828	25,859	60.3	61.7	24,791	25,815	60.3	61.7
25 to 34 years	10,536	11,027	62.3	63.3	10,503	10,988	62.2	63.2
35 to 44 years	7,569	8,040	61.4	63.3	7,565	8,036	61.4	63.3
45 to 54 years	6,724	6,793	56.5	57.7	6,723	6,792	56.5	57.7
55 to 64 years	4,508	4,582	41.9	42.1	4,508	4,582	41.9	42.1
55 to 59 years	2,821	2,846	48.6	48.5	2,821	2,846	48.6	48.5
60 to 64 years	1,687	1,736	34.1	34.5	1,687	1,736	34.1	34.5
65 years and over	1,178	1,189	8.8	8.7	1,178	1,189	8.8	8.7
<b>White</b>								
16 years and over	35,767	36,942	49.0	49.9	35,670	36,837	48.9	49.9
16 to 19 years	3,669	3,707	52.4	53.4	3,653	3,690	52.3	53.3
16 to 17 years	1,525	1,525	44.2	44.9	1,525	1,525	44.2	44.9
18 to 19 years	2,144	2,182	60.5	61.5	2,129	2,165	60.3	61.3
20 to 24 years	5,757	5,975	67.3	69.1	5,706	5,922	67.1	69.0
25 to 54 years	21,266	22,130	59.6	61.1	21,236	22,096	59.6	61.0
25 to 34 years	8,914	9,322	61.3	62.5	8,888	9,292	61.2	62.4
35 to 44 years	6,457	6,870	60.6	62.5	6,454	6,867	60.6	62.5
45 to 54 years	5,895	5,938	56.2	57.5	5,894	5,937	56.2	57.5
55 to 64 years	4,036	4,076	41.7	41.7	4,036	4,076	41.7	41.7
55 to 59 years	2,532	2,531	48.7	48.2	2,532	2,531	48.7	48.2
60 to 64 years	1,504	1,546	33.6	34.1	1,504	1,546	33.6	34.1
65 years and over	1,039	1,053	8.6	8.5	1,039	1,053	8.6	8.5
<b>Black and other</b>								
16 years and over	5,547	5,782	52.3	52.9	5,523	5,752	52.2	52.8
16 to 19 years	410	480	31.4	36.5	407	475	31.3	36.3
16 to 17 years	129	157	19.7	24.0	129	157	19.7	24.0
18 to 19 years	281	322	43.2	49.0	278	317	43.0	48.6
20 to 24 years	963	932	63.3	59.3	950	917	62.9	58.8
25 to 54 years	3,564	3,729	65.2	65.9	3,556	3,719	65.1	65.8
25 to 34 years	1,622	1,705	68.4	68.4	1,615	1,696	68.3	68.3
35 to 44 years	1,112	1,170	66.7	68.1	1,112	1,169	66.7	68.1
45 to 54 years	829	854	58.1	58.9	829	854	58.1	58.9
55 to 64 years	472	505	43.9	45.7	472	505	43.9	45.7
55 to 59 years	288	315	48.3	51.2	288	315	48.3	51.2
60 to 64 years	183	190	38.4	38.8	183	190	38.4	38.8
65 years and over	139	136	11.3	10.6	139	136	11.3	10.6

## A-5. Employment status of black workers by sex and age

[Numbers in thousands]

Sex and age	April 1979						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagri-cultural industries	Number	Percent of labor force	
<b>TOTAL</b>							
16 years and over .....	10,198	8,967	204	8,763	1,231	12.1	6,749
16 to 19 years .....	822	519	14	505	303	36.8	1,407
16 to 17 years .....	285	164	3	161	121	42.5	870
18 to 19 years .....	537	355	11	344	181	33.8	537
20 to 24 years .....	1,659	1,356	25	1,331	302	18.2	752
25 to 54 years .....	6,493	5,936	107	5,829	556	8.6	2,053
25 to 34 years .....	2,876	2,545	54	2,490	332	11.5	792
35 to 44 years .....	2,010	1,875	25	1,849	136	6.7	587
45 to 54 years .....	1,606	1,517	28	1,489	89	5.5	674
55 to 64 years .....	950	899	33	866	51	5.4	850
55 to 59 years .....	580	547	18	529	34	5.8	409
60 to 64 years .....	370	353	16	337	17	4.7	441
65 years and over .....	275	256	23	233	19	6.9	1,687
<b>Males</b>							
16 years and over .....	5,306	4,711	170	4,541	595	11.2	2,296
16 to 19 years .....	419	277	10	267	142	33.9	661
16 to 17 years .....	151	89	3	86	63	41.7	428
18 to 19 years .....	267	188	6	181	78	29.2	233
20 to 24 years .....	870	732	20	712	137	15.7	199
25 to 54 years .....	3,358	3,089	87	3,002	268	8.0	462
25 to 34 years .....	1,457	1,303	45	1,257	155	10.6	164
35 to 44 years .....	1,015	955	20	934	60	5.9	129
45 to 54 years .....	886	832	23	809	54	6.1	169
55 to 64 years .....	507	471	29	442	36	7.1	313
55 to 59 years .....	306	284	16	268	23	7.5	148
60 to 64 years .....	202	189	15	174	13	6.4	165
65 years and over .....	154	141	21	120	13	8.4	661
<b>Females</b>							
16 years and over .....	4,892	4,256	34	4,222	636	13.0	4,453
16 to 19 years .....	403	242	4	238	161	39.9	746
16 to 17 years .....	134	75	--	75	58	43.7	442
18 to 19 years .....	270	167	5	163	103	38.0	304
20 to 24 years .....	789	624	5	619	165	20.9	553
25 to 54 years .....	3,135	2,847	20	2,827	288	9.2	1,591
25 to 34 years .....	1,419	1,242	9	1,233	177	12.5	628
35 to 44 years .....	995	920	5	915	76	7.6	458
45 to 54 years .....	720	685	5	680	35	4.9	505
55 to 64 years .....	443	428	4	424	15	3.5	537
55 to 59 years .....	274	263	2	261	11	4.1	251
60 to 64 years .....	168	164	1	163	4	2.3	276
65 years and over .....	121	115	2	113	6	5.3	1,026

NOTE: According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

# HOUSEHOLD DATA

## A-6. Employment status of the noninstitutional population by race, sex, and age

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 10-19 years	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>TOTAL</b>								
Total noninstitutional population .....	160,504	163,008	68,419	69,663	75,300	76,645	16,785	16,700
Total labor force .....	100,984	103,318	54,682	55,624	37,235	38,537	9,066	9,157
Percent of population .....	62.9	63.4	79.9	79.8	49.4	50.3	54.0	54.8
Civilian labor force .....	98,866	101,236	53,003	53,958	37,133	38,425	8,730	8,853
Employed .....	93,180	95,675	50,725	51,773	35,083	36,403	7,372	7,499
Agriculture .....	3,151	3,074	2,274	2,237	552	534	326	303
Nonagricultural industries .....	90,029	92,601	48,451	49,536	34,531	35,869	7,047	7,195
Unemployed .....	5,685	5,561	2,278	2,185	2,050	2,021	1,357	1,355
Percent of labor force .....	5.8	5.5	4.3	4.0	5.5	5.3	15.5	15.3
Not in labor force .....	59,520	59,690	13,737	14,039	38,065	38,108	7,719	7,543
<b>White</b>								
Total noninstitutional population .....	140,863	142,773	60,657	61,646	66,003	67,031	14,202	14,096
Total labor force .....	88,912	90,845	48,707	49,477	32,098	33,234	8,107	8,133
Percent of population .....	63.1	63.6	80.3	80.3	48.6	49.6	57.1	57.7
Civilian labor force .....	87,198	89,195	47,343	48,149	32,017	33,147	7,838	7,899
Employed .....	82,848	84,997	45,584	46,474	30,466	31,649	6,797	6,874
Agriculture .....	2,875	2,816	2,054	2,038	511	492	311	285
Nonagricultural industries .....	79,973	82,181	43,530	44,436	29,955	31,157	6,487	6,589
Unemployed .....	4,351	4,198	1,759	1,675	1,551	1,498	1,041	1,025
Percent of labor force .....	5.0	4.7	3.7	3.5	4.8	4.5	13.3	13.0
Not in labor force .....	51,951	51,928	11,951	12,169	33,905	33,797	6,096	5,963
<b>Black and other</b>								
Total noninstitutional population .....	19,641	20,234	7,761	8,017	9,297	9,614	2,583	2,604
Total labor force .....	12,072	12,473	5,975	6,147	5,137	5,303	960	1,024
Percent of population .....	61.5	61.6	77.0	76.7	55.3	55.2	37.2	39.3
Civilian labor force .....	11,667	12,041	5,660	5,809	5,116	5,277	891	955
Employed .....	10,333	10,678	5,141	5,299	4,617	4,755	575	625
Agriculture .....	276	259	220	199	41	42	15	18
Nonagricultural industries .....	10,056	10,419	4,920	5,100	4,576	4,713	560	607
Unemployed .....	1,335	1,363	519	510	499	523	317	330
Percent of labor force .....	11.4	11.3	9.2	8.8	9.8	9.9	35.5	34.6
Not in labor force .....	7,569	7,761	1,786	1,869	4,160	4,311	1,623	1,580

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A.7. Employment status of the noninstitutional population 16-21 years of age by race and sex

(Numbers in thousands)

Employment status	April 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population	25,203	12,732	12,471	21,331	10,822	10,509	3,872	1,910	1,962
Total labor force	15,352	8,417	6,935	13,489	7,395	6,093	1,863	1,022	842
Percent of population	60.9	66.1	55.6	63.2	68.3	58.0	48.1	53.5	42.9
Civilian labor force	14,645	7,763	6,882	12,942	6,891	6,051	1,703	873	830
Employed	12,745	6,779	5,966	11,524	6,135	5,388	1,221	643	578
Agriculture	462	397	66	437	378	59	25	19	6
Nonagricultural industries	12,282	6,382	5,900	11,087	5,758	5,329	1,196	624	571
Unemployed	1,900	985	916	1,418	755	663	482	229	253
Looking for full-time work	1,172	627	545	829	466	364	343	162	181
Looking for part-time work	728	357	371	589	290	299	139	68	72
Percent of labor force	13.0	12.7	13.3	11.0	11.0	11.0	28.3	26.3	30.4
Not in labor force	9,851	4,315	5,536	7,842	3,427	4,416	2,009	888	1,120
Major activity: going to school									
Civilian labor force	4,022	2,078	1,944	3,659	1,904	1,755	363	174	189
Employed	3,365	1,731	1,634	3,147	1,634	1,513	218	97	121
Agriculture	143	122	21	141	120	21	2	1	1
Nonagricultural industries	3,222	1,609	1,613	3,006	1,513	1,493	216	96	120
Unemployed	657	347	310	512	270	242	145	77	68
Looking for full-time work	102	56	46	69	39	30	33	17	16
Looking for part-time work	555	291	264	443	231	212	112	60	52
Percent of labor force	16.3	16.7	15.9	14.0	14.2	13.8	40.0	44.4	35.9
Not in labor force	6,976	3,460	3,517	5,646	2,793	2,853	1,331	667	664
Major activity: other									
Civilian labor force	10,623	5,685	4,938	9,283	4,987	4,296	1,340	698	642
Employed	9,380	5,048	4,332	8,377	4,502	3,875	1,003	546	457
Agriculture	320	275	44	296	257	39	24	18	6
Nonagricultural industries	9,060	4,773	4,288	8,081	4,244	3,836	979	528	451
Unemployed	1,243	637	606	906	485	421	337	152	185
Looking for full-time work	1,070	571	499	760	426	334	310	144	165
Looking for part-time work	174	66	107	146	59	87	27	7	20
Percent of labor force	11.7	11.2	12.3	9.8	9.7	9.8	25.1	21.7	28.8
Not in labor force	2,875	855	2,020	2,197	634	1,563	678	221	457

# HOUSEHOLD DATA

## A-8. Full- and part-time status of the civilian labor force by sex, age, and race

[Numbers in thousands]

Race, sex, and age	April 1979								
	Full-time labor force				Part-time labor force				
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full-time schedules <sup>1</sup>	Part-time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over	85,546	78,021	3,155	4,370	5.1	15,691	14,499	1,192	7.6
16 to 21 years	8,775	6,890	713	1,172	13.4	5,870	5,142	728	12.4
16 to 19 years	4,101	2,985	409	707	17.2	4,752	4,104	648	13.6
16 to 17 years	807	519	102	186	23.1	2,868	2,390	478	16.7
18 to 19 years	3,294	2,467	307	520	15.8	1,885	1,714	170	9.0
20 years and over	81,444	75,035	2,746	3,663	4.5	10,938	10,395	544	5.0
20 to 24 years	12,794	11,078	655	1,061	8.3	2,102	1,951	151	7.2
25 years and over	68,649	63,958	2,091	2,602	3.8	8,836	8,443	392	4.4
25 to 54 years	56,801	52,939	1,612	2,251	4.0	5,914	5,636	278	4.7
55 years and over	11,849	11,019	479	351	3.0	2,922	2,807	114	3.9
Males, 16 years and over	53,551	49,718	1,407	2,426	4.5	5,096	4,621	476	9.3
16 to 21 years	4,943	3,965	351	627	12.7	2,820	2,463	357	12.7
16 to 19 years	2,354	1,763	195	396	16.8	2,335	2,015	321	13.7
20 years and over	51,197	47,955	1,212	2,030	4.0	2,761	2,606	155	5.6
20 to 24 years	7,225	6,344	314	566	7.8	833	775	58	7.0
25 years and over	43,973	41,611	897	1,464	3.3	1,927	1,831	96	5.0
25 to 54 years	36,193	34,286	664	1,242	3.4	1,707	1,670	37	5.2
55 years and over	7,780	7,325	233	222	2.9	1,220	1,161	59	4.8
Females, 16 years and over	31,995	28,303	1,749	1,943	6.1	10,594	9,878	716	6.8
16 to 21 years	3,832	2,925	362	545	14.2	3,050	2,679	371	12.2
16 to 19 years	1,748	1,223	214	311	17.8	2,417	2,089	328	13.6
20 years and over	30,247	27,080	1,535	1,632	5.4	8,177	7,788	389	4.8
20 to 24 years	5,570	4,734	342	494	8.9	1,269	1,176	93	7.3
25 years and over	24,678	22,347	1,194	1,138	4.6	6,908	6,612	296	4.3
25 to 54 years	20,608	18,653	948	1,009	4.9	5,207	4,966	241	4.6
55 years and over	4,069	3,694	246	129	3.2	1,701	1,646	55	3.2
<b>White</b>									
Males, 16 years and over	47,763	44,744	1,163	1,857	3.9	4,595	4,216	379	8.3
16 to 21 years	4,330	3,571	293	466	10.8	2,561	2,271	290	11.3
16 to 19 years	2,087	1,615	172	301	14.4	2,122	1,862	260	12.2
20 years and over	45,676	43,129	991	1,556	3.4	2,473	2,354	120	4.8
20 to 24 years	6,295	5,627	245	423	6.7	749	705	45	5.9
25 years and over	39,380	37,501	747	1,133	2.9	1,724	1,649	75	4.4
25 to 54 years	32,289	30,778	558	954	3.0	1,606	1,577	29	4.8
55 years and over	7,091	6,723	190	179	2.5	1,118	1,072	46	4.1
Females, 16 years and over	27,221	24,426	1,426	1,368	5.0	9,616	9,022	594	6.2
16 to 21 years	3,300	2,631	305	364	11.0	2,751	2,452	299	10.9
16 to 19 years	1,504	1,121	185	198	13.1	2,186	1,919	267	12.2
20 years and over	25,717	23,305	1,241	1,171	4.6	7,430	7,103	328	4.4
20 to 24 years	4,779	4,169	273	338	7.1	1,142	1,069	74	6.4
25 years and over	20,938	19,136	969	833	4.0	6,288	6,035	253	4.0
25 to 54 years	17,284	15,788	776	721	4.2	4,812	4,606	205	4.3
55 years and over	3,653	3,348	194	112	3.1	1,476	1,428	48	3.3
<b>Black and other</b>									
Males, 16 years and over	5,788	4,974	244	570	9.8	502	405	96	19.2
16 to 21 years	613	394	58	162	26.4	259	192	68	26.1
16 to 19 years	266	148	23	95	35.7	214	153	61	28.6
20 years and over	5,521	4,826	220	475	8.6	288	252	35	12.3
20 to 24 years	930	717	69	143	15.4	84	70	14	16.2
25 years and over	4,590	4,109	151	331	7.2	203	182	22	10.8
25 to 54 years	3,903	3,507	107	289	7.4	101	93	9	8.9
55 years and over	688	602	44	42	6.1	102	89	13	12.7
Females, 16 years and over	4,774	3,877	322	575	12.0	978	856	122	12.5
16 to 21 years	532	293	57	181	34.1	299	227	72	24.0
16 to 19 years	244	101	29	113	46.4	231	170	61	26.4
20 years and over	4,531	3,776	293	462	10.2	747	686	61	8.2
20 to 24 years	790	565	69	156	19.8	127	108	19	15.2
25 years and over	3,741	3,211	225	305	8.2	620	578	43	6.9
25 to 54 years	3,325	2,865	172	288	8.7	395	360	35	8.9
55 years and over	416	346	52	18	4.3	225	218	7	3.1

<sup>1</sup> Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

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A-9. Employment status of the noninstitutional population by family relationship

[Numbers in thousands]

Family relationship	April 1979									
	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 .....	101,236	62.9	95,675	5,561	5.5	59,690	32,337	8,466	3,095	15,792
Husbands <sup>1</sup> .....	40,667	81.3	39,506	1,161	2.9	9,380	144	218	1,277	7,742
With employed wife .....	20,370	91.6	19,869	500	2.5	1,869	40	115	423	1,291
With unemployed wife .....	1,002	92.6	888	114	11.4	80	6	--	20	55
With wife not in labor force .....	17,592	71.8	17,129	463	2.6	6,910	77	84	756	5,992
Wives .....	23,323	48.8	22,239	1,084	4.6	24,502	22,289	310	304	1,599
With employed husband .....	20,759	54.8	19,869	890	4.3	17,128	15,964	261	99	805
With unemployed husband .....	614	57.0	500	114	18.6	463	440	7	9	8
With husband not in labor force .....	1,949	22.0	1,869	80	4.1	6,910	5,885	42	196	786
Relatives in husband-wife families .....	13,742	59.2	12,250	1,492	10.9	9,469	1,309	5,925	397	1,838
16-19 years .....	6,326	53.5	5,477	849	13.4	5,494	157	4,534	20	783
20-24 years .....	4,778	73.2	4,327	451	9.4	1,752	158	1,298	30	266
25 years and over .....	2,638	54.3	2,446	192	7.3	2,223	994	93	347	789
Women who head families .....	4,922	58.9	4,549	373	7.6	3,432	2,748	113	171	400
Relatives in female-headed families .....	3,941	54.9	3,312	629	16.0	3,236	779	1,278	268	909
16-19 years .....	1,303	48.4	978	325	24.9	1,389	102	1,018	6	262
20-24 years .....	1,126	70.2	962	164	14.6	478	120	215	15	126
25 years and over .....	1,512	52.5	1,372	140	9.3	1,369	557	45	247	521
Persons not living in families <sup>2</sup> .....	14,641	60.2	13,819	822	5.6	9,671	5,068	622	678	3,304

<sup>1</sup> Includes a small number of single, separated, widowed, or divorced men who had families.

<sup>2</sup> Individuals living alone or with unrelated persons plus a small number of persons in secondary families.

A-10. Unemployed persons by marital status, sex, age, and race

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
Total, 16 years and over .....	2,998	2,902	5.2	4.9	2,687	2,652	6.5	6.2
Married, spouse present .....	1,165	1,136	2.9	2.8	1,070	1,118	4.7	4.7
Widowed, divorced, or separated .....	274	312	6.2	7.0	535	520	6.9	6.5
Single (never married) .....	1,560	1,454	11.4	10.2	1,082	1,022	10.4	9.3
White, 16 years and over .....	2,310	2,236	4.5	4.3	2,040	1,962	5.7	5.3
Married, spouse present .....	985	927	2.7	2.6	900	925	4.4	4.4
Widowed, divorced, or separated .....	188	219	5.4	6.0	383	382	6.1	5.9
Single (never married) .....	1,138	1,090	9.6	8.8	757	656	8.5	7.1
Black and other, 16 years and over .....	687	666	11.2	10.6	647	697	11.7	12.1
Married, spouse present .....	180	209	5.2	5.8	170	193	7.1	7.8
Widowed, divorced, or separated .....	86	93	9.6	10.9	152	138	9.9	8.8
Single (never married) .....	422	364	23.7	19.9	325	366	20.4	21.3
Total, 20 to 64 years of age .....	2,191	2,105	4.3	4.0	1,998	1,987	5.6	5.3
Married, spouse present .....	1,090	1,063	2.9	2.8	995	1,052	4.5	4.6
Widowed, divorced, or separated .....	257	285	6.2	6.8	490	483	7.0	6.6
Single (never married) .....	844	757	9.2	7.8	513	452	7.7	6.4
White, 20 to 64 years of age .....	1,685	1,609	3.7	3.5	1,508	1,471	4.9	4.6
Married, spouse present .....	920	864	2.7	2.5	837	869	4.2	4.2
Widowed, divorced, or separated .....	177	199	5.4	5.8	347	352	6.2	6.1
Single (never married) .....	588	547	7.5	6.6	324	249	5.9	4.3
Black and other, 20 to 64 years of age .....	505	495	9.2	8.8	489	516	9.8	10.0
Married, spouse present .....	169	200	5.1	5.8	156	185	6.7	7.7
Widowed, divorced, or separated .....	81	86	9.5	10.7	143	131	9.9	8.8
Single (never married) .....	255	210	19.6	15.5	189	201	15.6	15.9

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## A-11. Unemployed persons by occupation of last job and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
Total, 16 years and over	5,685	5,561	5.8	5.5	5.2	4.9	6.5	6.2
White-collar workers	1,553	1,486	3.2	2.9	2.3	2.0	4.1	3.8
Professional and technical	313	293	2.2	1.9	1.9	1.4	2.5	2.5
Managers and administrators, except farm	190	220	1.9	2.1	1.6	1.8	2.6	3.0
Sales workers	253	241	4.1	3.8	2.8	2.5	5.6	5.4
Clerical workers	796	732	4.6	4.0	4.1	3.3	4.7	4.2
Blue-collar workers	2,298	2,363	6.9	7.1	6.2	6.4	9.9	10.1
Craft and kindred workers	608	596	4.8	4.5	4.7	4.6	5.4	3.5
Carpenters and other construction craft	322	326	8.1	8.1	8.1	8.1	(1)	(1)
All other	286	270	3.3	3.0	3.1	3.0	5.1	3.2
Operatives, except transport	951	1,001	8.1	8.6	6.3	6.8	10.7	11.4
Transport equipment operatives	203	224	5.4	5.9	5.3	6.0	6.9	5.6
Nonfarm laborers	536	542	10.5	10.8	10.5	10.9	10.9	10.2
Construction laborers	152	187	15.4	19.6	15.2	19.8	(1)	(1)
All other	384	355	9.3	8.7	9.2	8.5	10.2	10.0
Service workers	960	927	7.0	6.7	7.4	6.1	6.7	7.1
Private household	49	48	3.9	4.6	(1)	(1)	3.7	4.7
All other	911	879	7.3	6.9	7.4	6.1	7.2	7.4
Farm workers	93	96	3.4	3.6	2.7	3.2	6.7	5.8
No previous work experience	782	689	--	--	--	--	--	--
16 to 19 years	575	532	--	--	--	--	--	--
20 to 24 years	129	88	--	--	--	--	--	--
25 years and over	79	69	--	--	--	--	--	--

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

## A-12. Unemployed persons by industry of last job and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
Total, 16 years and over	100.0	100.0	5.8	5.5	5.2	4.9	6.5	6.2
Nonagricultural private wage and salary workers	74.3	75.2	5.9	5.6	5.4	5.1	6.6	6.4
Mining	.8	.9	5.6	6.0	5.3	5.8	7.9	7.3
Construction	9.1	10.1	10.9	11.5	11.0	11.9	9.3	6.2
Manufacturing	21.0	22.2	5.5	5.5	4.2	4.1	8.2	8.4
Durable goods	10.6	11.7	4.7	4.7	4.0	4.2	6.5	6.2
Lumber and wood products	.8	.8	6.9	6.9	6.8	7.3	7.6	3.4
Furniture and fixtures	.5	.9	5.3	8.1	3.1	7.6	9.7	9.0
Stone, clay, and glass products	.7	.6	6.0	5.0	4.7	4.7	11.1	6.2
Primary metal industries	1.0	.9	4.6	4.0	4.8	3.7	3.0	5.6
Fabricated metal products	1.6	1.7	5.9	6.3	5.4	6.1	7.5	7.5
Machinery, except electrical equipment	1.2	1.5	2.7	3.0	2.6	2.2	3.2	6.1
Electrical equipment	1.7	1.7	4.4	3.9	2.7	3.2	6.6	4.8
Transportation equipment	1.6	2.3	4.1	5.3	4.0	5.0	4.7	6.5
Automobiles	.7	1.6	3.4	6.7	2.9	6.8	6.0	6.3
Other transportation equipment	.9	.7	5.0	3.4	5.2	2.8	2.9	6.9
Instruments and related products	.3	.3	2.9	3.1	1.3	2.3	5.1	3.9
Other durable goods industries	1.2	.9	8.6	6.9	7.2	4.8	10.4	9.7
Nondurable goods	10.4	10.5	6.7	6.6	4.6	3.9	9.6	10.6
Food and kindred products	2.9	2.7	8.5	8.3	5.5	4.9	15.2	16.4
Textile mill products	.8	1.1	5.1	8.0	4.5	3.1	5.7	13.1
Apparel and other textile products	2.3	2.7	9.5	10.5	9.1	9.5	9.6	10.7
Paper and allied products	.6	.3	4.5	2.3	4.0	1.8	6.3	4.4
Printing and publishing	1.4	1.1	5.9	4.3	6.3	3.4	5.3	5.7
Chemicals and allied products	.5	.8	2.2	3.3	1.7	2.6	3.7	5.6
Rubber and plastics products	1.0	1.1	7.7	7.6	4.1	3.5	14.0	14.5
Other nondurable goods industries	1.0	.8	8.4	6.6	3.1	4.6	15.8	9.8
Transportation and public utilities	3.5	2.8	3.8	2.8	3.9	2.6	3.6	3.5
Railroads and railway express	.3	.3	2.5	2.4	2.5	2.6	(1)	(1)
Other transportation	2.6	1.9	5.9	4.1	6.1	3.9	5.1	5.1
Communication and other public utilities	.6	.6	1.7	1.4	1.3	.7	2.6	2.6
Wholesale and retail trade	21.8	21.4	6.9	6.4	5.6	5.3	8.4	7.7
Finance, insurance, and real estate	2.8	2.2	3.1	2.3	3.3	2.0	3.0	2.5
Service industries	15.3	15.6	5.4	5.2	5.4	4.7	5.3	5.4
Professional services	6.5	6.9	4.0	3.9	3.5	2.8	4.2	4.4
All other service industries	8.8	8.7	7.1	6.9	7.1	6.5	7.1	7.3
Agricultural wage and salary workers	2.1	2.3	8.2	8.8	6.6	8.1	13.5	11.6
All other classes of workers	9.9	10.1	2.3	2.3	2.1	2.1	2.5	2.5
No previous work experience	13.8	12.4	--	--	--	--	--	--

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



A-13. Unemployed persons by reason for unemployment, sex, age, and race

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands.....	5,685	5,561	2,278	2,185	2,050	2,021	1,357	1,355	4,351	4,198	1,335	1,363
Job losers.....	2,616	2,579	1,478	1,420	860	871	279	288	2,059	1,991	557	588
On layoff.....	631	838	347	477	235	283	48	78	562	689	68	148
Other job losers.....	1,985	1,741	1,131	943	625	588	231	210	1,497	1,302	489	440
Job leavers.....	778	751	319	301	333	305	126	146	659	621	119	131
Reentrants.....	1,509	1,543	397	419	734	735	378	390	1,098	1,112	410	432
New entrants.....	782	688	85	46	123	110	574	532	534	475	248	213
<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.....	46.0	46.4	64.9	65.0	42.0	43.1	20.6	21.3	47.3	47.4	41.7	43.1
On layoff.....	11.1	15.1	15.2	21.8	11.5	14.0	3.6	5.8	12.9	16.4	5.1	10.9
Other job losers.....	34.9	31.3	49.7	43.2	30.5	29.1	17.0	15.5	34.4	31.0	36.6	32.2
Job leavers.....	13.7	13.5	14.0	13.8	16.3	15.1	9.3	10.7	15.1	14.8	8.9	9.6
Reentrants.....	26.5	27.8	17.4	19.2	35.8	36.4	27.9	28.8	25.2	26.5	30.7	31.7
New entrants.....	13.8	12.4	3.7	2.1	6.0	5.5	42.3	39.2	12.3	11.3	18.6	15.6
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	5.8	5.5	4.3	4.0	5.5	5.3	15.5	15.3	5.0	4.7	11.4	11.3
Job loser rate <sup>1</sup> .....	2.0	2.5	2.8	2.6	2.3	2.2	3.2	3.3	2.3	2.3	4.8	4.8
On layoff.....	.8	.7	.6	.6	.9	.8	1.4	2.4	.8	.7	1.0	1.1
Other job losers.....	1.5	1.5	.7	.8	2.0	1.9	4.3	4.4	1.3	1.2	3.5	3.6
Reentrant rate <sup>1</sup> .....	.8	.7	.2	.1	.3	.3	6.6	6.0	.6	.5	2.1	1.8

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

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

[Percent distribution]

Reason, sex, and age	April 1979						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
<b>Total, 16 years and over.....</b>	<b>5,561</b>	<b>100.0</b>	<b>44.9</b>	<b>28.4</b>	<b>26.7</b>	<b>16.1</b>	<b>10.6</b>
Job losers.....	2,579	100.0	38.2	29.5	32.4	20.2	12.2
On layoff.....	838	100.0	52.9	22.9	24.2	20.5	3.7
Other job losers.....	1,741	100.0	31.1	32.6	36.3	20.0	16.3
Job leavers.....	751	100.0	47.2	30.4	22.4	11.9	10.5
Reentrants.....	1,543	100.0	50.6	26.8	22.6	13.1	9.5
New entrants.....	688	100.0	55.2	25.8	19.1	12.1	7.0
<b>Males, 20 years and over.....</b>	<b>2,185</b>	<b>100.0</b>	<b>37.4</b>	<b>28.7</b>	<b>34.0</b>	<b>20.8</b>	<b>13.2</b>
Job losers.....	1,420	100.0	34.8	27.8	37.4	24.2	13.2
On layoff.....	477	100.0	46.4	23.3	30.3	26.3	4.0
Other job losers.....	943	100.0	29.0	30.0	41.0	23.1	17.8
Job leavers.....	301	100.0	41.5	33.9	24.6	11.6	13.0
Reentrants.....	419	100.0	41.2	28.9	30.0	16.4	13.6
New entrants.....	46	100.0	(1)	(1)	(1)	(1)	(1)
<b>Females, 20 years and over.....</b>	<b>2,021</b>	<b>100.0</b>	<b>46.2</b>	<b>28.8</b>	<b>25.0</b>	<b>14.4</b>	<b>10.5</b>
Job losers.....	871	100.0	39.7	31.0	29.3	16.2	13.1
On layoff.....	283	100.0	60.3	21.6	18.1	13.8	4.3
Other job losers.....	588	100.0	29.9	35.5	34.6	17.3	17.3
Job leavers.....	305	100.0	48.2	26.2	25.6	13.1	12.5
Reentrants.....	735	100.0	52.7	27.2	20.1	12.9	7.2
New entrants.....	110	100.0	47.3	30.0	22.7	15.5	7.3
<b>Both sexes, 16 to 19 years.....</b>	<b>1,355</b>	<b>100.0</b>	<b>55.3</b>	<b>27.4</b>	<b>17.4</b>	<b>11.0</b>	<b>6.4</b>
Job losers.....	288	100.0	49.7	33.4	17.4	12.4	4.5
On layoff.....	78	100.0	65.0	25.0	10.0	10.0	--
Other job losers.....	210	100.0	43.8	36.7	19.5	13.3	6.2
Job leavers.....	146	100.0	56.5	31.3	12.2	10.2	2.0
Reentrants.....	390	100.0	56.3	24.4	19.3	10.0	9.3
New entrants.....	532	100.0	57.0	25.4	17.7	11.1	6.6

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

# HOUSEHOLD DATA

## A-15. Unemployed jobseekers by the jobsearch methods used, sex, age, and race

Sex, age, and race	April 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	5,561	4,632	29.2	7.3	69.4	30.7	12.3	7.1	1.56
16 to 19 years .....	1,355	1,261	21.9	5.4	74.1	25.9	11.7	5.6	1.45
20 to 24 years .....	1,212	1,035	30.0	9.1	72.1	33.9	11.6	6.0	1.63
25 to 34 years .....	1,292	1,025	33.2	9.7	66.2	34.0	11.3	6.1	1.61
35 to 44 years .....	657	526	37.5	8.6	65.6	32.5	14.6	9.7	1.68
45 to 54 years .....	580	413	32.4	2.9	65.6	24.5	13.6	8.7	1.48
55 to 64 years .....	352	271	27.3	5.5	64.6	29.9	14.4	14.8	1.56
65 years and over .....	114	101	21.8	4.0	63.4	41.6	12.9	7.9	1.51
<b>Males, 16 years and over</b> .....	2,902	2,322	30.5	7.3	70.7	27.4	14.6	9.3	1.60
16 to 19 years .....	717	659	23.7	5.0	75.7	23.7	14.9	6.2	1.49
20 to 24 years .....	624	512	31.4	7.8	77.7	27.7	12.7	6.4	1.64
25 to 34 years .....	645	465	35.1	9.0	68.6	30.8	14.2	9.5	1.67
35 to 44 years .....	329	260	40.0	11.2	61.2	28.5	16.2	15.0	1.72
45 to 54 years .....	306	199	33.7	7.0	66.8	26.6	16.6	9.5	1.60
55 to 64 years .....	201	152	28.3	5.9	59.2	26.3	17.1	20.4	1.57
65 years and over .....	80	75	21.3	4.0	58.7	38.7	12.0	10.7	1.45
<b>Females, 16 years and over</b> .....	2,659	2,311	27.9	7.3	68.0	33.9	9.9	5.0	1.52
16 to 19 years .....	638	602	19.9	5.8	72.3	28.2	8.1	5.0	1.39
20 to 24 years .....	587	523	28.5	10.3	66.5	39.8	10.5	5.5	1.61
25 to 34 years .....	647	560	31.6	10.2	64.3	36.6	8.9	3.4	1.55
35 to 44 years .....	328	266	35.3	6.0	69.9	36.1	13.2	4.5	1.65
45 to 54 years .....	274	214	31.3	--	64.5	22.9	10.7	7.9	1.37
55 to 64 years .....	151	119	26.1	5.0	71.4	34.5	10.9	7.6	1.55
65 years and over .....	34	26	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White, 16 years and over</b> .....	4,198	3,424	26.2	6.7	71.9	31.2	12.4	7.1	1.56
Males .....	2,236	1,759	28.3	7.2	72.4	27.9	14.2	9.6	1.60
Females .....	1,962	1,664	23.9	6.3	71.5	34.8	10.7	4.5	1.52
<b>Black and other, 16 years and over</b> .....	1,363	1,208	37.8	8.8	62.2	29.1	11.8	7.1	1.57
Males .....	666	562	37.5	7.7	65.5	26.3	16.0	8.2	1.61
Females .....	697	646	38.1	9.8	59.3	31.4	8.0	6.3	1.53

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

waiting to begin a new wage and salary job within 30 days are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or

## A-16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment

Sex and reason	April 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	5,561	4,632	29.2	7.3	69.4	30.7	12.3	7.1	1.56
Job losers .....	2,579	1,720	36.6	7.8	70.3	32.1	14.3	8.0	1.69
Job leavers .....	751	760	30.1	9.6	71.6	34.5	12.1	3.2	1.61
Reentrants .....	1,543	1,463	25.1	5.9	65.3	29.7	10.9	8.5	1.45
New entrants .....	688	688	18.6	6.1	73.7	24.9	10.3	6.4	1.40
<b>Males, 16 years and over</b> .....	2,902	2,322	30.5	7.3	70.7	27.4	14.6	9.3	1.60
Job losers .....	1,605	1,068	35.9	8.0	71.0	27.8	15.7	9.5	1.68
Job leavers .....	365	364	34.1	8.8	73.6	31.9	13.2	3.8	1.65
Reentrants .....	617	576	23.3	6.8	65.8	28.3	13.4	13.5	1.51
New entrants .....	315	315	21.6	4.1	75.2	19.4	14.6	7.3	1.42
<b>Females, 16 years and over</b> .....	2,659	2,311	27.9	7.3	68.0	33.9	9.9	5.0	1.52
Job losers .....	974	653	37.7	7.5	69.1	39.1	11.8	5.5	1.71
Job leavers .....	387	396	26.5	10.4	69.7	36.9	11.1	2.5	1.57
Reentrants .....	927	889	26.2	5.6	64.6	30.5	9.3	5.3	1.42
New entrants .....	373	373	16.1	7.5	72.7	29.5	6.7	5.6	1.38

NOTE: See note, table A-15.

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
Total, 16 years and over .....	5,685	5,561	100.0	100.0	4,392	4,370	100.0	100.0
Less than 6 weeks .....	2,335	2,498	41.1	44.9	1,608	1,846	36.6	42.2
6 to 14 weeks .....	1,565	1,580	27.5	28.4	1,210	1,237	27.6	28.3
5 to 10 weeks .....	1,076	1,098	18.9	19.7	833	854	19.0	19.5
11 to 14 weeks .....	488	483	8.6	8.7	378	384	8.6	8.8
15 weeks and over .....	1,785	1,483	31.4	26.7	1,573	1,286	35.8	29.4
16 to 26 weeks .....	1,052	894	18.5	16.1	915	774	20.8	17.7
27 weeks and over .....	733	588	12.9	10.6	658	512	15.0	11.7
27 to 51 weeks .....	400	310	7.0	5.6	364	268	8.3	6.1
52 weeks and over .....	333	278	5.9	5.0	294	244	6.7	5.6
Average (mean) duration, in weeks .....	13.9	12.4	--	--	15.3	13.4	--	--
Median duration, in weeks .....	7.3	6.4	--	--	8.9	7.2	--	--

A-18. Unemployed persons by duration, sex, age, race, and marital status

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 6 weeks as a percent of unemployed in group		16 weeks and over as a percent of unemployed in group	
	Total	Less than 6 weeks	6 to 14 weeks	15 to 26 weeks	27 weeks and over			Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
	April 1979								Apr. 1978	Apr. 1979	Apr. 1978
Total, 16 years and over .....	5,561	2,498	1,580	894	588	12.4	6.4	41.1	44.9	31.4	26.7
16 to 21 years .....	1,900	1,012	538	229	122	9.5	4.7	48.3	53.3	22.4	18.4
16 to 19 years .....	1,355	749	371	149	87	8.9	4.5	52.7	55.3	18.9	17.4
20 to 24 years .....	1,212	583	335	205	89	11.1	5.6	39.8	48.1	32.3	24.3
25 to 34 years .....	1,292	558	382	215	136	12.3	6.9	40.0	43.2	33.1	27.2
35 to 44 years .....	657	257	174	123	104	14.8	7.5	33.8	39.1	38.3	34.5
45 to 54 years .....	580	229	168	108	76	14.9	8.8	31.9	39.4	41.0	31.6
55 to 64 years .....	352	90	109	76	77	21.5	12.8	35.1	25.6	41.8	43.5
65 years and over .....	114	33	42	20	20	17.7	10.9	32.6	28.8	35.0	34.5
Males, 16 years and over .....	2,902	1,170	845	541	346	13.9	7.7	36.5	40.3	36.3	30.6
16 to 21 years .....	985	490	290	133	72	10.5	5.1	44.3	49.7	24.6	20.8
16 to 19 years .....	717	354	218	88	57	10.2	5.2	49.5	49.3	19.7	20.2
20 to 24 years .....	624	301	167	123	34	11.1	5.5	34.4	48.3	39.2	25.0
25 to 34 years .....	645	245	188	121	91	14.2	8.5	34.2	38.0	37.0	32.8
35 to 44 years .....	329	103	92	69	65	17.5	10.7	30.2	31.3	46.3	40.8
45 to 54 years .....	306	101	98	70	38	15.6	10.2	24.5	32.9	50.8	35.2
55 to 64 years .....	201	43	57	56	46	24.0	15.2	33.2	21.2	44.3	50.4
65 years and over .....	80	24	25	15	16	19.5	9.5	33.0	29.5	42.6	39.4
Females, 16 years and over .....	2,659	1,328	736	353	242	10.9	5.0	46.2	49.9	25.9	22.4
16 to 21 years .....	916	522	247	96	50	8.4	4.4	52.9	57.0	20.0	16.0
16 to 19 years .....	638	395	153	61	30	7.3	4.0	56.4	61.9	18.0	14.2
20 to 24 years .....	587	282	168	82	55	11.2	5.8	45.7	47.9	24.7	23.4
25 to 34 years .....	647	313	194	95	45	10.3	5.4	45.9	48.4	29.1	21.6
35 to 44 years .....	328	154	82	53	39	12.2	5.6	37.6	46.8	30.0	28.2
45 to 64 years .....	274	128	71	38	38	14.1	7.3	39.6	46.7	30.9	27.6
55 to 64 years .....	151	47	52	20	32	18.1	9.5	38.4	31.4	37.4	34.3
65 years and over .....	34	9	17	4	4	13.3	12.2	(1)	(1)	(1)	(1)
White, 16 years and over .....	4,198	1,873	1,240	676	409	12.2	6.4	42.7	44.6	29.8	25.8
Males .....	2,236	881	687	424	243	13.5	7.8	38.6	39.4	34.3	29.9
Females .....	1,962	992	553	252	165	10.6	4.9	47.4	50.6	24.7	21.3
Black and other, 16 years and over .....	1,363	625	341	218	180	13.4	6.2	35.7	45.8	36.5	29.2
Males .....	666	289	158	117	103	15.2	7.4	29.4	43.3	42.9	33.0
Females .....	697	336	183	101	77	11.6	5.5	42.3	48.2	29.8	25.5
Males, 16 years and over:											
Married, spouse present .....	1,136	395	346	247	148	14.5	9.0	31.9	34.8	41.6	34.8
Widowed, divorced, or separated .....	312	106	94	49	63	19.5	9.9	31.1	34.0	43.1	35.9
Single (never married) .....	1,454	669	405	245	135	12.2	6.3	40.9	46.0	31.2	26.1
Females, 16 years and over:											
Married, spouse present .....	1,118	533	327	156	101	10.8	5.6	43.7	47.7	26.2	23.0
Widowed, divorced, or separated .....	520	231	163	77	49	12.2	7.1	41.0	44.3	31.8	24.4
Single (never married) .....	1,022	565	246	119	92	10.3	4.5	51.1	55.3	22.7	20.7

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

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## A-19. Unemployed persons by duration, occupation, and industry of last job

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		16 weeks and over as a percent of unemployed in group	
	Total	Less than 6 weeks	6 to 14 weeks	15 to 26 weeks	27 weeks and over			Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
	April 1979										
<b>OCCUPATION</b>											
White-collar workers .....	1,486	621	446	241	178	13.2	7.4	41.4	41.8	31.2	28.2
Professional and managerial .....	513	175	173	83	84	15.3	9.1	37.8	34.1	39.6	32.4
Sales workers .....	241	94	78	48	20	11.7	8.5	41.8	39.1	29.9	28.3
Clerical workers .....	732	352	195	110	74	12.2	5.6	43.7	48.1	26.4	25.2
Blue-collar workers .....	2,363	1,006	698	413	247	12.6	6.8	34.7	42.6	36.0	27.9
Craft and kindred workers .....	596	240	170	132	54	12.1	7.3	33.7	40.3	40.4	31.2
Operatives, except transport .....	1,001	486	272	140	104	12.1	5.4	34.9	48.5	33.8	24.4
Transport equipment operatives .....	224	84	73	40	26	14.0	8.1	31.7	37.5	36.1	29.7
Nonfarm laborers .....	542	196	183	101	62	13.3	8.4	36.8	36.1	35.1	30.1
Service workers .....	927	434	238	144	111	12.9	5.9	46.4	46.8	27.0	27.6
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	127	68	25	29	4	9.4	4.7	60.8	53.7	23.1	26.5
Construction .....	575	220	157	149	49	12.4	8.8	30.3	38.3	42.3	34.5
Manufacturing .....	1,236	553	349	193	141	13.3	6.3	34.6	44.8	35.7	27.1
Durable goods .....	654	276	184	114	80	14.6	6.8	32.9	42.3	39.2	29.6
Nondurable goods .....	582	277	164	80	61	11.8	5.7	36.3	47.6	32.1	24.2
Transportation and public utilities .....	181	65	65	26	26	14.3	8.5	39.3	35.9	37.9	28.4
Wholesale and retail trade .....	1,198	529	364	203	101	11.2	6.5	44.0	44.2	26.0	25.4
Finance and service industries .....	1,239	561	340	163	175	13.6	6.6	42.6	45.3	32.3	27.3
Public administration .....	152	53	40	30	29	16.9	9.4	34.3	34.8	25.4	38.9
No previous work experience .....	689	381	178	83	48	10.4	4.5	50.2	55.2	24.1	19.0

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

## A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>All industries .....</b>	<b>93,180</b>	<b>95,675</b>	<b>54,674</b>	<b>55,745</b>	<b>38,506</b>	<b>39,930</b>
16 to 19 years .....	7,372	7,499	3,950	3,972	3,423	3,526
16 to 17 years .....	2,953	3,011	1,594	1,639	1,359	1,372
18 to 19 years .....	4,420	4,488	2,356	2,333	2,064	2,155
20 to 24 years .....	13,110	13,684	7,110	7,433	6,000	6,251
25 to 54 years .....	58,510	60,187	34,934	35,621	23,576	24,566
25 to 34 years .....	24,346	25,310	14,496	14,969	9,850	10,341
35 to 44 years .....	17,817	18,615	10,562	10,907	7,255	7,708
45 to 54 years .....	16,347	16,262	9,876	9,744	6,471	6,517
55 to 64 years .....	11,228	11,297	6,847	6,866	4,381	4,431
65 to 69 years .....	7,003	6,975	4,263	4,214	2,740	2,761
70 to 74 years .....	4,225	4,322	2,585	2,652	1,641	1,670
75 years and over .....	2,960	3,008	1,834	1,853	1,126	1,155
<b>Nonagricultural industries .....</b>	<b>90,029</b>	<b>92,601</b>	<b>52,130</b>	<b>53,240</b>	<b>37,899</b>	<b>39,361</b>
16 to 19 years .....	7,047	7,195	3,679	3,704	3,367	3,492
16 to 17 years .....	2,781	2,841	1,451	1,490	1,330	1,351
18 to 19 years .....	4,266	4,354	2,229	2,214	2,037	2,141
20 to 24 years .....	12,732	13,304	6,811	7,120	5,921	6,183
25 to 54 years .....	56,942	58,586	33,724	34,381	23,218	24,204
25 to 34 years .....	23,757	24,691	14,028	14,490	9,729	10,201
35 to 44 years .....	17,349	18,152	10,205	10,557	7,144	7,595
45 to 54 years .....	15,836	15,742	9,491	9,334	6,345	6,408
55 to 64 years .....	10,710	10,802	6,408	6,447	4,302	4,355
65 to 69 years .....	6,710	6,706	4,031	3,995	2,679	2,711
70 to 74 years .....	4,000	4,096	2,377	2,452	1,623	1,644
75 years and over .....	2,598	2,714	1,507	1,587	1,091	1,127
<b>Agriculture .....</b>	<b>3,151</b>	<b>3,074</b>	<b>2,544</b>	<b>2,506</b>	<b>607</b>	<b>569</b>
16 to 19 years .....	326	303	270	269	55	34
16 to 17 years .....	172	170	143	150	29	20
18 to 19 years .....	154	133	127	119	27	14
20 to 24 years .....	378	381	298	313	80	68
25 to 54 years .....	1,568	1,601	1,210	1,239	358	362
25 to 34 years .....	589	619	468	479	121	140
35 to 44 years .....	468	463	357	350	111	113
45 to 54 years .....	511	520	385	410	126	109
55 to 64 years .....	518	495	439	419	79	76
65 to 69 years .....	293	269	232	219	61	50
70 to 74 years .....	225	226	207	200	18	26
75 years and over .....	362	293	327	266	35	28

**A-21. Employed persons by occupation, sex, and age**  
(In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
	<b>TOTAL</b> .....	93,180	95,675	50,725	51,773	35,083	36,403	3,950	3,972	3,423
<b>White-collar workers</b> .....	46,766	49,134	21,826	22,722	22,641	24,009	622	589	1,677	1,815
Professional and technical .....	14,257	15,302	8,013	8,630	6,083	6,514	75	86	87	73
Health workers .....	2,547	2,735	903	923	1,629	1,787	--	9	15	17
Teachers, except college .....	3,208	3,290	950	960	2,233	2,308	2	3	22	19
Other professional and technical .....	8,502	9,277	6,160	6,747	2,221	2,419	73	74	50	37
Managers and administrators, except farm .....	9,987	10,211	7,648	7,700	2,254	2,435	58	38	27	37
Salaried workers .....	8,042	8,494	6,163	6,405	1,800	2,017	51	35	27	37
Self-employed workers in retail trade .....	942	837	630	566	311	271	--	1	--	--
Self-employed workers, except retail trade .....	1,004	880	855	729	143	148	6	3	--	--
Sales workers .....	5,914	6,140	3,008	3,209	2,248	2,309	271	216	387	405
Retail trade .....	3,182	3,215	977	1,072	1,626	1,590	218	171	361	382
Other industries .....	2,732	2,925	2,031	2,137	622	719	54	46	26	23
Clerical workers .....	16,608	17,481	3,158	3,183	12,056	12,750	219	248	1,176	1,300
Stenographers, typists, and secretaries .....	4,696	4,906	63	68	4,281	4,483	--	14	351	341
Other clerical workers .....	11,912	12,575	3,095	3,115	7,775	8,267	219	234	825	959
<b>Blue-collar workers</b> .....	30,996	31,122	23,169	23,292	5,274	5,269	2,157	2,180	396	382
Craft and kindred workers .....	12,093	12,507	10,992	11,311	637	670	415	484	50	42
Carpenters .....	1,187	1,186	1,096	1,124	11	9	75	51	4	2
Construction craft, except carpenters .....	2,467	2,497	2,328	2,355	38	27	99	108	2	6
Mechanics and repairers .....	3,305	3,419	3,102	3,172	49	45	153	201	2	--
Metal craft .....	1,167	1,277	1,104	1,205	33	25	28	43	2	5
Blue-collar worker supervisors, not elsewhere classified .....	1,633	1,661	1,463	1,481	163	164	6	11	1	5
All other .....	2,335	2,469	1,899	1,974	343	401	54	70	39	24
Operatives, except transport .....	10,809	10,587	5,895	5,811	4,009	3,903	642	646	263	227
Durable goods manufacturing .....	4,925	4,993	3,025	3,067	1,582	1,595	213	234	105	97
Nondurable goods manufacturing .....	3,351	3,165	1,330	1,274	1,810	1,716	101	93	110	81
Other industries .....	2,534	2,429	1,540	1,469	618	592	328	319	48	49
Transport equipment operatives .....	3,539	3,550	3,101	3,099	241	265	183	164	14	22
Drivers, motor vehicles .....	3,004	3,014	2,603	2,622	232	243	156	130	12	20
All other .....	535	536	498	477	8	23	27	33	2	2
Nonfarm laborers .....	4,554	4,478	3,181	3,071	387	430	917	886	69	91
Construction .....	831	765	672	621	14	18	144	124	2	2
Manufacturing .....	1,035	1,067	770	787	138	166	113	94	15	20
Other industries .....	2,688	2,646	1,739	1,663	235	246	660	668	53	69
<b>Service workers</b> .....	12,786	12,884	3,805	3,856	6,748	6,746	929	982	1,305	1,300
Private household workers .....	1,210	995	20	11	924	789	10	10	257	185
Service workers, except private household .....	11,576	11,889	3,785	3,845	5,824	5,957	919	972	1,048	1,115
Food service workers .....	4,272	4,421	734	774	2,193	2,221	593	622	753	804
Protective service workers .....	1,329	1,385	1,189	1,254	123	109	17	16	--	6
All other .....	5,975	6,083	1,862	1,817	3,508	3,627	309	334	295	305
<b>Farm workers</b> .....	2,632	2,534	1,924	1,903	420	380	242	222	46	29
Farmers and farm managers .....	1,407	1,386	1,292	1,247	106	121	9	19	--	--
Farm laborers and supervisors .....	1,225	1,148	632	656	313	259	233	203	46	30
Paid workers .....	960	899	602	611	141	123	181	147	36	18
Unpaid family workers .....	265	249	31	45	172	136	52	56	10	12

# HOUSEHOLD DATA

## A-22. Employed persons by occupation, sex, and race

[Percent distribution]

Occupation and race	Total		Males		Females	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>TOTAL</b>						
Total, 16 years and over (thousands)	93,180	95,675	54,674	55,745	38,506	39,930
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.2	51.4	41.1	41.8	63.2	64.7
Professional and technical	15.3	16.0	14.8	15.6	16.0	16.5
Managers and administrators, except farm	10.7	10.7	14.1	13.9	5.9	6.2
Sales workers	6.3	6.4	6.0	6.1	6.8	6.8
Clerical workers	17.8	18.3	6.2	6.2	34.4	35.2
Blue-collar workers	33.3	32.5	46.3	45.7	14.7	14.2
Craft and kindred workers	13.0	13.1	20.9	21.2	1.8	1.8
Operatives, except transport	11.6	11.1	12.0	11.6	11.1	10.3
Transport equipment operatives	3.8	3.7	6.0	5.9	.7	.7
Nonfarm laborers	4.9	4.7	7.5	7.1	1.2	1.3
Service workers	13.7	13.5	8.7	8.7	20.9	20.2
Private household workers	1.3	1.0	.1	(1)	3.1	2.4
Other service workers	12.4	12.4	8.6	8.6	17.8	17.7
Farm workers	2.8	2.6	4.0	3.8	1.2	1.0
Farmers and farm managers	1.5	1.4	2.4	2.3	.3	.3
Farm laborers and supervisors	1.3	1.2	1.6	1.5	.9	.7
<b>White</b>						
Total, 16 years and over (thousands)	82,848	84,997	49,218	50,122	33,630	34,874
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.0	53.0	42.8	43.4	65.6	67.0
Professional and technical	15.8	16.4	15.4	16.1	16.3	16.8
Managers and administrators, except farm	11.5	11.4	15.0	14.7	6.4	6.7
Sales workers	6.8	6.9	6.4	6.6	7.5	7.3
Clerical workers	17.9	18.4	6.0	6.0	35.4	36.1
Blue-collar workers	32.7	32.2	45.3	45.0	14.1	13.7
Craft and kindred workers	13.5	13.6	21.5	21.7	1.8	1.9
Operatives, except transport	11.0	10.6	11.5	11.2	10.4	9.8
Transport equipment operatives	3.6	3.6	5.6	5.6	.7	.7
Nonfarm laborers	4.5	4.3	6.7	6.5	1.2	1.3
Service workers	12.4	12.1	7.9	7.7	19.0	18.3
Private household workers	1.0	.8	(1)	(1)	2.4	1.8
Other service workers	11.4	11.3	7.9	7.7	16.6	16.5
Farm workers	2.9	2.7	4.0	3.9	1.3	1.1
Farmers and farm managers	1.6	1.6	2.5	2.5	.3	.3
Farm laborers and supervisors	1.3	1.1	1.5	1.4	1.0	.7
<b>Black and other</b>						
Total, 16 years and over (thousands)	10,333	10,678	5,457	5,623	4,876	5,055
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.4	38.0	25.7	28.1	46.4	48.9
Professional and technical	11.5	12.7	9.3	11.4	14.0	14.2
Managers and administrators, except farm	4.5	5.0	6.2	6.9	2.6	2.8
Sales workers	2.6	2.7	2.6	2.5	2.6	3.0
Clerical workers	16.8	17.5	7.6	7.4	27.2	28.8
Blue-collar workers	38.1	35.4	55.4	51.8	18.9	17.2
Craft and kindred workers	8.6	9.2	15.1	16.5	1.4	1.1
Operatives, except transport	16.1	14.4	16.4	14.8	15.7	14.0
Transport equipment operatives	5.3	4.4	9.5	7.8	.5	.7
Nonfarm laborers	8.2	7.4	14.3	12.7	1.3	1.5
Service workers	24.1	24.7	15.5	17.1	33.9	33.1
Private household workers	3.6	3.3	.1	.1	7.5	6.8
Other service workers	20.5	21.4	15.3	16.9	26.4	26.3
Farm workers	2.3	2.0	3.5	3.0	.9	.8
Farmers and farm managers	.5	.3	.9	.5	.1	.1
Farm laborers and supervisors	1.8	1.6	2.6	2.5	.8	.8

<sup>1</sup> Less than 0.05 percent.

A-23. Employed persons by class of worker, age, and sex

[In thousands]

Age and sex	April 1979								
	Monocultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	85,722	1,146	15,510	69,066	6,390	488	1,310	1,497	266
16 to 19 years	7,079	238	510	6,332	79	37	207	28	68
16 to 17 years	2,769	170	147	2,452	47	25	112	12	46
18 to 19 years	4,310	67	363	3,880	33	12	95	16	22
20 to 24 years	12,992	79	1,574	11,339	286	25	269	86	27
25 to 34 years	23,161	136	4,539	18,486	1,447	83	314	263	42
35 to 44 years	16,573	145	3,460	12,968	1,448	130	164	257	42
45 to 54 years	14,158	182	3,064	10,912	1,479	106	163	313	44
55 to 64 years	9,642	193	2,029	7,420	1,086	74	114	352	29
65 to 69 years	6,019	84	1,309	4,626	632	55	70	180	19
80 to 84 years	3,623	109	720	2,794	454	18	44	172	10
85 years and over	2,117	174	334	1,608	565	32	80	198	15
Males, 16 years and over	48,620	131	7,717	40,771	4,570	50	1,053	1,351	101
16 to 19 years	3,629	46	233	3,350	51	24	184	29	56
16 to 17 years	1,442	35	85	1,322	30	17	101	12	37
18 to 19 years	2,187	11	148	2,028	20	7	83	17	19
20 to 24 years	6,909	18	654	6,237	205	7	216	79	18
25 to 34 years	13,479	12	2,327	11,140	998	13	242	227	11
35 to 44 years	9,501	9	1,699	7,793	1,057	--	131	213	6
45 to 54 years	8,251	14	1,584	6,654	1,084	--	122	286	2
55 to 64 years	5,663	7	1,041	4,615	780	4	87	330	2
65 to 69 years	3,542	1	668	2,872	451	2	54	165	--
80 to 84 years	2,122	6	373	1,743	328	2	33	165	2
85 years and over	1,188	26	180	982	396	3	71	188	7
Females, 16 years and over	37,102	1,015	7,793	28,294	1,820	438	257	146	165
16 to 19 years	3,450	192	277	2,982	29	13	23	--	12
16 to 17 years	1,327	135	62	1,130	16	8	11	--	9
18 to 19 years	2,123	56	214	1,852	12	5	12	--	3
20 to 24 years	6,083	61	920	5,102	81	19	52	7	9
25 to 34 years	9,682	124	2,212	7,345	449	70	72	36	32
35 to 44 years	7,073	137	1,762	5,175	391	131	33	44	36
45 to 54 years	5,907	168	1,480	4,259	394	107	40	27	42
55 to 64 years	3,979	186	988	2,805	306	70	27	22	27
65 to 69 years	2,478	82	641	1,754	180	53	16	15	19
80 to 84 years	1,502	103	347	1,051	126	16	12	7	7
85 years and over	928	148	154	626	170	29	9	10	8

A-24. Employed persons by industry and occupation

[In thousands]

Industry	April 1979											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:	3,074	67	28	12	82	51	17	42	231	--	12	2,534
Agriculture	831	127	69	5	89	210	251	41	30	--	9	--
Mining	5,933	199	705	27	471	3,263	288	190	765	--	26	--
Construction	21,901	2,449	1,514	518	2,646	4,315	8,158	806	1,067	--	430	--
Manufacturing	13,450	1,668	843	220	1,565	2,880	4,993	376	652	--	253	--
Durable goods	8,451	781	671	298	1,081	1,435	3,165	430	414	--	176	--
Non-durable goods	6,353	581	602	60	1,438	1,352	155	1,485	522	--	159	--
Utilities	19,381	355	3,658	4,051	3,293	1,529	972	735	1,194	--	3,594	--
Wholesale and retail trade	3,590	133	731	836	730	326	189	361	243	--	40	--
Wholesale trade	15,792	221	2,927	3,215	2,563	1,203	783	374	952	--	3,555	--
Retail trade	5,739	295	1,044	1,285	2,638	109	6	18	73	--	271	--
Finance, insurance, and real estate	27,450	10,225	1,917	178	5,047	1,389	710	177	488	995	6,323	--
Services	1,195	8	--	--	16	2	4	6	105	995	59	--
Private households	26,255	10,217	1,917	178	5,031	1,387	706	171	383	--	6,264	--
Other service industries	5,012	1,005	674	4	1,779	290	31	56	108	--	1,066	--
Public administration												

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## A-25. Employed persons with a job but not at work by reason, pay status, and sex

[In thousands]

Reason not working	All Industries		Nonagricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
	Apr. 1978				Apr. 1979		Paid absences <sup>2</sup>	
			Apr. 1978	Apr. 1979			Apr. 1978	Apr. 1979
Total, 16 years and over . . . . .	3,449	5,586	3,377	5,459	1,560	2,755	1,432	2,215
Vacation . . . . .	1,167	3,006	1,158	2,992	867	2,036	215	784
Illness . . . . .	1,313	1,369	1,290	1,330	525	529	663	694
Bad weather . . . . .	100	145	81	105	--	--	--	--
Industrial dispute . . . . .	59	284	58	282	--	--	--	--
All other reasons . . . . .	811	783	789	751	167	190	554	736
Males, 16 years and over . . . . .	1,889	2,905	1,832	2,788	946	1,455	668	1,053
Vacation . . . . .	660	1,376	655	1,365	528	1,029	79	250
Illness . . . . .	734	795	716	762	329	328	332	374
All other reasons <sup>3</sup> . . . . .	494	734	461	662	90	99	257	430
Females, 16 years and over . . . . .	1,561	2,681	1,545	2,671	614	1,298	766	1,163
Vacation . . . . .	507	1,630	503	1,627	340	1,007	136	536
Illness . . . . .	579	573	574	567	197	200	332	320
All other reasons <sup>3</sup> . . . . .	475	478	468	477	78	91	299	307

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

<sup>3</sup> Includes bad weather and industrial dispute, not shown separately.

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

## A-26. Persons at work by type of industry and hours of work

Hours of work	April 1979					
	Thousands of persons			Percent distribution		
	All Industries	Nonagri-cultural industries	Agricul-ture	All Industries	Nonagri-cultural industries	Agricul-ture
Total, 16 years and over . . . . .	90,088	87,141	2,947	100.0	100.0	100.0
1-34 hours . . . . .	30,713	29,890	823	34.1	34.3	27.9
1-4 hours . . . . .	795	745	50	.9	.9	1.7
5-14 hours . . . . .	4,410	4,229	181	4.9	4.9	6.1
15-29 hours . . . . .	12,401	12,027	374	13.8	13.8	12.7
30-34 hours . . . . .	13,107	12,889	218	14.5	14.8	7.4
35 hours and over . . . . .	59,377	57,251	2,124	65.9	65.7	72.1
35-39 hours . . . . .	6,424	6,285	138	7.1	7.2	4.7
40 hours . . . . .	32,204	31,724	480	35.7	36.4	16.3
41 hours and over . . . . .	20,749	19,242	1,506	23.0	22.1	51.1
41 to 48 hours . . . . .	7,722	7,479	243	8.6	8.6	8.2
49 to 59 hours . . . . .	7,136	6,699	436	7.9	7.7	14.8
60 hours and over . . . . .	5,891	5,064	827	6.5	5.8	28.1
Average hours, total at work . . . . .	37.4	37.1	45.3	--	--	--
Average hours, workers on full-time schedules . . . . .	41.4	41.1	51.7	--	--	--



A-27. Persons at work 1 - 34 hours by usual status and reason for working less than 35 hours

(Numbers in thousands)

Reason for working less than 35 hours	April 1979					
	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	30,713	15,745	14,967	29,890	15,416	14,474
Economic reasons	3,155	1,329	1,826	3,023	1,256	1,767
Slack work	1,470	886	584	1,382	831	551
Material shortages or repairs to plant and equipment	146	146	--	143	143	--
New job started during week	208	208	--	196	196	--
Job terminated during week	89	89	--	87	87	--
Could find only part-time work	1,242	--	1,242	1,216	--	1,216
Other reasons	27,557	14,416	13,141	26,868	14,161	12,707
Does not want, or unavailable for, full-time work	11,237	--	11,237	10,882	--	10,882
Vacation	1,233	1,233	--	1,217	1,217	--
Illness	1,509	1,351	158	1,466	1,328	138
Bad weather	656	656	--	523	523	--
Industrial dispute	126	126	--	126	126	--
Legal or religious holiday	9,712	9,712	--	9,677	9,677	--
Full time for this job	1,210	--	1,210	1,174	--	1,174
All other reasons	1,875	1,339	536	1,803	1,290	513
Average hours:						
Economic reasons	21.5	23.5	20.0	21.6	23.6	20.2
Other reasons	23.7	28.5	18.4	23.8	28.6	18.4
Worked 30 to 34 hours:						
Economic reasons	948	542	406	908	510	398
Other reasons	12,159	10,124	2,035	11,981	10,021	1,960

A-28. Nonagricultural workers by industry and full- or part-time status

(Numbers in thousands)

Industry	April 1979								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	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>	87,141	3,023	12,707	71,411	52,169	7,479	11,763	37.1	41.1	
Wage and salary workers	80,684	2,712	11,525	66,447	49,953	6,905	9,589	36.8	40.5	
Construction	4,650	233	244	4,173	3,249	406	518	37.6	39.7	
Manufacturing	20,437	545	714	19,178	15,316	1,875	1,987	38.1	39.2	
Durable goods	12,546	243	326	11,977	9,733	1,077	1,167	38.1	38.8	
Nondurable goods	7,891	302	388	7,201	5,580	799	822	38.1	39.7	
Transportation and public utilities	5,580	148	384	5,048	3,617	545	886	39.4	41.5	
Wholesale and retail trade	16,680	811	4,317	11,552	7,421	1,777	2,354	35.8	42.8	
Finance, insurance, and real estate	5,118	88	534	4,496	3,450	402	644	37.8	40.3	
Service industries	22,645	813	5,059	16,773	12,872	1,402	2,499	34.5	40.3	
Private households	1,078	126	636	316	236	20	60	22.0	43.2	
All other industries	21,567	687	4,423	16,457	12,636	1,382	2,439	35.1	40.2	
Public administration	4,811	53	262	4,496	3,566	415	515	39.3	40.7	
Self-employed workers	5,969	303	988	4,678	2,046	549	2,083	41.5	48.3	
Unpaid family workers	488	8	195	285	168	25	92	36.1	46.2	

<sup>1</sup> Includes mining, not shown separately.

# HOUSEHOLD DATA

## A-29. Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status

(Numbers in thousands)

Sex, age, race, and marital status	April 1979							
	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>								
Both sexes, 16 years and over	87,141	3,023	12,707	71,411	52,169	19,242	37.1	41.1
16 to 21 years	11,725	686	4,611	6,428	5,201	1,227	29.5	39.4
16 to 19 years	6,837	394	3,668	2,775	2,270	505	26.0	39.1
16 to 17 years	2,673	98	2,130	445	373	72	19.8	37.6
18 to 19 years	4,164	296	1,538	2,330	1,897	433	30.0	39.4
20 years and over	80,305	2,629	9,039	68,637	49,901	18,736	38.0	41.1
20 to 24 years	12,773	629	1,774	10,370	8,110	2,260	36.1	40.0
25 years and over	67,532	1,999	7,264	58,269	41,791	16,478	38.4	41.4
25 to 44 years	40,347	1,166	3,597	35,584	25,183	10,401	39.0	41.5
45 to 64 years	24,724	715	2,433	21,576	15,809	5,767	38.5	41.1
65 years and over	2,460	117	1,235	1,108	800	308	28.0	41.6
<b>Males, 16 years and over</b>	<b>50,451</b>	<b>1,319</b>	<b>3,980</b>	<b>45,152</b>	<b>29,928</b>	<b>15,224</b>	<b>40.1</b>	<b>42.5</b>
16 to 21 years	6,104	329	2,175	3,600	2,709	891	31.1	40.3
16 to 19 years	3,547	179	1,776	1,592	1,231	361	27.5	39.8
16 to 17 years	1,415	66	1,068	281	239	42	20.7	37.6
18 to 19 years	2,132	114	709	1,309	990	319	32.1	40.3
20 years and over	46,904	1,140	2,204	43,560	28,696	14,864	41.0	42.6
20 to 24 years	6,838	302	695	5,841	4,218	1,623	38.0	41.2
25 years and over	40,066	839	1,508	37,719	24,477	13,242	41.5	42.8
25 to 44 years	23,857	487	481	22,889	14,523	8,366	42.3	43.1
45 to 64 years	14,757	288	360	14,109	9,462	4,647	41.5	42.4
65 years and over	1,453	63	668	722	494	228	29.3	41.8
<b>Females, 16 years and over</b>	<b>36,690</b>	<b>1,704</b>	<b>8,727</b>	<b>26,259</b>	<b>22,241</b>	<b>4,018</b>	<b>33.0</b>	<b>38.5</b>
16 to 21 years	5,621	356	2,436	2,829	2,493	336	27.8	38.2
16 to 19 years	3,289	215	1,892	1,182	1,038	144	24.4	38.1
16 to 17 years	1,258	33	1,062	163	133	30	18.8	37.6
18 to 19 years	2,031	182	830	1,019	905	114	27.9	38.2
20 years and over	33,401	1,489	6,835	25,077	21,203	3,874	33.8	38.6
20 to 24 years	5,935	328	1,079	4,528	3,892	636	33.9	38.4
25 years and over	27,466	1,160	5,755	20,551	17,313	3,238	33.8	38.6
25 to 44 years	16,492	680	3,116	12,696	10,659	2,037	34.2	38.5
45 to 64 years	9,968	427	2,073	7,468	6,349	1,119	34.0	38.5
65 years and over	1,007	54	567	386	304	82	26.2	41.4
<b>RACE</b>								
<b>White</b>	<b>77,376</b>	<b>2,484</b>	<b>11,583</b>	<b>63,309</b>	<b>45,383</b>	<b>17,926</b>	<b>37.2</b>	<b>41.3</b>
Males	45,370	1,091	3,627	40,652	26,370	14,282	40.3	42.7
Females	32,006	1,392	7,956	22,658	19,014	3,644	32.9	38.6
<b>Black and other</b>	<b>9,765</b>	<b>539</b>	<b>1,124</b>	<b>8,102</b>	<b>6,785</b>	<b>1,317</b>	<b>36.0</b>	<b>39.5</b>
Males	5,081	228	354	4,499	3,556	943	38.1	40.6
Females	4,684	312	770	3,602	3,228	374	33.8	38.3
<b>MARITAL STATUS</b>								
<b>Males, 16 years and over:</b>								
Married, spouse present	35,066	652	1,157	33,257	21,336	11,921	41.8	42.9
Widowed, divorced, or separated	3,776	136	195	3,445	2,307	1,138	40.8	42.7
Single (never married)	11,609	532	2,628	8,449	6,285	2,164	34.7	40.8
<b>Females, 16 years and over:</b>								
Married, spouse present	20,431	869	5,025	14,537	12,532	2,005	32.8	38.2
Widowed, divorced, or separated	6,958	367	963	5,628	4,568	1,060	35.6	39.3
Single (never married)	9,300	468	2,739	6,093	5,141	952	31.4	38.6

## A-30 Persons at work in nonfarm occupations by full- or part-time status and sex

[Numbers in thousands]

Occupational group and sex	April 1979								
	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		
<b>Total, 18 years and over</b> .....	87,657	3,050	12,808	71,799	52,394	7,540	11,865	37.1	33.0
<b>White-collar workers</b> .....	46,180	923	6,598	38,649	27,286	3,825	7,538	37.9	41.6
Professional and technical .....	13,992	214	1,646	12,132	8,712	1,083	2,337	38.2	41.2
Managers and administrators, except farm .....	9,774	108	418	9,248	4,759	1,218	3,271	44.5	45.8
Sales workers .....	5,832	186	1,416	4,230	2,575	536	1,119	36.3	43.0
Clerical workers .....	16,583	425	3,119	13,039	11,240	988	811	34.4	38.4
<b>Blue-collar workers</b> .....	29,362	1,284	2,127	25,951	19,578	2,984	3,389	37.9	40.3
Craft and kindred workers .....	11,844	351	445	11,048	7,979	1,391	1,678	39.7	41.1
Operatives, except transport .....	10,044	527	602	8,915	7,337	839	739	36.9	38.8
Transport equipment operatives .....	3,247	119	280	2,848	1,702	417	729	40.5	43.5
Nonfarm laborers .....	4,226	288	800	3,138	2,558	336	244	33.5	38.8
<b>Service workers</b> .....	12,115	833	4,083	7,199	5,530	731	938	31.9	41.2
Private household .....	934	103	551	280	198	26	56	22.7	43.8
Other service workers .....	11,182	729	3,533	6,920	5,335	705	880	32.7	41.1
<b>Males, 18 years and over</b> .....	50,811	1,336	4,035	45,440	30,090	5,477	9,873	40.1	35.1
<b>White-collar workers</b> .....	22,185	227	1,451	20,507	12,044	2,384	6,079	42.3	44.2
Professional and technical .....	8,194	71	515	7,608	5,014	694	1,900	41.3	43.0
Managers and administrators, except farm .....	7,424	55	189	7,180	3,341	957	2,882	46.0	46.9
Sales workers .....	3,310	40	357	2,913	1,519	440	954	41.4	44.6
Clerical workers .....	3,258	61	390	2,807	2,171	292	344	37.1	40.2
<b>Blue-collar workers</b> .....	24,041	906	1,533	21,602	15,706	2,705	3,191	38.7	40.9
Craft and kindred workers .....	11,176	327	346	10,503	7,556	1,328	1,619	39.9	41.1
Operatives, except transport .....	6,138	237	323	5,578	4,272	660	646	38.3	40.1
Transport equipment operatives .....	3,001	100	175	2,726	1,613	412	701	41.5	43.6
Nonfarm laborers .....	3,726	243	689	2,794	2,263	306	225	33.6	38.8
<b>Service workers</b> .....	4,585	203	1,051	3,331	2,340	388	603	36.3	42.9
Private household .....	19	1	9	9	4	3	2	30.5	46.8
Other service workers .....	4,566	203	1,041	3,322	2,335	385	602	36.3	42.9
<b>Females, 18 years and over</b> .....	36,846	1,713	8,775	26,358	22,302	2,064	1,992	32.9	29.5
<b>White-collar workers</b> .....	23,995	706	5,147	18,142	15,242	1,441	1,459	33.8	38.6
Professional and technical .....	5,798	143	1,131	4,524	3,699	389	436	33.8	38.3
Managers and administrators, except farm .....	2,350	53	229	2,068	1,418	261	389	39.5	42.1
Sales workers .....	2,522	146	1,059	1,317	1,055	96	166	29.5	39.4
Clerical workers .....	13,325	364	2,729	10,232	9,070	695	467	33.7	37.9
<b>Blue-collar workers</b> .....	5,321	378	595	4,348	3,870	279	199	34.4	37.3
Craft and kindred workers .....	668	23	99	546	423	64	59	36.0	39.2
Operatives, except transport .....	3,906	291	279	3,336	3,063	180	93	34.7	36.8
Transport equipment operatives .....	246	19	105	122	90	5	27	29.1	40.8
Nonfarm laborers .....	500	45	112	343	293	30	20	32.4	38.1
<b>Service workers</b> .....	7,530	629	3,033	3,868	3,190	344	334	29.2	39.7
Private household .....	915	103	541	271	193	23	55	22.6	43.7
Other service workers .....	6,615	527	2,492	3,596	2,998	320	278	30.2	39.4

# HOUSEHOLD DATA

## A-31. Employment status of 14-15 year-olds by sex and race

[Numbers in thousands]

Employment status	April 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	7,987	4,064	3,922	6,676	3,406	3,270	1,311	659	652
Civilian labor force .....	1,352	773	579	1,266	721	545	86	52	34
Employed .....	1,149	643	505	1,100	616	484	49	27	21
Agriculture .....	118	104	14	117	104	14	1	--	--
Nonagricultural industries .....	1,031	539	491	983	512	471	48	27	21
Unemployed .....	203	129	74	166	105	61	37	24	13
Unemployment rate .....	15.0	16.7	12.8	13.1	14.6	11.2	43.0	(1)	(1)
Not in labor force .....	6,634	3,291	3,343	5,410	2,685	2,725	1,224	607	618
Keeping house .....	59	4	55	47	4	43	13	1	12
Going to school .....	5,675	2,844	2,831	4,637	2,317	2,320	1,038	527	511
Unable to work .....	8	3	5	5	2	4	3	1	2
All other reasons .....	892	440	452	721	362	359	171	78	93

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

## A-32. Employed 14-15 year-olds by sex, class of worker, and occupation

Characteristics	April 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b> .....	1,149	643	505	100.0	100.0	100.0
Nonagricultural industries .....	1,031	539	491	89.8	84.0	97.2
Wage and salary workers .....	932	466	466	81.2	72.6	92.3
Private household workers .....	319	67	252	27.8	10.4	49.9
Government workers .....	34	20	14	3.0	3.1	2.8
Other wage and salary workers .....	578	378	200	50.3	58.9	39.6
Self-employed workers .....	92	73	19	8.0	11.4	3.8
Unpaid family workers .....	7	--	6	.6	--	1.2
Agriculture .....	118	104	14	10.3	16.2	2.8
Wage and salary workers .....	49	45	4	4.3	7.0	.8
Self-employed workers .....	18	18	--	1.6	2.8	--
Unpaid family workers .....	51	41	10	4.4	6.4	2.0
<b>OCCUPATION</b>						
<b>Total</b> .....	1,149	643	505	100.0	100.0	100.0
White-collar workers .....	339	237	102	29.5	36.8	20.1
Professional and technical .....	15	8	7	1.3	1.2	1.4
Managers and administrators, except farm .....	2	1	1	.2	.2	.2
Sales workers .....	250	206	45	21.7	32.0	8.9
Clerical workers .....	71	22	50	6.2	3.4	9.9
Blue-collar workers .....	218	196	22	19.0	30.4	4.3
Craft and kindred workers .....	15	15	--	1.3	2.3	--
Operatives, except transport .....	40	33	7	3.5	5.1	1.4
Transport equipment operatives .....	5	4	--	.4	.6	--
Nonfarm laborers .....	159	143	15	13.8	22.2	3.0
Service workers .....	489	121	368	42.5	18.8	72.6
Private household workers .....	263	14	249	22.9	2.2	49.1
Other service workers .....	226	108	119	19.7	16.8	23.5
Farm workers .....	103	90	14	9.0	14.0	2.8
Farmers and farm managers .....	4	4	--	.3	.6	--
Farm laborers and supervisors .....	100	86	14	8.7	13.4	2.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Employment status	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	160,504	160,713	160,928	161,148	161,348	161,570	161,829	162,033	162,250	162,448	162,633	162,909	163,008
Armed Forces <sup>1</sup> .....	2,118	2,113	2,098	2,116	2,122	2,123	2,122	2,117	2,108	2,094	2,094	2,090	2,082
Civilian noninstitutional population <sup>1</sup> .....	158,386	158,601	158,830	159,032	159,226	159,447	159,707	159,916	160,142	160,353	160,539	160,819	160,926
Civilian labor force .....	99,767	100,109	100,504	100,622	100,663	100,974	101,077	101,628	101,867	102,183	102,527	102,714	102,111
Percent of civilian population .....	63.0	63.1	63.3	63.3	63.2	63.3	63.3	63.6	63.6	63.7	63.9	63.9	63.5
Employed .....	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174
Percent of total population .....	58.4	58.5	58.8	58.6	58.7	58.8	58.9	59.1	59.1	59.3	59.4	59.4	59.0
Agriculture .....	3,274	3,243	3,424	3,377	3,351	3,406	3,374	3,275	3,387	3,232	3,311	3,343	3,186
Nonagricultural industries .....	90,430	90,710	91,216	91,069	91,372	91,604	91,867	92,476	92,468	93,068	93,335	93,499	92,987
Unemployed .....	6,063	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937
Unemployment rate .....	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8
Not in labor force .....	58,619	58,492	58,326	58,410	58,563	58,473	58,630	58,288	58,275	58,170	58,012	58,105	58,815
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	68,419	68,519	68,623	68,729	68,827	68,937	69,081	69,182	69,288	69,385	69,476	69,612	69,663
Civilian noninstitutional population <sup>1</sup> .....	66,740	66,845	66,947	67,039	67,127	67,236	67,382	67,486	67,600	67,726	67,816	67,939	67,997
Civilian labor force .....	53,276	53,383	53,449	53,401	53,396	53,459	53,593	53,938	54,033	54,333	54,485	54,444	54,243
Percent of civilian population .....	79.8	79.9	79.8	79.7	79.5	79.5	79.5	79.9	80.2	80.3	80.3	80.1	79.8
Employed .....	50,997	51,119	51,337	51,214	51,215	51,287	51,448	51,825	51,838	52,133	52,331	52,264	52,056
Percent of total population .....	74.5	74.6	74.8	74.5	74.4	74.4	74.5	74.9	74.8	75.1	75.3	75.1	74.7
Agriculture .....	2,309	2,324	2,406	2,396	2,357	2,409	2,363	2,337	2,403	2,293	2,324	2,355	2,271
Nonagricultural industries .....	48,688	48,795	48,931	48,818	48,858	48,878	49,085	49,488	49,435	49,841	50,007	49,909	49,785
Unemployed .....	2,279	2,264	2,112	2,187	2,181	2,172	2,145	2,113	2,195	2,200	2,154	2,180	2,187
Unemployment rate .....	4.3	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0
Not in labor force .....	13,464	13,462	13,498	13,638	13,731	13,777	13,789	13,548	13,567	13,393	13,331	13,495	13,754
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	75,300	75,412	75,527	75,643	75,753	75,873	75,998	76,110	76,227	76,337	76,440	76,589	76,645
Civilian noninstitutional population <sup>1</sup> .....	75,198	75,310	75,422	75,537	75,645	75,764	75,889	76,001	76,119	76,228	76,332	76,476	76,532
Civilian labor force .....	37,085	37,208	37,392	37,573	37,543	37,921	37,860	38,095	38,217	38,185	38,429	38,642	38,345
Percent of civilian population .....	49.3	49.4	49.6	49.7	49.6	50.1	49.9	50.1	50.2	50.1	50.3	50.5	50.1
Employed .....	34,874	34,886	35,098	35,160	35,312	35,691	35,726	35,887	35,990	36,019	36,252	36,440	36,165
Percent of total population .....	46.3	46.3	46.5	46.5	46.6	47.0	47.0	47.2	47.2	47.2	47.4	47.6	47.2
Agriculture .....	600	536	608	593	581	597	587	571	591	586	608	613	580
Nonagricultural industries .....	34,274	34,350	34,490	34,567	34,731	35,094	35,139	35,316	35,399	35,433	35,644	35,827	35,584
Unemployed .....	2,211	2,322	2,294	2,413	2,231	2,230	2,134	2,208	2,227	2,166	2,177	2,201	2,180
Unemployment rate .....	6.0	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7
Not in labor force .....	38,113	38,102	38,030	37,964	38,102	37,843	38,029	37,906	37,902	38,043	37,903	37,834	38,187
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,785	16,782	16,779	16,776	16,768	16,760	16,750	16,741	16,734	16,725	16,717	16,709	16,700
Civilian noninstitutional population <sup>1</sup> .....	16,449	16,446	16,461	16,455	16,455	16,446	16,436	16,429	16,422	16,400	16,391	16,404	16,397
Civilian labor force .....	9,406	9,518	9,663	9,648	9,724	9,594	9,624	9,595	9,617	9,665	9,613	9,628	9,523
Percent of civilian population .....	57.2	57.9	58.7	58.6	59.1	58.3	58.6	58.4	58.6	58.9	58.6	58.7	58.1
Employed .....	7,833	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953
Percent of total population .....	46.7	47.4	48.9	48.1	48.9	47.9	48.2	48.0	48.0	48.7	48.2	48.7	47.6
Agriculture .....	365	383	410	388	413	400	424	367	393	354	380	375	335
Nonagricultural industries .....	7,468	7,565	7,795	7,684	7,783	7,632	7,643	7,672	7,634	7,794	7,684	7,763	7,618
Unemployed .....	1,573	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570
Unemployment rate .....	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5
Not in labor force .....	7,043	6,928	6,798	6,807	6,731	6,852	6,812	6,834	6,805	6,735	6,778	6,776	6,874

<sup>1</sup> The population and Armed Forces figures are not adjusted for seasonal variations.

NOTE: Detail for the household data shown in tables A-33 through A-42 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. Full- and part-time status of the civilian labor force, seasonally adjusted**

(Numbers in thousands)

Full- and part-time employment status	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force .....	84,842	84,957	85,965	85,894	86,030	85,899	86,185	86,391	86,631	87,025	87,373	87,567	87,430
Employed .....	80,166	80,175	81,436	81,004	81,389	81,247	81,680	81,900	82,034	82,525	82,789	83,067	82,774
Unemployed .....	4,676	4,782	4,529	4,890	4,641	4,652	4,505	4,491	4,597	4,500	4,584	4,499	4,655
Unemployment rate .....	5.5	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force .....	14,880	15,106	14,506	14,749	14,720	14,952	14,996	15,150	15,205	15,196	15,213	15,097	14,701
Employed .....	13,481	13,717	13,206	13,431	13,436	13,635	13,642	13,800	13,802	13,810	13,907	13,706	13,410
Unemployed .....	1,399	1,389	1,300	1,318	1,284	1,317	1,354	1,350	1,403	1,385	1,306	1,391	1,291
Unemployment rate .....	9.4	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8

NOTE: Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

**A-35. Employment status by race, sex, and age, seasonally adjusted**

(Numbers in thousands)

Characteristics	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force .....	87,902	88,168	88,626	88,503	88,655	88,862	89,067	89,468	89,747	90,093	90,395	90,415	89,923
Employed .....	83,303	83,499	84,171	83,857	84,060	84,250	84,565	85,013	85,125	85,543	85,941	85,938	85,479
Unemployed .....	4,599	4,669	4,455	4,646	4,595	4,612	4,502	4,455	4,622	4,550	4,453	4,478	4,444
Unemployment rate .....	5.2	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9
Males, 20 years and over:													
Civilian labor force .....	47,577	47,668	47,810	47,710	47,707	47,684	47,791	48,103	48,202	48,466	48,639	48,527	48,411
Employed .....	45,837	45,915	46,144	45,992	45,996	45,968	46,098	46,477	46,492	46,737	47,006	46,877	46,755
Unemployed .....	1,740	1,753	1,666	1,718	1,711	1,716	1,693	1,626	1,710	1,729	1,633	1,650	1,657
Unemployment rate .....	3.7	3.7	3.5	3.6	3.6	3.6	3.5	3.4	3.5	3.6	3.4	3.4	3.4
Females, 20 years and over:													
Civilian labor force .....	31,955	32,055	32,214	32,343	32,265	32,602	32,677	32,809	32,981	32,978	33,225	33,302	33,080
Employed .....	30,279	30,303	30,490	30,565	30,574	30,912	31,074	31,161	31,287	31,340	31,567	31,638	31,460
Unemployed .....	1,676	1,752	1,724	1,778	1,691	1,690	1,603	1,648	1,694	1,638	1,658	1,664	1,619
Unemployment rate .....	5.2	5.5	5.4	5.5	5.2	5.2	4.9	5.0	5.1	5.0	5.0	5.0	4.9
Both sexes, 16 to 19 years:													
Civilian labor force .....	8,370	8,445	8,602	8,450	8,683	8,576	8,599	8,556	8,564	8,649	8,531	8,586	8,432
Employed .....	7,187	7,281	7,537	7,300	7,490	7,370	7,393	7,375	7,346	7,466	7,368	7,422	7,264
Unemployed .....	1,183	1,164	1,065	1,150	1,193	1,206	1,206	1,181	1,218	1,183	1,163	1,164	1,168
Unemployment rate .....	14.1	13.8	12.4	13.6	13.7	14.1	14.0	13.8	14.2	13.7	13.6	13.6	13.9
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force .....	11,802	11,906	11,974	12,010	11,994	12,084	12,122	12,163	12,153	12,077	12,228	12,251	12,175
Employed .....	10,391	10,437	10,537	10,533	10,616	10,721	10,749	10,746	10,758	10,725	10,775	10,878	10,734
Unemployed .....	1,411	1,469	1,437	1,477	1,378	1,363	1,373	1,417	1,395	1,352	1,452	1,374	1,442
Unemployment rate .....	12.0	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8
Males, 20 years and over:													
Civilian labor force .....	5,665	5,713	5,721	5,703	5,692	5,759	5,808	5,829	5,867	5,810	5,841	5,874	5,813
Employed .....	5,158	5,208	5,250	5,228	5,195	5,286	5,327	5,345	5,376	5,356	5,339	5,357	5,315
Unemployed .....	507	505	471	475	497	473	481	484	491	455	502	517	498
Unemployment rate .....	8.9	8.8	8.2	8.3	8.7	8.2	8.3	8.3	8.4	7.8	8.6	8.8	8.6
Females, 20 years and over:													
Civilian labor force .....	5,114	5,142	5,191	5,172	5,266	5,287	5,277	5,266	5,224	5,223	5,279	5,316	5,276
Employed .....	4,572	4,580	4,615	4,580	4,722	4,759	4,743	4,723	4,691	4,667	4,722	4,793	4,708
Unemployed .....	542	562	576	592	544	528	534	543	533	556	557	523	568
Unemployment rate .....	10.6	10.9	11.1	11.4	10.3	10.0	10.1	10.3	10.2	10.6	10.6	9.8	10.8
Both sexes, 16 to 19 years:													
Civilian labor force .....	1,023	1,051	1,062	1,135	1,036	1,038	1,037	1,068	1,062	1,044	1,107	1,061	1,086
Employed .....	661	649	672	725	699	676	679	678	691	703	714	727	711
Unemployed .....	362	402	390	410	337	362	358	390	371	341	393	334	375
Unemployment rate .....	35.4	38.2	36.7	36.1	32.5	34.9	34.5	36.5	34.9	32.7	35.5	31.5	34.5

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-36. Major unemployment indicators, seasonally adjusted**

(Unemployment rates)

Selected categories	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8
Males, 20 years and over .....	4.3	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0
Females, 20 years and over .....	6.0	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7
Both sexes, 18-19 years .....	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5
White .....	5.2	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9
Black and other .....	12.0	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8
Married men, spouse present .....	2.8	2.9	2.7	2.7	2.8	2.6	2.6	2.4	2.5	2.6	2.6	2.6	2.7
Married women, spouse present .....	5.1	6.0	5.6	5.5	5.6	5.5	5.3	5.5	5.6	5.3	5.1	5.1	5.2
Women who head families .....	10.1	9.3	8.8	9.8	8.0	8.0	7.5	7.7	7.7	7.8	8.3	8.3	8.4
Full-time workers .....	5.5	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3
Part-time workers .....	9.4	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8
Unemployed 15 weeks and over <sup>1</sup> .....	1.5	1.4	1.3	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.2
Labor force time lost <sup>2</sup> .....	6.5	6.6	6.5	6.8	6.5	6.4	6.2	6.2	6.2	6.2	6.2	6.1	6.5
<b>OCCUPATION</b>													
White-collar workers .....	3.6	3.7	3.6	3.7	3.5	3.5	3.3	3.2	3.5	3.3	3.4	3.4	3.3
Professional and technical .....	2.5	2.5	2.5	2.5	2.6	2.6	2.8	2.4	3.0	2.5	2.3	2.1	2.2
Managers and administrators, except farm .....	2.0	2.1	1.9	2.2	1.9	2.2	1.8	2.2	1.9	2.0	1.9	2.2	2.3
Sales workers .....	4.3	4.5	4.4	4.3	4.1	4.3	4.1	3.1	3.6	3.8	4.3	4.1	4.0
Clerical workers .....	5.1	5.3	5.1	5.3	4.9	4.7	4.2	4.5	4.6	4.6	4.7	4.9	4.5
Blue-collar workers .....	6.7	6.7	6.6	6.7	6.9	6.8	6.8	6.4	6.8	6.4	6.4	6.6	6.9
Craft and kindred workers .....	4.4	4.4	4.3	4.0	4.5	4.7	4.9	4.0	4.7	4.5	4.7	4.6	4.2
Operatives, except transport .....	8.0	8.4	8.1	8.2	8.8	8.1	7.6	7.5	7.7	7.6	7.6	7.7	8.6
Transport equipment operatives .....	5.5	5.6	4.9	5.7	5.6	5.2	4.8	4.2	5.3	4.9	5.0	5.2	6.0
Nonfarm laborers .....	10.3	8.8	10.2	10.6	9.7	10.5	11.0	11.6	11.0	9.4	9.3	10.3	10.5
Service workers .....	7.7	7.6	7.2	7.4	7.1	7.4	7.1	7.4	7.7	7.9	7.1	7.2	7.4
Farm workers .....	3.2	3.6	3.2	3.9	3.6	3.9	4.6	3.2	3.4	2.8	3.6	3.2	3.4
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	5.9	6.0	5.7	6.0	5.8	5.8	5.6	5.6	5.8	5.7	5.6	5.5	5.7
Construction .....	9.8	9.6	9.5	9.6	9.4	10.6	11.2	10.8	12.1	10.6	11.5	10.2	10.3
Manufacturing .....	5.4	5.7	5.6	5.5	5.6	5.3	5.1	5.1	5.0	5.0	4.8	5.2	5.4
Durable goods .....	4.5	5.1	4.9	5.0	5.4	4.8	4.6	4.6	4.4	4.4	4.1	4.3	4.6
Nondurable goods .....	6.5	6.5	6.6	6.3	5.8	6.1	6.0	5.8	6.0	5.9	5.8	6.4	6.5
Transportation .....	3.8	3.9	3.9	4.1	3.8	3.6	3.4	3.3	3.3	3.5	3.0	4.0	2.9
Wholesale and retail trade .....	7.1	6.9	6.4	6.8	6.5	6.7	6.7	6.5	6.8	6.5	6.6	6.2	6.6
Finance and service industries .....	5.2	5.2	4.8	5.4	5.2	5.1	4.6	5.0	5.1	5.1	4.8	4.7	4.8
Government workers .....	3.9	4.0	4.0	4.1	3.6	3.9	3.9	3.9	4.0	4.0	3.7	4.1	3.6
Agricultural wage and salary workers .....	7.9	7.9	8.4	9.6	8.7	8.7	9.5	7.9	7.7	7.2	8.9	7.7	8.6

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

as a percent of potentially available labor force hours.

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

<sup>3</sup> Includes mining, not shown separately.

**A-37. Unemployed persons by duration of unemployment, seasonally adjusted**

(Numbers in thousands)

Weeks of unemployment	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks .....	2,747	2,862	2,772	2,967	2,795	2,783	2,719	2,833	2,876	2,713	2,743	2,751	2,939
5 to 14 weeks .....	1,856	1,842	1,908	1,873	1,895	1,861	1,789	1,774	1,979	1,877	1,870	1,857	1,874
15 weeks and over .....	1,486	1,404	1,266	1,314	1,234	1,268	1,317	1,196	1,208	1,251	1,260	1,305	1,235
15 to 26 weeks .....	809	723	674	668	625	663	732	685	726	728	712	729	692
27 weeks and over .....	677	681	592	646	609	605	585	511	482	523	548	576	543
Average (mean) duration, in weeks .....	12.4	12.2	12.0	11.8	11.4	11.5	11.8	11.0	10.7	11.2	11.3	11.7	11.0
Median duration, in weeks .....	5.9	5.3	6.0	6.0	6.0	5.9	5.9	5.4	5.6	5.9	6.3	5.8	5.2
<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 .....	45.1	46.9	46.6	48.2	47.2	47.1	46.7	48.8	47.4	46.4	46.7	46.5	48.6
5 to 14 weeks .....	30.5	30.2	32.1	30.4	32.0	31.5	30.7	30.6	32.6	32.1	31.8	31.4	31.0
15 weeks and over .....	24.4	23.0	21.3	21.4	20.8	21.4	22.6	20.6	19.9	21.4	21.4	22.1	20.4
15 to 26 weeks .....	13.3	11.8	11.3	10.9	10.6	11.2	12.6	11.8	12.0	12.5	12.1	12.3	11.4
27 weeks and over .....	11.1	11.1	10.0	10.5	10.3	10.2	10.0	8.8	7.9	9.0	9.3	9.7	9.0

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-38. Rates of unemployment by sex and age, seasonally adjusted**

Sex and age	1978										1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Total, 16 years and over.....</b>	6.1	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	
16 to 19 years .....	16.7	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	
16 to 17 years .....	19.6	19.1	17.1	20.0	18.6	19.2	19.2	19.3	20.2	18.4	18.4	18.9	19.1	
18 to 19 years .....	14.4	14.6	13.4	13.9	13.5	14.0	14.0	14.0	13.8	13.6	14.6	13.1	14.3	
20 to 24 years .....	10.0	9.1	9.4	9.9	9.0	9.3	8.6	9.0	9.3	8.6	8.6	8.8	8.5	
25 years and over .....	4.0	4.2	3.9	4.1	4.1	4.0	3.9	3.8	3.9	3.9	3.9	3.9	4.0	
25 to 54 years .....	4.2	4.5	4.1	4.3	4.3	4.1	4.2	4.0	4.2	4.2	4.1	4.1	4.2	
55 years and over .....	3.2	3.3	3.2	3.2	3.0	3.3	3.0	2.9	2.9	2.9	3.0	3.1	3.1	
<b>Males, 16 years and over.....</b>	5.3	5.2	4.8	5.1	5.0	5.1	5.1	5.0	5.1	5.1	5.0	5.0	5.1	
16 to 19 years .....	16.3	15.3	13.7	15.4	14.8	15.5	16.1	15.9	16.7	16.1	16.5	16.0	16.2	
16 to 17 years .....	19.5	18.4	16.8	18.6	17.7	19.1	19.9	20.1	20.7	19.1	19.2	19.9	18.0	
18 to 19 years .....	13.4	13.1	12.0	13.0	12.5	12.6	13.2	12.7	13.6	13.5	14.7	13.2	14.2	
20 to 24 years .....	9.3	8.0	8.4	8.9	8.8	8.6	8.5	8.5	8.9	8.4	8.2	8.4	7.8	
25 years and over .....	3.4	3.5	3.1	3.3	3.3	3.3	3.3	3.1	3.2	3.2	3.2	3.2	3.3	
25 to 54 years .....	3.4	3.5	3.2	3.3	3.5	3.4	3.4	3.2	3.4	3.3	3.2	3.3	3.4	
55 years and over .....	3.3	3.3	3.1	3.4	2.9	3.0	2.8	2.5	2.6	2.8	2.8	2.8	3.0	
<b>Females, 16 years and over.....</b>	7.2	7.5	7.3	7.6	7.1	7.1	6.8	6.9	6.9	6.7	6.7	6.7	6.9	
16 to 19 years .....	17.2	17.8	16.6	17.4	16.8	17.1	16.3	16.5	16.3	15.3	15.7	14.8	16.8	
16 to 17 years .....	19.7	20.0	17.6	21.6	19.7	19.4	18.4	18.3	19.6	17.5	17.4	17.8	20.2	
18 to 19 years .....	15.5	16.2	15.0	14.8	14.6	15.6	14.8	15.5	14.1	13.6	14.4	13.0	14.4	
20 to 24 years .....	10.8	10.5	10.5	11.0	9.2	10.1	8.7	9.6	9.7	8.9	9.1	9.4	9.4	
25 years and over .....	4.9	5.4	5.1	5.4	5.2	4.9	4.9	4.9	5.0	5.0	4.9	4.8	4.9	
25 to 54 years .....	5.3	5.9	5.6	5.8	5.6	5.2	5.2	5.2	5.3	5.4	5.3	5.2	5.2	
55 years and over .....	3.1	3.2	3.2	2.9	3.2	3.8	3.3	3.5	3.3	3.1	3.3	3.6	3.1	

**A-39. Unemployed persons by reason for unemployment, seasonally adjusted**

[Numbers in thousands]

Reason for unemployment	1978										1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>NUMBER OF UNEMPLOYED</b>														
<b>Both sexes, 16 years and over:</b>														
Job losers .....	2,556	2,614	2,379	2,536	2,459	2,362	2,456	2,372	2,442	2,454	2,481	2,440	2,521	
On layoff .....	637	701	636	696	700	683	644	746	715	753	792	789	846	
Other job losers .....	1,919	1,913	1,743	1,840	1,759	1,679	1,812	1,626	1,727	1,701	1,689	1,652	1,675	
Job leavers .....	877	828	853	855	840	849	812	825	871	927	829	863	847	
Reentrants .....	1,750	1,793	1,785	1,870	1,743	1,930	1,721	1,754	1,937	1,692	1,756	1,788	1,790	
New entrants .....	905	892	816	871	875	816	825	872	826	823	874	822	811	
<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 .....	42.0	42.7	40.8	41.4	41.6	39.7	42.2	40.7	40.2	41.6	41.8	41.3	42.2	
On layoff .....	10.5	11.4	10.9	11.4	11.8	11.5	11.1	12.8	11.8	12.8	13.3	13.3	14.2	
Other job losers .....	31.5	31.2	29.9	30.0	29.7	28.2	31.2	27.9	28.4	28.9	28.4	27.9	28.1	
Job leavers .....	14.4	13.5	14.6	13.9	14.2	14.3	14.0	14.2	14.3	15.7	14.0	14.6	14.2	
Reentrants .....	28.7	29.3	30.6	30.5	29.5	32.4	29.6	30.1	31.9	28.7	29.6	30.2	30.0	
New entrants .....	14.9	14.6	14.0	14.2	14.8	13.7	14.2	15.0	13.6	14.0	14.7	13.9	13.6	
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>														
Job losers .....	2.6	2.6	2.4	2.5	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.5	
Job leavers .....	.9	.8	.8	.8	.8	.8	.8	.8	.9	.9	.8	.8	.8	
Reentrants .....	1.8	1.8	1.8	1.9	1.7	1.9	1.7	1.7	1.9	1.7	1.7	1.7	1.8	
New entrants .....	.9	.9	.8	.9	.9	.8	.8	.9	.8	.8	.9	.8	.8	



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-40. Employed persons by sex and age, seasonally adjusted**

[In thousands]

Sex and age	1978										1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Total, 16 years and over</b> .....	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	
16 to 19 years .....	7,833	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	
16 to 17 years .....	3,222	3,282	3,365	3,287	3,370	3,293	3,308	3,276	3,300	3,354	3,372	3,323	3,280	
18 to 19 years .....	4,643	4,665	4,789	4,736	4,814	4,749	4,773	4,763	4,730	4,835	4,731	4,803	4,711	
20 to 24 years .....	13,385	13,432	13,532	13,483	13,626	13,666	13,773	13,701	13,760	13,859	13,992	13,959	13,975	
25 years and over .....	72,497	72,557	72,879	72,922	72,761	73,332	73,530	73,976	74,070	74,299	74,641	74,703	74,284	
25 to 54 years .....	58,395	58,378	58,645	58,789	58,750	59,191	59,329	59,630	59,781	59,903	60,193	60,329	60,069	
55 years and over .....	14,107	14,107	14,239	14,148	14,114	14,124	14,137	14,340	14,327	14,394	14,452	14,382	14,220	
<b>Males, 16 years and over</b> .....	55,184	55,372	55,766	55,531	55,580	55,594	55,754	56,096	56,072	56,449	56,549	56,559	56,267	
16 to 19 years .....	4,187	4,253	4,429	4,317	4,365	4,307	4,306	4,271	4,234	4,316	4,218	4,295	4,211	
16 to 17 years .....	1,738	1,778	1,831	1,766	1,810	1,775	1,751	1,734	1,744	1,795	1,779	1,788	1,783	
18 to 19 years .....	2,481	2,455	2,558	2,520	2,562	2,549	2,558	2,559	2,494	2,541	2,455	2,519	2,458	
20 to 24 years .....	7,306	7,348	7,371	7,304	7,378	7,378	7,432	7,478	7,443	7,541	7,585	7,516	7,641	
25 years and over .....	43,699	43,772	43,934	43,894	43,807	43,950	44,026	44,340	44,411	44,589	44,772	44,711	44,442	
25 to 54 years .....	35,019	35,046	35,121	35,183	35,087	35,237	35,261	35,481	35,560	35,709	35,845	35,880	35,716	
55 years and over .....	8,676	8,702	8,801	8,721	8,719	8,711	8,760	8,867	8,872	8,896	8,901	8,841	8,713	
<b>Females, 16 years and over</b> .....	38,520	38,581	38,874	38,915	39,143	39,416	39,487	39,655	39,783	39,851	40,098	40,283	39,907	
16 to 19 years .....	3,646	3,695	3,776	3,755	3,831	3,725	3,761	3,768	3,793	3,832	3,846	3,843	3,742	
16 to 17 years .....	1,484	1,504	1,534	1,521	1,560	1,518	1,557	1,542	1,556	1,559	1,593	1,535	1,497	
18 to 19 years .....	2,162	2,210	2,231	2,216	2,252	2,200	2,215	2,224	2,236	2,294	2,276	2,284	2,253	
20 to 24 years .....	6,079	6,084	6,161	6,179	6,248	6,288	6,341	6,223	6,317	6,318	6,407	6,444	6,334	
25 years and over .....	28,798	28,785	28,945	29,028	28,954	29,382	29,504	29,636	29,659	29,710	29,869	29,993	29,841	
25 to 54 years .....	23,376	23,332	23,524	23,606	23,663	23,954	24,068	24,149	24,221	24,194	24,348	24,449	24,353	
55 years and over .....	5,431	5,405	5,438	5,427	5,395	5,413	5,377	5,473	5,455	5,498	5,551	5,541	5,507	

**A-41. Unemployed persons by sex and age, seasonally adjusted**

[In thousands]

Sex and age	1978										1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Total, 16 years and over</b> .....	6,063	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	
16 to 19 years .....	1,573	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	
16 to 17 years .....	785	777	696	824	772	783	786	781	834	755	758	775	772	
18 to 19 years .....	779	796	742	763	751	773	775	778	759	758	807	724	788	
20 to 24 years .....	1,482	1,351	1,399	1,479	1,343	1,399	1,298	1,361	1,406	1,310	1,316	1,355	1,305	
25 years and over .....	3,016	3,215	2,991	3,152	3,088	3,025	3,015	2,951	3,015	3,049	2,998	3,008	3,063	
25 to 54 years .....	2,536	2,740	2,538	2,648	2,660	2,553	2,569	2,514	2,615	2,607	2,566	2,574	2,602	
55 years and over .....	470	474	464	465	436	478	438	428	424	435	449	462	448	
<b>Males, 16 years and over</b> .....	3,096	3,032	2,816	2,971	2,937	2,965	2,971	2,923	3,044	3,026	2,989	3,001	3,001	
16 to 19 years .....	817	768	704	784	756	793	826	810	849	826	835	821	814	
16 to 17 years .....	421	401	369	404	389	418	436	436	455	424	423	443	392	
18 to 19 years .....	383	370	348	378	367	367	390	371	391	397	424	383	408	
20 to 24 years .....	747	640	679	712	708	696	693	699	730	693	674	687	687	
25 years and over .....	1,533	1,575	1,426	1,487	1,506	1,495	1,505	1,413	1,469	1,493	1,459	1,481	1,538	
25 to 54 years .....	1,223	1,286	1,145	1,185	1,256	1,228	1,237	1,188	1,249	1,231	1,202	1,235	1,254	
55 years and over .....	299	296	286	305	257	265	253	230	235	258	257	253	270	
<b>Females, 16 years and over</b> .....	2,967	3,124	3,048	3,205	3,003	2,999	2,865	2,954	2,968	2,857	2,891	2,870	2,936	
16 to 19 years .....	756	802	754	792	772	769	731	746	741	691	714	669	756	
16 to 17 years .....	364	376	327	420	383	365	350	345	379	331	335	332	380	
18 to 19 years .....	396	426	394	385	384	406	385	407	368	361	383	341	380	
20 to 24 years .....	735	711	720	767	635	703	605	662	676	618	642	668	658	
25 years and over .....	1,483	1,640	1,565	1,665	1,582	1,530	1,510	1,538	1,546	1,555	1,539	1,527	1,526	
25 to 54 years .....	1,313	1,454	1,393	1,463	1,404	1,325	1,332	1,326	1,366	1,376	1,364	1,340	1,349	
55 years and over .....	171	178	178	160	179	213	185	198	189	177	192	208	179	

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-42. Employed persons by selected social and economic categories, seasonally adjusted**

[In thousands]

Selected categories	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTICS</b>													
Total, 18 years and over .....	93,704	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174
Married men, spouse present .....	38,575	38,596	38,621	38,635	38,534	38,782	38,806	38,944	39,039	39,202	39,374	39,291	38,917
Married women, spouse present .....	21,713	21,694	21,749	21,837	21,737	22,133	22,194	22,274	22,297	22,410	22,632	22,700	22,355
<b>OCCUPATION</b>													
White-collar workers .....	46,795	46,885	47,225	47,276	47,325	47,550	47,713	47,888	48,040	48,275	49,001	49,133	49,160
Professional and technical .....	14,186	14,356	14,318	14,249	14,246	14,182	14,307	14,297	14,629	14,743	15,034	15,083	15,226
Managers and administrators, except farm .....	10,184	9,972	10,146	10,212	10,180	10,062	9,968	10,030	10,217	10,322	10,414	10,407	10,409
Sales workers .....	5,856	5,903	5,922	5,992	5,892	5,898	5,986	6,192	6,092	6,055	6,141	6,067	6,079
Clerical workers .....	16,569	16,654	16,839	16,823	17,007	17,408	17,452	17,369	17,102	17,154	17,412	17,577	17,446
Blue-collar workers .....	31,452	31,477	31,554	31,282	31,506	31,891	31,986	32,202	31,962	32,491	32,331	32,085	31,582
Craft and kindred workers .....	12,277	12,233	12,429	12,220	12,557	12,628	12,556	12,646	12,610	12,842	12,932	12,808	12,697
Operatives, except transport .....	10,875	10,798	10,924	10,877	10,741	10,981	11,178	11,177	10,887	11,047	10,953	11,060	10,651
Transport equipment operatives .....	3,539	3,508	3,501	3,487	3,429	3,573	3,581	3,640	3,640	3,678	3,618	3,565	3,550
Nonfarm laborers .....	4,761	4,938	4,700	4,698	4,779	4,709	4,671	4,739	4,825	4,924	4,829	4,652	4,684
Service workers .....	12,814	12,838	12,987	12,803	12,866	12,754	12,951	13,009	13,007	12,777	12,770	12,856	12,909
Farm workers .....	2,726	2,708	2,874	2,797	2,794	2,855	2,821	2,739	2,826	2,759	2,742	2,803	2,624
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,406	1,434	1,443	1,386	1,423	1,442	1,423	1,424	1,478	1,365	1,429	1,419	1,362
Self-employed workers .....	1,555	1,577	1,664	1,641	1,611	1,648	1,638	1,563	1,625	1,547	1,550	1,595	1,531
Unpaid family workers .....	295	250	328	340	319	307	323	293	318	293	348	324	282
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	83,622	84,016	84,456	84,064	84,508	84,786	85,363	85,578	85,579	86,169	86,346	86,592	86,195
Government .....	15,324	15,238	15,255	15,184	15,275	15,336	15,387	15,373	15,360	15,217	15,293	15,224	15,356
Private industries .....	68,298	68,778	69,201	68,880	69,233	69,450	69,976	70,205	70,219	70,952	71,053	71,368	70,839
Private households .....	1,395	1,410	1,370	1,371	1,368	1,361	1,315	1,335	1,316	1,245	1,334	1,255	1,160
Other industries .....	66,903	67,368	67,831	67,509	67,865	68,089	68,661	68,870	68,903	69,707	69,719	70,112	69,679
Self-employed workers .....	6,443	6,274	6,216	6,216	6,219	6,224	6,314	6,370	6,515	6,529	6,632	6,585	6,468
Unpaid family workers .....	499	497	466	485	449	470	453	455	460	478	456	443	471
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	85,797	85,401	86,011	86,102	86,350	86,329	86,511	86,653	87,046	87,490	87,592	87,955	86,345
Full-time schedules .....	70,481	70,090	70,723	70,929	71,205	71,085	71,318	71,394	71,787	72,209	72,250	72,623	71,554
Part-time for economic reasons .....	3,310	3,247	3,433	3,316	3,298	3,203	3,164	3,131	3,058	3,159	3,147	3,179	3,312
Usually work full-time .....	1,231	1,211	1,409	1,347	1,350	1,283	1,167	1,279	1,209	1,208	1,205	1,235	1,265
Usually work part-time .....	2,079	2,036	2,024	1,969	1,948	1,920	1,997	1,852	1,849	1,951	1,942	1,944	2,048
Part-time for noneconomic reasons .....	12,006	12,064	11,855	11,857	11,847	12,041	12,029	12,128	12,201	12,122	12,195	12,154	11,479

<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

## A-43. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979	Apr. 1978	Apr. 1979
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,287	8,494	7,815	8,082	7,470	7,739	345	343	4.4	4.2
20 to 24 years .....	800	595	711	553	640	506	71	47	10.0	8.5
25 to 39 years .....	6,792	7,090	6,520	6,843	6,266	6,575	254	268	3.9	3.9
25 to 29 years .....	2,458	2,033	2,320	1,930	2,208	1,812	112	118	4.8	6.1
30 to 34 years .....	3,293	3,580	3,191	3,469	3,082	3,353	109	116	3.4	3.3
35 to 39 years .....	1,041	1,477	1,009	1,444	976	1,410	33	34	3.3	2.4
40 years and over .....	695	809	584	686	564	658	20	28	3.4	4.1
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	13,518	14,388	12,834	13,602	12,297	13,091	537	511	4.2	3.8
25 to 29 years .....	5,962	6,554	5,613	6,174	5,303	5,894	310	280	5.5	4.5
30 to 34 years .....	3,990	4,125	3,812	3,908	3,691	3,783	121	125	3.2	3.2
35 to 39 years .....	3,566	3,709	3,409	3,520	3,303	3,414	106	106	3.1	3.0

<sup>1</sup> Vietnam-era veterans are those who served between August 5, 1964 and May 1975.

<sup>2</sup> Nonveterans are males who have never served in the Armed Forces. Published data are limited to those 25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonagricultural payrolls by industry division, 1919 to date**

Year and month	Goods-producing						Service-producing								
	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government			
							Total	Wholesale trade	Retail trade			Total	Federal	State and local	
1919	27,078	12,828	1,133	1,036	10,659	14,250	3,711	4,514	-	-	1,096	2,253	2,676	-	-
1920	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928	29,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929	31,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933	23,699	8,965	744	824	7,397	14,734	2,752	4,755	-	-	1,280	2,861	3,166	565	2,601
1934	25,940	10,261	883	877	8,501	15,679	2,570	5,281	-	-	1,304	3,045	3,299	652	2,647
1935	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,250	1,525	3,905	4,660	1,340	3,320
1942	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,174
1944	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,213	1,461	4,145	6,043	2,928	3,116
1945	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,085	1,675	4,697	5,595	2,254	3,341
1947	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,484	1,728	5,025	5,474	1,892	3,582
1948	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953	50,202	21,074	866	2,659	17,649	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,609	2,298	6,240	6,914	2,187	4,727
1956	52,369	21,104	822	3,039	17,243	31,265	4,244	10,858	3,018	7,840	2,389	6,497	7,277	2,209	5,069
1957	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977	82,256	24,288	809	3,833	19,647	57,968	4,696	18,492	4,697	13,795	4,452	15,249	15,079	2,727	12,352
1978	85,763	25,381	837	4,212	20,332	60,382	4,859	19,394	4,898	14,496	4,676	15,979	15,476	2,753	12,723
Apr.	85,075	24,973	858	4,014	20,101	60,102	4,808	19,053	4,843	14,210	4,609	15,866	15,766	2,739	13,027
May	85,796	25,262	870	4,183	20,209	60,534	4,842	19,267	4,870	14,397	4,642	15,975	15,808	2,756	13,052
June	86,799	25,839	895	4,462	20,482	60,960	4,920	19,499	4,934	14,565	4,712	16,138	15,691	2,802	12,889
July	85,925	25,712	900	4,572	20,420	60,213	4,856	19,469	4,930	14,539	4,746	16,213	14,929	2,815	12,114
Aug	86,134	25,997	902	4,633	20,462	60,137	4,870	19,519	4,930	14,589	4,754	16,235	14,759	2,793	11,966
Sept.	86,688	26,131	894	4,586	20,651	60,557	4,908	19,634	4,932	14,702	4,724	16,159	15,132	2,744	12,388
Oct.	87,303	26,161	897	4,601	20,663	61,142	4,952	19,701	4,970	14,731	4,732	16,201	15,556	2,746	12,810
Nov.	87,800	26,157	904	4,517	20,736	61,643	4,972	19,771	4,988	14,983	4,760	16,237	15,703	2,746	12,957
Dec.	88,054	25,967	898	4,331	20,738	62,087	4,992	20,388	5,010	15,378	4,775	16,245	15,687	2,733	12,954
1979:															
Jan.	86,295	25,428	892	3,934	20,602	60,867	4,919	19,619	4,985	14,634	4,771	16,058	15,500	2,730	12,770
Feb.	86,487	25,404	897	3,894	20,613	61,083	4,936	19,402	4,985	14,417	4,786	16,241	15,718	2,738	12,980
Mar. P	87,323	25,789	905	4,165	20,719	61,534	4,964	19,552	5,016	14,536	4,813	16,413	15,792	2,740	13,052
Apr. P	88,002	26,041	913	4,371	20,757	61,961	4,918	19,843	5,048	14,795	4,845	16,569	15,786	2,749	13,037

<sup>1</sup> Data include Alaska and Hawaii beginning 1960. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1960 benchmark month. p = preliminary.

# ESTABLISHMENT DATA EMPLOYMENT

## B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>
	<b>TOTAL</b> .....	83,897	85,075	86,487	87,323	88,002	-	-	-	-	-
	<b>PRIVATE SECTOR</b> .....	68,171	69,309	70,769	71,531	72,216	55,716	56,761	57,693	58,386	59,015
	<b>MINING</b> .....	686	858	897	905	913	499	648	675	679	683
	<b>METAL MINING</b> .....	96.5	96.1	98.0	98.8	-	74.8	74.5	74.9	75.6	-
10	Iron ores .....	23.7	24.0	24.7	24.6	-	19.4	19.6	19.8	19.7	-
101	Copper ores .....	36.4	35.5	35.5	36.1	-	27.7	27.2	27.3	27.7	-
102											
	<b>COAL MINING</b> .....	76.5	238.9	244.4	246.5	-	56.3	197.3	204.2	204.7	-
11, 12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	73.3	235.7	241.3	243.5	-	53.5	194.5	201.5	202.0	-
	<b>OIL AND GAS EXTRACTION</b> .....	401.5	403.1	438.5	438.7	-	280.1	281.6	305.3	302.1	-
13	Crude petroleum, natural gas, and natural gas										
131, 2	liquids .....	173.0	173.6	184.8	185.7	-	86.9	86.8	90.5	89.8	-
138	Oil and gas field services .....	228.5	229.5	253.7	253.0	-	193.2	194.8	214.8	212.3	-
	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	111.6	119.6	115.9	121.2	-	87.4	94.9	90.9	96.1	-
14	Crushed and broken stone .....	37.2	41.4	39.5	42.4	-	30.5	34.5	32.6	35.4	-
142	Sand and gravel .....	32.0	35.5	33.1	34.9	-	-	-	-	-	-
144	Chemical and fertilizer minerals .....	23.5	23.3	23.7	23.9	-	-	-	-	-	-
147											
	<b>CONSTRUCTION</b> .....	3,675	4,014	3,894	4,165	4,371	2,822	3,150	3,011	3,273	3,463
	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,052.9	1,147.6	1,096.3	1,167.3	-	790.9	880.9	821.5	888.7	-
15	Residential building construction .....	549.0	605.3	581.9	622.7	-	401.0	454.1	426.0	465.9	-
152	Operative builders .....	76.4	80.6	75.6	78.5	-	49.6	53.4	48.6	49.8	-
153	Nonresidential building construction .....	427.5	461.7	438.8	466.1	-	340.3	373.4	346.9	373.0	-
154											
	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	716.0	827.9	737.7	805.5	-	547.1	657.9	581.7	649.2	-
16	Highway and street construction .....	187.0	247.7	201.3	234.0	-	150.8	209.2	160.0	191.4	-
161	Heavy construction, except highway .....	529.0	580.2	536.4	571.5	-	396.3	448.7	421.7	457.8	-
162											
	<b>SPECIAL TRADE CONTRACTORS</b> .....	1,905.8	2,038.5	2,059.8	2,192.6	-	1,484.3	1,611.6	1,607.5	1,734.6	-
17	Plumbing, heating, air conditioning .....	484.3	497.0	505.1	510.7	-	363.0	376.5	381.0	385.7	-
171	Painting, paper hanging, decorating .....	116.9	129.7	126.5	130.5	-	95.1	107.2	103.1	106.2	-
172	Electrical work .....	335.9	340.0	373.5	376.1	-	256.7	260.6	290.4	292.0	-
173	Masonry, stonework, and plastering .....	313.2	338.9	336.4	384.8	-	267.4	292.0	284.9	332.8	-
174	Carpentering and flooring .....	113.7	119.7	129.9	136.4	-	86.7	92.2	100.3	106.5	-
175	Roofing and sheet metal work .....	134.2	151.9	135.7	162.5	-	107.2	123.9	104.6	130.8	-
176											
	<b>MANUFACTURING</b> .....	19,995	20,101	20,613	20,719	20,757	14,355	14,444	14,793	14,879	14,922
	<b>DURABLE GOODS</b> .....	11,913	12,007	12,482	12,565	12,610	8,544	8,621	8,952	9,016	9,061
24, 25, 32-39	<b>NONDURABLE GOODS</b> .....	8,082	8,094	8,131	8,154	8,147	5,811	5,823	5,841	5,863	5,861
20-23, 28-31	<b>DURABLE GOODS</b>										
	<b>LUMBER AND WOOD PRODUCTS</b> .....	727.5	739.8	735.5	741.7	744.6	623.2	634.3	626.1	631.6	633.7
24	Logging camps and logging contractors .....	82.0	82.2	87.7	84.6	-	65.9	66.2	71.5	68.3	-
241	Sawmills and planing mills .....	232.9	235.8	232.6	235.8	-	208.4	210.9	207.2	210.4	-
242	Sawmills and planing mills, general .....	193.0	195.9	192.3	194.8	-	173.1	175.6	171.9	174.5	-
2421	Hardwood dimension and flooring .....	33.3	33.3	33.8	33.9	-	29.5	29.5	29.6	29.6	-
2428	Millwork, plywood, and structural members .....	209.2	211.2	211.7	212.7	-	177.2	179.0	178.0	178.9	-
243	Millwork .....	76.3	76.8	76.1	76.1	-	62.9	63.4	62.5	62.5	-
2431	Wood kitchen cabinets .....	46.3	46.5	47.7	48.4	-	38.8	38.9	40.0	40.8	-
2434	Hardwood veneer and plywood .....	26.2	26.5	26.3	26.1	-	23.4	23.7	23.5	23.3	-
2435	Softwood veneer and plywood .....	47.0	47.2	47.3	47.2	-	41.6	41.7	41.0	40.7	-
2436	Wooden containers .....	41.9	43.1	43.3	43.9	-	36.9	38.2	38.4	38.9	-
244	Wood buildings and mobile homes .....	78.9	84.0	73.2	77.2	-	65.6	70.0	57.5	61.1	-
245	Mobile homes .....	55.1	57.9	51.4	53.5	-	48.0	50.2	42.3	44.3	-
2451	Miscellaneous wood products .....	82.6	83.5	87.0	87.5	-	69.2	70.0	73.5	74.0	-
249											
	<b>FURNITURE AND FIXTURES</b> .....	486.9	486.2	490.1	486.5	484.1	401.4	400.6	401.9	398.2	395.6
25	Household furniture .....	332.3	331.2	329.0	326.7	-	283.5	282.3	279.8	277.3	-
251	Wood household furniture .....	148.2	147.7	145.9	144.8	-	131.1	130.6	129.1	128.1	-
2511	Upholstered household furniture .....	102.6	102.5	103.4	102.5	-	85.7	85.3	85.5	84.9	-
2512	Metal household furniture .....	33.0	32.4	32.3	32.1	-	26.9	26.5	26.4	26.1	-
2514	Mattresses and bedsprings .....	32.2	32.5	32.1	32.2	-	25.2	25.3	24.9	24.7	-
2515	Office furniture .....	43.8	43.7	45.5	44.8	-	35.5	35.5	36.5	35.7	-
252	Public building and related furniture .....	23.8	24.0	25.0	25.0	-	18.0	18.2	18.8	19.0	-
253	Partitions and fixtures .....	60.6	60.8	64.1	63.8	-	46.0	46.2	48.4	48.1	-
254	Miscellaneous furniture and fixtures .....	26.4	26.5	26.5	26.2	-	18.4	18.4	18.4	18.1	-
259											

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	671.5	689.9	677.0	691.9	701.5	532.5	549.8	532.6	546.3	556.0
321	Flat glass	21.5	21.7	18.3	18.6	-	17.2	17.4	14.3	14.6	-
322	Glass and glassware, pressed or blown	137.0	138.1	134.8	135.6	-	118.1	119.1	115.1	116.0	-
3221	Glass containers	77.7	78.4	75.5	75.9	-	69.0	69.6	66.2	66.7	-
3229	Pressed and blown glass, nec	59.3	59.7	59.3	59.7	-	49.1	49.5	48.9	49.3	-
323	Products of purchased glass	44.8	45.5	48.0	49.1	-	32.9	33.5	35.7	36.9	-
324	Cement, hydraulic	30.6	31.3	31.9	32.1	-	24.1	24.7	25.7	25.7	-
325	Structural clay products	50.5	51.7	50.7	51.3	-	39.7	40.9	39.7	40.1	-
326	Pottery and related products	47.6	46.8	46.6	47.1	-	40.1	39.4	39.3	39.7	-
327	Concrete, gypsum, and plaster products	189.6	203.4	190.6	200.8	-	145.9	159.0	145.5	155.3	-
3271	Concrete block and brick	21.8	23.6	22.2	23.4	-	14.9	16.6	15.4	16.6	-
3272	Concrete products, nec	67.4	70.4	67.2	69.3	-	52.6	55.3	51.0	53.0	-
3273	Ready-mixed concrete	79.7	88.4	80.4	87.1	-	61.7	70.2	62.1	68.6	-
329	Misc. nonmetallic mineral products	138.3	139.1	144.3	145.2	-	105.2	105.8	107.8	108.2	-
3291	Abrasive products	27.8	27.4	29.6	29.9	-	19.4	18.9	20.2	20.3	-
3292	Asbestos products	21.5	21.7	22.9	22.5	-	16.5	16.7	17.8	17.3	-
3296	Mineral wool	31.0	31.4	30.4	30.8	-	-	-	-	-	-
33	<b>PRIMARY METAL INDUSTRIES</b>	1,179.6	1,190.3	1,237.2	1,244.4	1,253.6	924.1	934.1	977.8	982.7	995.0
331	Blast furnace and basic steel products	537.2	546.1	559.2	563.2	-	420.5	428.9	443.5	446.4	-
3312	Blast furnaces and steel mills	454.7	462.1	473.4	476.0	-	357.6	364.7	376.8	379.2	-
3317	Steel pipe and tubes	29.1	29.6	31.1	31.4	-	22.4	22.9	24.6	25.0	-
332	Iron and steel foundries	238.1	235.6	247.2	248.3	-	195.6	193.2	202.7	203.8	-
3321	Gray iron foundries	150.4	150.2	153.9	155.0	-	125.4	125.4	128.5	129.5	-
3322	Malleable iron foundries	22.4	22.4	23.6	23.5	-	18.2	18.1	19.1	19.1	-
3325	Steel foundries, nec	54.7	54.5	57.6	57.6	-	44.0	43.8	46.2	46.2	-
333	Primary nonferrous metals	67.1	66.4	68.5	69.0	-	52.4	52.1	53.2	53.4	-
3334	Primary aluminum	33.0	33.4	34.4	34.6	-	26.9	27.3	27.9	27.9	-
335	Nonferrous rolling and drawing	197.9	203.3	213.3	213.9	-	143.1	148.2	157.5	157.7	-
3351	Copper rolling and drawing	29.1	32.1	33.6	33.7	-	22.2	25.0	26.9	26.7	-
3353	Aluminum sheet, plate, and foil	34.2	35.8	38.0	38.3	-	25.0	26.4	28.8	29.4	-
3357	Nonferrous wire drawing and insulating	80.8	81.3	85.6	85.7	-	59.4	60.3	63.8	63.7	-
336	Nonferrous foundries	94.0	93.6	100.7	101.1	-	78.0	77.6	83.8	84.1	-
3361	Aluminum foundries	52.5	52.0	55.9	55.8	-	44.3	43.9	47.3	47.1	-
34	<b>FABRICATED METAL PRODUCTS</b>	1,624.3	1,634.3	1,692.8	1,696.9	1,703.1	1,232.1	1,242.2	1,284.4	1,286.2	1,290.0
341	Metal cans and shipping containers	77.9	78.8	76.5	77.1	-	65.6	66.4	65.2	65.6	-
3411	Metal cans	64.5	65.3	62.6	63.0	-	54.8	55.5	53.7	54.0	-
342	Cutlery, hand tools, and hardware	186.9	186.6	191.0	189.7	-	146.0	146.2	149.2	148.0	-
3423,5	Hand and edge tools, and hand saws and blades	63.6	63.4	65.2	64.1	-	50.0	50.1	51.7	50.5	-
3429	Hardware, nec	107.4	107.3	109.6	109.5	-	84.1	84.2	85.7	85.8	-
343	Plumbing and heating, except electric	71.4	70.8	70.3	70.0	-	53.2	52.5	51.9	51.7	-
3432	Plumbing fittings and brass goods	26.3	26.5	25.9	25.9	-	21.6	21.8	20.9	21.0	-
3433	Heating equipment, except electric	33.9	33.5	33.0	32.6	-	23.9	23.4	22.7	22.3	-
344	Fabricated structural metal products	484.8	489.3	506.3	508.8	-	342.2	345.8	356.9	358.4	-
3441	Fabricated structural metal	98.6	98.9	104.6	105.2	-	70.5	70.6	76.0	76.1	-
3442	Metal doors, sash, and trim	80.0	81.7	80.8	81.4	-	60.6	61.7	59.5	60.1	-
3443	Fabricated plate work (boiler shops)	144.8	144.7	149.5	150.4	-	95.0	95.0	97.5	98.3	-
3444	Sheet metal work	97.6	99.2	103.3	103.4	-	71.9	73.3	76.3	76.0	-
3446	Architectural metal work	32.0	31.9	33.9	33.9	-	22.8	22.7	24.5	24.5	-
345	Screw machine products, bolts, etc.	105.4	105.5	116.2	116.9	-	83.2	83.4	91.7	92.3	-
3451	Screw machine products	50.7	51.0	56.3	56.7	-	42.2	42.6	46.8	47.1	-
3452	Bolts, nuts, rivets, and washers	54.7	54.5	59.9	60.2	-	41.0	40.8	44.9	45.2	-
346	Metal forgings and stampings	293.8	297.4	303.4	303.1	-	237.4	241.5	245.2	244.2	-
3462	Iron and steel forgings	50.9	51.5	56.6	57.0	-	40.8	41.4	45.2	45.7	-
3465	Automotive stampings	111.6	114.2	114.2	113.2	-	93.7	96.8	96.6	95.3	-
3469	Metal stampings, nec	120.4	120.6	121.0	121.3	-	94.5	94.7	94.3	94.3	-
347	Metal services, nec	95.7	96.1	99.5	99.7	-	79.0	79.4	81.6	81.7	-
3471	Plating and polishing	68.2	68.3	70.7	70.7	-	57.0	57.2	58.6	58.5	-
3479	Metal coating and allied services	27.5	27.8	28.8	29.0	-	22.0	22.2	23.0	23.2	-
348	Ordnance and accessories, nec	57.9	58.1	59.7	59.7	-	40.4	40.5	41.5	41.5	-
3483	Ammunition, exc. for small arms, nec	24.5	24.5	24.6	24.6	-	17.4	17.3	17.2	17.1	-
349	Misc. fabricated metal products	250.5	251.7	269.9	271.9	-	185.1	186.5	201.2	202.8	-
3494	Valves and pipe fittings	98.9	99.2	104.3	105.5	-	67.5	68.1	72.2	72.9	-
3496	Misc. fabricated wire products	49.7	50.1	55.1	55.6	-	38.2	38.6	42.8	43.2	-
36	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,294.0	2,309.0	2,472.3	2,486.0	2,495.6	1,512.9	1,520.1	1,638.6	1,646.6	1,656.6
351	Engines and turbines	130.3	130.5	137.1	137.1	-	83.9	83.9	89.3	89.1	-
3511	Turbines and turbine generator sets	44.1	44.2	43.9	44.2	-	23.3	23.3	22.8	22.8	-
3519	Internal combustion engines, nec	86.2	86.3	93.2	92.9	-	60.6	60.6	66.5	66.3	-
352	Farm and garden machinery	166.0	165.3	175.2	177.9	-	115.3	114.0	125.7	127.4	-
3523	Farm machinery and equipment	147.7	146.8	156.3	158.9	-	102.3	100.8	111.6	113.4	-
353	Construction and related machinery	371.5	375.8	411.4	414.3	-	248.2	251.2	276.5	278.7	-
3531	Construction machinery	166.6	168.4	181.7	182.1	-	114.6	115.5	125.0	125.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3532	Mining machinery.....	31.9	33.1	37.0	37.6	-	19.9	20.9	23.7	24.3	-
3533	Oil field machinery.....	72.4	73.1	81.3	82.0	-	49.9	50.6	57.1	57.4	-
3535	Conveyers and conveying equipment.....	30.5	30.6	34.9	35.0	-	18.0	18.2	20.9	20.9	-
3537	Industrial trucks and tractors.....	37.4	37.7	41.3	41.9	-	26.1	26.3	28.5	29.0	-
354	Metalworking machinery.....	341.3	341.8	359.9	360.5	-	250.1	249.6	263.4	263.5	-
3541	Machine tools, metal cutting types.....	68.2	68.5	74.4	75.2	-	44.5	44.4	48.6	49.0	-
3542	Machine tools, metal forming types.....	23.7	23.9	25.3	25.4	-	15.7	15.9	16.7	16.8	-
3544	Special dies, tools, jigs, and fixtures.....	129.5	128.8	133.8	134.7	-	104.0	103.1	107.5	108.4	-
3545	Machine tool accessories.....	62.5	62.8	67.3	66.7	-	44.5	44.7	47.8	47.0	-
3546	Power driven hand tools.....	34.1	34.3	34.0	33.5	-	25.5	25.5	25.7	25.2	-
355	Special industry machinery.....	196.8	198.1	207.0	208.4	-	123.8	125.0	130.9	130.8	-
3551	Food products machinery.....	45.2	45.4	47.4	47.4	-	28.3	28.4	29.6	29.8	-
3552	Textile machinery.....	31.0	31.1	31.1	31.3	-	21.9	22.0	21.9	22.0	-
3555	Printing trades machinery.....	34.5	35.1	38.7	39.0	-	20.2	20.6	23.2	23.2	-
356	General industrial machinery.....	306.9	308.1	324.3	325.2	-	206.5	207.2	217.7	218.1	-
3561	Pumps and pumping equipment.....	61.7	61.7	62.9	63.1	-	38.6	38.7	38.8	38.9	-
3562	Ball and roller bearings.....	58.1	58.1	61.5	61.7	-	44.9	44.9	48.1	48.4	-
3563	Air and gas compressors.....	28.8	28.9	29.9	29.5	-	17.1	17.0	17.7	17.2	-
3564	Blowers and fans.....	36.6	36.7	39.4	39.5	-	23.4	23.7	24.8	24.8	-
3566	Speed changers, drives, and gears.....	25.3	25.4	27.1	27.4	-	17.5	17.5	18.7	18.9	-
3568	Power transmission equipment, nec.....	22.3	22.4	23.1	23.2	-	16.2	16.2	17.1	17.2	-
357	Office and computing machines.....	339.4	344.1	377.0	379.2	-	155.8	157.6	174.1	175.2	-
3573	Electronic computing equipment.....	264.5	268.4	297.4	299.8	-	110.3	111.8	127.6	128.8	-
358	Refrigeration and service machinery.....	183.5	184.2	194.5	194.9	-	129.7	130.0	138.8	139.0	-
3585	Refrigeration and heating equipment.....	129.6	128.9	136.7	137.1	-	92.5	91.8	98.6	98.9	-
359	Misc. machinery, except electrical.....	258.3	261.1	285.9	288.5	-	199.6	201.6	222.2	224.8	-
3592	Carburetors, pistons, rings, valves.....	37.9	37.7	42.7	43.6	-	30.1	29.8	34.0	34.9	-
3599	Machinery, except electrical, nec.....	220.4	223.4	243.2	244.9	-	169.5	171.8	188.2	189.9	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT.....</b>	<b>1,931.7</b>	<b>1,935.5</b>	<b>2,032.1</b>	<b>2,041.4</b>	<b>2,046.6</b>	<b>1,270.3</b>	<b>1,269.8</b>	<b>1,335.9</b>	<b>1,343.2</b>	<b>1,350.4</b>
361	Electric distributing equipment.....	122.7	121.2	121.8	122.0	-	88.3	86.5	88.1	87.5	-
3612	Transformers.....	56.8	56.4	57.5	57.4	-	40.3	39.8	41.3	41.4	-
3613	Switchgear and switchboard apparatus.....	65.9	64.8	64.3	64.6	-	48.0	46.7	46.8	46.1	-
362	Electrical industrial apparatus.....	237.6	239.6	251.0	252.8	-	171.2	173.1	181.6	183.1	-
3621	Motors and generators.....	129.2	130.5	133.5	133.7	-	97.6	98.9	101.7	102.2	-
3622	Industrial controls.....	64.5	64.9	70.4	71.7	-	42.1	42.4	45.8	46.4	-
363	Household appliances.....	184.2	187.8	176.5	175.7	-	144.8	148.4	138.5	138.0	-
3632	Household refrigerators and freezers.....	48.7	51.5	43.7	43.6	-	38.7	41.4	34.8	34.8	-
3633	Household laundry equipment.....	22.7	23.3	22.2	22.2	-	17.7	18.4	17.4	17.4	-
3634	Electric housewares and fans.....	49.2	49.6	48.2	47.6	-	38.8	39.3	37.8	37.2	-
364	Electric lighting and wiring equipment.....	213.4	209.2	222.9	224.3	-	162.1	157.9	169.7	171.1	-
3641	Electric lamps.....	38.1	37.8	38.8	39.0	-	33.3	33.1	34.4	34.6	-
3643	Current-carrying wiring devices.....	86.7	86.3	93.9	94.1	-	61.3	60.9	66.5	66.6	-
3644	Noncurrent-carrying wiring devices.....	24.9	20.7	23.9	23.9	-	18.6	14.2	17.6	17.6	-
3645	Residential lighting fixtures.....	24.8	24.6	25.8	26.4	-	19.2	19.0	20.0	20.7	-
365	Radio and TV receiving equipment.....	122.8	119.0	117.9	117.2	-	91.0	87.1	86.5	86.7	-
3651	Radio and TV receiving sets.....	95.5	95.5	95.6	94.5	-	69.1	69.1	69.2	68.8	-
366	Communication equipment.....	480.2	482.1	511.9	515.9	-	233.6	234.2	252.7	257.1	-
3661	Telephone and telegraph apparatus.....	152.3	151.6	152.4	155.4	-	104.4	103.5	109.7	108.9	-
3662	Radio and TV communication equipment.....	327.9	330.5	359.5	360.5	-	129.2	130.7	147.0	148.2	-
367	Electronic components and accessories.....	416.2	420.4	469.0	472.2	-	261.0	263.0	297.1	298.0	-
3671-3	Electronic tubes.....	41.7	42.1	43.9	44.1	-	27.4	27.7	28.7	28.6	-
3674	Semiconductors and related devices.....	151.2	154.5	178.8	180.6	-	70.3	71.6	85.9	86.6	-
3679	Electronic components, nec.....	164.0	164.9	178.0	182.6	-	115.5	116.4	130.4	130.5	-
369	Misc. electrical equipment and supplies.....	154.6	156.2	161.1	161.3	-	118.3	119.6	121.7	121.7	-
3691	Storage batteries.....	27.8	27.8	29.8	29.7	-	22.3	22.3	23.8	23.7	-
3694	Engine electrical equipment.....	76.7	77.7	80.0	79.8	-	60.9	61.7	63.0	62.7	-
37	<b>TRANSPORTATION EQUIPMENT.....</b>	<b>1,916.3</b>	<b>1,932.0</b>	<b>2,018.1</b>	<b>2,041.4</b>	<b>2,044.6</b>	<b>1,320.8</b>	<b>1,335.8</b>	<b>1,396.0</b>	<b>1,417.8</b>	<b>1,419.8</b>
371	Motor vehicles and equipment.....	968.5	971.8	985.4	1,002.6	-	754.1	757.9	769.7	786.4	-
3711	Motor vehicles and car bodies.....	456.3	457.0	441.4	455.6	-	341.2	342.3	327.3	341.2	-
3713	Truck and bus bodies.....	49.4	50.4	55.3	54.9	-	39.4	40.1	44.7	44.3	-
3714	Motor vehicle parts and accessories.....	433.8	434.6	455.8	459.1	-	350.7	352.0	371.6	374.7	-
3715	Truck trailers.....	29.0	29.8	32.9	33.0	-	22.8	23.5	26.1	26.2	-
372	Aircraft and parts.....	501.3	504.6	586.6	592.1	-	253.9	256.0	316.8	321.5	-
3721	Aircraft.....	283.8	285.5	341.1	344.5	-	124.9	126.1	168.7	171.3	-
3724	Aircraft engines and engine parts.....	126.8	127.9	141.6	142.6	-	71.9	72.4	81.0	82.3	-
3728	Aircraft equipment, nec.....	90.7	91.2	103.9	105.0	-	57.1	57.5	67.1	67.9	-
373	Ship and boat building and repairing.....	222.2	223.3	207.8	209.1	-	177.9	179.4	165.5	167.1	-
3731	Ship building and repairing.....	174.0	174.2	158.1	159.1	-	138.2	138.8	124.3	125.8	-
3732	Boat building and repairing.....	48.2	49.1	49.7	50.0	-	39.7	40.6	41.2	41.3	-
374	Railroad equipment.....	50.9	56.2	61.9	62.4	-	36.9	42.2	47.7	48.2	-
376	Guided missiles, space vehicles, parts.....	82.3	82.0	86.2	86.5	-	26.8	26.3	28.0	27.7	-
3761	Guided missiles and space vehicles.....	63.0	62.6	65.6	65.6	-	18.3	17.8	19.3	18.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment .....	72.8	75.5	73.6	72.0	—	56.4	59.0	55.4	53.9	—
3792	Travel trailers and campers .....	48.6	50.4	49.3	47.0	—	39.1	41.0	38.9	36.9	—
<b>INSTRUMENTS AND RELATED PRODUCTS .....</b>											
38	Engineering and scientific instruments .....	636.1	641.8	682.9	686.6	690.8	388.3	391.9	421.8	423.1	426.2
381	Measuring and controlling devices .....	67.1	67.7	72.2	72.9	—	32.6	32.7	36.9	37.2	—
382	Environmental controls .....	210.2	212.6	226.1	227.8	—	133.4	134.9	146.0	147.0	—
3822	Process control instruments .....	50.6	50.4	49.3	49.5	—	35.5	35.3	34.2	34.7	—
3823	Instruments to measure electricity .....	46.5	46.4	50.5	50.5	—	24.2	24.1	27.6	27.6	—
3825	Optical instruments and lenses .....	77.9	80.0	88.3	89.8	—	49.1	50.2	57.1	57.6	—
383	Medical instruments and supplies .....	26.9	27.0	29.7	30.1	—	15.3	15.3	16.5	16.7	—
384	Surgical and medical instruments .....	135.4	136.9	150.8	151.1	—	90.8	91.9	101.6	101.2	—
3841	Surgical appliances and supplies .....	53.8	54.5	62.2	62.7	—	35.9	36.3	41.9	41.7	—
3842	Ophthalmic goods .....	64.0	64.7	69.8	69.4	—	43.1	43.7	47.0	46.8	—
385	Photographic equipment and supplies .....	40.4	40.7	41.2	41.2	—	29.7	29.9	30.4	30.3	—
386	Watches, clocks, and watchcases .....	127.6	128.2	134.0	135.0	—	64.5	65.0	68.1	68.7	—
387	Watches, clocks, and watchcases .....	28.5	28.7	28.9	28.5	—	22.0	22.2	22.3	22.0	—
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES .....</b>											
39	Jewelry, silverware, and plated ware .....	444.9	448.5	443.8	448.0	445.9	338.8	342.5	336.6	340.2	338.1
391	Jewelry, precious metal .....	61.5	61.8	59.0	58.6	—	45.4	45.4	43.3	42.6	—
3911	Musical instruments .....	39.5	39.7	36.9	36.5	—	28.5	28.5	26.4	25.8	—
393	Toys and sporting goods .....	24.5	24.9	25.1	25.3	—	20.1	20.4	20.6	20.8	—
394	Dolls, games, toys, and children's vehicles .....	112.8	115.9	106.1	109.5	—	85.8	89.1	80.2	83.4	—
3942, 4	Sporting and athletic goods, nec .....	49.4	52.2	48.3	50.1	—	35.6	38.5	34.7	36.4	—
3949	Pens, pencils, office and art supplies .....	63.4	63.7	57.8	59.4	—	50.2	50.6	45.5	47.0	—
396	Costume jewelry and notions .....	34.4	34.5	35.8	36.1	—	24.6	24.9	25.8	26.0	—
396	Costume jewelry .....	67.2	66.8	68.7	69.7	—	54.0	53.7	55.3	56.2	—
3961	Miscellaneous manufactures .....	37.1	36.7	38.0	38.8	—	30.1	29.8	30.9	31.5	—
399	Signs and advertising displays .....	144.5	144.6	149.1	148.8	—	108.9	109.0	111.4	111.2	—
3993	Signs and advertising displays .....	51.1	51.8	54.4	54.1	—	36.7	37.2	39.2	39.0	—
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS .....</b>											
20	Meat products .....	1,644.0	1,639.5	1,634.2	1,641.9	1,626.0	1,100.4	1,095.5	1,098.5	1,106.8	1,090.3
201	Meat packing plants .....	350.4	348.4	356.8	356.2	—	288.2	286.8	294.8	294.5	—
2011	Sausages and other prepared meats .....	170.3	169.8	170.1	168.5	—	136.9	136.5	137.3	136.2	—
2013	Poultry dressing plants .....	68.1	66.8	67.0	67.0	—	49.7	48.9	49.0	49.0	—
2016	Dairy products .....	97.7	97.3	104.7	105.6	—	88.8	88.4	95.4	96.4	—
202	Cheese, natural and processed .....	188.7	190.0	186.2	186.7	—	98.7	99.6	97.8	97.2	—
2022	Fluid milk .....	31.3	31.3	30.8	31.4	—	24.2	24.2	24.2	24.5	—
2026	Preserved fruits and vegetables .....	122.1	122.0	120.4	120.2	—	53.0	53.1	51.8	51.4	—
203	Canned specialties .....	200.0	193.8	188.6	191.6	—	157.1	151.4	148.6	151.9	—
2032	Canned fruits and vegetables .....	28.8	28.2	27.2	27.9	—	19.7	19.3	18.7	19.3	—
2033	Frozen fruits and vegetables .....	65.4	63.8	60.3	59.0	—	50.1	48.7	46.9	45.8	—
2037	Grain mill products .....	40.1	36.7	35.0	38.4	—	34.7	31.4	29.8	33.3	—
204	Flour and other grain mill products .....	143.8	143.5	144.7	144.4	—	97.3	96.8	98.8	98.9	—
2041	Prepared feeds, nec .....	24.7	24.5	24.8	24.9	—	15.8	15.7	15.6	15.7	—
2048	Bakery products .....	61.2	61.1	62.4	61.8	—	38.2	38.1	40.2	39.7	—
205	Bread, cake, and related products .....	226.7	227.1	225.7	227.3	—	132.0	132.1	131.3	132.8	—
2051	Cookies and crackers .....	187.0	187.0	186.0	186.8	—	100.3	100.4	99.8	100.5	—
2052	Sugar and confectionery products .....	39.7	40.1	39.7	40.5	—	31.7	31.7	31.5	32.3	—
206	Cane and beet sugar .....	103.0	101.8	105.7	104.0	—	77.7	76.8	80.1	78.3	—
2061-3	Confectionery products .....	29.6	29.7	31.3	30.0	—	21.3	21.3	22.2	20.9	—
2065	Fats and oils .....	54.9	53.5	55.1	54.9	—	43.4	42.3	44.2	44.0	—
207	Beverages .....	41.9	41.7	39.8	39.6	—	30.2	29.9	29.0	28.8	—
208	Malt beverages .....	227.3	229.9	222.4	225.5	—	105.0	107.3	102.2	105.2	—
2082	Bottled and canned soft drinks .....	49.0	49.8	47.3	48.8	—	32.8	33.3	31.9	33.7	—
2086	Misc. foods and kindred products .....	135.4	136.0	135.7	137.0	—	47.9	48.9	47.3	47.9	—
209	Misc. foods and kindred products .....	162.2	163.3	164.3	166.6	—	114.2	114.8	115.9	119.2	—
<b>TOBACCO MANUFACTURES .....</b>											
21	Cigarettes .....	70.6	67.3	69.9	67.9	66.3	55.8	52.7	55.4	53.9	52.4
211	Cigarettes .....	48.8	48.5	49.3	48.8	—	37.9	37.6	38.4	38.2	—
<b>TEXTILE MILL PRODUCTS .....</b>											
22	Weaving mills, cotton .....	912.2	909.6	906.7	905.8	899.4	794.7	792.7	789.3	787.7	782.2
221	Weaving mills, synthetics .....	157.6	155.6	154.4	155.1	—	141.9	140.3	139.3	139.9	—
222	Weaving and finishing mills, wool .....	122.6	121.9	121.2	120.6	—	109.5	108.8	108.5	108.0	—
223	Narrow fabric mills .....	20.9	20.9	21.3	21.4	—	17.4	17.5	17.8	17.8	—
224	Knitting mills .....	26.4	26.6	26.1	26.2	—	23.2	23.2	22.9	23.0	—
225	Women's hosiery, except socks .....	237.3	239.1	234.1	235.5	—	205.4	207.1	201.2	202.6	—
2251	Hosiery, nec .....	28.6	28.1	31.3	31.2	—	25.5	25.0	28.0	27.9	—
2262	Knit underwear mills .....	35.3	35.5	35.0	35.3	—	32.1	32.3	31.9	32.2	—
2263	Knit underwear mills .....	74.1	75.9	69.0	69.9	—	62.9	64.8	58.4	59.4	—
2264	Knit underwear mills .....	37.2	37.4	37.9	38.1	—	32.5	32.5	32.7	32.7	—

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2257	Circular knit fabric mills	36.4	36.2	35.5	35.5	—	30.7	30.4	29.1	29.0	—
226	Textile finishing, except wool	80.4	79.8	79.7	79.5	—	68.4	67.7	67.2	66.9	—
2261	Finishing plants, cotton	33.7	33.6	33.5	33.4	—	28.3	28.2	28.1	28.0	—
2262	Finishing plants, synthetics	30.3	30.3	29.9	29.6	—	26.1	26.1	25.4	25.0	—
227	Floor covering mills	60.6	61.0	64.0	63.9	—	48.5	49.3	52.3	52.0	—
228	Yarn and thread mills	135.1	134.6	134.9	133.1	—	123.1	122.8	122.7	120.8	—
2281	Yarn mills, except wool	89.2	88.9	90.7	89.2	—	82.7	82.5	83.7	82.2	—
2282	Throwing and winding mills	22.4	22.3	21.6	21.3	—	19.9	19.9	19.3	19.0	—
229	Miscellaneous textile goods	71.3	70.1	71.0	70.5	—	57.3	56.0	57.4	56.7	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	<b>1,323.0</b>	<b>1,325.7</b>	<b>1,298.9</b>	<b>1,302.4</b>	<b>1,306.2</b>	<b>1,136.3</b>	<b>1,139.8</b>	<b>1,112.4</b>	<b>1,116.1</b>	<b>1,119.8</b>
231	Men's and boys' suits and coats	87.8	88.2	86.6	83.6	—	77.2	77.6	75.8	73.3	—
232	Men's and boys' furnishings	371.8	374.1	365.0	366.5	—	321.6	324.0	314.4	316.1	—
2321	Men's and boys' shirts and nightwear	102.1	103.0	103.6	102.6	—	88.8	89.6	90.0	89.4	—
2327	Men's and boys' separate trousers	87.2	87.8	83.5	84.1	—	75.9	76.6	72.7	73.1	—
2328	Men's and boys' work clothing	96.6	96.7	96.1	96.3	—	82.3	82.5	81.5	81.8	—
233	Women's and misses' outerwear	429.0	427.5	424.0	428.4	—	370.3	369.1	364.3	368.5	—
2331	Women's and misses' blouses and waists	57.6	57.7	59.9	59.9	—	50.5	50.6	52.7	52.6	—
2335	Women's and misses' dresses	162.8	162.7	156.8	159.7	—	143.8	143.1	137.2	140.1	—
2337	Women's and misses' suits and coats	63.7	63.0	62.9	64.6	—	54.3	54.0	53.7	55.5	—
2339	Women's and misses' outerwear, nec.	144.9	144.1	144.4	144.2	—	121.7	121.4	120.7	120.3	—
234	Women's and children's undergarments	96.1	95.1	90.6	90.5	—	82.2	81.6	76.9	77.0	—
2341	Women's and children's underwear	75.5	74.8	72.1	72.3	—	65.7	65.2	62.1	62.4	—
2342	Brassieres and allied garments	20.6	20.3	18.5	18.2	—	16.5	16.4	14.8	14.6	—
236	Children's outerwear	68.5	68.7	67.0	66.8	—	58.2	58.5	57.8	57.7	—
2361	Children's dresses and blouses	26.0	25.9	24.8	24.4	—	23.5	23.3	22.2	21.9	—
238	Misc. apparel and accessories	62.1	62.7	58.0	59.0	—	53.6	54.1	50.0	50.7	—
239	Misc. fabricated textile products	187.8	189.4	187.9	187.9	—	155.9	157.6	156.1	155.9	—
2391	Curtains and draperies	30.2	29.5	29.0	28.9	—	26.4	25.7	25.3	25.1	—
2392	House furnishings, nec.	51.9	51.7	49.5	49.9	—	43.1	43.1	40.9	41.3	—
2396	Automotive and apparel trimmings	35.0	35.6	36.5	37.1	—	29.2	29.8	30.4	30.9	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	<b>695.9</b>	<b>700.0</b>	<b>704.9</b>	<b>708.6</b>	<b>709.3</b>	<b>520.5</b>	<b>524.7</b>	<b>532.0</b>	<b>534.8</b>	<b>535.9</b>
261, 26	Paper and pulp mills	204.6	205.1	201.5	204.0	—	155.5	155.2	150.5	152.7	—
262	Paper mills, except building paper	176.5	177.3	175.7	178.0	—	133.3	133.3	130.3	132.1	—
263	Paperboard mills	66.7	66.7	68.5	68.3	—	52.2	52.5	54.4	54.4	—
264	Misc. converted paper products	212.0	214.3	216.6	217.9	—	149.1	151.7	158.0	158.6	—
2641	Paper coating and glazing	55.4	55.8	58.0	58.3	—	26.8	28.1	35.8	35.1	—
2642	Envelopes	24.4	24.5	24.6	24.6	—	19.3	19.3	19.3	19.4	—
2643	Bags, except textile bags	48.6	49.0	51.0	51.0	—	38.6	38.8	39.8	39.9	—
265	Paperboard containers and boxes	212.6	213.9	218.3	218.4	—	163.7	165.3	169.1	169.1	—
2651	Folding paperboard boxes	41.3	41.6	42.8	43.0	—	32.6	33.0	34.1	34.3	—
2653	Corrugated and solid fiber boxes	106.8	107.4	109.5	109.5	—	78.8	79.6	81.3	81.3	—
2654	Sanitary food containers	33.1	33.3	33.3	33.7	—	27.4	27.6	27.7	28.1	—
27	<b>PRINTING AND PUBLISHING</b>	<b>1,167.3</b>	<b>1,171.4</b>	<b>1,211.8</b>	<b>1,215.2</b>	<b>1,217.1</b>	<b>660.8</b>	<b>664.3</b>	<b>683.0</b>	<b>686.7</b>	<b>690.2</b>
271	Newspapers	402.7	403.0	414.4	414.8	—	166.3	166.0	166.2	167.0	—
272	Periodicals	77.1	77.0	80.6	80.6	—	16.1	15.7	14.0	13.6	—
273	Books	104.2	104.9	105.0	105.9	—	54.1	55.2	54.9	56.2	—
2731	Book publishing	72.5	72.9	73.7	74.3	—	27.1	28.0	28.3	29.4	—
2732	Book printing	31.7	32.0	31.3	31.6	—	27.0	27.2	26.6	26.8	—
274	Miscellaneous publishing	45.4	46.1	48.5	48.3	—	27.7	28.0	30.6	30.1	—
275	Commercial printing	372.1	374.1	391.8	393.4	—	274.3	276.6	289.6	291.3	—
2751	Commercial printing, letterpress	161.4	162.0	168.7	168.7	—	119.4	120.3	124.3	124.3	—
2752	Commercial printing, lithographic	188.2	189.2	201.4	203.2	—	136.3	137.3	147.2	149.3	—
276	Manifold business forms	43.7	44.0	46.9	47.1	—	31.3	31.5	33.7	34.1	—
278	Blankbooks and bookbinding	59.9	59.8	62.4	62.7	—	49.3	49.4	51.5	51.8	—
279	Printing trade services	39.6	39.6	39.9	40.1	—	29.3	28.9	29.1	29.2	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	<b>1,077.1</b>	<b>1,080.9</b>	<b>1,090.3</b>	<b>1,095.3</b>	<b>1,103.1</b>	<b>618.3</b>	<b>621.6</b>	<b>626.7</b>	<b>629.8</b>	<b>639.6</b>
281	Industrial inorganic chemicals	162.3	162.5	167.3	168.1	—	93.0	93.4	92.8	93.0	—
2819	Industrial inorganic chemicals, nec.	107.4	107.5	110.3	110.8	—	59.1	59.3	60.9	61.2	—
282	Plastics materials and synthetics	212.8	211.7	213.9	214.1	—	143.4	142.7	145.7	146.3	—
2821	Plastics materials and resins	83.3	83.4	84.4	84.8	—	51.5	51.7	52.2	52.6	—
2824	Organic fibers, noncellulosic	95.1	93.6	95.1	94.9	—	67.4	66.0	68.6	68.6	—
283	Drugs	181.1	181.4	184.6	184.9	—	87.6	87.6	91.1	90.8	—
2834	Pharmaceutical preparations	144.5	144.6	147.3	147.5	—	67.2	67.2	69.9	69.2	—
284	Soap, cleaners, and toilet goods	132.0	132.5	133.7	134.8	—	80.5	80.8	81.0	81.6	—
2841	Soap and other detergents	40.5	40.3	40.6	40.6	—	26.2	25.9	26.3	26.2	—
2842, 3	Polishing, sanitation, and finishing preparations	36.9	37.4	38.4	38.8	—	20.5	20.8	21.4	21.5	—
2844	Toilet preparations	54.6	54.8	54.7	55.4	—	33.8	34.1	33.3	33.9	—
285	Paints and allied products	67.3	69.0	68.8	69.4	—	35.2	36.3	35.7	36.1	—
286	Industrial organic chemicals	163.8	163.7	163.0	163.1	—	84.4	84.4	84.9	84.6	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar., 1979 <sup>P</sup>	Apr., 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar., 1979 <sup>P</sup>	Apr., 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
2865	Cyclic crudes and intermediates	35.3	35.3	36.0	36.2	-	21.6	21.7	23.0	23.0	-
2861,9	Gum, wood, and industrial organic chemicals, nec	128.5	128.4	127.0	126.9	-	62.8	62.7	61.9	61.6	-
267	Agricultural chemicals	71.3	73.6	70.7	72.4	-	45.0	47.2	45.5	47.2	-
289	Miscellaneous chemical products	86.5	86.5	88.3	88.5	-	49.2	49.2	50.0	50.2	-
29	<b>PETROLEUM AND COAL PRODUCTS</b>	203.5	206.2	206.4	208.5	212.0	132.3	134.2	134.4	137.2	142.1
291	Petroleum refining	161.7	161.6	161.8	162.8	-	101.8	101.5	102.4	104.0	-
295	Paving and roofing materials	30.4	33.3	32.6	33.7	-	23.0	25.5	24.8	26.0	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	736.7	739.5	769.6	770.0	767.7	576.2	579.3	605.8	606.3	604.2
301	Tires and inner tubes	125.7	125.4	127.5	127.7	-	90.9	90.6	92.9	93.6	-
302	Rubber and plastics footwear	23.0	23.2	23.5	23.1	-	20.0	20.2	20.6	20.2	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	23.4	23.3	22.5	22.5	-	17.6	17.5	17.0	17.0	-
306	Fabricated rubber products, nec	112.6	113.4	115.8	115.1	-	88.0	88.7	91.4	91.1	-
307	Miscellaneous plastics products	452.0	454.2	480.3	481.6	-	359.7	362.3	383.9	384.4	-
31	<b>LEATHER AND LEATHER PRODUCTS</b>	251.6	253.6	238.7	238.3	239.9	215.9	218.0	203.5	203.3	204.2
311	Leather tanning and finishing	22.4	22.7	20.4	20.4	-	19.1	19.5	17.2	17.2	-
314	Footwear, except rubber	155.9	157.4	147.9	147.1	-	135.9	137.5	127.8	126.9	-
3143	Men's footwear, except athletic	65.0	65.0	58.8	58.8	-	57.6	57.6	51.6	51.5	-
3144	Women's footwear, except athletic	59.8	61.1	60.2	59.3	-	51.2	52.5	51.6	50.6	-
318	Luggage	16.9	17.1	17.0	17.3	-	13.0	13.1	13.3	13.7	-
317	Handbags and personal leather goods	31.5	31.1	29.6	30.0	-	26.5	26.1	24.9	25.4	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	4,759	4,808	4,936	4,964	4,918	4,014	4,057	4,123	4,148	4,110
40	<b>RAILROAD TRANSPORTATION</b>	517.7	533.4	526.6	530.7	-	-	-	-	-	-
4011	Class I railroads <sup>2</sup>	469.7	485.3	485.7	489.5	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	267.7	266.0	270.1	270.3	-	247.0	245.0	248.9	249.2	-
411	Local and suburban transportation	73.6	71.0	73.8	73.8	-	67.7	65.2	68.5	68.4	-
412	Taxicabs	69.2	68.2	69.9	69.4	-	-	-	-	-	-
413	Intercity highway transportation	35.2	36.5	35.5	35.6	-	32.2	33.3	32.4	32.6	-
415	School buses	76.1	76.2	77.1	77.3	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b>	1,234.6	1,244.4	1,269.2	1,286.5	-	1,092.5	1,101.4	1,122.7	1,139.1	-
421,3	Trucking and trucking terminals	1,149.7	1,158.9	1,185.8	1,203.6	-	1,019.6	1,027.8	1,051.4	1,068.1	-
422	Public warehousing	84.9	85.5	83.4	82.9	-	72.9	73.6	71.3	71.0	-
44	<b>WATER TRANSPORTATION</b>	195.7	206.5	208.9	204.6	-	-	-	-	-	-
45	<b>TRANSPORTATION BY AIR</b>	392.2	394.8	407.4	409.7	-	-	-	-	-	-
451,2	Air transportation	349.0	351.7	360.6	362.6	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	18.4	18.5	18.8	18.4	-	13.3	13.3	13.4	13.1	-
47	<b>TRANSPORTATION SERVICES</b>	164.5	164.7	176.4	177.5	-	-	-	-	-	-
48	<b>COMMUNICATION</b>	1,205.7	1,211.9	1,270.4	1,275.1	-	915.0	919.1	959.6	961.9	-
481	Telephone communication	971.9	976.4	1,021.6	1,024.6	-	726.1	728.9	755.9	756.8	-
483	Radio and television broadcasting	173.7	175.2	182.2	183.2	-	136.2	137.4	145.0	145.8	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	762.7	767.4	787.8	791.3	-	626.1	627.7	644.8	643.8	-
491	Electric services	349.3	351.9	366.3	368.5	-	283.1	284.1	295.1	296.5	-
492	Gas production and distribution	157.9	158.5	160.7	160.7	-	129.5	129.7	131.1	130.9	-
493	Combination utility services	189.3	190.1	190.3	190.6	-	156.2	156.2	154.9	154.9	-
495	Sanitary services	42.5	42.6	45.6	46.1	-	37.7	37.6	40.2	40.6	-
-	<b>WHOLESALE AND RETAIL TRADE</b>	18,801	19,053	19,402	19,552	19,843	16,551	16,786	17,051	17,180	17,440
50,51	<b>WHOLESALE TRADE</b>	4,815	4,843	4,985	5,016	5,048	3,967	3,992	4,094	4,123	4,147
50	<b>WHOLESALE TRADE - DURABLE GOODS</b>	2,792	2,812	2,935	2,960	-	2,297	2,314	2,404	2,428	-
501	Motor vehicles and automotive equipment	408.3	412.6	429.0	432.5	-	335.5	339.5	350.5	353.3	-
502	Furniture and home furnishing	98.3	98.5	101.0	101.4	-	80.0	80.0	82.1	82.5	-
503	Lumber and construction materials	167.8	170.7	173.7	175.1	-	139.3	142.2	143.9	145.3	-
504	Sporting goods, toys, and hobby goods	63.3	63.8	62.9	63.2	-	52.9	53.3	52.0	52.0	-
505	Metals and minerals, except petroleum	134.9	135.6	143.8	145.1	-	109.4	109.8	116.6	118.1	-
506	Electrical goods	385.2	387.1	409.4	411.2	-	317.3	319.3	336.7	338.5	-
507	Hardware, plumbing, and heating equipment	227.6	228.1	236.9	239.1	-	188.6	188.6	196.0	198.5	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>D</sup>	Apr. 1979 <sup>D</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>D</sup>	Apr. 1979 <sup>D</sup>
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>										
	Continued										
508	Machinery, equipment, and supplies .....	1,117.1	1,124.2	1,180.5	1,192.2	-	915.2	921.1	959.8	910.1	-
509	Miscellaneous durable goods .....	189.5	191.1	197.4	200.6	-	158.9	160.4	166.4	169.6	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	2,023	2,031	2,050	2,056	-	1,670	1,678	1,690	1,695	-
511	Paper and paper products .....	131.0	131.4	135.4	135.9	-	107.1	107.2	109.3	109.3	-
512	Drugs, proprietaries, and sundries .....	133.3	134.5	138.0	138.1	-	114.3	115.3	118.6	118.6	-
513	Apparel, piece goods, and notions .....	155.9	157.7	160.1	161.5	-	123.8	125.2	126.9	127.9	-
514	Groceries and related products .....	621.1	621.0	613.6	616.5	-	536.9	537.9	531.5	533.7	-
516	Chemical and allied products .....	115.4	115.5	117.6	118.3	-	81.4	81.9	84.6	85.5	-
517	Petroleum and petroleum products .....	225.8	225.1	225.2	223.4	-	175.6	174.8	168.9	167.0	-
518	Beer, wine, and distilled beverages .....	128.0	128.0	134.7	135.9	-	108.1	108.2	113.8	115.2	-
519	Miscellaneous nondurable goods .....	356.0	362.5	364.3	367.8	-	293.5	299.6	302.0	305.1	-
52-59	<b>RETAIL TRADE</b> .....	13,986	14,210	14,417	14,536	14,795	12,584	12,794	12,957	13,057	13,293
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES .....	563.3	579.5	576.9	589.7	-	478.7	494.3	490.3	503.1	-
521	Lumber and other building materials .....	299.5	308.0	307.8	312.1	-	256.4	264.1	262.9	267.5	-
525	Hardware stores .....	138.4	139.8	142.3	142.2	-	118.3	119.6	122.1	121.6	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2,216.3	2,239.7	2,236.7	2,226.3	-	2,053.8	2,083.7	2,081.5	2,068.8	-
531	Department stores .....	1,801.2	1,823.7	1,806.9	1,795.2	-	1,679.1	1,707.8	1,693.4	1,679.9	-
533	Variety stores .....	278.1	278.5	280.4	281.0	-	258.7	259.3	259.7	259.3	-
539	Misc. general merchandise stores .....	137.0	137.5	149.4	150.1	-	116.0	116.6	128.4	129.6	-
54	<b>FOOD STORES</b> .....	2,170.0	2,174.7	2,252.4	2,256.1	-	2,001.4	2,004.9	2,077.9	2,081.6	-
541	Grocery stores .....	1,905.0	1,914.0	1,988.6	1,994.4	-	1,760.6	1,768.1	1,836.9	1,842.8	-
542	Meat markets and freezer provisioners .....	47.9	47.3	49.1	49.7	-	-	-	-	-	-
546	Retail bakeries .....	115.9	116.5	115.4	118.0	-	106.4	106.8	106.4	108.6	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS .....	1,818.7	1,840.5	1,863.2	1,865.6	-	1,562.5	1,582.8	1,595.8	1,595.5	-
551,2	New and used car dealers .....	868.7	875.5	897.8	901.6	-	724.4	730.1	747.7	749.9	-
553	Auto and home supply stores .....	237.4	244.7	245.6	246.9	-	205.4	213.0	214.0	215.5	-
554	Gasoline service stations .....	636.4	640.9	643.1	636.7	-	568.6	572.6	569.0	561.7	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	858.4	864.6	875.4	880.9	-	741.3	745.8	753.6	758.1	-
561	Men's and boys' clothing and furnishings .....	136.7	137.4	140.7	139.6	-	116.1	116.7	119.2	118.3	-
562	Women's ready-to-wear stores .....	318.5	321.0	322.0	328.3	-	277.1	278.3	280.6	285.7	-
565	Family clothing stores .....	150.7	152.3	155.3	156.1	-	133.0	134.8	135.9	136.3	-
566	Shoe stores .....	167.9	169.0	172.4	173.8	-	140.7	141.5	143.8	145.2	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES .....	580.6	582.0	603.1	606.6	-	482.3	482.7	499.3	503.5	-
571	Furniture and home furnishings .....	351.5	351.4	356.2	359.0	-	296.6	296.1	298.8	300.8	-
572	Household appliance stores .....	85.4	85.9	91.4	91.2	-	72.8	73.1	77.8	78.0	-
573	Radio, television, and music stores .....	143.7	144.7	155.5	156.4	-	112.9	113.5	122.7	124.7	-
58	<b>EATING AND DRINKING PLACES</b> .....	4,022.3	4,181.0	4,201.0	4,317.2	-	3,719.2	3,863.6	3,859.4	3,963.8	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1,756.0	1,747.7	1,807.9	1,793.9	-	1,545.2	1,535.8	1,598.7	1,583.0	-
591	Drug stores and proprietary stores .....	491.8	491.8	509.8	510.8	-	447.5	447.3	464.5	465.7	-
592	Liquor stores .....	113.5	115.9	125.7	125.4	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	486.3	482.3	497.9	499.6	-	416.6	412.7	427.8	428.5	-
596	Nonstore retailers .....	271.0	271.7	267.1	263.1	-	251.7	252.3	251.4	247.3	-
598	Fuel and ice dealers .....	108.7	101.9	110.2	106.9	-	92.8	86.3	94.6	91.4	-
599	Retail stores, nec. .....	233.5	232.0	244.3	234.7	-	198.8	196.4	208.6	198.3	-
-	<b>FINANCE, INSURANCE, AND REAL</b>										
	ESTATE <sup>2</sup> .....	4,577	4,609	4,786	4,813	4,845	3,475	3,502	3,632	3,656	3,683
60	<b>BANKING</b> .....	1,319.2	1,395.8	1,456.6	1,464.0	-	1,088.9	1,091.8	1,132.3	1,135.0	-
602	Commercial and stock savings banks .....	1,268.9	1,272.8	1,330.3	1,335.0	-	990.0	991.9	1,027.7	1,030.1	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	488.3	490.4	516.3	520.5	-	373.5	375.8	396.3	399.0	-
612	Savings and loan associations .....	208.5	209.7	224.8	226.3	-	162.6	163.9	174.1	175.1	-
614	Personal credit institutions .....	193.8	194.8	201.7	204.2	-	145.9	146.9	153.9	155.6	-
62	<b>SECURITY, COMMODITY BROKERS, AND</b>										
	SERVICES .....	182.9	183.3	198.1	199.1	-	-	-	-	-	-
621	Security brokers and dealers .....	150.2	150.5	162.5	163.2	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1,179.3	1,182.9	1,218.7	1,244.1	-	821.7	822.8	851.3	859.8	-
631	Life insurance .....	522.4	522.5	524.0	525.6	-	312.1	311.2	313.3	314.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]		All employees					Production workers <sup>1</sup>				
1972 SIC Code	Industry	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
<b>INSURANCE CARRIERS—Continued</b>											
632	Medical service and health insurance .....	137.3	137.8	142.0	142.4	—	111.8	111.8	114.3	114.5	—
633	Fire, marine, and casualty insurance .....	449.5	451.9	479.6	482.8	—	340.3	341.9	363.6	370.8	—
<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b>											
64	.....	385.1	385.9	408.8	410.0	—	—	—	—	—	—
<b>REAL ESTATE</b>											
65	.....	822.9	842.6	852.7	862.7	—	—	—	—	—	—
651	Real estate operators and lessors .....	421.6	428.1	425.5	431.2	—	—	—	—	—	—
653	Real estate agents and managers .....	279.3	283.2	296.4	299.7	—	—	—	—	—	—
655	Subdividers and developers .....	98.4	107.7	105.8	107.0	—	—	—	—	—	—
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	29.4	29.8	30.3	30.3	—	—	—	—	—	—
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b> .....	97.6	98.5	102.4	102.6	—	—	—	—	—	—
—	<b>SERVICES</b> .....	15,678	15,866	16,241	16,413	16,569	14,000	14,174	14,408	14,571	14,714
<b>HOTELS AND OTHER LODGING PLACES</b>											
70	.....	907.8	929.2	898.8	921.4	—	—	—	—	—	—
701	Hotels, motels, and tourist courts .....	875.0	896.8	866.6	889.4	—	804.1	825.0	798.8	821.2	—
<b>PERSONAL SERVICES</b>											
72	.....	900.6	899.4	901.1	909.5	—	—	—	—	—	—
721	Laundry, cleaning, and garment services .....	351.6	352.4	348.3	349.8	—	313.2	313.5	309.5	311.2	—
723	Beauty shops .....	281.9	279.3	280.2	285.1	—	259.5	257.1	258.3	263.5	—
726	Funeral service and crematories .....	69.4	69.4	71.6	72.4	—	—	—	—	—	—
<b>BUSINESS SERVICES</b>											
73	.....	2,453.8	2,483.2	2,642.5	2,676.3	—	2,126.4	2,152.9	2,288.1	2,319.2	—
731	Advertising .....	136.7	137.7	147.1	148.0	—	101.5	101.9	108.3	109.1	—
732	Credit reporting and collection .....	85.9	87.3	86.1	86.6	—	—	—	—	—	—
733	Mailing, reproduction, stenographic .....	99.8	100.6	100.7	103.6	—	—	—	—	—	—
734	Services to buildings .....	438.2	445.3	457.5	465.4	—	391.6	398.8	410.6	417.6	—
736	Personnel supply services .....	382.2	388.9	406.2	420.4	—	—	—	—	—	—
737	Computer and data processing services .....	202.4	202.7	230.6	233.2	—	167.0	166.7	190.2	192.7	—
<b>AUTO REPAIR, SERVICES, AND GARAGES</b>											
75	.....	514.7	518.7	529.4	536.6	—	443.2	446.3	454.7	461.9	—
753	Automotive repair shops .....	310.8	315.6	320.6	322.9	—	265.2	269.4	273.7	276.2	—
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	241.8	243.6	251.7	253.7	—	207.9	209.4	215.6	216.1	—
<b>MOTION PICTURES</b>											
78	.....	213.7	214.5	212.8	215.4	—	187.8	188.9	189.2	194.0	—
781	Motion picture production and services .....	83.0	76.3	89.0	87.8	—	72.6	66.4	77.8	78.7	—
783	Motion picture theaters .....	120.5	127.9	113.4	117.3	—	—	—	—	—	—
79	<b>AMUSEMENT AND RECREATION SERVICES.</b> .....	629.3	677.0	611.5	639.1	—	567.1	613.9	547.4	574.9	—
<b>HEALTH SERVICES</b>											
80	.....	4,694.5	4,710.5	4,885.4	4,903.5	—	4,193.9	4,206.5	4,350.4	4,365.8	—
801	Offices of physicians .....	669.9	671.4	697.0	698.8	—	555.3	555.9	571.7	571.6	—
802	Offices of dentists .....	286.1	288.1	293.5	295.2	—	253.0	253.3	256.3	257.9	—
805	Nursing and personal care facilities .....	878.8	886.7	930.8	937.3	—	793.2	800.9	838.5	844.4	—
806	Hospitals .....	2,518.0	2,522.3	2,602.4	2,608.9	—	2,295.8	2,300.9	2,376.7	2,382.9	—
81	<b>LEGAL SERVICES</b> .....	408.0	409.6	440.5	441.1	—	355.8	356.9	378.9	378.7	—
<b>EDUCATIONAL SERVICES</b>											
82	.....	1,112.5	1,117.7	1,090.0	1,093.5	—	—	—	—	—	—
821	Elementary and secondary schools .....	245.3	246.8	238.1	237.7	—	—	—	—	—	—
822	Colleges and universities .....	765.0	768.7	745.5	747.8	—	—	—	—	—	—
83	<b>SOCIAL SERVICES</b> .....	915.4	930.8	980.2	992.9	—	—	—	—	—	—
86	<b>MEMBERSHIP ORGANIZATIONS</b> .....	1,514.7	1,520.7	1,564.5	1,576.4	—	—	—	—	—	—
<b>MISCELLANEOUS SERVICES</b>											
89	.....	837.7	842.1	899.5	910.2	—	698.2	702.5	747.5	756.1	—
891	Engineering and architectural services .....	444.7	449.4	472.8	479.3	—	375.3	379.7	398.2	404.2	—
893	Accounting, auditing, and bookkeeping .....	277.0	274.9	296.3	299.6	—	225.1	223.5	240.6	242.5	—
—	<b>GOVERNMENT</b> .....	15,726	15,766	15,718	15,792	15,786	—	—	—	—	—
—	<b>FEDERAL GOVERNMENT.</b> .....	2,725	2,739	2,738	2,740	2,749	—	—	—	—	—
—	Executive .....	2,672.9	2,686.7	2,686.3	2,688.3	—	—	—	—	—	—
—	Department of Defense .....	905.6	905.4	895.0	892.0	—	—	—	—	—	—
—	Postal Service .....	647.6	647.9	655.2	655.4	—	—	—	—	—	—
—	Other executive agencies .....	1,119.7	1,133.4	1,136.1	1,140.9	—	—	—	—	—	—
—	Manufacturing activities .....	140.9	141.0	140.2	139.5	—	—	—	—	—	—
—	Shipbuilding .....	72.0	72.2	71.8	71.6	—	—	—	—	—	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>
	Executive—Continued										
-	Transportation and public utilities, except Postal Service .....	37.2	37.6	37.5	37.9	-	-	-	-	-	-
-	Services .....	375.7	380.3	371.3	371.7	-	-	-	-	-	
-	Hospitals .....	233.1	234.8	228.4	227.8	-	-	-	-	-	
-	Legislative .....	39.5	39.5	38.5	38.9	-	-	-	-	-	
-	Judicial .....	12.7	12.7	13.0	13.1	-	-	-	-	-	
-	<b>STATE AND LOCAL GOVERNMENT .....</b>	<b>13,001</b>	<b>13,027</b>	<b>12,980</b>	<b>13,052</b>	<b>13,037</b>	-	-	-	-	
-	State government .....	3,501.8	3,505.0	3,494.1	3,514.3	-	-	-	-	-	
-	Hospitals .....	551.1	551.7	562.2	562.8	-	-	-	-	-	
-	State education .....	1,467.3	1,467.3	1,458.3	1,471.1	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions .....	914.7	917.0	898.7	903.6	-	-	-	-	-	
-	Local government .....	9,499.2	9,522.4	9,485.7	9,537.2	-	-	-	-	-	
-	Transportation and public utilities .....	558.0	558.4	577.0	578.9	-	-	-	-	-	
-	Hospitals .....	502.7	503.7	521.0	522.9	-	-	-	-	-	
-	Local education .....	5,386.1	5,393.7	5,346.4	5,383.3	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions .....	2,714.8	2,725.5	2,701.8	2,710.2	-	-	-	-	-	

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

<sup>2</sup> Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 or more.

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

<sup>4</sup> Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

<sup>p</sup> Not available.

<sup>p</sup> preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry**

[In thousands]

1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
-	<b>TOTAL</b> .....	33,952	34,094	36,439	35,723	35,829
-	<b>PRIVATE SECTOR</b> .....	26,791	26,799	29,060	28,425	28,401
-	<b>MINING</b> .....	67	68	80	81	82
10	<b>METAL MINING</b> .....	6.3	6.4	7.5	7.6	7.6
11, 12	<b>COAL MINING</b> .....	4.9	5.0	8.3	8.5	8.5
13	<b>OIL AND GAS EXTRACTION</b> .....	48.5	48.8	56.1	56.3	57.5
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	31.5	31.8	35.8	36.0	36.7
138	Oil and gas field services .....	17.0	17.0	20.3	20.3	20.8
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	7.4	7.3	8.4	8.2	8.1
142	Crushed and broken stone .....	2.3	2.2	2.7	2.6	2.6
144	Sand and gravel .....	2.2	2.2	2.6	2.5	2.4
-	<b>CONSTRUCTION</b> .....	315	315	340	339	344
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	115.4	115.4	121.1	122.5	123.9
152	Residential building construction .....	69.6	69.2	72.1	73.1	73.8
153	Operative builders .....	15.8	16.1	16.6	16.5	17.0
154	Nonresidential building construction .....	30.0	30.1	32.4	32.9	33.1
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	48.8	47.5	51.4	48.9	49.0
161	Highway and street construction .....	10.7	10.5	14.0	13.0	13.1
162	Heavy construction, except highway .....	38.1	37.0	37.4	35.9	35.9
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	150.7	151.9	167.2	167.8	170.6
171	Plumbing, heating, air conditioning .....	43.4	43.9	46.1	46.2	46.5
172	Painting, paper hanging, decorating .....	9.5	9.8	11.4	11.3	11.5
173	Electrical work .....	27.8	27.7	29.2	29.2	29.3
174	Masonry, stonework, and plastering .....	17.5	17.4	19.3	19.9	20.7
175	Carpentering and flooring .....	11.4	11.4	14.1	13.4	14.1
176	Roofing and sheet metal work .....	9.8	10.0	11.5	11.6	11.8
-	<b>MANUFACTURING</b> .....	5,942	5,976	6,328	6,271	6,284
24, 25, 32-38	<b>DURABLE GOODS</b> .....	2,744	2,754	2,991	2,976	2,991
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,198	3,222	3,337	3,295	3,293
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	101.1	100.6	109.7	108.1	108.6
241	Logging camps and logging contractors .....	4.2	4.4	4.9	4.8	4.8
242	Sawmills and planing mills .....	20.6	20.3	22.4	22.4	22.4
2421	Sawmills and planing mills, general .....	14.3	14.0	15.5	15.3	15.3
243	Millwork, plywood, and structural members .....	40.1	39.6	43.8	42.8	42.9
244	Wooden containers .....	7.1	6.9	6.9	7.0	7.1
245	Wood buildings and mobile homes .....	9.6	9.6	10.2	9.8	9.7
249	Miscellaneous wood products .....	19.5	19.8	21.5	21.3	21.7
25	<b>FURNITURE AND FIXTURES</b> .....	138.7	139.7	146.4	145.9	144.8
251	Household furniture .....	105.6	107.0	110.2	109.8	108.7
2511	Wood household furniture .....	44.2	44.5	45.5	45.4	45.1
2512	Upholstered household furniture .....	36.2	36.5	38.0	37.8	37.3
2515	Mattresses and bedsprings .....	8.4	8.5	8.5	8.5	8.6
252	Office furniture .....	9.3	9.3	10.6	10.7	10.6
253	Public building and related furniture .....	4.8	4.6	5.0	5.0	5.0
254	Partitions and fixtures .....	9.0	9.0	10.4	10.2	10.3
259	Miscellaneous furniture and fixtures .....	10.0	9.8	10.2	10.2	10.2
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	126.1	126.4	131.9	129.7	129.9
322	Glass and glassware, pressed or blown .....	47.0	47.2	46.0	45.0	44.4
3221	Glass containers .....	28.2	28.1	26.0	25.1	25.4
3229	Pressed and blown glass, nec .....	18.8	15.1	20.0	19.9	19.0
323	Products of purchased glass .....	10.6	10.8	12.3	12.4	12.6
324	Cement, hydraulic .....	1.5	1.5	1.6	1.6	1.6
325	Structural clay products .....	6.5	6.5	6.6	6.6	6.7
326	Pottery and related products .....	16.5	16.6	17.4	16.8	16.9
327	Concrete, gypsum, and plaster products .....	13.1	13.3	14.3	14.0	13.9
329	Misc. nonmetallic mineral products .....	28.3	27.9	31.0	30.7	31.3
33	<b>PRIMARY METAL INDUSTRIES</b> .....	113.7	113.5	128.2	128.8	129.5
331	Blast furnace and basic steel products .....	34.5	35.0	40.0	40.2	40.7
3312	Blast furnaces and steel mills .....	26.5	26.9	31.1	31.5	31.9
332	Iron and steel foundries .....	17.2	17.2	20.7	20.9	20.6

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry—Continued**

[In thousands]

1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
<b>PRIMARY METAL INDUSTRIES —Continued</b>						
3321	Gray iron foundries .....	8.9	8.9	10.5	10.6	10.2
3322	Malleable iron foundries .....	1.5	1.5	1.7	1.7	1.7
3325	Steel foundries, nec .....	3.9	3.9	4.7	4.8	4.8
333	Primary nonferrous metals .....	4.1	4.1	4.5	4.5	4.5
3334	Primary aluminum .....	1.3	1.3	1.7	1.7	1.7
335	Nonferrous rolling and drawing .....	38.0	37.2	41.3	41.3	41.7
3351	Copper rolling and drawing .....	3.1	3.1	3.7	3.7	3.8
3353	Aluminum sheet, plate, and foil .....	4.1	4.2	4.6	4.6	4.6
3357	Nonferrous wire drawing and insulating .....	23.3	22.2	24.4	24.5	24.6
336	Nonferrous foundries .....	15.1	15.2	16.8	16.9	16.9
3361	Aluminum foundries .....	7.0	7.1	7.8	7.8	7.7
<b>FABRICATED METAL PRODUCTS</b>						
34	Metal cans and shipping containers .....	325.2	326.7	350.9	348.8	349.2
341	Metal cans .....	11.9	12.1	12.6	12.9	13.3
3411	Metal cans .....	10.4	10.6	10.9	11.2	11.6
342	Cutlery, hand tools, and hardware .....	61.1	61.9	65.0	64.1	64.0
3423, 5	Hand and edge tools, and hand saws and blades .....	16.4	16.5	17.5	17.2	17.1
3429	Hardware, nec .....	37.8	38.5	40.1	39.6	39.6
343	Plumbing and heating, except electric .....	16.3	16.7	17.9	18.1	17.8
344	Fabricated structural metal products .....	65.7	65.6	70.6	69.4	68.7
3441	Fabricated structural metal .....	6.8	6.9	7.4	7.4	7.6
3442	Metal doors, sash, and trim .....	22.9	22.5	23.1	22.0	21.1
3443	Fabricated plate work (boiler shops) .....	14.6	14.6	15.9	15.9	16.0
3444	Sheet metal work .....	12.9	13.1	14.3	14.2	14.4
345	Screw machine products, bolts, etc. ....	21.6	21.8	24.3	24.4	24.9
3451	Screw machine products .....	11.2	11.3	12.6	12.7	13.1
3452	Bolts, nuts, rivets, and washers .....	10.4	10.5	11.7	11.7	11.8
346	Metal forgings and stampings .....	55.2	54.6	58.5	58.4	58.6
3462	Iron and steel forgings .....	3.8	3.8	4.4	4.5	4.5
3465	Automotive stampings .....	14.9	14.1	16.2	15.6	15.4
3469	Metal stampings, nec .....	34.5	34.6	35.7	36.1	36.6
347	Metal services, nec .....	23.5	23.5	24.6	24.4	24.1
3471	Plating and polishing .....	17.5	17.6	17.9	17.5	17.3
3479	Metal coating and allied services .....	6.0	5.9	6.7	6.9	6.8
348	Ordnance and accessories, nec .....	15.6	15.6	16.4	16.4	16.5
349	Misc. fabricated metal products .....	54.3	54.9	61.0	60.7	61.3
3494	Valves and pipe fittings .....	19.8	19.8	21.8	22.2	22.4
3496	Misc. fabricated wire products .....	11.7	12.1	13.6	13.5	13.8
<b>MACHINERY, EXCEPT ELECTRICAL</b>						
35	Engines and turbines .....	412.9	414.9	459.8	462.8	467.3
351	Turbines and turbine generator sets .....	21.8	21.8	24.7	24.7	25.0
3511	Internal combustion engines, nec .....	5.8	5.8	6.1	6.1	6.1
3519	Farm and garden machinery .....	16.0	16.0	18.6	18.6	18.9
352	Farm machinery and equipment .....	22.5	22.9	24.9	25.0	25.6
3523	Construction and related machinery .....	17.7	17.9	19.5	19.7	20.3
353	Construction machinery .....	38.5	38.7	43.2	44.0	44.3
3531	Oil field machinery .....	14.0	13.9	14.4	14.5	14.7
3533	Metalworking machinery .....	8.1	8.2	9.7	10.1	10.2
354	Machine tools, metal cutting types .....	49.8	50.2	54.1	55.0	55.6
3541	Special dies, tools, jigs, and fixtures .....	7.7	7.8	8.8	9.0	9.1
3544	Machine tool accessories .....	13.5	13.6	15.0	15.5	15.4
3545	Special industry machinery .....	12.2	12.3	13.7	13.8	14.1
355	Food products machinery .....	27.8	28.0	30.8	30.4	30.5
3551	Textile machinery .....	5.9	5.9	6.3	6.3	6.3
3552	Printing trades machinery .....	5.8	5.8	6.0	5.9	6.0
3555	General industrial machinery .....	5.6	5.8	7.2	7.0	6.9
356	Pumps and pumping equipment .....	54.3	54.8	60.4	60.8	61.4
3561	Ball and roller bearings .....	10.3	10.4	11.3	11.2	11.3
3562	Office and computing machinery .....	13.3	13.3	14.4	14.6	14.7
357	Refrigeration and service machinery .....	114.6	115.8	133.2	133.6	134.9
3573	Refrigeration and heating equipment .....	87.7	88.8	103.0	103.9	105.9
358	Misc. machinery, except electrical .....	36.1	35.8	38.9	39.4	39.8
3585	Machinery, except electrical, nec .....	24.0	24.6	25.6	26.7	27.2
359	Machinery, except electrical, nec .....	47.5	46.9	49.6	49.9	50.2
3599	Machinery, except electrical, nec .....	37.8	37.3	38.3	38.6	38.8
<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>						
36	Electric distributing equipment .....	795.7	798.6	851.5	848.1	852.3
361	Transformers .....	43.4	43.9	43.8	43.8	44.0
3612	Switchgear and switchboard apparatus .....	20.2	20.4	20.5	20.1	20.5
3613	Electrical industrial apparatus .....	23.2	23.5	23.3	23.7	23.5
362	Motors and generators .....	89.3	90.4	95.4	95.9	96.9
3621	Industrial controls .....	49.9	50.9	52.5	53.2	53.8
3622	Household appliances .....	27.6	27.6	30.1	30.0	30.1
363	Household refrigerators and freezers .....	60.0	60.0	58.1	56.0	57.6
3632	Household laundry equipment .....	12.1	12.4	9.2	9.6	10.7
3633	Electric housewares and fans .....	4.7	4.9	4.3	4.0	4.6
3634	Electric lighting and wiring equipment .....	24.9	24.4	26.6	24.6	24.4
364	Electric lamps .....	96.0	95.8	103.4	103.6	103.3
3641	Electric lamps .....	24.5	24.4	25.0	25.7	24.8

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry—Continued**

[In thousands]						
1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	41.3	41.3	46.5	46.4	46.7
365	Radio and TV receiving equipment .....	67.3	65.7	66.3	62.5	61.4
3651	Radio and TV receiving sets .....	50.1	49.9	51.0	49.8	48.7
366	Communication equipment .....	171.2	172.5	186.0	186.1	186.7
3661	Telephone and telegraph apparatus .....	71.3	71.9	73.9	72.9	72.9
3662	Radio and TV communication equipment .....	99.9	100.6	112.1	113.2	113.8
367	Electronic components and accessories .....	215.7	217.4	242.0	243.7	246.3
3671-3	Electronic tubes .....	15.7	15.8	16.6	16.6	16.8
3674	Semiconductors and related devices .....	72.6	72.4	84.7	84.8	85.1
3679	Electronic components, nec .....	87.8	88.9	97.5	98.5	99.9
369	Misc. electrical equipment and supplies .....	52.8	52.9	56.5	56.5	56.1
3694	Engine electrical equipment .....	26.7	26.9	28.8	28.7	28.0
<b>TRANSPORTATION EQUIPMENT</b>						
37	Motor vehicles and equipment .....	271.9	267.4	312.0	311.4	311.2
371	Motor vehicles and equipment .....	127.5	123.8	144.3	141.6	138.9
3711	Motor vehicles and car bodies .....	50.8	47.9	56.2	53.9	52.3
3713	Truck and bus bodies .....	5.4	5.4	5.8	5.9	6.1
3714	Motor vehicle parts and accessories .....	69.5	68.7	80.1	79.5	78.2
372	Aircraft and parts .....	83.7	82.0	101.9	104.7	106.8
3721	Aircraft .....	48.9	47.0	61.2	63.5	64.7
3724	Aircraft engines and engine parts .....	18.7	18.8	22.0	22.3	22.6
3728	Aircraft equipment, nec .....	16.1	16.2	18.7	18.9	19.5
373	Ship and boat building and repairing .....	21.9	21.9	22.7	22.6	22.2
3731	Ship building and repairing .....	14.8	14.7	14.7	14.4	13.8
374	Railroad equipment .....	4.6	4.6	5.3	5.0	5.4
376	Guided missiles, space vehicles, parts .....	15.4	15.6	17.0	17.0	17.6
3761	Guided missiles and space vehicles .....	12.4	12.5	13.5	13.6	14.1
379	Miscellaneous transportation equipment .....	13.0	13.5	15.4	14.7	14.3
<b>INSTRUMENTS AND RELATED PRODUCTS</b>						
38	Engineering and scientific instruments .....	263.1	264.2	288.7	288.9	291.2
381	Engineering and scientific instruments .....	19.2	19.3	21.8	22.0	22.3
382	Measuring and controlling devices .....	87.8	88.6	95.4	96.5	97.8
3822	Environmental controls .....	25.2	25.5	23.8	24.1	24.5
3823	Process control instruments .....	14.9	15.0	16.5	16.4	16.8
3825	Instruments to measure electricity .....	33.7	34.5	40.0	40.7	41.1
383	Optical instruments and lenses .....	9.1	9.0	10.0	9.9	9.9
384	Medical instruments and supplies .....	71.8	72.2	81.3	81.1	81.5
3841	Surgical and medical instruments .....	30.7	30.9	35.8	36.1	36.0
3842	Surgical appliances and supplies .....	32.7	32.8	36.4	36.4	36.7
385	Ophthalmic goods .....	22.5	22.4	23.8	23.5	23.6
386	Photographic equipment and supplies .....	34.6	34.6	37.8	37.8	37.7
387	Watches, clocks, and watchcases .....	18.1	18.1	18.6	18.1	18.4
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>						
39	Jewelry, silverware, and plated ware .....	195.4	201.5	211.9	203.6	206.9
391	Jewelry, silverware, and plated ware .....	27.6	27.3	29.5	28.8	28.0
393	Musical instruments .....	11.1	11.2	12.0	12.1	11.4
394	Toys and sporting goods .....	54.2	57.6	56.3	52.1	55.7
3942, 4	Dolls, games, toys, and children's vehicles .....	23.3	26.1	27.7	24.3	26.8
3949	Sporting and athletic goods, nec .....	30.9	31.5	28.6	27.8	28.9
395	Pens, pencils, office and art supplies .....	18.2	18.5	19.3	19.3	19.3
396	Costume jewelry and notions .....	36.1	37.8	43.0	40.2	40.5
399	Miscellaneous manufactures .....	48.2	49.1	51.8	51.1	52.0
<b>NONDURABLE GOODS</b>						
<b>FOOD AND KINDRED PRODUCTS</b>						
20	Meat products .....	448.6	445.0	482.8	466.0	457.2
201	Meat products .....	104.3	104.6	113.9	111.5	110.1
2011	Meat packing plants .....	26.3	26.4	27.9	27.8	27.1
2013	Sausages and other prepared meats .....	19.9	19.9	20.9	20.2	20.4
2016	Poultry dressing plants .....	50.8	51.1	57.5	55.6	55.0
202	Dairy products .....	35.8	35.8	38.1	37.2	36.8
202	Dairy products .....	19.3	19.3	19.9	19.7	19.5
2026	Fluid milk .....	19.3	19.3	19.9	19.7	19.5
203	Preserved fruits and vegetables .....	75.7	75.2	85.0	76.9	76.6
2032	Canned specialties .....	9.5	9.4	10.5	10.1	9.6
2033	Canned fruits and vegetables .....	20.8	19.4	24.1	20.4	20.9
2037	Frozen fruits and vegetables .....	15.6	17.0	18.9	16.5	16.8
204	Grain mill products .....	27.7	27.9	28.5	28.3	28.3
205	Bakery products .....	60.7	59.9	60.8	60.4	59.9
2061	Bread, cake, and related products .....	42.0	41.2	42.1	41.4	41.2
2062	Cookies and crackers .....	18.7	18.7	18.7	19.0	18.7
206	Sugar and confectionery products .....	39.3	37.9	44.6	41.8	39.9
207	Fats and oils .....	5.1	5.0	5.0	4.9	4.9
209	Beverages .....	34.8	34.7	35.3	34.7	34.6
2082	Malt beverages .....	5.3	5.3	5.7	5.8	5.7
2086	Bottled and canned soft drinks .....	15.4	15.6	17.0	16.8	16.9
209	Misc. foods and kindred products .....	65.2	64.0	71.6	70.3	66.1
<b>TOBACCO MANUFACTURES</b>						
21	Cigarettes .....	27.4	26.9	29.1	27.0	25.4
211	Cigarettes .....	15.5	15.4	15.4	15.5	15.2



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry—Continued**

[In thousands]

1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
22	<b>TEXTILE MILL PRODUCTS</b>	426.0	427.1	430.1	426.5	427.1
221	Weaving mills, cotton	67.4	67.0	66.4	66.6	66.7
222	Weaving mills, synthetics	50.1	49.8	49.4	49.5	49.4
223	Weaving and finishing mills, wool	7.9	7.8	8.2	8.3	8.3
224	Narrow fabric mills	15.3	15.4	15.6	15.5	15.5
225	Knitting mills	149.5	151.0	153.0	150.3	150.2
2251	Women's hosiery, except socks	22.0	21.9	24.6	24.4	24.3
2252	Hosiery, nec	25.0	25.5	25.7	25.6	25.6
2253	Knit outerwear mills	51.0	52.2	50.9	48.6	48.4
2254	Knit underwear mills	26.2	26.4	27.7	28.3	28.5
2257	Circular knit fabric mills	14.8	14.7	14.1	13.6	13.7
226	Textile finishing, except wool	24.3	24.2	23.3	23.2	23.4
2261	Finishing plants, cotton	10.2	10.1	10.2	10.3	10.4
2262	Finishing plants, synthetic	6.8	6.8	6.3	6.3	6.4
227	Floor covering mills	24.5	24.3	25.9	25.7	25.8
228	Yarn and thread mills	65.5	66.2	66.8	66.0	66.3
2281	Yarn mills, except wool	40.4	40.8	42.0	41.7	42.1
2282	Throwing and winding mills	12.4	12.6	12.5	12.3	12.2
229	Miscellaneous textile goods	21.5	21.4	21.5	21.4	21.5
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,044.0	1,062.1	1,058.4	1,047.4	1,053.7
231	Men's and boys' suits and coats	69.3	69.1	68.2	66.6	67.2
232	Men's and boys' furnishings	309.1	314.5	306.6	303.1	307.8
2321	Men's and boys' shirts and nightwear	88.2	88.8	90.8	89.9	90.6
2327	Men's and boys' separate trousers	70.7	72.4	68.7	67.9	69.0
2328	Men's and boys' work clothing	82.8	83.0	79.4	78.3	80.8
233	Women's and misses' outerwear	348.3	358.4	360.0	362.1	362.3
2331	Women's and misses' blouses and waists	50.0	50.3	52.8	52.9	52.9
2335	Women's and misses' dresses	130.8	134.8	134.5	135.8	135.0
2337	Women's and misses' suits and coats	48.7	51.5	50.4	50.7	51.7
2339	Women's and misses' outerwear, nec	118.8	121.8	122.3	122.7	122.7
234	Women's and children's undergarments	81.2	82.5	79.8	78.4	78.9
2341	Women's and children's underwear	64.5	66.2	64.1	63.0	63.6
2342	Brassieres and allied garments	16.7	16.3	15.7	15.4	15.3
236	Children's outerwear	58.4	58.8	57.8	56.0	57.6
2361	Children's dresses and blouses	23.5	23.4	22.6	22.1	22.2
238	Misc. apparel and accessories	46.3	47.4	46.2	44.2	45.5
239	Misc. fabricated textile products	118.5	118.1	126.5	123.7	120.7
2391	Curtains and draperies	24.8	24.2	24.1	23.8	23.2
2392	House furnishings, nec	32.2	32.5	32.4	32.0	30.7
2396	Automotive and apparel trimmings	17.2	16.7	20.2	19.4	18.7
26	<b>PAPER AND ALLIED PRODUCTS</b>	152.4	153.0	160.6	159.2	158.9
281, 2,6	Paper and pulp mills	24.9	24.9	25.8	25.7	25.5
262	Paper mills, except building paper	22.5	22.5	23.2	23.1	23.1
263	Paperboard mills	5.3	5.5	6.0	6.0	6.1
264	Misc. converted paper products	71.5	71.9	74.6	74.5	74.3
265	Paperboard containers and boxes	50.7	50.7	54.2	53.0	53.0
27	<b>PRINTING AND PUBLISHING</b>	435.3	438.4	470.5	469.5	471.4
271	Newspapers	137.2	137.9	147.7	147.6	148.5
272	Periodicals	45.1	44.6	49.2	50.1	49.4
273	Books	54.1	55.2	55.3	55.5	55.9
274	Miscellaneous publishing	25.0	25.2	26.7	26.4	26.4
275	Commercial printing	110.2	111.5	122.7	120.8	122.0
2751	Commercial printing, letterpress	51.1	51.3	56.9	55.3	55.3
2752	Commercial printing, lithographic	53.8	54.5	60.6	60.1	61.2
276	Manifold business forms	13.4	13.5	14.7	14.8	14.8
278	Blankbooks and bookbinding	30.1	30.3	32.4	33.0	33.1
279	Printing trade services	7.6	7.6	8.5	8.5	8.3
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	244.6	246.2	261.5	260.7	260.7
281	Industrial inorganic chemicals	20.9	21.0	23.2	23.3	23.4
2819	Industrial inorganic chemicals, nec	14.6	14.7	16.0	15.9	16.1
282	Plastics materials and synthetics	42.2	42.7	44.7	45.0	45.1
2821	Plastics materials and resins	9.5	9.5	10.6	10.7	10.7
2824	Organic fibers, noncellulosic	25.0	25.5	25.9	26.0	26.1
283	Drugs	71.2	71.5	75.5	75.7	75.3
2834	Pharmaceutical preparations	60.6	60.8	64.2	64.5	64.2
284	Soap, cleaners, and toilet goods	50.1	51.0	54.2	52.6	52.6
2841	Soap and other detergents	8.6	8.7	9.3	9.2	8.9
2844	Toilet preparations	30.3	30.8	32.4	31.2	31.3
285	Paints and allied products	10.9	11.0	12.7	12.6	12.5
286	Industrial organic chemicals	23.2	23.2	23.5	23.6	23.7
2861,9	Gum, wood, and industrial organic chemicals, nec	18.7	18.7	19.1	19.2	19.2
287	Agricultural chemicals	8.9	8.8	9.4	9.5	9.6
289	Miscellaneous chemical products	17.2	17.0	18.3	18.4	18.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry—Continued**

[in thousands]

1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	23.6	23.9	24.8	24.8	24.8
291	Petroleum refining .....	19.0	19.2	19.7	19.6	19.6
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	247.0	248.6	271.1	268.5	269.7
301	Tires and inner tubes .....	12.0	11.9	12.3	12.2	12.2
302	Rubber and plastics footwear .....	14.0	14.1	14.2	13.9	13.8
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	6.1	6.1	5.8	5.7	5.8
306	Fabricated rubber products, nec .....	37.9	38.4	40.4	40.5	40.5
307	Miscellaneous plastics products .....	177.0	178.1	198.4	196.2	197.4
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	148.7	150.5	148.5	144.9	144.0
311	Leather tanning and finishing .....	3.0	3.0	3.1	3.1	3.1
314	Footwear, except rubber .....	101.9	102.8	100.5	98.4	97.1
3143	Men's footwear, except athletic .....	40.8	41.0	38.5	37.7	36.8
3144	Women's footwear, except athletic .....	40.9	41.0	42.4	41.9	40.8
316	Luggage .....	8.1	8.7	9.2	8.7	9.0
317	Handbags and personal leather goods .....	21.7	22.0	21.4	21.0	21.3
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,074	1,081	1,165	1,176	1,180
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	52.6	52.8	57.2	57.0	57.1
411	Local and suburban transportation .....	8.8	8.9	10.2	10.3	10.5
412	Taxicabs .....	7.1	7.1	8.0	8.1	8.0
413	Intercity highway transportation .....	4.8	4.5	4.8	4.7	4.6
415	School buses .....	29.7	30.0	31.7	31.4	31.5
42	<b>TRUCKING AND WAREHOUSING</b> .....	128.5	129.5	144.7	140.7	141.4
421,3	Trucking and trucking terminals .....	114.4	115.3	129.1	125.5	126.2
422	Public warehousing .....	14.1	14.2	15.6	15.2	15.2
44	<b>WATER TRANSPORTATION</b> .....	17.1	17.0	18.5	18.7	18.0
45	<b>TRANSPORTATION BY AIR</b> .....	118.3	118.6	125.2	127.2	127.6
451,2	Air transportation .....	112.1	112.2	118.0	120.0	120.1
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	2.0	1.9	2.0	2.0	1.9
47	<b>TRANSPORTATION SERVICES</b> .....	70.3	71.2	76.0	76.1	78.1
48	<b>COMMUNICATION</b> .....	540.2	543.5	585.6	597.4	599.4
481	Telephone communication .....	476.9	479.8	515.3	526.3	528.5
483	Radio and television broadcasting .....	49.4	49.5	54.8	55.4	55.4
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	127.8	128.3	134.8	135.7	136.0
491	Electric services .....	57.3	57.5	60.9	61.5	61.6
492	Gas production and distribution .....	31.5	31.6	33.1	33.2	33.2
493	Combination utility services .....	30.3	30.3	31.3	31.5	31.6
495	Sanitary services .....	4.2	4.4	4.5	4.5	4.6
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	7,932	7,791	8,895	8,389	8,240
50,51	<b>WHOLESALE TRADE</b> .....	1,170	1,174	1,271	1,261	1,258
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	634	637	694	694	693
501	Motor vehicles and automotive equipment .....	83.5	83.5	91.5	91.9	91.4
502	Furniture and home furnishings .....	33.6	33.9	36.1	35.8	35.9
503	Lumber and construction materials .....	26.8	26.8	29.4	29.5	29.9
504	Sporting goods, toys, and hobby goods .....	21.5	21.6	22.5	22.1	22.2
505	Metals and minerals, except petroleum .....	23.5	23.6	26.1	26.1	26.3
506	Electrical goods .....	103.8	103.0	114.6	114.6	114.8
507	Hardware, plumbing, and heating equipment .....	59.0	59.6	65.6	65.6	65.1
508	Machinery, equipment, and supplies .....	235.7	237.8	258.5	259.7	259.8
509	Miscellaneous durable goods .....	46.4	46.9	49.6	48.5	47.7
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	536	537	577	567	565
511	Paper and paper products .....	38.6	38.7	39.6	38.9	38.7
512	Drugs, proprietaries, and sundries .....	56.3	55.6	61.0	60.6	61.0
513	Apparel, piece goods, and notions .....	72.0	72.4	76.2	76.2	77.2
514	Groceries and related products .....	139.8	141.3	144.4	139.8	137.7
516	Chemicals and allied products .....	27.6	27.7	29.8	29.7	29.9
517	Petroleum and petroleum products .....	44.8	44.7	47.8	48.0	47.4
518	Beer, wine, and distilled beverages .....	19.0	18.7	20.4	20.1	20.2
519	Miscellaneous nondurable goods .....	99.6	99.6	108.1	106.7	107.9

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry—Continued**

[In thousands]

1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
52-59	<b>RETAIL TRADE</b> .....	6,762	6,617	7,264	7,128	6,982
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	135.3	135.6	150.8	143.2	145.0
521	Lumber and other building materials .....	54.4	54.2	59.2	57.7	57.3
525	Hardware stores .....	47.3	46.7	53.8	50.8	50.3
53	<b>GENERAL MERCHANDISE STORES</b> .....	1,604.2	1,498.7	1,829.8	1,628.1	1,508.6
531	Department stores .....	1,288.2	1,197.6	1,464.0	1,301.0	1,198.8
533	Variety stores .....	225.7	216.1	254.0	227.8	215.0
539	Misc. general merchandise stores .....	90.3	85.0	111.8	99.3	94.8
54	<b>FOOD STORES</b> .....	856.6	865.0	951.1	925.2	924.3
541	Grocery stores .....	726.0	723.4	795.1	781.6	779.8
542	Meat markets and freezer provisioners .....	13.5	13.6	14.7	14.7	14.9
546	Retail bakeries .....	68.9	68.7	72.2	69.2	68.2
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	284.3	281.2	309.7	306.0	307.1
551.2	New and used car dealers .....	113.8	114.1	123.3	124.5	124.8
553	Auto and home supply stores .....	43.5	40.5	47.4	45.5	43.6
554	Gasoline service stations .....	113.1	112.6	125.1	122.5	124.7
56	<b>APPAREL AND ACCESSORY STORES</b> .....	600.6	571.2	702.8	619.5	592.8
561	Men's and boys' clothing and furnishings .....	61.9	58.4	75.7	64.3	59.8
562	Women's ready-to-wear stores .....	284.6	272.0	330.0	293.2	284.0
565	Family clothing stores .....	117.8	110.5	144.7	121.9	114.8
566	Shoe stores .....	69.0	65.4	77.5	70.9	68.5
57	<b>FURNITURE AND HOME FURNISHING STORES</b> .....	182.3	179.9	196.8	192.4	190.9
571	Furniture and home furnishings .....	122.1	121.3	128.4	125.8	124.3
572	Household appliance stores .....	23.3	23.5	25.8	25.3	25.3
573	Radio, television, and music stores .....	36.9	35.1	42.6	41.3	41.3
58	<b>EATING AND DRINKING PLACES</b> .....	2,187.0	2,194.9	2,433.6	2,348.9	2,364.9
59	<b>MISCELLANEOUS RETAIL</b> .....	902.5	890.2	1,049.7	964.5	948.0
591	Drug stores and proprietary stores .....	285.7	280.1	322.4	314.5	306.3
592	Liquor stores .....	24.0	23.6	32.1	28.9	29.8
594	Miscellaneous shopping goods stores .....	293.6	285.8	358.2	304.6	297.5
596	Nonstore retailers .....	151.8	146.3	173.3	159.5	151.6
598	Fuel and ice dealers .....	22.6	22.8	22.7	23.4	23.4
599	Retail stores, nec .....	106.8	113.4	119.1	111.8	118.3
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,584	2,605	2,775	2,773	2,784
60	<b>BANKING</b> .....	949.7	953.8	1,011.8	1,013.4	1,017.8
602	Commercial and stock savings banks .....	873.5	877.6	930.8	931.8	935.8
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	307.7	309.9	334.5	333.5	336.0
612	Savings and loan associations .....	148.3	149.0	162.0	162.6	163.3
614	Personal credit institutions .....	106.5	107.7	116.5	114.6	116.2
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> .....	68.9	69.2	75.8	75.8	76.6
621	Security brokers and dealers .....	55.4	55.8	61.1	61.0	61.7
63	<b>INSURANCE CARRIERS</b> .....	679.8	684.5	724.9	725.2	730.5
631	Life insurance .....	268.1	269.2	274.4	273.4	275.2
632	Medical service and health insurance .....	98.3	98.6	102.7	102.5	103.2
633	Fire, marine, and casualty insurance .....	267.4	270.2	297.8	299.7	302.2
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	228.3	232.3	247.7	248.8	246.6
65	<b>REAL ESTATE</b> .....	285.5	291.2	310.3	306.6	306.5
651	Real estate operators and lessors .....	123.7	126.9	134.5	134.0	131.2
653	Real estate agents and managers .....	119.4	121.5	129.9	128.3	130.6
655	Subdividers and developers .....	26.3	26.5	28.0	26.8	27.0
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	18.0	18.1	18.6	18.7	18.9
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b> .....	46.1	46.4	51.1	50.6	51.4
-	<b>SERVICES</b> .....	8,877	8,963	9,477	9,396	9,487
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	460.9	470.1	483.8	470.7	475.4
701	Hotels, motels, and tourist courts .....	443.8	452.3	467.1	453.6	458.4

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls by industry — Continued**

[In thousands]

1972 SIC Code	Industry	Jan. 1978	Feb. 1978	Dec. 1978	Jan. 1979	Feb. 1979
72	<b>PERSONAL SERVICES</b> .....	591.9	591.6	609.8	600.7	606.4
721	Laundry, cleaning, and garment services .....	219.0	216.3	221.5	219.7	217.5
723	Beauty shops .....	246.7	247.1	253.8	250.7	250.3
726	Funeral service and crematories .....	17.6	18.2	18.5	18.8	18.6
73	<b>BUSINESS SERVICES</b> .....	994.3	1,002.2	1,146.8	1,128.8	1,121.4
731	Advertising .....	58.5	59.7	66.9	63.0	68.0
732	Credit reporting and collection .....	61.4	62.3	65.3	63.9	64.0
733	Mailing, reproduction, stenographic .....	46.2	47.7	51.0	50.4	49.5
734	Services to buildings .....	149.4	149.9	165.0	167.8	165.2
736	Personnel supply services .....	209.1	206.5	257.9	250.7	238.6
737	Computer and data processing services .....	94.0	95.2	107.4	109.9	111.1
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	80.7	80.6	86.9	85.5	86.8
753	Automotive repair shops .....	35.8	35.4	37.5	37.1	37.9
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	44.5	44.0	50.5	50.0	49.9
78	<b>MOTION PICTURES</b> .....	74.9	74.6	80.9	78.5	77.1
781	Motion picture production and services .....	22.3	22.4	26.0	24.3	24.5
783	Motion picture theaters .....	47.1	46.7	49.4	48.7	47.1
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	218.3	225.2	241.9	229.2	234.6
80	<b>HEALTH SERVICES</b> .....	3,781.3	3,791.3	3,944.8	3,955.2	3,970.6
801	Offices of physicians .....	519.9	522.4	545.5	544.4	547.5
802	Offices of dentists .....	245.0	243.5	253.1	252.5	252.3
806	Nursing and personal care facilities .....	776.1	776.5	822.2	826.9	826.9
806	Hospitals .....	2,011.5	2,019.4	2,079.3	2,084.6	2,096.4
81	<b>LEGAL SERVICES</b> .....	289.8	292.0	311.6	312.8	315.8
82	<b>EDUCATIONAL SERVICES</b> .....	533.0	562.8	547.8	522.8	552.3
821	Elementary and secondary schools .....	148.2	152.9	148.9	148.2	149.9
822	Colleges and universities .....	328.8	353.1	340.5	316.3	342.7
83	<b>SOCIAL SERVICES</b> .....	647.2	658.0	727.2	720.6	734.1
89	<b>MISCELLANEOUS SERVICES</b> .....	243.6	251.4	268.0	272.4	277.5
891	Engineering and architectural services .....	82.8	83.7	93.8	93.4	93.4
893	Accounting, auditing, and bookkeeping .....	111.9	118.3	120.4	124.6	129.1
-	<b>GOVERNMENT</b> .....	7,161	7,295	7,379	7,298	7,428
-	<b>FEDERAL GOVERNMENT</b> .....	849	855	858	856	859
-	<b>STATE AND LOCAL GOVERNMENT</b> .....	6,312	6,440	6,521	6,442	6,569
-	State government .....	1,509.3	1,562.7	1,559.1	1,507.6	1,552.6
-	Hospitals .....	323.8	323.4	325.7	328.6	327.2
-	State education .....	607.7	649.0	666.9	611.2	655.3
-	General administration including executive, legislative, and judicial functions .....	396.5	408.4	382.4	382.0	384.1
-	Local government .....	4,802.9	4,877.5	4,961.8	4,934.1	5,016.1
-	Transportation and public utilities .....	69.8	70.8	81.9	83.4	84.7
-	Hospitals .....	380.4	382.3	400.2	402.7	404.1
-	Local education .....	3,299.3	3,359.1	3,416.6	3,390.2	3,463.4
-	General administration including executive, legislative, and judicial functions .....	872.1	881.9	881.0	874.3	878.3

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. P	Apr. P
<b>TOTAL</b> .....	85,418	85,618	85,996	86,033	86,149	86,163	86,573	87,036	87,281	87,524	87,818	88,240	88,312
<b>GOODS-PRODUCING</b> .....	25,313	25,341	25,473	25,501	25,463	25,471	25,670	25,872	26,030	26,111	26,199	26,413	26,397
<b>MINING</b> .....	867	869	879	882	887	887	893	903	904	905	919	921	922
<b>CONSTRUCTION</b> .....	4,164	4,175	4,278	4,317	4,298	4,298	4,341	4,368	4,397	4,381	4,385	4,532	4,534
<b>MANUFACTURING</b> .....	20,282	20,297	20,316	20,302	20,278	20,286	20,436	20,601	20,729	20,825	20,895	20,960	20,941
<b>DURABLE GOODS</b> .....	12,076	12,093	12,109	12,138	12,146	12,166	12,305	12,410	12,491	12,562	12,647	12,697	12,682
Lumber and wood products .....	751	745	747	743	743	744	748	759	765	770	773	766	756
Furniture and fixtures .....	491	489	486	485	481	480	484	487	491	494	493	490	489
Stone, clay, and glass products .....	699	700	701	698	692	692	696	701	707	706	709	713	711
Primary metal industries .....	1,192	1,197	1,197	1,199	1,205	1,214	1,220	1,235	1,240	1,241	1,251	1,254	1,255
Fabricated metal products .....	1,646	1,652	1,645	1,643	1,646	1,650	1,667	1,684	1,697	1,706	1,715	1,712	1,715
Machinery, except electrical .....	2,309	2,311	2,332	2,345	2,351	2,358	2,391	2,404	2,425	2,447	2,465	2,481	2,496
Electric and electronic equipment .....	1,951	1,952	1,962	1,977	1,975	1,972	1,987	2,001	2,011	2,027	2,042	2,062	2,063
Transportation equipment .....	1,936	1,942	1,929	1,937	1,941	1,943	1,991	2,010	2,021	2,031	2,055	2,070	2,049
Instruments and related products .....	644	649	654	660	661	662	665	671	676	681	686	690	694
Miscellaneous manufacturing ind. ....	457	456	456	451	451	451	456	458	458	459	458	459	454
<b>NONDURABLE GOODS</b> .....	8,206	8,204	8,207	8,164	8,132	8,120	8,131	8,191	8,238	8,263	8,248	8,263	8,259
Food and kindred products .....	1,715	1,701	1,702	1,688	1,670	1,665	1,667	1,693	1,711	1,716	1,708	1,716	1,701
Tobacco manufactures .....	74	75	76	73	69	70	71	71	72	72	71	73	73
Textile mill products .....	911	913	908	909	903	907	907	910	910	912	911	909	901
Apparel and other textile products .....	1,330	1,326	1,325	1,307	1,309	1,309	1,307	1,307	1,312	1,318	1,304	1,299	1,310
Paper and allied products .....	706	709	709	710	698	697	692	700	705	708	712	716	716
Printing and publishing .....	1,174	1,180	1,186	1,187	1,188	1,178	1,185	1,198	1,203	1,209	1,214	1,219	1,220
Chemicals and allied products .....	1,085	1,093	1,091	1,091	1,089	1,088	1,089	1,093	1,097	1,099	1,098	1,100	1,108
Petroleum and coal products .....	210	207	209	207	209	209	210	210	211	211	212	214	215
Rubber and misc. plastic products .....	748	747	749	749	746	744	752	761	771	773	777	778	776
Leather and leather products .....	253	253	252	243	251	253	251	248	246	245	241	239	239
<b>SERVICE-PRODUCING</b> .....	60,105	60,277	60,523	60,532	60,686	60,692	60,903	61,164	61,251	61,413	61,619	61,827	61,915
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,847	4,847	4,881	4,827	4,846	4,855	4,922	4,947	4,697	4,974	5,001	5,024	4,958
<b>WHOLESALE AND RETAIL TRADE</b> ..	19,252	19,335	19,412	19,469	19,523	19,546	19,632	19,701	19,697	19,817	19,883	19,949	19,992
<b>WHOLESALE TRADE</b> .....	4,872	4,885	4,905	4,901	4,905	4,917	4,945	4,968	4,995	5,020	5,035	5,056	5,078
<b>RETAIL TRADE</b> .....	14,380	14,450	14,507	14,568	14,618	14,629	14,687	14,733	14,702	14,797	14,848	14,893	14,914
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,623	4,637	4,670	4,690	4,707	4,719	4,737	4,774	4,789	4,809	4,829	4,842	4,860
<b>SERVICES</b> .....	15,866	15,896	15,963	15,989	16,074	16,127	16,169	16,270	16,327	16,352	16,438	16,512	16,569
<b>GOVERNMENT</b> .....	15,517	15,562	15,597	15,557	15,536	15,445	15,443	15,472	15,471	15,461	15,468	15,500	15,536
<b>FEDERAL</b> .....	2,745	2,753	2,772	2,765	2,765	2,752	2,760	2,757	2,734	2,755	2,755	2,754	2,755
<b>STATE AND LOCAL</b> .....	12,772	12,809	12,825	12,792	12,771	12,693	12,683	12,715	12,737	12,706	12,713	12,746	12,781

P=preliminary.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1978											1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>TOTAL</b> .....	34,313	34,531	34,755	34,921	35,077	35,099	35,170	35,256	35,381	35,622	35,758	35,953	36,069
<b>GOODS-PRODUCING</b> .....	6,458	6,510	6,545	6,568	6,592	6,584	6,587	6,594	6,645	6,703	6,754	6,803	6,815
<b>MINING</b> .....	68	68	73	73	75	77	77	78	79	80	81	82	82
<b>CONSTRUCTION</b> .....	320	326	328	329	334	337	338	377	339	339	340	344	350
<b>MANUFACTURING</b> .....	6,070	6,116	6,114	6,166	6,183	6,170	6,172	6,179	6,227	6,284	6,333	6,377	6,383
<b>DURABLE GOODS</b> .....	2,794	2,819	2,831	2,848	2,862	2,870	2,875	2,887	2,924	2,954	2,982	3,005	3,033
Lumber and wood products .....	105	105	105	106	107	106	106	106	108	110	111	112	103
Furnitures and fixtures .....	140	141	141	142	141	142	141	141	142	143	144	146	146
Stone, clay, and glass products .....	130	130	130	130	129	129	130	130	130	131	133	132	133
Primary metal industries .....	114	115	115	117	120	121	122	124	125	126	128	129	130
Fabricated metal products .....	332	334	336	339	339	336	337	338	343	346	350	353	355
Machinery, except electrical .....	414	419	426	429	433	437	437	441	448	450	457	461	466
Electric and electronic equipment .....	807	813	813	815	818	823	823	821	831	838	845	852	861
Transportation equipment .....	276	281	280	284	285	286	286	291	300	308	311	314	321
Instruments and related products .....	266	268	271	273	277	279	281	282	282	285	287	290	293
Miscellaneous manufacturing ind. ....	210	213	214	213	213	211	212	213	215	217	216	216	215
<b>NONDURABLE GOODS</b> .....	3,276	3,297	3,313	3,318	3,321	3,300	3,297	3,292	3,303	3,330	3,351	3,372	3,350
Food and kindred products .....	482	484	485	480	485	482	469	467	417	485	495	501	495
Tobacco manufactures .....	27	28	27	28	27	27	24	25	26	26	27	27	26
Textile mill products .....	430	431	429	430	429	430	428	429	430	430	431	431	430
Apparel and other textile products .....	1,065	1,069	1,078	1,076	1,074	1,059	1,064	1,064	1,061	1,061	1,064	1,070	1,057
Paper and allied products .....	156	157	159	161	160	159	159	158	157	159	160	162	162
Printing and publishing .....	440	446	447	451	452	452	456	455	459	464	466	472	473
Chemicals and allied products .....	249	252	253	256	256	258	257	257	258	261	263	265	264
Petroleum and coal products .....	24	24	25	25	25	25	25	25	25	25	25	25	25
Rubber and misc. plastics products .....	251	254	257	258	260	260	262	258	262	268	271	271	272
Leather and leather products .....	152	152	153	153	153	148	153	154	154	151	149	148	146
<b>SERVICE-PRODUCING</b> .....	27,855	28,021	28,210	28,353	28,485	28,515	28,583	28,662	28,736	28,919	29,004	29,150	29,254
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,086	1,094	1,104	1,102	1,115	1,117	1,127	1,131	1,145	1,150	1,158	1,177	1,186
<b>WHOLESALE AND RETAIL TRADE</b> ..	8,050	8,098	8,138	8,188	8,225	8,258	8,303	8,322	8,354	8,389	8,372	8,467	8,511
<b>WHOLESALE TRADE</b> .....	1,184	1,196	1,207	1,210	1,217	1,215	1,216	1,222	1,242	1,250	1,260	1,267	1,268
<b>RETAIL TRADE</b> .....	6,866	6,902	6,931	6,978	7,008	7,043	7,087	7,100	7,112	7,139	7,112	7,200	1,243
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,618	2,631	2,646	2,658	2,679	2,696	2,709	2,720	2,742	2,764	2,778	2,793	2,798
<b>SERVICES</b> .....	9,035	9,109	9,144	9,176	9,220	9,260	9,315	9,333	9,354	9,440	9,506	9,529	9,564
<b>GOVERNMENT</b> .....	7,066	7,089	7,178	7,229	7,246	7,184	7,129	7,156	7,141	7,176	7,190	7,184	7,195
<b>FEDERAL</b> .....	856	858	863	882	874	879	880	877	878	874	859	862	860
<b>STATE AND LOCAL</b> .....	6,210	6,231	6,315	6,347	6,372	6,305	6,249	6,279	6,263	6,302	6,331	6,322	6,335

<sup>1</sup> The unadjusted data are shown because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED EMPLOYMENT**

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

(In thousands)

Industry division and group	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	57,263	57,428	57,653	57,710	57,771	57,861	58,151	58,576	58,780	58,914	59,157	59,508	59,500
<b>GOODS-PRODUCING</b> .....	18,541	18,565	18,660	18,675	18,619	18,629	18,795	18,974	19,114	19,151	19,214	19,407	19,380
<b>MINING</b> .....	655	659	663	667	668	671	675	683	682	687	694	692	690
<b>CONSTRUCTION</b> .....	3,288	3,303	3,401	3,439	3,419	3,422	3,465	3,488	3,513	3,468	3,473	3,621	3,615
<b>MANUFACTURING</b> .....	14,598	14,603	14,596	14,569	14,532	14,536	14,655	14,803	14,919	14,996	15,047	15,094	15,075
<b>DURABLE GOODS</b> .....	8,676	8,685	8,683	8,694	8,693	8,706	8,816	8,909	8,985	9,034	9,100	9,136	9,115
Lumber and wood products .....	646	639	641	637	636	636	641	649	654	658	660	656	645
Furniture and fixtures .....	405	404	400	398	394	395	398	400	403	405	404	401	400
Stone, clay, and glass products .....	558	557	558	554	549	548	551	556	561	560	562	566	564
Primary metal industries .....	934	939	939	942	947	953	960	976	981	981	991	992	995
Fabricated metal products .....	1,251	1,257	1,250	1,245	1,245	1,248	1,264	1,280	1,291	1,295	1,305	1,302	1,299
Machinery, except electrical .....	1,517	1,516	1,533	1,547	1,544	1,550	1,576	1,581	1,603	1,615	1,630	1,640	1,653
Electric and electronic equipment .....	1,284	1,283	1,284	1,293	1,293	1,290	1,301	1,312	1,320	1,334	1,345	1,362	1,365
Transportation equipment .....	1,337	1,344	1,327	1,328	1,336	1,337	1,370	1,393	1,407	1,415	1,429	1,441	1,421
Instruments and related products .....	394	397	402	407	405	406	408	412	416	420	424	426	428
Miscellaneous manufacturing ind. ....	350	349	349	343	344	343	347	350	349	351	350	350	345
<b>NONDURABLE GOODS</b> .....	5,922	5,918	5,913	5,875	5,839	5,830	5,839	5,894	5,934	5,962	5,947	5,958	5,960
Food and kindred products .....	1,167	1,154	1,152	1,142	1,124	1,122	1,122	1,148	1,166	1,174	1,165	1,175	1,161
Tobacco manufactures .....	59	60	61	58	54	56	57	56	58	58	57	58	58
Textile mill products .....	794	795	792	791	785	790	790	795	793	795	793	791	783
Apparel and other textile products .....	1,144	1,140	1,137	1,121	1,127	1,124	1,123	1,123	1,124	1,131	1,119	1,114	1,124
Paper and allied products .....	530	535	535	535	523	522	519	525	531	534	538	541	541
Printing and publishing .....	664	668	668	669	667	657	663	672	676	681	685	689	690
Chemicals and allied products .....	624	628	628	628	623	624	624	627	630	632	632	631	642
Petroleum and coal products .....	137	135	136	135	136	137	137	138	139	139	140	142	145
Rubber and misc. plastics products .....	586	586	587	587	584	581	589	598	607	609	613	613	612
Leather and leather products .....	217	217	217	209	216	217	215	212	210	209	205	204	204
<b>SERVICE-PRODUCING</b> .....	38,722	38,863	38,993	39,035	39,152	39,232	39,356	39,602	39,666	39,763	39,943	40,101	40,120
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,094	4,086	4,109	4,051	4,066	4,064	4,129	4,150	4,155	4,168	4,186	4,203	4,147
<b>WHOLESALE AND RETAIL TRADE</b> ..	16,952	17,079	17,106	17,165	17,214	17,228	17,288	17,372	17,355	17,430	17,502	17,557	17,576
<b>WHOLESALE TRADE</b> .....	4,020	4,026	4,043	4,040	4,042	4,053	4,075	4,093	4,109	4,127	4,144	4,165	4,176
<b>RETAIL TRADE</b> .....	12,932	13,053	13,063	13,125	13,172	13,175	13,213	13,279	13,246	13,303	13,358	13,392	13,400
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,516	3,523	3,546	3,565	3,579	3,591	3,603	3,635	3,644	3,663	3,672	3,682	3,698
<b>SERVICES</b> .....	14,160	14,175	14,232	14,254	14,293	14,349	14,336	14,445	14,512	14,502	14,583	14,659	14,699

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>p</sup>preliminary.

<sup>c</sup>corrected.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED EMPLOYMENT**

**B-7. Indexes of diffusion: Percent of industries in which employment<sup>1</sup> increased**

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1976				
January.....	78.2	85.8	87.2	85.2
February.....	72.4	84.9	85.8	84.0
March.....	69.5	81.4	82.0	85.2
April.....	70.1	72.4	75.6	78.8
May.....	58.1	67.2	68.3	82.6
June.....	57.8	65.1	71.2	79.9
July.....	58.4	57.8	63.1	78.5
August.....	49.1	64.0	65.1	77.6
September.....	64.8	53.8	66.3	80.2
October.....	47.1	65.1	73.3	80.8
November.....	67.4	64.2	78.8	80.8
December.....	66.6	81.4	81.4	82.6
1977				
January.....	76.2	83.1	88.1	78.8
February.....	66.0	86.3	87.8	80.5
March.....	74.7	81.1	85.2	80.2
April.....	68.0	79.4	79.4	84.6
May.....	64.8	76.2	75.9	84.0
June.....	71.2	68.0	72.1	83.1
July.....	59.3	63.4	69.8	82.6
August.....	51.7	58.7	74.1	83.7
September.....	60.8	62.5	72.1	82.6
October.....	60.5	73.8	77.9	81.1
November.....	73.8	75.3	82.0	81.1
December.....	72.1	79.7	83.1	80.8
1978				
January.....	69.8	80.2	85.5	80.5
February.....	70.3	80.2	79.9	79.1
March.....	70.1	75.9	77.9	77.6
April.....	62.8	67.4	68.9	78.5
May.....	56.4	63.7	67.7	80.5
June.....	67.2	62.5	59.6	82.6
July.....	54.9	57.0	61.3	82.0
August.....	51.7	49.7	74.4	77.6
September.....	57.6	58.7	77.9	75.6p
October.....	70.6	75.6	83.1	70.6p
November.....	80.2	85.5	84.6	
December.....	79.7	87.2	85.8p	
1979				
January.....	74.1	82.3	77.6p	
February.....	65.1	76.2p		
March.....	60.8p	58.1p		
April.....	48.8p			
May.....				
June.....				
July.....				
August.....				
September.....				
October.....				
November.....				
December.....				

<sup>1</sup> Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.  
p = preliminary.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**3-8. Employees on nonagricultural payrolls for States and selected areas by industry division**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
1 ALABAMA	1,295.0	1,343.1	1,346.8	7.3	15.9	15.8	74.9	71.6	73.9	359.7	364.8	364.0
2 Birmingham	335.5	352.6	353.9	2.3	9.0	9.0	23.2	20.7	21.3	65.9	69.6	69.3
3 Huntsville	115.3	118.0	118.3	(1)	(1)	(1)	3.8	3.8	3.9	34.2	35.3	35.3
4 Mobile	143.2	147.0	148.9	(1)	(1)	(1)	11.9	11.7	12.3	30.2	30.0	30.5
5 Montgomery	99.7	105.0	105.6	(1)	(1)	(1)	6.1	6.7	6.9	15.7	15.9	16.0
6 Tuscaloosa	48.2	49.0	49.4	.7	1.0	1.0	2.6	2.6	2.8	9.2	8.9	8.9
7 ALASKA	155.6	153.6	(*)	5.5	5.6	(*)	10.3	7.3	(*)	9.6	8.9	(*)
8 ARIZONA	868.0	939.6	949.5	19.2	20.2	20.4	62.4	76.0	78.2	119.8	135.0	136.3
9 Phoenix	536.7	584.7	590.9	.2	.2	.2	38.5	49.7	51.3	88.8	99.1	100.0
10 Tucson	158.3	170.6	172.7	5.8	6.2	6.3	11.3	13.8	13.9	13.8	17.4	17.8
11 ARKANSAS	715.4	725.4	734.7	4.4	4.7	4.8	35.0	32.6	35.4	214.0	214.9	216.8
12 Fayetteville-Springdale	60.3	60.6	61.4	(1)	(1)	(1)	3.2	2.8	3.1	18.1	18.2	18.2
13 Fort Smith	66.2	66.7	67.7	.6	.8	.8	2.8	2.5	2.9	25.0	24.8	25.3
14 Little Rock-North Little Rock	171.0	173.1	174.2	(1)	(1)	(1)	8.6	8.4	8.8	32.3	30.8	30.9
15 Pine Bluff	31.0	30.6	30.9	(1)	(1)	(1)	1.8	1.5	1.9	6.4	6.3	6.3
16 CALIFORNIA	9,041.4	9,394.9	9,487.6	36.1	37.5	37.8	362.6	396.6	417.8	1,805.6	1,929.7	1,946.6
17 Anaheim-Santa Ana-Garden Grove	729.4	784.0	793.8	2.1	2.3	2.3	43.4	46.0	49.0	189.9	207.9	210.2
18 Bakersfield	117.7	121.6	121.8	9.9	10.2	10.3	6.2	6.9	6.9	8.9	9.4	9.5
19 Fresno	168.5	176.4	178.9	.7	.9	.9	9.9	11.3	11.7	21.1	21.9	23.0
20 Los Angeles-Long Beach	3,390.9	3,522.9	3,545.0	11.3	11.3	11.3	102.5	108.9	110.8	855.9	915.1	919.2
21 Modesto	80.6	84.0	84.8	.1	.1	.1	5.3	5.7	5.9	17.0	17.3	18.0
22 Oxnard-Simi Valley-Ventura	134.8	138.5	140.1	2.4	2.4	2.4	6.6	7.1	7.4	19.9	21.4	21.6
23 Riverside-San Bernardino-Ontario	404.7	424.8	428.0	2.5	2.4	2.4	23.8	27.8	28.3	62.3	66.0	66.3
24 Sacramento	369.4	382.5	386.4	.4	.4	.4	18.2	20.4	21.7	24.7	25.8	26.3
25 Salinas-Seaside-Monterey	82.1	83.2	84.1	.6	.6	.6	3.5	3.5	3.5	9.2	8.8	9.6
26 San Diego	581.8	615.1	620.4	.6	.7	.7	34.2	37.4	38.7	85.1	93.8	94.0
27 San Francisco-Oakland	1,456.9	1,509.6	1,519.7	1.9	2.0	2.0	63.3	66.4	68.5	195.5	201.6	204.1
28 San Jose	570.5	601.1	607.3	.1	.1	.1	20.6	21.0	22.3	185.8	207.9	210.2
29 Santa Barbara-Santa Maria-Lompoc	113.0	114.4	115.4	1.0	1.1	1.1	4.7	4.9	4.9	14.5	14.4	15.2
30 Santa Rosa	80.2	83.0	83.5	.4	.4	.4	4.2	4.5	4.5	11.8	13.3	13.4
31 Stockton	110.7	114.0	115.8	.1	.1	.1	5.2	5.5	5.8	18.0	18.3	18.5
32 Vallejo-Fairfield-Napa	93.6	96.7	97.4	.2	.3	.3	4.0	4.4	4.5	9.3	10.0	10.3
33 COLORADO	1,101.7	1,156.9	1,164.8	25.5	28.6	28.9	65.1	65.4	69.0	160.0	171.2	172.5
34 Denver-Boulder	701.8	733.7	739.0	14.1	16.1	16.3	41.3	41.6	43.5	111.5	117.8	119.0
35 CONNECTICUT	1,305.0	1,362.4	(*)	(2)	(2)	(*)	38.3	40.7	(*)	411.6	432.6	(*)
36 Bridgeport	155.2	160.3	161.7	(2)	(2)	(2)	3.9	4.6	4.8	62.0	64.9	65.1
37 Hartford	360.8	371.9	374.8	(2)	(2)	(2)	9.4	10.5	10.8	86.1	91.5	92.0
38 New Britain	58.6	60.7	61.3	(2)	(2)	(2)	1.6	1.4	1.6	28.2	29.7	29.7
39 New Haven-West Haven	183.1	187.9	188.2	(2)	(2)	(2)	5.0	5.0	5.2	44.6	45.7	45.6
40 Stamford	99.0	102.8	104.1	(2)	(2)	(2)	3.9	4.3	4.5	29.5	30.4	30.6
41 Waterbury	82.9	86.5	87.2	(2)	(2)	(2)	2.2	2.5	2.6	32.1	33.1	33.2
42 DELAWARE	240.2	244.8	246.7	(1)	(1)	(1)	12.6	12.2	13.2	65.4	68.3	68.2
43 Wilmington	213.0	214.9	216.2	(1)	(1)	(1)	13.3	12.2	12.8	61.0	64.1	64.1
44 DISTRICT OF COLUMBIA	582.5	587.3	583.8	(1)	(1)	(1)	13.5	13.5	13.7	14.4	15.1	15.1
45 Washington SMSA	1,422.1	1,442.2	1,453.6	(1)	(1)	(1)	69.6	65.7	72.8	50.8	52.9	53.2
46 FLORIDA	3,127.2	3,252.4	3,273.9	9.3	9.6	9.6	196.0	216.5	218.1	412.8	445.7	448.4
47 Daytona Beach	70.2	73.9	74.9	-	-	-	3.9	4.4	4.2	6.9	8.0	8.0
48 Fort Lauderdale-Hollywood	297.4	305.2	306.9	(1)	(1)	(1)	21.4	24.1	24.0	35.4	37.3	37.4
49 Gainesville	60.5	61.7	62.9	(1)	(1)	(1)	3.0	3.0	3.1	4.1	3.9	3.9
50 Jacksonville	275.2	280.5	281.2	(1)	(1)	(1)	15.2	15.0	14.9	31.4	32.1	32.2
51 Miami	646.1	667.8	669.2	(1)	(1)	(1)	27.4	32.6	34.3	94.9	97.3	97.2
52 Orlando	247.3	258.2	260.6	(1)	(1)	(1)	14.3	16.1	15.7	30.3	33.7	33.8
53 Pensacola	91.7	93.9	94.4	(1)	(1)	(1)	5.8	6.4	6.5	13.2	13.2	13.3
54 Sarasota	62.2	63.7	64.0	(1)	(1)	(1)	6.0	6.7	6.7	5.6	6.7	6.7
55 Tallahassee	67.4	68.5	68.6	(1)	(1)	(1)	3.1	3.3	3.3	2.6	2.4	2.5
56 Tampa-St. Petersburg	478.1	490.9	491.8	(1)	(1)	(1)	29.7	32.9	33.0	66.0	68.2	68.1
57 West Palm Beach-Boca Raton	174.0	184.9	185.0	(1)	(1)	(1)	13.8	16.2	16.5	22.7	25.7	25.4
58 GEORGIA	1,979.6	2,010.7	2,015.2	7.3	7.7	7.7	96.1	96.0	95.8	507.9	513.0	516.0
59 Albany	39.8	43.8	44.0	(1)	(1)	(1)	3.0	4.5	4.8	9.6	11.2	11.3
60 Atlanta	852.9	859.5	863.9	(1)	(1)	(1)	38.7	37.1	36.8	136.4	134.7	137.5
61 Augusta	114.4	120.6	120.3	(1)	(1)	(1)	7.4	6.8	6.6	35.3	34.3	36.2
62 Columbus	80.1	80.4	80.7	(1)	(1)	(1)	4.9	4.8	4.8	20.3	20.2	20.5
63 Macon	88.5	94.2	94.0	(1)	(1)	(1)	4.5	4.3	4.3	15.2	14.0	13.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	
66.0	70.5	71.3	260.2	269.6	270.3	56.5	58.4	58.5	188.5	194.6	195.5	281.9	297.7	297.5	1
26.4	28.6	28.6	80.9	85.0	85.6	22.3	22.7	22.8	61.3	63.5	63.9	53.2	53.5	53.4	2
2.5	2.7	2.7	21.1	21.9	22.1	3.3	3.5	3.5	17.5	17.4	17.5	32.9	33.4	33.3	3
9.6	11.0	11.3	34.7	35.8	36.1	6.6	7.2	7.2	26.2	26.5	26.8	24.0	24.8	24.7	4
4.6	4.9	4.9	23.5	24.4	24.4	5.7	6.0	6.0	17.7	18.7	18.8	26.4	28.4	28.6	5
1.7	1.7	1.7	9.3	9.5	9.5	1.6	1.6	1.7	5.9	6.0	6.0	17.2	17.7	17.8	6
15.6	15.3	(*)	27.3	27.3	(*)	8.5	7.4	(*)	26.5	26.4	(*)	52.3	55.4	(*)	7
43.4	47.2	47.6	210.8	225.7	226.6	48.3	51.5	51.7	168.4	183.0	185.2	195.7	201.0	203.5	8
26.0	28.2	28.4	140.9	151.8	152.4	37.2	39.3	39.4	107.8	116.3	117.3	97.3	100.1	101.9	9
7.8	8.5	8.7	35.8	37.9	38.3	6.9	7.4	7.4	33.5	35.3	35.9	43.4	44.1	44.4	10
39.7	42.2	42.7	152.6	155.5	157.5	29.7	30.4	30.8	102.1	108.2	109.9	137.9	136.9	136.8	11
3.2	3.3	3.3	14.0	14.2	14.4	2.0	2.1	2.2	7.6	8.4	8.6	12.2	11.6	11.6	12
3.3	3.4	3.2	13.7	14.2	14.4	2.0	2.4	2.4	10.6	11.0	11.1	7.9	7.6	7.6	13
11.9	12.3	12.4	39.2	40.4	40.7	12.0	12.0	12.0	30.6	32.7	33.0	36.4	36.5	36.4	14
3.7	3.7	3.7	6.1	6.0	6.0	1.2	1.2	1.2	4.6	4.7	4.7	7.2	7.2	7.1	15
490.7	516.8	521.5	2,057.2	2,186.4	2,200.3	538.5	569.6	574.6	1,907.2	2,042.2	2,067.6	1,823.5	1,716.1	1,721.4	16
22.0	25.2	25.5	173.7	190.6	191.9	45.1	50.1	50.7	144.9	158.3	159.6	108.3	103.6	104.6	17
6.8	7.4	7.4	29.7	31.0	30.7	4.2	4.5	4.5	20.1	20.9	21.1	31.9	31.3	31.4	18
9.2	9.9	9.9	42.8	46.5	46.8	9.2	9.7	9.8	32.5	34.1	34.4	43.1	42.1	42.4	19
185.1	196.5	198.3	764.8	809.8	813.2	208.5	215.5	216.8	753.9	788.7	795.8	508.9	477.1	479.6	20
3.4	3.5	3.5	19.2	21.3	21.1	2.7	2.9	3.0	14.9	16.1	16.1	18.0	17.1	17.1	21
5.8	6.1	6.1	30.7	32.9	33.4	5.8	6.0	6.1	25.2	26.3	26.7	38.4	36.3	36.4	22
20.8	22.2	22.5	96.1	103.2	103.5	16.2	17.2	17.4	83.4	88.1	89.0	99.6	97.9	98.6	23
18.5	20.6	20.7	83.3	88.0	88.9	17.7	19.6	19.8	65.9	71.3	72.1	140.7	136.4	136.5	24
4.7	4.8	4.8	20.1	20.9	21.0	3.8	3.9	3.9	16.8	18.1	18.1	23.4	22.6	22.6	25
25.4	27.0	27.1	133.2	146.3	146.7	32.2	34.6	34.9	127.7	135.5	137.4	143.4	139.8	140.9	26
121.8	126.0	126.7	331.3	353.3	354.3	128.7	135.2	135.7	310.2	332.8	334.8	304.2	292.3	293.6	27
18.9	20.2	20.4	110.3	116.1	116.6	22.8	24.2	24.5	125.8	132.3	133.2	86.2	79.3	80.0	28
4.1	4.3	4.3	28.5	30.0	30.2	4.7	4.9	4.9	28.6	30.0	30.1	26.9	24.8	24.7	29
3.8	4.1	4.1	19.0	20.0	20.1	4.8	5.3	5.3	15.5	16.0	16.2	20.7	19.4	19.5	30
7.2	7.5	8.1	25.3	27.0	27.1	4.5	4.9	4.9	21.9	23.5	23.7	28.5	27.2	27.6	31
3.8	4.1	4.2	18.4	20.0	20.1	3.2	3.5	3.5	16.7	17.4	17.4	38.0	37.0	37.1	32
66.4	71.7	72.8	273.3	287.4	287.8	66.2	70.0	70.6	224.4	239.8	240.6	220.8	222.8	222.8	33
46.2	50.4	50.7	173.7	181.7	182.1	47.0	49.6	50.0	145.1	154.4	155.1	122.9	122.0	122.2	34
56.9	58.1	(*)	271.8	283.4	(*)	92.8	96.8	(*)	251.8	263.2	(*)	181.8	187.6	(*)	35
5.8	5.9	6.0	31.2	31.7	31.9	6.4	6.5	6.5	29.1	29.9	30.5	16.8	16.8	16.9	36
14.6	14.9	15.0	74.8	77.8	78.5	53.3	53.4	53.7	67.9	71.3	72.5	54.8	52.6	52.2	37
1.3	1.4	1.5	9.9	9.9	10.2	1.5	1.6	1.6	9.2	9.6	9.7	6.8	7.0	7.0	38
14.9	15.2	15.2	38.1	39.4	39.7	9.7	10.5	10.5	44.1	45.0	45.2	26.8	27.2	26.9	39
3.5	3.7	3.7	22.8	23.7	23.9	6.8	7.1	7.2	22.9	23.8	24.2	9.6	9.7	10.0	40
3.0	3.0	3.0	15.0	15.4	15.6	3.0	3.1	3.2	16.5	18.0	18.2	11.1	11.4	11.5	41
13.6	12.9	13.0	53.2	53.8	53.9	10.8	11.5	11.4	40.4	41.8	42.0	44.3	44.3	45.0	42
12.8	12.2	12.3	44.0	43.8	43.7	10.2	10.2	10.1	35.5	36.8	37.0	36.2	35.5	36.3	43
25.4	25.7	25.7	63.2	64.8	65.0	33.2	34.0	34.1	157.1	160.6	161.2	275.7	273.6	269.0	44
63.1	64.3	64.6	271.0	278.3	281.8	82.5	86.1	86.6	352.7	361.5	364.7	532.4	533.4	529.9	45
192.4	201.5	200.9	822.4	834.7	839.4	214.6	230.5	233.1	690.2	711.3	719.5	589.5	602.6	604.9	46
2.6	2.8	2.8	20.4	20.2	20.8	3.8	4.1	4.2	19.3	20.1	20.6	13.3	14.3	14.3	47
14.3	15.1	15.2	86.8	87.7	87.3	22.9	24.7	25.3	73.1	73.3	74.5	43.5	43.0	43.2	48
1.4	1.5	1.5	13.0	12.0	12.7	2.4	2.6	2.7	7.9	8.2	8.3	28.7	30.5	30.7	49
22.1	22.9	23.0	71.5	72.5	72.7	27.3	27.9	27.9	53.6	54.6	54.9	54.1	55.5	55.6	50
61.4	66.9	66.8	167.3	168.5	167.7	46.6	48.0	48.4	157.0	162.3	161.9	91.5	92.2	92.9	51
11.9	13.0	13.0	70.2	71.1	72.1	15.9	17.4	17.6	64.2	65.4	67.0	40.5	41.5	41.4	52
4.5	4.9	4.9	21.3	22.2	22.1	4.0	4.1	4.1	17.5	17.3	17.7	25.4	25.8	25.8	53
2.7	2.7	2.7	18.6	18.6	18.7	4.8	4.8	4.8	15.1	14.7	14.8	9.4	9.5	9.6	54
2.2	2.2	2.2	13.4	13.6	13.5	3.1	3.1	3.1	9.1	9.6	9.7	33.9	34.3	34.3	55
27.4	28.2	28.3	134.6	136.3	136.5	33.4	35.5	36.1	108.6	111.5	111.6	78.4	78.3	78.2	56
7.4	7.9	7.9	45.3	47.5	47.7	13.1	14.4	14.3	42.0	42.6	42.6	29.7	30.6	30.6	57
124.6	127.4	126.9	454.6	460.8	460.5	101.1	104.0	104.5	296.2	300.2	302.6	391.8	401.5	401.2	58
1.7	1.8	1.8	9.0	9.5	9.3	1.7	1.7	1.7	5.0	4.8	4.9	9.8	10.2	10.2	59
74.6	77.0	76.8	237.7	238.8	238.5	58.6	60.1	60.7	158.3	157.8	159.7	148.7	154.1	153.9	60
4.0	4.2	4.2	20.3	24.8	24.9	4.2	4.3	4.3	14.5	15.6	15.6	28.8	28.8	28.6	61
3.3	3.3	3.3	17.1	17.4	17.2	5.0	5.3	5.3	10.6	10.3	10.4	18.9	19.1	19.1	62
4.5	4.5	4.5	19.4	19.8	19.7	5.8	5.8	5.8	15.0	14.9	14.9	30.1	30.9	31.0	63

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>GEORGIA—Continued</b>												
1 Savannah	82.9	84.6	84.3	(1)	(1)	(1)	5.9	5.9	6.0	16.7	16.8	16.7
<b>HAWAII</b>												
2 Honolulu	371.9	380.1	380.6	(1)	(1)	(1)	19.7	21.9	21.9	22.3	23.3	23.1
3 Honolulu	308.4	314.6	315.1	(1)	(1)	(1)	16.5	18.6	18.5	16.2	16.9	16.9
<b>IDAHO</b>												
4 Boise City	310.6	331.1	334.7	3.7	3.7	3.8	17.3	17.1	17.6	55.1	56.5	57.0
5 Boise City	76.0	82.9	83.4	(1)	(1)	(1)	5.8	6.1	6.3	8.6	9.3	9.5
<b>ILLINOIS</b>												
6 Bloomington-Normal	4,627.2	4,730.3	4,756.6	14.0	27.3	27.7	148.8	149.1	151.6	1,231.8	1,239.8	1,242.4
7 Champaign-Urbana-Rantoul	47.7	48.7	48.3	(2)	(2)	(2)	1.1	1.0	1.0	6.5	7.0	6.4
8 Chicago-Gary	67.5	71.4	72.0	(2)	(2)	(2)	2.3	2.4	2.5	7.5	7.9	7.9
9 Chicago SMSA	3,323.4	3,411.6	3,429.4	4.9	4.8	5.3	117.4	127.2	128.4	927.3	946.3	927.3
10 Davenport-Rock Island-Moline	3,075.2	3,156.0	3,172.3	4.7	4.7	5.2	102.9	112.8	113.5	829.3	841.7	842.9
11 Decatur	155.4	160.2	161.4	(2)	(2)	(2)	6.7	6.4	6.6	46.1	49.5	49.9
12 Kankakee	53.3	54.4	54.7	(2)	(2)	(2)	2.6	2.7	2.9	19.0	19.4	19.4
13 Peoria	33.6	33.4	33.6	(2)	(2)	(2)	1.0	.9	.9	10.3	10.2	10.0
14 Rockford	146.0	148.9	150.1	(2)	(2)	(2)	7.2	7.9	8.2	51.0	51.3	51.8
15 Springfield	117.0	120.5	121.1	(2)	(2)	(2)	2.8	2.6	2.7	53.3	56.5	56.6
16 Springfield	82.6	81.7	82.4	(2)	(2)	(2)	3.3	3.1	3.3	8.9	7.9	7.8
<b>INDIANA</b>												
17 Anderson	2,131.6	2,186.0	2,211.7	5.7	9.3	9.6	81.2	88.6	96.2	721.9	744.4	749.3
18 Evansville	52.2	51.8	52.4	(1)	(1)	(1)	1.1	.8	.9	25.9	25.5	25.6
19 Fort Wayne	122.0	121.9	123.3	1.4	2.4	2.4	6.7	6.7	7.0	39.5	38.3	38.8
20 Gary-Hammond-East Chicago	170.1	172.8	174.3	(1)	(1)	(1)	6.3	6.3	6.5	59.7	61.6	61.8
21 Indianapolis	248.0	255.6	257.1	(1)	(1)	(1)	14.5	14.4	14.9	98.0	104.6	104.9
22 Lafayette-West Lafayette	497.7	505.8	509.7	(1)	(1)	(1)	16.2	13.9	15.4	128.3	131.4	131.5
23 Muncie	54.1	58.4	58.0	(1)	(1)	(1)	1.4	1.5	1.6	11.5	12.6	12.5
24 South Bend	48.5	49.0	49.4	(1)	(1)	(1)	1.5	1.5	1.6	14.5	14.5	14.6
25 Terre Haute	110.8	111.9	112.9	(1)	(1)	(1)	4.3	4.5	4.6	34.3	34.2	34.3
26 Terre Haute	60.1	63.2	62.8	.4	1.4	1.5	2.0	1.8	2.1	16.1	17.2	16.6
<b>IOWA</b>												
27 Cedar Rapids	1,087.6	1,103.4	1,114.9	2.1	1.8	2.0	48.0	45.9	48.6	247.2	256.8	257.9
28 Des Moines	81.2	84.6	84.8	(1)	(1)	(1)	3.6	3.4	3.7	28.4	29.9	29.9
29 Dubuque	177.6	179.2	179.7	(1)	(1)	(1)	7.5	7.4	7.3	25.7	26.2	26.4
30 Sioux City	44.1	44.3	44.1	(1)	(1)	(1)	1.7	1.7	1.8	16.5	17.3	16.8
31 Waterloo-Cedar Falls	50.3	50.2	50.3	(1)	(1)	(1)	3.5	2.9	3.0	9.9	9.6	9.6
32 Waterloo-Cedar Falls	65.0	66.8	67.3	(1)	(1)	(1)	2.8	2.5	2.4	22.3	22.7	22.9
<b>KANSAS</b>												
33 Lawrence	897.6	922.7	936.1	12.0	12.3	12.4	41.8	39.5	45.2	181.0	196.6	199.3
34 Topeka	26.5	27.4	27.7	(2)	(2)	(2)	1.2	1.1	1.2	4.2	4.4	4.6
35 Wichita	83.6	84.8	86.0	.2	.2	.2	3.2	3.1	3.4	11.6	11.9	12.2
36 Wichita	186.3	197.7	200.6	2.1	2.0	2.0	8.6	9.2	10.2	56.3	64.8	65.6
<b>KENTUCKY</b>												
37 Lexington-Fayette	1,158.8	1,232.6	1,255.1	36.2	57.6	57.7	52.7	57.6	67.0	287.9	292.7	291.4
38 Louisville	136.4	144.4	146.7	(1)	(1)	(1)	6.1	6.3	7.0	29.9	31.1	31.2
39 Owensboro	382.9	400.2	402.8	(1)	(1)	(1)	16.0	17.6	19.3	109.7	110.7	108.4
40 Owensboro	29.1	31.0	31.5	.7	.7	.7	1.9	2.1	2.2	6.7	6.9	7.1
<b>LOUISIANA</b>												
41 Alexandria	1,412.2	1,430.7	1,435.6	71.3	78.3	77.6	118.4	118.4	120.8	204.2	209.1	208.5
42 Baton Rouge	49.9	51.0	51.1	(1)	(1)	(1)	2.9	3.0	3.0	6.2	6.3	6.3
43 Lafayette	186.2	188.9	188.4	.9	.9	.9	23.4	24.9	25.1	24.6	25.2	25.2
44 Lake Charles	61.0	64.8	65.2	11.0	11.8	11.7	4.7	5.3	5.7	3.4	3.6	3.7
45 Monroe	58.3	58.4	58.6	1.8	1.9	1.9	6.0	5.3	5.3	12.0	12.4	12.6
46 New Orleans	48.6	49.7	49.7	.4	.3	.3	4.6	4.5	4.4	8.3	8.9	8.9
47 Shreveport	473.6	476.7	479.3	15.3	16.0	16.0	28.6	28.3	28.5	50.8	52.1	52.1
48 Shreveport	138.3	142.1	141.8	5.0	5.4	5.5	8.9	10.0	10.2	28.2	28.7	28.0
<b>MAINE</b>												
49 Lewiston-Auburn	384.8	398.1	399.1	(1)	(1)	(1)	14.8	14.4	14.4	108.2	113.0	112.1
50 Portland	33.0	34.1	34.2	(1)	(1)	(1)	1.1	1.1	1.1	12.0	12.3	12.2
51 Portland	81.7	86.4	86.6	(1)	(1)	(1)	3.4	3.5	3.4	16.0	17.0	17.2
<b>MARYLAND</b>												
52 Baltimore	1,554.9	1,572.8	1,596.7	(1)	(1)	(1)	88.6	88.0	97.5	236.5	242.2	243.7
53 Baltimore	860.8	874.4	883.9	(1)	(1)	(1)	41.4	43.9	46.7	162.4	163.3	164.0
<b>MASSACHUSETTS</b>												
54 Boston	2,438.9	2,514.1	2,527.8	(1)	(1)	(1)	59.3	61.4	64.1	640.9	658.4	657.9
55 Brockton	1,333.3	1,362.1	1,369.1	(1)	(1)	(1)	34.9	35.1	35.7	275.3	285.0	285.6
56 Fall River	55.1	58.0	58.4	-	-	-	1.4	1.4	1.4	12.0	12.4	12.5
57 Lawrence-Haverhill	55.4	56.6	57.1	(1)	(1)	(1)	1.1	.9	1.1	21.1	21.4	21.5
58 Lowell	104.5	105.5	107.1	(1)	(1)	(1)	1.8	1.8	2.0	39.6	38.7	38.6
59 New Bedford	67.0	69.1	69.7	(1)	(1)	(1)	1.9	1.7	1.9	22.7	24.1	24.2
60 Springfield-Chicopee-Holyoke	60.8	62.0	62.2	(1)	(1)	(1)	1.4	1.6	1.8	25.0	26.2	25.7
61 Springfield-Chicopee-Holyoke	221.8	226.6	226.0	(1)	(1)	(1)	4.3	4.2	4.3	65.2	67.0	65.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	
8.0	9.9	9.7	18.8	19.2	19.1	3.9	4.1	4.1	13.9	13.5	13.5	15.7	15.1	15.2	1
28.4	28.8	28.7	96.2	96.3	96.2	28.3	29.1	29.2	88.8	92.3	92.7	88.2	88.4	88.8	2
23.3	23.8	23.8	80.5	80.1	80.0	24.7	25.5	25.6	72.1	74.5	74.7	75.1	75.2	75.6	3
18.7	20.1	20.3	79.4	82.8	83.7	19.1	22.5	22.7	55.6	58.6	59.1	67.7	69.8	70.5	4
4.6	4.6	4.6	20.0	21.6	21.4	7.1	9.2	9.2	13.0	14.1	14.2	16.9	18.0	18.2	5
283.2	291.6	293.5	1,068.8	1,081.2	1,085.9	279.5	290.0	291.2	873.1	900.9	907.3	728.0	750.5	756.9	6
3.0	3.1	3.1	11.0	11.4	11.4	7.2	7.4	7.4	7.0	7.1	7.2	11.8	11.9	11.8	7
2.4	2.5	2.6	15.4	16.2	16.4	2.2	2.3	2.3	9.3	9.4	9.5	28.5	30.5	30.8	8
204.0	212.0	213.0	719.9	750.2	759.2	209.9	216.4	217.0	630.9	659.6	661.3	475.5	494.3	496.9	9
191.7	198.4	199.3	695.8	702.1	710.5	201.3	207.6	208.1	605.4	625.3	627.3	444.1	463.3	465.7	10
6.7	7.7	7.8	40.3	41.0	41.4	6.5	6.6	6.6	23.4	23.1	23.1	25.7	25.9	26.0	11
4.3	4.6	4.7	10.9	11.1	11.0	2.5	2.6	2.6	8.4	8.6	8.7	5.6	5.5	5.5	12
1.4	1.4	1.4	7.7	7.7	7.8	1.0	1.0	1.0	6.4	6.3	6.4	5.8	6.0	6.0	13
7.5	7.7	7.7	34.7	35.0	35.3	7.2	7.5	7.5	25.7	26.5	26.6	12.7	13.0	13.0	14
5.3	5.2	5.2	24.0	24.8	24.2	3.9	4.0	4.1	15.5	16.0	16.0	12.2	12.2	12.1	15
4.8	4.7	4.7	18.6	18.8	19.2	6.6	6.7	6.7	15.4	15.8	15.8	24.9	24.8	24.9	16
106.0	108.2	109.7	461.0	466.9	473.4	94.7	98.0	98.1	308.0	312.2	316.9	353.1	358.4	358.5	17
1.4	1.4	1.5	9.9	10.2	10.3	1.6	1.7	1.7	6.7	6.6	6.7	5.6	5.6	5.7	18
6.5	6.7	6.7	28.7	28.8	29.1	4.2	4.2	4.3	22.7	22.7	22.8	12.3	12.1	12.2	19
10.6	10.9	10.9	40.1	39.9	40.7	9.4	9.8	9.7	26.3	26.4	26.8	17.7	17.9	17.9	20
14.3	14.4	14.5	47.7	48.1	48.7	8.6	8.8	8.9	33.5	34.3	34.0	31.4	31.0	31.2	21
29.9	30.3	30.6	120.2	123.5	124.7	34.1	34.7	34.7	80.8	83.7	85.0	88.2	88.3	87.8	22
1.5	1.6	1.6	10.7	11.4	11.3	2.7	2.7	2.8	8.1	8.7	8.8	18.2	19.9	19.4	23
2.1	2.2	2.2	11.0	10.8	11.0	1.5	1.5	1.5	7.0	7.3	7.3	10.9	11.2	11.2	24
5.2	5.3	5.3	26.1	26.7	27.3	5.0	5.1	5.1	22.8	23.0	23.1	13.1	13.1	13.2	25
3.8	3.9	3.9	15.1	15.9	15.9	2.0	2.0	2.0	8.7	8.8	8.7	12.0	12.2	12.1	26
54.9	55.5	56.1	275.8	278.0	282.2	54.0	55.9	56.3	192.8	198.3	199.3	212.9	211.3	212.6	27
3.9	3.9	3.9	17.6	18.3	18.3	4.2	4.3	4.3	14.3	14.9	14.9	9.3	9.9	9.8	28
11.3	11.2	11.3	47.1	46.9	47.0	19.4	20.0	20.0	37.0	37.8	37.8	29.7	29.7	29.8	29
1.7	1.6	1.5	8.9	9.1	9.1	1.3	1.3	1.3	9.8	9.3	9.2	4.2	4.1	4.3	30
3.8	4.0	4.0	13.2	13.2	13.2	2.7	2.7	2.7	10.6	11.0	11.0	6.6	6.7	6.7	31
2.5	2.5	2.5	13.9	14.6	14.7	2.0	1.9	2.0	10.1	10.4	10.0	11.4	12.2	12.2	32
61.8	65.3	65.8	215.0	218.5	220.0	43.8	45.7	46.1	153.3	158.9	160.5	188.9	185.9	186.8	33
1.4	1.4	1.4	5.3	5.6	5.5	.8	.8	.8	3.3	3.3	3.3	10.5	10.8	10.9	34
7.3	7.4	7.5	18.4	18.7	18.9	5.7	5.7	5.7	15.9	16.4	16.6	21.5	21.4	21.5	35
10.1	10.5	10.5	41.8	43.2	43.5	8.9	9.1	9.3	35.6	36.1	36.4	23.1	22.8	23.1	36
64.5	68.7	69.1	247.2	266.4	271.5	47.3	49.4	49.6	191.2	201.5	206.9	231.8	238.7	242.1	37
6.6	7.0	7.1	30.9	31.2	31.6	6.6	7.0	7.0	24.2	26.3	27.1	32.1	35.5	35.7	38
23.7	24.5	24.6	85.0	92.9	94.3	21.1	22.2	22.2	70.4	73.3	73.9	56.4	59.1	60.0	39
2.1	2.2	2.2	7.5	7.9	8.0	1.1	1.2	1.2	4.9	5.7	5.8	4.2	4.3	4.3	40
108.7	110.4	110.7	335.0	339.0	339.7	68.4	71.1	71.2	238.8	244.5	245.6	267.4	259.9	261.5	41
2.4	2.5	2.5	10.9	11.3	11.1	3.1	3.2	3.2	9.2	9.6	9.8	15.2	15.1	15.2	42
9.0	9.6	9.3	39.9	39.0	39.1	10.3	10.8	10.9	28.5	27.7	27.2	49.6	50.8	50.7	43
4.4	4.6	4.5	16.0	16.9	16.9	1.9	2.0	2.1	11.1	11.6	11.5	8.5	9.0	9.1	44
3.1	3.2	3.1	12.9	12.9	13.0	2.4	2.6	2.5	9.5	9.5	9.5	10.6	10.6	10.7	45
2.3	2.5	2.5	12.6	12.6	12.4	3.2	3.3	3.3	7.3	7.9	8.0	9.9	9.7	9.9	46
48.1	48.4	48.9	118.5	119.2	119.3	28.1	28.8	28.8	103.7	106.3	106.8	80.5	77.6	78.9	47
9.4	10.1	10.0	33.9	34.0	34.2	6.4	6.6	6.6	23.0	23.7	23.6	23.5	23.6	23.7	48
17.3	17.7	17.9	81.5	85.7	86.7	15.5	15.8	15.9	66.0	68.7	68.9	81.5	82.8	83.2	49
1.0	1.1	1.1	7.5	7.6	7.8	1.4	1.5	1.5	6.5	6.9	6.9	3.5	3.6	3.6	50
4.9	5.2	5.1	21.9	23.2	23.0	6.7	6.8	6.9	16.3	17.7	17.9	12.5	13.0	13.1	51
82.0	85.3	86.3	366.9	369.0	373.8	83.2	86.1	86.7	309.8	319.9	324.1	387.9	382.3	384.6	52
56.9	60.7	61.5	190.8	188.7	190.5	50.9	52.4	52.8	165.1	171.8	173.3	193.3	193.6	195.1	53
115.7	115.7	116.4	533.7	556.3	560.1	140.0	144.4	145.2	553.2	574.6	581.4	396.1	403.3	402.7	54
67.5	66.9	67.2	294.7	298.7	300.1	97.1	99.7	100.3	360.0	375.4	378.6	203.8	201.3	201.6	55
4.0	3.9	4.0	14.5	15.5	15.4	2.1	2.2	2.2	8.5	8.8	9.0	12.6	13.8	13.8	56
1.9	2.0	2.0	12.3	12.9	13.0	2.7	2.8	2.8	8.4	8.6	8.7	7.9	8.0	8.0	57
4.1	4.2	4.2	21.2	23.5	23.1	3.6	3.7	3.7	14.6	13.6	13.8	19.6	20.0	21.7	58
3.1	3.1	3.1	14.7	14.9	15.2	2.1	2.1	2.1	10.2	10.1	10.1	12.3	13.1	13.1	59
2.5	2.5	2.5	11.6	11.3	11.4	1.8	1.8	1.9	8.4	8.6	8.6	10.1	10.0	10.3	60
9.4	9.8	9.8	44.8	44.3	44.6	11.3	11.6	11.5	40.7	40.9	41.1	46.1	48.8	48.8	61

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8 Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>MASSACHUSETTS—Continued</b>												
1 Worcester	154.4	158.1	159.0	(1)	(1)	(1)	3.2	3.1	3.2	46.4	47.7	48.0
<b>MICHIGAN</b>	3,477.7	3,546.4	3,564.1	13.1	13.1	13.2	119.1	123.5	129.3	1,131.1	1,159.2	1,160.4
2 Ann Arbor	130.0	136.8	137.7	(1)	(1)	(1)	2.4	2.3	2.4	42.2	45.3	45.8
3 Battle Creek	65.5	67.4	67.8	(1)	(1)	(1)	1.3	1.3	1.4	23.3	24.1	24.3
4 Bay City	35.5	37.0	37.0	(1)	(1)	(1)	1.4	1.2	1.3	11.0	11.6	11.6
5 Detroit	1,715.6	1,736.7	1,745.0	1.1	1.1	1.2	58.9	61.8	64.1	579.6	576.5	578.2
6 Flint	197.0	205.3	207.2	(1)	(1)	(1)	5.7	6.7	6.7	85.9	90.4	91.4
7 Grand Rapids	242.3	249.4	251.1	(1)	(1)	(1)	8.9	9.5	9.7	86.0	91.1	91.3
8 Jackson	50.9	53.5	53.6	(1)	(1)	(1)	1.1	1.1	1.1	16.0	17.7	17.6
9 Kalamazoo-Portage	105.5	108.3	108.5	(1)	(1)	(1)	4.1	4.0	4.1	35.3	37.2	37.0
10 Lansing-East Lansing	184.3	192.3	191.3	(1)	(1)	(1)	4.0	4.2	4.3	41.4	45.3	45.3
11 Muskegon-Norton Shores-Musk. Hgts.	59.4	60.9	61.5	(1)	(1)	(1)	2.1	2.5	2.5	22.4	23.0	23.2
12 Saginaw	89.8	94.4	94.3	(1)	(1)	(1)	2.4	2.6	2.7	37.2	38.9	38.8
<b>MINNESOTA</b>	1,627.1	1,687.0	1,699.2	15.1	15.9	16.2	61.2	65.8	68.1	345.4	364.5	367.3
14 Duluth-Superior	57.6	(*)	(*)	(1)	(*)	(*)	2.0	(*)	(*)	8.1	(*)	(*)
15 Minneapolis-St. Paul	993.4	1,029.6	1,037.1	(1)	(1)	(1)	34.8	37.8	39.3	226.2	237.2	239.0
<b>MISSISSIPPI</b>	791.0	826.9	828.8	8.3	9.0	9.1	40.6	46.3	47.4	233.6	235.4	233.4
17 Jackson	135.9	142.7	143.6	1.1	1.1	1.1	6.9	8.7	9.1	18.6	19.0	19.0
<b>MISSOURI</b>	1,898.7	1,912.2	1,935.2	6.8	7.9	8.6	72.9	70.6	76.9	450.0	454.8	456.7
19 Kansas City	612.0	609.5	620.2	.5	.4	.5	24.9	23.6	27.7	123.9	123.1	126.3
20 St. Joseph	36.5	35.9	36.1	(2)	(2)	(2)	1.7	1.5	1.7	9.1	9.3	9.3
21 St. Louis	950.0	957.0	974.0	1.3	2.4	2.5	34.5	35.1	41.3	252.7	255.9	256.0
22 Springfield	80.5	81.3	83.0	(2)	(2)	(2)	3.4	3.2	3.7	18.4	18.3	18.4
<b>MONTANA</b>	265.1	272.1	277.0	6.1	7.3	7.3	13.1	13.3	14.1	24.8	26.9	26.7
24 Billings	43.5	44.2	45.0	(1)	(1)	(1)	2.0	1.8	2.0	3.9	4.2	4.3
25 Great Falls	29.3	29.5	30.3	(1)	(1)	(1)	1.6	1.4	1.6	1.8	1.8	1.8
<b>NEBRASKA</b>	592.6	594.6	602.7	1.5	1.4	1.4	26.8	25.6	27.5	91.1	94.4	95.1
27 Lincoln	96.0	98.2	99.3	-	-	-	3.8	4.0	4.1	13.1	14.0	14.1
28 Omaha	249.3	252.1	256.1	(2)	(2)	(2)	10.3	9.3	9.9	34.7	35.5	36.1
<b>NEVADA</b>	329.9	365.6	371.5	4.5	3.8	3.8	23.7	26.7	28.5	16.8	18.9	19.1
29 Las Vegas	179.9	196.3	199.0	.2	.2	.2	12.6	14.3	15.3	5.9	6.9	6.9
30 Reno	96.5	108.7	111.2	.5	.5	.6	8.1	8.2	8.8	7.7	8.2	8.4
<b>NEW HAMPSHIRE</b>	344.9	362.9	364.1	.3	.3	.3	14.5	16.5	15.9	107.1	111.8	111.4
31 Manchester	69.5	70.4	70.8	(2)	(2)	(2)	2.6	2.7	2.8	18.8	18.9	18.5
32 Nashua	52.6	55.9	56.7	(2)	(2)	(2)	2.1	2.5	2.6	23.6	25.6	25.8
<b>NEW JERSEY</b>	(*)	2,943.5	2,974.3	(*)	2.4	2.4	(*)	94.5	102.1	(*)	790.9	797.5
33 Atlantic City	(*)	69.4	70.4	-	-	-	(*)	3.5	4.1	(*)	8.1	8.2
34 Camden	(*)	322.6	325.6	(*)	.1	.1	(*)	11.0	12.5	(*)	69.9	69.9
35 Hackensack	(*)	386.1	392.0	(*)	(1)	(1)	(*)	11.0	11.4	(*)	110.3	113.2
36 Jersey City	(*)	230.0	230.9	-	-	-	(*)	3.5	3.8	(*)	69.5	68.9
37 Long Branch-Asbury Park	(*)	148.8	150.0	(*)	(1)	(1)	(*)	5.2	5.4	(*)	23.3	23.1
38 New Bruns.-Perth Amboy-Sayreville	(*)	278.7	280.6	(*)	(1)	(1)	(*)	9.8	10.4	(*)	90.0	90.7
39 Newark	(*)	923.3	928.4	(*)	.9	.9	(*)	28.5	30.0	(*)	254.8	255.5
40 Paterson-Clifton-Passaic	(*)	194.5	194.8	(*)	(1)	(1)	(*)	4.9	5.4	(*)	69.5	70.0
41 Trenton	(*)	162.8	164.4	(*)	(1)	(1)	(*)	2.3	2.5	(*)	37.4	37.7
42 Vineland-Millville-Bridgeton	(*)	56.6	57.1	(*)	(1)	(1)	(*)	1.2	1.4	(*)	19.4	19.4
<b>NEW MEXICO</b>	431.4	448.9	453.7	24.0	25.6	25.6	33.1	33.2	34.3	32.6	33.5	34.5
43 Albuquerque	172.9	180.5	182.7	(1)	(1)	(1)	14.0	13.9	14.3	17.0	16.6	17.4
<b>NEW YORK</b>	6,889.7	6,963.9	7,004.9	5.7	5.5	5.6	161.6	167.7	173.9	1,466.7	1,481.5	1,488.0
44 Albany-Schenectady-Troy	326.2	325.6	327.3	(1)	(1)	(1)	8.4	8.2	8.6	62.9	60.1	60.2
45 Binghamton	113.7	117.4	118.0	(1)	(1)	(1)	3.0	3.9	4.1	41.7	42.4	42.6
46 Buffalo	496.9	503.9	506.6	(1)	(1)	(1)	14.2	14.6	15.2	141.7	145.1	145.7
47 Elmira	36.4	37.2	37.3	(1)	(1)	(1)	1.0	.9	1.0	11.5	11.8	11.8
48 Monroe County	322.6	330.9	332.7	(1)	(1)	(1)	8.1	8.3	8.3	128.8	133.2	134.1
49 Nassau-Suffolk	840.5	855.2	863.2	(1)	(1)	(1)	27.8	28.3	29.5	155.8	160.5	160.7
50 New York-Northeastern New Jersey	(*)	6,488.9	(*)	(*)	3.0	(*)	(*)	161.2	(*)	(*)	1,375.1	(*)
51 New York and Nassau-Suffolk	4,444.6	4,478.5	4,505.4	1.6	1.7	1.7	100.1	103.5	107.2	777.5	778.7	782.5
52 New York SMSA	3,604.1	3,623.3	3,642.4	1.4	1.5	1.5	72.3	75.2	77.7	621.8	618.2	621.9
53 New York City	3,194.3	3,207.1	3,223.4	1.3	1.3	1.3	59.6	62.9	64.7	535.7	528.3	532.0
54 Poughkeepsie	90.9	93.7	93.6	(1)	(1)	(1)	2.3	2.4	2.4	30.3	31.4	31.4
55 Rochester	396.0	404.0	406.1	(1)	(1)	(1)	9.5	9.7	9.7	148.4	153.3	154.1

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	
6.9	6.9	7.0	33.1	34.0	34.1	8.3	8.5	8.5	29.1	29.9	30.1	27.4	28.0	28.1	1
149.0	152.8	153.0	694.5	700.9	704.1	142.1	145.6	146.7	586.5	611.2	614.8	642.3	640.1	642.7	2
2.2	2.2	2.3	17.7	18.6	18.7	3.6	4.0	4.0	17.8	18.4	18.5	44.1	46.0	46.0	3
2.1	2.3	2.3	10.9	11.2	11.3	3.5	3.6	3.6	11.5	12.1	12.0	12.9	12.8	12.9	4
2.0	1.9	1.9	8.8	9.1	9.0	1.1	1.2	1.2	6.1	6.3	6.3	5.1	5.7	5.7	5
82.0	82.9	83.3	335.5	337.8	339.2	82.2	83.1	83.8	315.4	330.4	332.0	260.8	263.2	263.2	6
6.1	6.1	6.1	38.2	39.7	40.0	5.6	5.9	5.9	27.4	28.1	28.4	28.1	28.4	28.7	7
9.7	9.9	10.0	54.5	55.1	55.6	8.6	8.8	8.9	43.5	44.0	44.5	31.1	31.0	31.1	8
4.4	4.5	4.4	9.6	10.4	10.4	1.5	1.7	1.8	9.4	9.6	9.8	8.7	8.5	8.5	9
3.5	3.4	3.4	19.4	19.9	20.1	3.7	3.7	3.8	17.5	18.2	18.1	22.0	21.9	22.0	10
4.4	4.5	4.5	33.1	33.9	34.2	8.6	9.3	9.4	24.7	25.4	25.6	68.1	69.7	68.0	11
3.0	3.0	3.0	10.8	11.1	11.4	1.7	1.8	1.8	8.6	8.6	8.6	10.8	10.9	11.0	12
4.0	4.1	4.1	17.6	18.4	18.5	3.9	4.1	4.1	12.2	12.7	12.5	12.5	13.6	13.6	13
93.3	97.1	97.5	407.5	422.1	424.9	83.8	88.9	89.4	322.8	335.1	338.6	298.0	297.5	297.2	14
5.7	(*)	(*)	16.2	(*)	(*)	2.1	(*)	(*)	11.8	(*)	(*)	11.7	(*)	(*)	15
60.0	63.4	63.7	247.1	253.7	254.4	62.3	66.2	66.5	206.8	215.4	218.2	156.2	155.9	155.9	16
37.3	38.9	38.8	154.8	160.3	161.6	30.5	32.0	32.1	112.5	116.8	117.7	173.4	188.3	188.7	17
8.7	8.8	8.8	33.9	35.2	35.5	10.4	11.0	11.0	25.6	26.9	27.0	30.6	32.0	32.2	18
133.7	136.9	137.1	448.0	452.4	456.9	100.8	102.2	102.8	344.2	345.9	350.3	342.3	341.5	345.9	19
53.4	53.5	53.6	156.3	153.6	155.0	40.7	41.9	42.1	117.6	119.6	121.5	94.7	93.8	93.5	20
2.2	2.1	2.1	8.9	9.0	8.9	1.9	1.9	1.9	6.3	6.1	6.1	6.1	6.0	6.1	21
60.2	69.6	70.2	216.0	216.5	217.7	52.0	52.9	53.2	187.4	191.3	193.5	139.9	133.3	139.6	22
0.2	0.3	0.3	22.0	22.3	22.8	3.2	3.3	3.3	15.8	16.0	16.4	11.5	11.9	12.1	23
20.4	21.6	21.8	67.3	70.3	71.7	11.7	12.5	12.7	49.8	51.9	52.8	71.9	68.3	69.9	24
3.8	4.2	4.2	14.6	15.4	15.5	2.1	2.2	2.2	8.9	8.9	9.3	8.1	7.5	7.5	25
1.8	1.9	1.9	9.5	9.7	10.0	2.0	2.0	2.0	6.4	6.6	6.8	6.2	6.1	6.2	26
42.1	44.2	44.5	154.3	152.2	154.3	38.7	39.9	40.0	106.8	107.4	108.8	131.3	129.5	131.1	27
6.4	6.7	6.7	21.1	21.7	21.9	6.9	7.0	6.9	16.1	16.4	16.5	28.6	28.4	29.1	28
22.1	23.2	23.3	65.6	66.3	66.9	22.5	23.4	23.6	52.5	53.7	54.9	41.6	40.7	41.4	29
19.8	22.9	23.1	65.0	72.3	73.7	13.7	15.4	15.6	134.6	152.0	153.7	51.8	53.6	54.0	30
11.3	13.0	13.1	36.4	41.4	42.1	7.4	8.3	8.4	83.2	88.2	88.9	22.9	24.0	24.1	31
6.2	7.4	7.5	20.6	21.7	22.1	5.1	5.7	5.8	33.5	41.8	42.6	14.8	15.2	15.4	32
12.6	13.6	13.7	75.3	80.5	81.7	16.6	17.8	18.0	62.2	65.2	65.9	56.3	57.2	57.2	33
4.3	4.7	4.7	17.9	17.5	17.9	5.1	5.3	5.3	12.8	13.0	13.2	8.0	8.3	8.4	34
1.6	1.6	1.7	10.5	11.0	11.4	1.7	1.8	1.8	7.4	7.7	7.7	5.7	5.7	5.7	35
(*)	189.9	190.7	(*)	655.2	661.1	(*)	148.3	148.9	(*)	544.1	552.5	(*)	518.2	519.1	36
(*)	3.5	3.5	(*)	16.8	17.1	(*)	4.4	4.3	(*)	17.3	17.6	(*)	15.8	15.6	37
(*)	15.2	15.4	(*)	82.9	84.1	(*)	15.3	15.3	(*)	65.0	65.0	(*)	63.2	63.3	38
(*)	20.4	20.6	(*)	111.4	111.9	(*)	15.3	15.4	(*)	74.6	75.8	(*)	43.1	43.7	39
(*)	27.0	27.5	(*)	45.4	45.7	(*)	8.5	8.5	(*)	30.4	30.7	(*)	45.7	45.8	40
(*)	6.2	6.3	(*)	38.6	39.1	(*)	7.1	7.1	(*)	35.4	35.9	(*)	33.0	33.1	41
(*)	20.8	21.0	(*)	65.6	66.2	(*)	9.5	9.5	(*)	37.2	37.7	(*)	45.2	45.1	42
(*)	71.4	71.9	(*)	175.2	176.0	(*)	61.2	61.4	(*)	182.0	183.2	(*)	149.3	149.5	43
(*)	7.8	7.7	(*)	41.6	41.6	(*)	9.5	9.6	(*)	32.3	32.2	(*)	28.9	28.3	44
(*)	5.9	6.0	(*)	25.3	25.7	(*)	6.7	6.8	(*)	39.0	39.5	(*)	46.2	46.2	45
(*)	3.0	3.1	(*)	9.4	9.5	(*)	2.4	2.4	(*)	8.7	8.9	(*)	12.5	12.4	46
25.9	27.8	27.9	96.9	102.9	104.0	19.2	20.5	20.6	83.8	84.2	85.0	115.9	121.2	121.8	47
9.8	11.1	11.2	43.5	45.8	46.3	9.9	10.7	10.6	38.9	40.8	41.2	39.8	41.6	41.7	48
424.1	425.5	424.5	1,412.4	1,417.4	1,429.3	576.7	583.8	587.2	1,539.2	1,583.9	1,594.2	1,303.3	1,298.7	1,302.2	49
15.2	15.1	15.0	64.5	66.3	66.6	14.5	14.9	14.9	64.2	65.1	65.1	96.4	96.0	96.9	50
4.6	4.7	4.7	20.7	21.8	22.0	3.6	3.5	3.6	16.5	17.6	17.4	23.7	23.5	23.7	51
27.1	27.7	27.9	111.4	113.4	113.8	21.2	21.4	21.5	93.3	93.0	93.6	88.0	88.7	88.7	52
1.4	1.4	1.4	8.0	8.1	8.1	1.0	1.0	1.0	6.5	6.8	6.9	7.0	7.1	7.1	53
10.0	9.9	9.9	60.4	61.3	61.8	14.0	14.6	14.7	61.8	63.3	63.7	39.6	40.4	40.2	54
37.1	37.1	37.3	216.0	221.3	223.8	46.6	47.6	47.7	178.5	180.9	184.2	178.8	179.5	180.0	55
(*)	462.0	(*)	(*)	1,365.8	(*)	(*)	586.6	(*)	(*)	1,462.5	(*)	(*)	1,072.7	(*)	56
314.7	315.3	313.7	923.7	927.3	934.4	477.8	482.7	485.5	1,086.6	1,109.1	1,118.2	762.5	760.2	762.2	57
277.6	278.2	278.4	707.8	706.0	710.7	431.2	435.1	437.8	908.2	928.4	934.1	583.8	580.7	582.2	58
255.9	256.6	254.7	612.4	608.5	613.0	412.2	415.8	418.4	811.2	831.1	835.0	505.9	502.6	504.4	59
2.9	3.0	3.0	15.1	15.4	15.4	2.5	2.5	2.5	15.7	16.7	16.7	22.1	22.5	22.2	60
12.8	12.8	12.8	76.3	77.1	77.8	15.5	16.2	16.3	72.4	74.1	74.7	61.1	60.9	60.8	61

**ESTABLISHMENT DATA**  
**STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>NEW YORK—Continued</b>												
1 Rockland County <sup>9</sup> .....	75.3	76.8	77.0	(1)	(1)	(1)	1.8	1.4	1.5	15.3	15.8	15.8
2 Syracuse .....	250.2	255.9	254.7	(1)	(1)	(1)	8.5	8.9	9.0	59.6	60.7	60.1
3 Utica-Rome .....	111.9	114.1	114.3	(1)	(1)	(1)	1.9	2.5	2.5	31.1	31.9	31.8
4 Westchester County .....	322.6	327.4	329.8	(1)	(1)	(1)	10.3	10.2	10.8	69.5	72.8	72.8
<b>5 NORTH CAROLINA</b> .....	<b>2,241.3</b>	<b>2,283.5</b>	<b>2,296.4</b>	<b>4.6</b>	<b>4.8</b>	<b>4.9</b>	<b>107.9</b>	<b>105.3</b>	<b>109.5</b>	<b>795.1</b>	<b>809.0</b>	<b>808.7</b>
6 Asheville .....	66.1	66.6	67.1	(1)	(1)	(1)	3.2	3.2	3.5	21.4	21.4	21.4
7 Charlotte-Gastonia .....	304.5	311.7	313.1	(1)	(1)	(1)	14.9	15.4	15.6	86.6	87.9	88.2
8 Greensboro-Winston-Salem-High Pt. .....	367.4	374.9	376.9	(1)	(1)	(1)	16.0	15.2	15.5	143.9	146.6	146.6
9 Raleigh-Durham .....	241.1	250.9	251.1	(1)	(1)	(1)	11.4	12.2	12.4	38.0	40.3	40.6
<b>10 NORTH DAKOTA</b> .....	<b>221.6</b>	<b>231.3</b>	<b>233.3</b>	<b>3.6</b>	<b>5.0</b>	<b>5.1</b>	<b>13.5</b>	<b>15.2</b>	<b>15.6</b>	<b>15.3</b>	<b>16.2</b>	<b>16.3</b>
11 Fargo-Moorhead .....	59.2	61.3	61.4	(2)	(2)	(2)	3.4	3.8	3.9	5.1	5.1	5.1
<b>12 OHIO</b> .....	<b>4,246.3</b>	<b>4,381.5</b>	<b>4,425.6</b>	<b>19.3</b>	<b>31.4</b>	<b>31.8</b>	<b>144.5</b>	<b>148.9</b>	<b>161.1</b>	<b>1,353.9</b>	<b>1,395.1</b>	<b>1,397.1</b>
13 Akron .....	260.3	263.5	265.8	.3	.3	.3	6.8	6.8	7.5	85.5	84.8	84.7
14 Canton .....	149.9	154.2	155.7	1.0	1.1	1.1	5.1	5.4	5.9	55.6	57.7	57.7
15 Cincinnati .....	572.0	597.1	604.0	.3	.4	.4	22.0	22.4	24.5	164.5	173.0	173.2
16 Cleveland .....	885.8	908.6	916.1	1.5	1.4	1.5	27.6	28.0	29.8	273.1	283.1	283.4
17 Columbus .....	478.4	495.0	500.0	.9	.8	.9	16.7	17.5	18.8	99.0	100.8	100.9
18 Dayton .....	348.1	360.0	362.8	.4	.4	.5	11.0	11.6	12.9	111.2	114.1	113.1
19 Toledo .....	294.2	302.4	305.2	.5	.6	.6	9.0	10.0	10.7	89.4	91.7	91.9
20 Youngstown-Warren .....	204.2	210.1	212.0	.5	.5	.5	6.2	6.9	7.3	77.7	79.8	80.1
<b>21 OKLAHOMA</b> .....	<b>1,005.1</b>	<b>1,038.8</b>	<b>1,051.5</b>	<b>52.1</b>	<b>56.7</b>	<b>56.8</b>	<b>52.0</b>	<b>49.2</b>	<b>53.5</b>	<b>167.1</b>	<b>175.6</b>	<b>178.1</b>
22 Oklahoma City .....	349.5	370.5	376.2	11.8	13.5	13.6	17.3	18.0	18.8	46.2	48.8	50.5
23 Tulsa .....	262.8	273.1	274.4	17.1	17.4	17.6	14.1	13.9	14.3	53.5	58.7	58.8
<b>24 OREGON</b> .....	<b>977.8</b>	<b>1,012.4</b>	<b>1,023.7</b>	<b>2.0</b>	<b>1.8</b>	<b>2.0</b>	<b>43.9</b>	<b>48.4</b>	<b>50.9</b>	<b>209.2</b>	<b>216.3</b>	<b>218.1</b>
25 Eugene-Springfield .....	100.5	102.3	(*)	(1)	(1)	(*)	5.0	5.2	(*)	20.2	19.9	(*)
26 Jackson County .....	-	-	-	-	-	-	-	-	-	7.6	7.4	(*)
27 Portland .....	514.7	531.1	536.2	(1)	(1)	(1)	24.2	25.3	25.6	105.8	109.0	112.0
28 Salem .....	82.8	85.9	(*)	(1)	(1)	(*)	4.4	4.2	(*)	11.9	13.2	(*)
<b>29 PENNSYLVANIA</b> .....	<b>4,573.5</b>	<b>4,619.2</b>	<b>4,661.4</b>	<b>25.6</b>	<b>52.0</b>	<b>52.3</b>	<b>160.1</b>	<b>150.7</b>	<b>166.4</b>	<b>1,343.5</b>	<b>1,363.4</b>	<b>1,364.3</b>
30 Allentown-Bethlehem-Easton .....	253.8	256.7	257.8	(1)	(1)	(1)	8.2	7.2	7.7	107.9	109.4	109.8
31 Altoona .....	51.0	50.6	50.7	(1)	(1)	(1)	2.0	1.9	1.9	13.1	12.7	12.7
32 Delaware Valley <sup>10</sup> .....	1,539.4	1,535.4	1,548.7	(1)	(1)	(1)	47.4	46.6	50.0	379.1	379.7	381.4
33 Erie .....	113.3	115.0	115.2	(1)	(1)	(1)	3.1	3.3	3.3	43.6	44.6	44.5
34 Harrisburg .....	210.7	210.4	211.1	(1)	(1)	(1)	7.7	7.0	7.5	40.8	42.0	42.0
35 Johnstown .....	77.9	86.1	86.6	3.0	9.2	9.3	2.3	2.1	2.1	19.1	20.0	19.7
36 Lancaster .....	144.8	147.3	148.6	(1)	(1)	(1)	6.9	7.3	7.8	58.1	59.9	59.5
37 Northeast Pennsylvania .....	234.4	236.4	239.3	1.1	1.1	1.1	11.5	10.4	11.3	71.5	71.7	71.7
38 Philadelphia SMSA .....	1,850.8	1,858.2	1,874.2	(1)	(1)	(1)	57.9	57.6	62.5	447.0	449.8	451.3
39 Philadelphia City <sup>11</sup> .....	796.4	786.2	792.1	(1)	(1)	(1)	15.1	15.0	15.9	152.3	147.7	148.8
40 Pittsburgh .....	903.2	919.3	931.1	3.9	11.2	11.2	40.2	36.5	41.5	244.3	253.4	253.2
41 Reading .....	131.8	137.2	137.9	(1)	(1)	(1)	4.3	4.4	4.7	52.0	54.3	53.5
42 Scranton <sup>12</sup> .....	83.8	85.3	86.1	(1)	(1)	(1)	2.0	1.4	1.6	29.7	28.6	28.8
43 Wilkes-Barre-Hazleton <sup>13</sup> .....	123.4	122.8	123.8	1.0	1.0	1.0	8.5	8.0	8.6	39.4	38.4	38.3
44 Williamsport .....	47.9	49.2	48.9	(1)	(1)	(1)	1.4	1.5	1.5	18.0	18.3	18.3
45 York .....	147.2	148.7	150.1	(1)	(1)	(1)	5.8	5.7	6.2	62.5	64.1	64.2
<b>46 RHODE ISLAND</b> .....	<b>382.4</b>	<b>390.8</b>	<b>392.8</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>10.2</b>	<b>10.9</b>	<b>12.1</b>	<b>130.1</b>	<b>134.6</b>	<b>134.5</b>
47 Providence-Warwick-Pawtucket .....	393.9	401.4	404.2	(1)	(1)	(1)	10.3	11.0	12.2	146.7	150.7	150.7
<b>48 SOUTH CAROLINA</b> .....	<b>1,118.1</b>	<b>1,142.9</b>	<b>1,152.9</b>	<b>1.8</b>	<b>1.9</b>	<b>1.9</b>	<b>67.3</b>	<b>63.6</b>	<b>64.7</b>	<b>386.8</b>	<b>391.9</b>	<b>391.4</b>
49 Charleston-North Charleston .....	136.6	142.6	143.1	(1)	(1)	(1)	10.9	11.1	11.1	18.8	19.5	19.5
50 Columbia .....	168.3	173.0	174.7	(1)	(1)	(1)	8.3	7.9	8.0	25.2	25.9	26.6
51 Greenville-Spartanburg .....	249.6	256.1	256.7	(1)	(1)	(1)	14.4	15.0	14.9	103.2	104.5	104.5
<b>52 SOUTH DAKOTA</b> .....	<b>225.8</b>	<b>228.4</b>	<b>230.7</b>	<b>2.6</b>	<b>2.7</b>	<b>2.7</b>	<b>10.4</b>	<b>9.9</b>	<b>10.3</b>	<b>23.7</b>	<b>24.7</b>	<b>25.2</b>
53 Rapid City .....	27.0	27.1	27.1	(2)	(2)	(2)	2.4	2.3	2.3	2.5	2.6	2.6
54 Sioux Falls .....	51.4	53.6	53.6	(2)	(2)	(2)	3.0	2.7	2.9	7.0	7.4	7.4
<b>55 TENNESSEE</b> .....	<b>1,690.3</b>	<b>1,714.2</b>	<b>1,720.3</b>	<b>10.0</b>	<b>9.8</b>	<b>11.1</b>	<b>76.7</b>	<b>84.2</b>	<b>88.3</b>	<b>520.1</b>	<b>521.6</b>	<b>519.6</b>
56 Chattanooga .....	167.4	168.1	168.2	1.3	1.2	1.3	7.1	6.8	6.9	55.9	55.3	55.3
57 Knoxville .....	189.8	197.7	198.3	1.6	1.6	1.6	11.0	12.4	12.4	52.8	53.9	53.8
58 Memphis .....	347.8	350.4	350.7	.1	.1	.1	13.9	13.2	13.8	62.8	63.4	63.3
59 Nashville-Davidson .....	347.0	353.5	355.1	(1)	(1)	(1)	18.0	20.6	21.2	82.3	82.0	81.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	
3.4	3.4	3.4	16.1	16.6	16.7	2.3	2.4	2.4	15.9	16.3	16.3	20.4	20.9	20.9	1
14.1	14.3	14.4	55.1	56.2	56.7	14.8	15.1	15.2	49.9	51.7	50.7	48.3	49.0	48.7	2
3.9	3.9	3.9	20.7	21.4	21.4	5.3	5.4	5.4	19.2	19.4	19.5	29.7	29.5	29.6	3
17.6	17.6	17.6	76.2	77.7	77.8	16.3	16.5	16.6	78.7	78.9	80.6	54.0	53.7	53.5	4
106.0	109.8	110.0	430.5	439.5	442.7	85.8	85.9	86.2	308.5	317.4	321.4	402.9	411.8	412.4	5
3.4	3.5	3.5	13.4	13.6	13.6	2.2	2.3	2.3	11.5	11.4	11.4	11.0	11.2	11.4	6
28.2	28.8	29.1	74.4	76.8	77.1	19.5	19.9	20.0	44.6	45.9	46.1	36.3	37.0	37.0	7
20.0	20.7	20.9	73.2	75.3	76.1	17.0	17.3	17.3	52.3	53.7	54.0	45.0	46.1	46.5	8
11.5	12.0	12.7	46.9	48.1	48.1	14.3	14.4	14.5	49.7	52.8	52.9	69.3	70.5	69.9	9
14.1	15.1	15.2	61.3	63.5	64.4	10.2	10.7	10.8	44.2	46.0	46.3	59.4	59.6	59.6	10
3.8	4.1	4.1	18.2	18.6	18.7	3.5	3.7	3.7	12.8	13.5	13.5	12.4	12.5	12.4	11
217.2	228.0	230.0	913.4	939.4	951.1	186.3	194.7	195.9	743.8	780.5	791.5	667.9	663.5	667.1	12
14.1	14.6	14.7	55.8	58.0	58.7	9.1	9.3	9.4	45.6	46.2	47.1	43.1	43.4	43.4	13
7.2	7.2	7.3	31.6	32.8	33.2	5.6	5.6	5.7	26.4	27.4	27.8	17.4	17.0	17.0	14
31.8	34.2	34.8	132.1	136.0	137.4	29.8	30.8	30.9	107.9	115.8	117.0	83.6	84.5	85.3	15
45.0	47.0	47.2	207.0	207.0	208.8	44.9	45.7	45.8	171.6	181.9	184.6	121.3	114.6	115.0	16
23.8	26.1	26.1	113.1	117.6	118.7	32.8	35.3	35.5	92.0	96.9	98.6	100.1	99.9	100.5	17
12.2	13.1	13.4	71.2	74.1	75.1	12.2	12.7	12.9	64.8	67.8	68.5	65.2	66.2	66.5	18
19.3	20.7	21.0	65.7	66.8	67.9	9.9	10.2	10.3	54.0	55.7	56.3	45.8	46.7	46.6	19
10.0	10.1	10.2	43.2	45.1	45.6	6.6	6.6	6.7	34.0	34.9	35.4	26.0	26.2	26.3	20
60.2	62.5	62.5	238.5	244.6	246.8	49.2	51.1	51.3	165.0	174.8	176.7	221.0	224.3	225.8	21
21.1	22.2	22.5	85.8	90.2	92.0	21.8	23.2	23.2	59.9	64.3	65.1	85.6	90.3	90.5	22
20.2	20.5	20.5	65.4	65.5	65.8	13.3	13.9	13.8	50.6	53.3	53.6	28.6	29.9	30.0	23
54.9	58.7	59.4	235.4	246.1	248.3	61.4	65.5	65.6	171.0	172.6	174.5	200.0	203.0	204.9	24
4.9	5.3	(*)	24.9	25.2	(*)	4.8	5.1	(*)	17.9	18.0	(*)	22.8	23.6	(*)	25
32.8	34.7	35.0	130.4	134.5	134.7	39.8	41.7	41.9	100.7	102.0	102.5	81.0	83.9	84.5	26
3.1	3.3	(*)	17.5	18.0	(*)	5.2	5.4	(*)	13.6	14.2	(*)	27.1	27.6	(*)	27
261.1	265.9	267.6	950.6	948.6	957.4	221.8	232.5	233.2	878.8	895.0	905.7	732.0	711.1	714.5	28
13.1	13.6	13.5	47.9	48.6	48.5	8.1	8.4	8.4	38.0	39.2	39.5	30.6	30.3	30.4	29
8.1	8.0	7.8	11.3	11.4	11.5	1.3	1.3	1.2	8.1	8.3	8.3	7.1	7.0	7.3	30
83.1	82.7	83.2	327.9	319.9	322.9	102.7	105.6	105.8	356.1	360.0	370.1	243.1	234.9	235.3	31
5.1	5.4	5.2	22.2	22.9	23.4	4.4	4.5	4.4	19.5	19.5	19.6	15.4	14.8	14.8	32
15.7	15.6	15.5	44.1	43.9	43.8	11.7	12.1	12.1	34.3	34.0	34.4	56.4	55.8	55.8	33
5.3	4.9	4.9	16.1	16.3	16.7	3.4	3.7	3.8	14.8	15.0	14.9	13.9	14.9	15.2	34
0.3	6.1	6.2	31.8	33.3	33.7	5.1	5.2	5.3	20.5	20.3	20.8	16.1	15.2	15.3	35
12.7	13.2	13.4	49.7	51.4	51.5	8.8	9.4	9.4	39.9	40.2	40.9	39.2	39.0	40.0	36
98.9	97.8	98.6	408.4	402.9	407.0	117.5	120.8	121.1	417.5	431.2	435.2	303.6	298.1	298.5	37
56.1	55.5	55.9	152.5	148.8	149.6	67.5	69.2	69.3	203.8	205.8	208.3	149.1	144.2	144.3	38
57.0	57.3	57.8	198.9	204.9	207.6	42.4	43.7	43.9	195.4	194.4	196.7	121.1	117.9	119.2	39
6.4	6.4	6.5	26.1	26.9	27.2	5.4	5.8	5.8	20.7	22.1	22.7	16.9	17.3	17.5	40
4.4	4.6	4.6	18.6	19.6	19.6	3.2	3.4	3.4	15.9	16.0	16.4	12.0	11.7	11.7	41
6.4	6.8	6.8	26.3	26.6	26.8	4.7	5.2	5.2	17.6	17.6	17.7	19.5	19.2	19.4	42
2.4	2.4	2.4	9.4	10.3	10.1	1.9	2.0	2.0	7.5	7.6	7.6	7.3	7.1	7.0	43
6.8	6.7	6.7	30.3	30.8	30.9	3.7	3.9	4.0	18.9	19.1	19.5	19.2	18.4	18.6	44
13.1	13.2	13.4	76.5	76.6	76.5	19.4	19.9	20.1	72.6	74.4	75.7	60.5	60.8	60.5	45
13.0	13.2	13.3	78.3	77.8	77.7	19.6	20.1	20.4	69.4	71.3	72.6	56.6	57.3	57.3	46
47.1	50.7	51.3	205.0	211.9	215.8	42.7	44.5	45.1	140.9	147.7	151.6	226.5	230.7	231.1	47
8.4	8.6	8.8	28.8	30.5	30.6	5.6	5.9	6.0	20.4	22.2	22.4	43.7	44.8	44.7	48
8.3	8.8	8.9	36.1	37.9	38.1	12.5	13.2	13.3	25.5	26.0	26.4	52.4	53.3	53.4	49
9.4	10.2	10.3	47.9	50.0	50.0	8.5	8.6	8.7	32.3	33.5	33.8	33.9	34.3	34.5	50
13.1	13.5	13.8	61.6	61.2	61.5	10.5	11.2	11.4	46.3	47.7	48.3	57.6	57.5	57.5	51
1.0	1.8	1.8	7.8	7.5	7.4	1.4	1.3	1.3	5.5	5.9	6.1	5.6	5.7	5.6	52
4.7	5.2	5.1	15.5	15.1	15.1	3.2	3.0	3.0	11.4	13.4	13.3	6.6	6.8	6.8	53
79.6	82.4	83.2	363.7	369.2	368.0	72.4	73.0	73.4	261.3	263.3	265.5	306.5	310.7	311.2	54
6.7	6.6	6.6	30.7	31.0	30.9	9.2	9.6	9.6	26.0	25.9	25.9	30.5	31.7	31.7	55
7.5	7.8	7.9	40.0	41.8	42.0	7.6	8.0	8.0	28.4	30.0	30.1	40.9	42.2	42.9	56
24.8	25.4	25.5	92.7	93.8	93.7	18.8	18.7	18.7	66.6	67.7	68.4	68.1	68.1	67.2	57
18.3	19.1	19.3	77.9	80.0	80.4	21.6	22.2	22.3	65.6	65.6	65.8	63.3	64.0	64.3	58



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8 Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
1 TEXAS .....	5,146.2	5,386.7	5,410.3	175.8	188.2	190.0	368.2	380.8	388.1	937.8	983.0	985.2
2 Amarillo .....	69.8	72.3	72.9	(1)	(1)	(1)	4.5	4.8	5.2	7.9	9.2	9.7
3 Austin .....	213.7	225.7	226.5	(1)	(1)	(1)	12.1	13.6	13.8	24.4	27.1	27.1
4 Beaumont-Port Arthur-Orange .....	146.4	141.5	143.7	(1)	(1)	(1)	15.2	14.7	14.9	41.5	38.3	40.8
5 Corpus Christi .....	110.1	112.1	112.5	5.0	5.0	5.0	10.4	11.8	12.0	13.8	13.8	13.7
6 Dallas-Fort Worth .....	1,258.0	1,321.5	1,335.3	17.6	20.3	20.3	63.0	67.7	71.4	281.7	297.7	298.7
7 El Paso .....	147.2	153.0	154.4	(1)	(1)	(1)	8.7	8.6	8.5	30.2	30.6	31.5
8 Galveston-Texas City .....	64.6	67.5	67.7	(1)	(1)	(1)	4.7	4.6	4.7	11.2	11.9	12.1
9 Houston .....	1,242.4	1,291.3	1,299.7	60.9	61.8	62.0	132.5	136.0	139.8	205.4	214.2	214.9
10 Lubbock .....	85.4	89.1	89.3	(1)	(1)	(1)	4.7	5.6	5.5	11.8	11.9	11.9
11 San Antonio .....	359.8	367.3	368.4	1.9	1.9	1.9	23.3	23.4	23.8	45.4	46.9	46.7
12 Waco .....	65.0	66.9	67.0	(1)	(1)	(1)	3.4	3.2	3.1	15.3	16.3	16.4
13 Wichita Falls .....	49.2	49.6	49.8	2.6	2.6	2.6	2.4	2.4	2.4	9.0	9.2	9.3
14 UTAH .....	508.5	541.8	548.0	13.4	17.1	17.1	31.1	31.5	33.6	76.0	83.1	83.2
15 Salt Lake City-Ogden .....	363.0	382.3	386.7	6.7	7.3	7.3	21.3	21.3	22.6	51.3	56.3	56.3
16 VERMONT .....	184.5	193.3	193.9	.7	.7	.8	6.8	7.3	7.2	45.4	48.6	49.0
17 Burlington .....	48.6	51.9	52.6	-	-	-	-	-	-	11.7	13.0	13.1
18 Springfield .....	13.7	14.3	14.4	-	-	-	-	-	-	5.7	6.0	6.1
19 VIRGINIA .....	1,961.2	2,030.1	2,062.5	12.8	25.3	25.5	114.1	112.4	125.7	403.3	399.8	402.9
20 Bristol .....	26.4	27.2	27.6	(1)	(1)	(1)	1.1	1.3	1.4	9.6	9.9	9.8
21 Lynchburg .....	67.0	68.6	69.9	(1)	(1)	(1)	2.9	2.7	3.2	28.9	29.4	29.5
22 Newport News-Hampton .....	141.0	135.7	139.0	(1)	(1)	(1)	6.7	7.5	8.2	34.6	25.3	27.1
23 Norfolk-Virginia Beach-Portsmouth .....	269.3	274.5	276.2	(1)	(1)	(1)	16.7	16.7	17.7	27.8	29.2	29.3
24 Northern Virginia .....	392.0	402.9	409.8	.3	.4	.4	24.6	22.3	25.7	15.0	15.9	16.0
25 Petersburg-Colonial Hgts.-Hopewell .....	45.5	47.1	47.3	(1)	(1)	(1)	2.4	2.4	2.5	12.2	11.8	11.8
26 Richmond .....	304.2	314.8	316.9	.4	.4	.4	17.3	16.9	17.5	52.9	54.0	54.0
27 Roanoke .....	100.7	102.1	102.9	.2	.1	.1	5.1	4.8	5.2	21.1	20.9	21.0
28 WASHINGTON .....	1,444.6	(*)	(*)	2.5	(*)	(*)	83.6	(*)	(*)	276.3	(*)	(*)
29 Seattle-Everett .....	679.7	(*)	(*)	(1)	(*)	(*)	35.2	(*)	(*)	141.2	(*)	(*)
30 Spokane .....	120.5	(*)	(*)	(1)	(*)	(*)	6.6	(*)	(*)	17.1	(*)	(*)
31 Tacoma .....	131.2	(*)	(*)	(1)	(*)	(*)	7.7	(*)	(*)	21.4	(*)	(*)
32 WEST VIRGINIA .....	556.8	618.2	(*)	15.6	70.8	(*)	36.0	31.0	(*)	122.2	123.6	(*)
33 Charleston .....	102.8	109.0	(*)	1.8	6.8	(*)	5.4	5.7	(*)	19.4	19.5	(*)
34 Huntington-Ashland .....	100.3	102.9	(*)	.7	1.0	(*)	6.0	5.6	(*)	28.5	29.3	(*)
35 Parkersburg-Marietta .....	55.3	56.8	(*)	.5	.5	(*)	3.0	3.6	(*)	17.7	18.1	(*)
36 Wheeling .....	57.5	64.6	(*)	1.0	7.2	(*)	2.9	3.0	(*)	13.3	13.3	(*)
37 WISCONSIN .....	1,820.6	1,888.2	1,902.8	2.1	2.1	2.3	70.4	72.5	75.8	549.2	564.6	567.1
38 Appleton-Oshkosh .....	117.1	122.3	123.5	(1)	(1)	(1)	5.0	6.1	6.2	46.5	48.3	48.6
39 Eau Claire .....	43.7	43.8	43.9	(1)	(1)	(1)	1.5	1.4	1.4	9.0	8.5	8.5
40 Green Bay .....	73.1	74.0	74.5	(1)	(1)	(1)	3.5	2.9	3.1	20.2	20.6	20.5
41 Kenosha .....	39.8	43.7	42.3	(1)	(1)	(1)	1.2	1.3	1.4	15.1	18.3	16.9
42 La Crosse .....	40.2	41.6	41.9	(1)	(1)	(1)	1.5	1.8	1.9	10.1	10.5	10.5
43 Madison .....	156.4	159.6	160.2	(1)	(1)	(1)	6.9	6.3	6.5	19.2	18.5	18.2
44 Milwaukee .....	637.4	658.4	663.0	(1)	(1)	(1)	21.7	21.9	23.1	204.6	211.7	213.4
45 Racine .....	68.8	69.2	70.1	(1)	(1)	(1)	2.3	2.0	2.0	30.5	31.1	31.4
46 WYOMING .....	175.0	193.2	196.1	27.7	31.1	31.2	17.5	20.3	21.1	8.7	9.9	9.8
47 Casper .....	34.2	40.1	41.0	6.6	9.0	9.1	3.1	4.2	4.5	1.6	1.7	1.7
48 Cheyenne .....	25.5	25.8	26.1	(1)	(1)	(1)	1.8	2.0	2.1	1.8	1.4	1.6

1 Combined with services.  
2 Combined with construction.  
3 Area included in Chicago-Gary Standard Consolidated Statistical Area.  
4 Revised to 1978 benchmark; not strictly comparable with previously published data.  
5 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
6 Subarea of New York-Northeastern New Jersey.  
7 Subarea of Rochester Standard Metropolitan Statistical Area.  
8 Area included in New York and Nassau-Suffolk combined SMSA's.  
9 Subarea of New York Standard Metropolitan Statistical Area.  
10 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
11 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.  
12 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.  
13 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
14 Total includes data for industry divisions not shown separately.  
15 Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.  
p=preliminary.  
\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	
321.6	344.0	345.6	1,250.7	1,305.9	1,311.5	286.7	303.3	305.4	877.2	911.5	913.8	928.2	970.0	970.7	1
6.6	6.7	6.8	21.3	21.5	21.3	3.6	3.6	3.6	13.8	14.2	14.1	12.1	12.3	12.2	2
0.4	6.5	6.6	43.7	45.1	45.8	12.4	13.4	13.3	35.8	36.9	37.1	78.9	83.1	82.8	3
10.7	11.1	10.8	31.3	30.5	30.3	5.3	5.4	5.4	23.5	23.1	23.1	18.9	18.4	18.4	4
6.4	6.6	6.7	26.2	26.2	26.3	5.1	5.3	5.3	17.3	17.7	17.8	25.9	25.7	25.7	5
80.2	85.8	86.4	329.5	345.5	348.4	92.4	96.8	97.4	219.6	230.9	235.4	174.0	176.8	177.3	6
9.9	10.4	10.4	36.5	38.2	38.2	6.7	7.0	7.2	24.4	25.0	25.3	30.8	33.2	33.3	7
6.0	6.7	6.7	12.3	12.9	12.9	4.2	4.5	4.5	10.1	10.3	10.2	16.2	16.6	16.6	8
91.6	95.9	96.3	295.4	309.2	309.0	72.5	77.2	77.5	241.5	251.5	254.0	142.6	145.5	146.2	9
5.0	5.1	5.1	24.8	26.1	26.1	4.3	4.5	4.5	15.3	15.8	15.9	19.5	20.1	20.3	10
15.1	16.3	16.4	89.4	92.5	93.0	23.5	24.5	24.5	67.8	68.9	69.1	93.4	92.9	93.0	11
3.1	3.2	3.2	14.9	15.6	15.6	3.6	3.8	3.8	13.3	13.7	13.8	11.4	11.1	11.1	12
2.4	2.4	2.4	12.1	12.2	12.3	2.2	2.2	2.2	7.3	7.5	7.5	11.2	11.1	11.1	13
30.4	32.7	33.4	122.5	129.6	131.3	23.6	25.3	25.6	89.8	96.9	98.0	121.7	125.5	125.8	14
24.2	26.0	26.5	91.5	96.1	97.4	19.2	20.5	20.7	60.9	65.6	66.6	88.0	89.2	89.2	15
8.4	8.7	8.7	37.4	40.3	40.7	7.3	7.4	7.4	42.5	44.2	43.8	36.0	36.1	36.3	16
2.1	2.1	2.1	10.2	11.2	11.3	-	-	-	10.1	10.8	10.9	-	-	-	17
.7	.7	.7	2.1	2.1	2.1	-	-	-	2.7	3.1	3.0	-	-	-	18
105.8	110.2	111.4	409.8	429.4	433.6	93.4	98.4	98.3	344.6	359.8	368.8	477.4	494.8	496.3	19
1.0	1.0	1.0	6.0	6.3	6.3	.8	.9	.9	3.1	3.3	3.4	4.8	4.5	4.8	20
2.5	2.5	2.5	11.0	11.2	11.4	3.0	3.1	3.2	9.4	9.9	10.2	9.3	9.8	9.9	21
4.2	4.9	4.8	25.7	26.8	26.9	4.5	4.7	4.7	25.2	25.5	26.4	40.1	41.0	40.9	22
18.0	17.6	17.8	63.9	67.0	67.5	13.6	14.0	13.9	48.9	49.5	49.5	80.4	80.5	80.5	23
26.2	27.1	27.1	93.2	96.8	98.0	24.2	25.2	25.4	95.5	99.2	101.1	113.0	116.0	116.1	24
1.3	1.5	1.5	8.1	8.8	8.8	1.2	1.3	1.3	5.6	5.8	5.9	14.7	15.5	15.5	25
18.4	19.4	19.9	70.6	72.6	72.5	23.7	25.0	25.2	52.3	53.7	54.7	68.6	72.8	72.7	26
9.4	10.0	9.9	24.9	25.4	25.4	5.6	5.9	6.0	18.6	18.7	18.8	15.8	16.3	16.5	27
41.4	(*)	(*)	344.4	(*)	(*)	81.0	(*)	(*)	265.5	(*)	(*)	309.9	(*)	(*)	28
45.5	(*)	(*)	164.8	(*)	(*)	48.5	(*)	(*)	128.3	(*)	(*)	116.2	(*)	(*)	29
7.6	(*)	(*)	32.7	(*)	(*)	7.7	(*)	(*)	27.1	(*)	(*)	21.7	(*)	(*)	30
6.2	(*)	(*)	30.6	(*)	(*)	6.4	(*)	(*)	27.0	(*)	(*)	31.9	(*)	(*)	31
36.6	42.1	(*)	124.5	127.6	(*)	20.3	20.7	(*)	87.0	88.3	(*)	114.6	114.3	(*)	32
8.8	9.5	(*)	25.2	25.7	(*)	4.8	4.9	(*)	18.3	18.5	(*)	19.0	18.4	(*)	33
8.1	9.5	(*)	22.3	23.0	(*)	3.6	3.7	(*)	14.0	14.0	(*)	17.0	16.7	(*)	34
2.4	2.5	(*)	11.9	12.2	(*)	1.8	1.9	(*)	8.4	8.4	(*)	9.0	9.6	(*)	35
3.6	3.7	(*)	14.2	14.9	(*)	2.4	2.4	(*)	12.4	12.7	(*)	7.6	7.4	(*)	36
85.4	88.1	88.6	405.6	428.6	433.9	83.3	87.4	88.1	325.9	342.7	344.8	298.6	302.1	302.2	37
4.1	4.2	4.2	23.5	24.8	25.0	4.6	4.9	4.9	18.3	18.9	19.1	15.1	15.3	15.4	38
2.5	2.6	2.6	10.8	11.8	11.8	1.4	1.4	1.4	8.9	9.1	9.2	9.6	9.1	9.0	39
5.1	5.2	5.3	18.2	19.0	19.2	2.5	2.6	2.7	13.3	13.3	13.4	10.3	10.4	10.3	40
1.0	1.0	1.0	7.7	8.0	8.1	.9	.9	.9	7.2	7.8	7.6	6.1	5.8	5.9	41
2.4	2.3	2.3	10.7	11.2	11.2	1.0	.9	.9	8.4	8.6	8.8	6.2	6.2	6.3	42
5.6	5.8	5.8	33.9	34.9	35.3	11.0	12.0	12.1	26.7	27.9	28.3	53.1	54.1	54.1	43
32.1	33.2	33.1	140.8	147.3	148.6	35.1	36.1	36.2	127.2	133.4	134.0	75.8	74.8	74.7	44
2.5	2.4	2.4	12.2	12.5	12.7	2.0	2.2	2.2	10.6	10.7	10.9	8.7	8.4	8.6	45
13.8	15.6	16.0	39.0	44.3	45.1	6.1	6.7	6.8	24.9	25.8	26.2	37.3	39.5	39.9	46
2.4	2.7	2.7	9.1	11.2	11.4	1.4	1.5	1.5	5.2	5.5	5.6	4.8	4.3	4.5	47
3.3	3.7	3.7	6.0	6.8	7.0	1.4	1.5	1.5	4.1	3.5	3.3	7.1	6.9	6.9	48

# ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

**C-1. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls by industry division, 1955 to date**

Year and month	Average												
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Hourly earnings excl. overtime
	Total private <sup>2</sup>			Mining			Construction			Manufacturing			
1957.....	\$ 73.33	38.8	\$ 1.89	\$ 98.25	40.1	\$ 2.45	\$ 100.27	37.0	\$ 2.71	\$ 81.19	39.8	\$ 2.04	\$ 1.98
1958.....	75.08	38.5	1.95	96.08	38.9	2.47	103.78	36.8	2.82	82.32	39.2	2.10	2.05
1959.....	78.78	39.0	2.02	103.68	40.5	2.56	108.41	37.0	2.93	88.26	40.3	2.19	2.12
1960.....	80.67	38.6	2.09	105.04	40.4	2.60	112.67	36.7	3.07	89.72	39.7	2.26	2.19
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	118.08	36.9	3.20	92.34	39.8	2.32	2.25
1962.....	85.91	38.7	2.22	110.70	41.0	2.70	122.47	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.23	40.5	2.45	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53	2.43
1965.....	95.45	38.8	2.46	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61	2.50
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.19	41.4	2.71	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.49	40.6	2.82	2.71
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.49	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	154.80	43.0	3.60	181.54	37.9	4.79	129.51	40.6	3.19	3.05
1970.....	119.83	37.1	3.23	164.40	42.7	3.85	195.45	37.3	5.24	133.33	39.8	3.35	3.23
1971.....	127.31	36.9	3.45	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57	3.45
1972.....	136.90	37.0	3.70	189.14	42.6	4.44	221.19	36.5	6.06	154.71	40.5	3.82	3.66
1973.....	145.39	36.9	3.94	201.40	42.4	4.75	235.89	36.8	6.41	166.46	40.7	4.09	3.91
1974.....	154.76	36.5	4.24	219.14	41.9	5.23	249.25	36.6	6.81	176.80	40.0	4.42	4.25
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	266.08	36.4	7.31	190.79	39.5	4.83	4.67
1976.....	175.45	36.1	4.86	273.90	42.4	6.46	283.73	36.8	7.71	209.32	40.1	5.22	5.02
1977.....	189.00	36.0	5.25	301.63	43.4	6.95	295.65	36.5	8.10	228.90	40.3	5.68	5.44
1978.....	203.70	35.8	5.69	332.88	43.4	7.67	319.19	36.9	8.65	249.27	40.4	6.17	5.90
Apr.....	200.12	35.8	5.59	332.23	43.6	7.62	310.43	37.0	8.39	243.61	40.4	6.03	5.79
May.....	200.63	35.7	5.62	331.58	43.4	7.64	312.68	36.7	8.52	245.23	40.4	6.07	5.82
June.....	204.53	36.2	5.65	336.05	43.7	7.69	324.42	37.9	8.56	249.29	40.8	6.11	5.85
July.....	206.55	36.3	5.69	337.82	43.2	7.82	329.67	38.2	8.63	248.65	40.3	6.17	5.92
Aug.....	206.70	36.2	5.71	338.09	43.4	7.79	330.49	37.9	8.72	248.86	40.4	6.16	5.90
Sept.....	209.52	36.0	5.82	345.39	43.5	7.94	332.63	37.5	8.87	255.60	40.7	6.28	5.99
Oct.....	210.37	35.9	5.86	348.29	43.7	7.97	336.55	37.9	8.88	256.59	40.6	6.32	6.04
Nov.....	210.50	35.8	5.88	352.59	43.8	8.05	324.12	36.5	8.88	260.94	40.9	6.38	6.10
Dec.....	213.35	36.1	5.91	350.18	43.5	8.05	320.56	37.1	8.91	267.86	41.4	6.47	6.18
1979:													
Jan.....	210.14	35.2	5.97	347.68	42.4	8.20	310.02	34.6	8.96	260.25	40.1	6.49	6.22
Feb.....	212.40	35.4	6.00	350.14	42.7	8.20	318.95	35.4	9.01	262.10	40.2	6.52	6.25
Mar. p.....	214.91	35.7	6.02	355.54	43.2	8.23	331.89	37.0	8.97	265.93	40.6	6.55	6.28
Apr. p.....	211.30	35.1	6.02	352.73	42.6	8.28	320.21	35.5	9.02	254.02	38.9	6.53	6.32
	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
1957.....	-	-	-	\$ 59.60	38.7	\$ 1.54	\$ 67.53	36.7	\$ 1.84	-	-	-	-
1958.....	-	-	-	61.76	38.6	1.60	70.12	37.1	1.89	-	-	-	-
1959.....	-	-	-	64.41	38.8	1.66	72.74	37.3	1.95	-	-	-	-
1960.....	-	-	-	66.01	38.6	1.71	75.14	37.2	2.02	-	-	-	-
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	-
1964.....	\$ 118.78	41.1	\$ 2.89	74.66	37.9	1.97	85.79	37.3	2.30	\$ 70.03	36.1	\$ 1.94	-
1965.....	125.14	41.3	3.03	76.91	37.7	2.04	88.91	37.2	2.39	73.60	35.9	2.05	-
1966.....	128.13	41.2	3.11	79.39	37.1	2.14	92.13	37.3	2.47	77.04	35.5	2.17	-
1967.....	130.82	40.5	3.23	82.35	36.6	2.25	95.72	37.1	2.58	80.38	35.1	2.29	-
1968.....	138.85	40.6	3.42	87.00	36.1	2.41	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	147.74	40.7	3.63	91.39	35.7	2.56	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	96.02	35.3	2.72	112.67	36.7	3.07	96.66	34.4	2.81	-
1971.....	168.82	40.1	4.21	101.09	35.1	2.88	117.85	36.6	3.22	103.06	33.9	3.04	-
1972.....	187.86	40.4	4.65	106.45	34.9	3.05	122.98	36.6	3.36	110.85	33.9	3.27	-
1973.....	203.31	40.5	5.02	111.76	34.6	3.23	129.20	36.6	3.53	117.29	33.8	3.47	-
1974.....	217.48	40.2	5.41	119.02	34.2	3.48	137.61	36.5	3.77	126.00	33.6	3.75	-
1975.....	233.44	39.7	5.88	126.45	33.9	3.73	148.19	36.5	4.06	134.67	33.5	4.02	-
1976.....	256.71	39.8	6.45	133.79	33.7	3.97	155.43	36.4	4.27	143.52	33.3	4.31	-
1977.....	278.90	39.9	6.99	142.52	33.3	4.28	165.26	36.4	4.54	153.45	33.0	4.65	-
1978.....	302.00	40.0	7.55	153.31	32.9	4.66	178.36	36.4	4.90	163.67	32.8	4.99	-
Apr.....	296.51	39.8	7.45	150.42	32.7	4.60	177.14	36.6	4.84	162.36	32.8	4.95	-
May.....	297.26	39.9	7.45	150.75	32.7	4.61	176.06	36.3	4.85	161.37	32.6	4.95	-
June.....	301.04	40.3	7.47	153.38	33.2	4.62	178.49	36.5	4.89	162.69	33.0	4.93	-
July.....	301.20	40.0	7.53	157.04	33.7	4.66	180.93	36.7	4.93	164.84	33.3	4.95	-
Aug.....	307.49	40.3	7.63	156.45	33.5	4.67	179.71	36.6	4.91	164.01	33.2	4.94	-
Sept.....	309.94	40.2	7.71	155.47	32.8	4.74	180.91	36.4	4.97	165.46	32.7	5.06	-
Oct.....	309.57	40.1	7.72	156.31	32.7	4.78	183.73	36.6	5.02	167.42	32.7	5.12	-
Nov.....	308.80	40.0	7.72	156.00	32.5	4.80	182.59	36.3	5.03	167.24	32.6	5.13	-
Dec.....	314.36	40.2	7.82	158.88	33.1	4.80	184.04	36.3	5.07	167.70	32.5	5.16	-
1979:													
Jan.....	312.44	39.6	7.89	158.22	31.9	4.96	186.73	36.4	5.13	169.78	32.4	5.24	-
Feb.....	315.61	39.9	7.91	159.54	32.1	4.97	188.92	36.4	5.19	170.75	32.4	5.27	-
Mar. p.....	316.40	40.0	7.91	161.03	32.4	4.97	187.31	36.3	5.16	171.28	32.5	5.27	-
Apr. p.....	308.11	39.2	7.86	162.18	32.5	4.99	188.76	36.3	5.20	172.58	32.5	5.31	-

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

<sup>2</sup>Data include Alaska and Hawaii beginning 1959.

<sup>3</sup>Prior to January 1956, data were based on the application of adjustment factors to gross average hourly earnings. (See Explanatory Note.)

p = preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-2. Gross hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by industry

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>b</sup>	Apr. 1979 <sup>b</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>b</sup>	Apr. 1979 <sup>b</sup>
-	<b>TOTAL PRIVATE</b> .....	\$197.62	\$200.12	\$212.40	\$214.91	\$211.30	\$5.52	\$5.59	\$6.00	\$6.02	\$6.02
-	<b>MINING</b> .....	301.63	332.23	350.14	355.54	352.73	6.95	7.62	8.20	8.23	8.28
10	<b>METAL MINING</b> .....	321.50	328.00	369.93	365.56	-	7.88	8.00	8.85	8.83	-
101	Iron ores .....	344.86	357.57	391.73	391.87	-	8.02	8.22	9.11	9.05	-
102	Copper ores .....	318.63	317.49	388.67	380.16	-	8.17	8.12	9.06	9.03	-
11, 12	<b>COAL MINING</b> .....	307.13	387.57	398.93	413.25	-	8.04	9.43	9.85	9.91	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	308.18	388.81	401.13	414.50	-	8.11	9.46	9.88	9.94	-
13	<b>OIL AND GAS EXTRACTION</b> .....	307.58	314.64	331.94	334.02	-	6.82	6.90	7.51	7.54	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	323.90	336.04	362.75	353.68	-	7.90	8.02	8.72	8.69	-
138	Oil and gas field services .....	300.33	304.44	319.37	325.18	-	6.39	6.45	7.05	7.10	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	262.64	275.40	280.77	293.26	-	6.01	6.12	6.56	6.59	-
142	Crushed and broken stone .....	252.88	271.20	266.25	290.65	-	5.80	6.00	6.25	6.36	-
-	<b>CONSTRUCTION</b> .....	304.92	310.43	318.95	331.89	320.21	8.40	8.39	9.01	8.97	9.02
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	279.46	281.10	291.53	305.17	-	7.85	7.83	8.45	8.43	-
152	Residential building construction .....	261.99	264.89	275.31	289.17	-	7.38	7.42	8.05	8.10	-
153	Operative builders .....	244.93	259.52	249.98	267.86	-	7.12	7.11	7.44	7.42	-
154	Nonresidential building construction .....	304.79	302.28	317.45	330.10	-	8.49	8.42	9.07	8.97	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	308.83	310.40	313.81	329.18	-	7.74	7.76	8.28	8.25	-
161	Highway and street construction .....	268.40	286.75	284.36	300.51	-	6.71	6.96	7.31	7.42	-
162	Heavy construction, except highway .....	323.97	321.11	324.75	340.96	-	8.14	8.15	8.66	8.61	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	316.64	326.87	334.95	345.94	-	8.97	8.98	9.57	9.53	-
171	Plumbing, heating, air conditioning .....	337.94	344.79	351.87	359.10	-	9.06	9.17	9.51	9.50	-
172	Painting, paper hanging, decorating .....	278.03	280.72	306.68	315.04	-	8.25	8.09	9.02	8.95	-
173	Electrical work .....	368.28	379.38	397.36	408.19	-	9.90	10.01	10.54	10.63	-
174	Masonry, stonework, and plastering .....	289.74	303.79	308.98	323.16	-	8.78	8.78	9.42	9.34	-
175	Carpentering and flooring .....	274.46	284.20	290.83	303.06	-	8.12	8.12	8.76	8.81	-
176	Roofing and sheet metal work .....	241.64	265.10	241.38	275.89	-	7.82	7.89	8.10	8.31	-
-	<b>MANUFACTURING</b> .....	242.40	243.61	262.10	265.93	254.02	6.00	6.03	6.52	6.55	6.53
24, 25, 32-39	<b>DURABLE GOODS</b> .....	263.04	265.33	285.65	289.39	272.05	6.40	6.44	6.95	6.99	6.94
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	212.37	213.55	226.01	229.91	225.59	5.39	5.42	5.81	5.85	5.89
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	213.30	217.74	226.98	229.89	227.18	5.40	5.43	5.82	5.82	5.84
241	Logging camps and logging contractors .....	267.58	274.95	287.43	286.41	-	6.95	7.05	7.37	7.42	-
242	Sawmills and planing mills .....	226.55	230.45	241.40	244.22	-	5.58	5.58	6.02	6.03	-
2421	Sawmills and planing mills, general .....	238.50	243.78	253.60	256.37	-	5.86	5.86	6.34	6.33	-
2426	Hardwood dimension and flooring .....	157.12	157.92	171.37	172.19	-	3.87	3.88	4.19	4.21	-
243	Millwork, plywood, and structural members .....	212.65	217.88	224.65	227.94	-	5.37	5.42	5.79	5.80	-
2431	Millwork .....	201.37	205.01	212.39	214.62	-	5.15	5.19	5.56	5.56	-
2434	Wood kitchen cabinets .....	186.24	193.15	199.50	202.45	-	4.94	4.94	5.32	5.37	-
2435	Hardwood veneer and plywood .....	178.67	181.56	182.56	187.40	-	4.39	4.45	4.61	4.65	-
2436	Softwood veneer and plywood .....	277.64	285.60	297.88	303.66	-	6.69	6.80	7.23	7.23	-
244	Wooden containers .....	152.80	155.09	164.81	168.35	-	4.00	4.06	4.36	4.35	-
245	Wood buildings and mobile homes .....	187.37	196.74	195.47	203.69	-	5.01	5.11	5.46	5.52	-
2451	Mobile homes .....	188.12	197.49	191.35	199.82	-	5.03	5.09	5.36	5.43	-
249	Miscellaneous wood products .....	178.65	180.64	190.70	195.05	-	4.50	4.55	4.84	4.84	-
25	<b>FURNITURE AND FIXTURES</b> .....	181.03	180.85	187.83	193.55	186.24	4.56	4.59	4.93	4.95	4.94
251	Household furniture .....	169.88	168.56	174.93	181.20	-	4.29	4.30	4.64	4.67	-
2511	Wood household furniture .....	159.98	157.21	165.98	171.47	-	3.96	3.96	4.30	4.33	-
2512	Upholstered household furniture .....	179.64	179.88	184.26	191.38	-	4.63	4.66	4.98	5.01	-
2514	Metal household furniture .....	166.41	167.91	175.08	184.70	-	4.30	4.35	4.81	4.81	-
2515	Mattresses and bedsprings .....	192.56	192.27	192.68	198.15	-	4.95	4.93	5.25	5.27	-
252	Office furniture .....	208.79	209.00	211.07	214.67	-	5.08	5.11	5.33	5.34	-
253	Public building and related furniture .....	209.84	207.90	215.06	223.58	-	5.22	5.25	5.31	5.44	-
254	Partitions and fixtures .....	213.55	214.82	227.76	229.90	-	5.42	5.48	5.87	5.91	-
259	Miscellaneous furniture and fixtures .....	193.65	195.53	207.20	210.11	-	4.94	4.95	5.41	5.36	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
-	<b>TOTAL PRIVATE</b> .....	35.8	35.8	35.4	35.7	35.1	-	-	-	-	-
-	<b>MINING</b> .....	43.4	43.6	42.7	43.2	42.6	-	-	-	-	-
10	<b>METAL MINING</b> .....	40.8	41.0	41.8	41.4	-	-	-	-	-	-
101	Iron ores .....	43.0	43.5	43.0	43.3	-	-	-	-	-	-
102	Copper ores .....	39.0	39.1	42.9	42.1	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	38.2	41.1	40.5	41.7	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING .....	38.0	41.1	40.6	41.7	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	45.1	45.6	44.2	44.3	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	41.0	41.9	41.6	40.7	-	-	-	-	-	-
138	Oil and gas field services .....	47.0	47.2	45.3	45.8	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	43.7	45.0	42.8	44.5	-	-	-	-	-	-
142	Crushed and broken stone .....	43.6	45.2	42.6	45.7	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	36.3	37.0	35.4	37.0	35.5	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	35.6	35.9	34.5	36.2	-	-	-	-	-	-
152	Residential building construction .....	35.5	35.7	34.2	35.7	-	-	-	-	-	-
153	Operative builders .....	34.4	36.5	33.6	36.1	-	-	-	-	-	-
154	Nonresidential building construction .....	35.9	35.9	35.0	36.8	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	39.9	40.0	37.9	39.9	-	-	-	-	-	-
161	Highway and street construction .....	40.0	41.2	38.9	40.5	-	-	-	-	-	-
162	Heavy construction, except highway .....	39.8	39.4	37.5	39.6	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	35.3	36.4	35.0	36.3	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	37.3	37.6	37.0	37.8	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	33.7	34.7	34.0	35.2	-	-	-	-	-	-
173	Electrical work .....	37.2	37.9	37.0	38.4	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	33.0	34.6	32.8	34.6	-	-	-	-	-	-
175	Carpentering and flooring .....	33.8	35.0	33.2	34.4	-	-	-	-	-	-
176	Roofing and sheet metal work .....	30.9	33.6	29.8	33.2	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	40.4	40.4	40.2	40.6	38.9	3.5	3.5	3.5	3.6	2.5
24, 25, 32-39	<b>DURABLE GOODS</b> .....	41.1	41.2	41.1	41.4	39.2	3.7	3.7	3.9	3.9	2.6
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	39.4	39.4	38.9	39.3	38.3	3.1	3.1	3.0	3.1	2.4
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	39.5	40.1	39.0	39.5	38.9	3.5	3.7	3.5	3.5	-
241	Logging camps and logging contractors .....	38.5	39.0	39.0	38.6	-	4.2	4.1	5.1	4.5	-
242	Sawmills and planing mills .....	40.6	41.3	40.1	40.5	-	4.4	4.7	4.2	4.5	-
2421	Sawmills and planing mills, general .....	40.7	41.6	40.0	40.5	-	4.5	4.9	4.5	4.8	-
2426	Hardwood dimension and flooring .....	40.6	40.7	40.9	40.9	-	4.0	3.9	3.5	3.5	-
243	Millwork, plywood, and structural members .....	39.6	40.2	38.8	39.3	-	2.9	3.2	2.9	2.9	-
2431	Millwork .....	39.1	39.5	38.2	38.6	-	2.2	2.3	1.9	1.8	-
2434	Wood kitchen cabinets .....	37.7	39.1	37.5	37.7	-	1.8	2.0	2.2	2.1	-
2436	Hardwood veneer and plywood .....	40.7	40.8	39.6	40.3	-	3.8	4.0	3.7	3.6	-
2438	Softwood veneer and plywood .....	41.5	42.0	41.2	42.0	-	4.7	5.2	4.8	5.1	-
244	Wooden containers .....	38.2	38.2	37.8	38.7	-	3.1	3.3	3.0	3.1	-
245	Wood buildings and mobile homes .....	37.4	38.5	35.8	36.9	-	1.8	2.2	1.5	1.4	-
2451	Mobile homes .....	37.4	38.8	35.7	36.8	-	1.7	2.0	1.1	1.0	-
249	Miscellaneous wood products .....	39.7	39.7	39.4	40.3	-	3.4	3.4	3.2	3.4	-
25	<b>FURNITURE AND FIXTURES</b> .....	39.7	39.4	38.1	39.1	37.7	2.7	2.5	2.2	2.3	-
251	Household furniture .....	39.6	39.2	37.7	38.8	-	2.8	2.6	2.2	2.3	-
2511	Wood household furniture .....	40.4	39.7	38.6	39.6	-	3.5	3.1	2.9	3.0	-
2512	Upholstered household furniture .....	38.8	38.6	37.0	38.2	-	2.1	1.9	1.4	1.5	-
2514	Metal household furniture .....	38.7	38.6	36.4	38.4	-	2.3	2.0	1.5	2.0	-
2515	Mattresses and bedsprings .....	38.9	39.0	36.7	37.6	-	2.8	2.5	1.8	2.1	-
252	Office furniture .....	41.1	40.9	39.6	40.2	-	3.0	3.0	2.5	2.4	-
253	Public building and related furniture .....	40.2	39.6	40.5	41.1	-	2.8	2.9	2.0	2.4	-
254	Partitions and fixtures .....	39.4	39.2	38.8	38.9	-	2.2	2.1	2.2	2.0	-
259	Miscellaneous furniture and fixtures .....	39.2	39.5	38.3	39.2	-	2.2	1.9	2.3	2.0	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	\$251.10	\$257.71	\$266.74	\$276.05	\$275.52	\$6.08	\$6.18	\$6.57	\$6.62	\$6.72
321	Flat glass	341.78	331.62	361.11	361.68	-	7.75	7.73	8.17	8.22	-
322	Glass and glassware, pressed or blown	254.47	265.43	275.09	280.78	-	6.33	6.57	6.86	6.95	-
3221	Glass containers	258.80	280.17	285.82	290.19	-	6.47	6.85	7.04	7.13	-
3229	Pressed and blown glass, nec	248.67	244.33	260.83	269.07	-	6.14	6.17	6.62	6.71	-
323	Products of purchased glass	249.90	243.20	262.25	260.65	-	6.11	6.08	6.54	6.50	-
324	Cement, hydraulic	350.20	351.50	381.01	402.43	-	8.24	8.29	9.05	9.23	-
325	Structural clay products	204.67	208.00	219.35	224.26	-	4.92	5.00	5.35	5.43	-
326	Pottery and related products	201.20	198.18	214.50	216.66	-	5.03	5.03	5.50	5.43	-
327	Concrete, gypsum, and plaster products	249.37	264.31	255.60	278.40	-	5.98	6.09	6.39	6.52	-
3271	Concrete block and brick	228.76	240.46	240.98	264.65	-	5.37	5.49	6.07	6.07	-
3272	Concrete products, nec	228.65	233.20	230.11	247.29	-	5.47	5.50	5.71	5.86	-
3273	Ready-mixed concrete	267.59	292.52	269.31	300.84	-	6.64	6.74	7.05	7.18	-
329	Misc. nonmetallic mineral products	254.94	257.65	279.36	282.71	-	6.07	6.12	6.62	6.59	-
3291	Abrasive products	248.46	247.46	267.39	271.70	-	6.06	6.11	6.49	6.50	-
3292	Asbestos products	267.95	274.68	284.43	287.86	-	6.29	6.30	6.63	6.71	-
33	<b>PRIMARY METAL INDUSTRIES</b>	329.51	331.17	368.38	367.08	358.09	7.94	7.98	8.75	8.74	8.82
331	Blast furnaces and basic steel products	377.80	376.07	428.75	(*)	-	9.17	9.15	10.48	(*)	-
3312	Blast furnaces and steel mills	386.91	386.10	442.05	(*)	-	9.46	9.44	10.50	(*)	-
3317	Steel pipe and tubes	319.18	318.42	347.23	355.26	-	7.51	7.51	8.17	8.32	-
332	Iron and steel foundries	291.62	294.53	321.86	325.43	-	7.01	7.08	7.70	7.75	-
3321	Gray iron foundries	301.68	303.36	326.61	333.90	-	7.20	7.24	7.87	7.95	-
3322	Malleable iron foundries	297.54	300.17	341.55	343.61	-	7.42	7.43	8.29	8.34	-
3325	Steel foundries, nec	272.24	276.97	308.00	308.02	-	6.56	6.69	7.23	7.18	-
333	Primary nonferrous metals	346.51	346.94	377.04	378.07	-	8.27	8.32	9.02	9.11	-
3334	Primary aluminum	376.68	372.19	396.34	402.68	-	8.99	8.99	9.62	9.75	-
335	Nonferrous rolling and drawing	297.46	302.29	325.89	338.52	-	6.95	7.03	7.65	7.80	-
3351	Copper rolling and drawing	287.76	292.15	314.16	312.40	-	6.54	6.67	7.14	7.10	-
3353	Aluminum sheet, plate, and foil	363.35	361.12	396.89	419.52	-	8.45	8.34	9.23	9.47	-
3357	Nonferrous wire drawing and insulating	275.80	279.54	305.28	312.74	-	6.52	6.64	7.20	7.29	-
336	Nonferrous foundries	241.19	246.64	266.15	269.45	-	5.97	6.06	6.46	6.54	-
3361	Aluminum foundries	248.65	253.97	277.69	280.71	-	6.17	6.24	6.74	6.83	-
34	<b>FABRICATED METAL PRODUCTS</b>	254.41	256.88	271.99	277.28	255.92	6.19	6.25	6.65	6.73	6.63
341	Metal cans and shipping containers	334.80	342.61	370.66	379.24	-	7.75	7.84	8.60	8.84	-
3411	Metal cans	345.17	352.66	380.09	387.82	-	7.99	8.07	8.86	9.04	-
342	Cutlery, hand tools, and hardware	247.20	247.23	255.27	262.85	-	6.00	6.03	6.35	6.49	-
3423, 5	Hand and edge tools, and hand saws and blades	240.69	239.51	245.41	251.91	-	5.69	5.73	6.12	6.22	-
3429	Hardware, nec	257.86	258.04	265.72	275.27	-	6.32	6.34	6.61	6.78	-
343	Plumbing and heating, except electric	213.55	213.64	231.28	236.59	-	5.42	5.45	5.87	5.90	-
3432	Plumbing fittings and brass goods	209.87	209.35	229.14	237.72	-	5.26	5.30	5.70	5.77	-
3433	Heating equipment, except electric	204.86	204.19	219.27	223.68	-	5.28	5.29	5.74	5.75	-
344	Fabricated structural metal products	236.59	236.99	252.10	257.11	-	5.90	5.91	6.35	6.38	-
3441	Fabricated structural metal	244.01	248.67	264.27	273.10	-	6.07	6.14	6.64	6.76	-
3442	Metal doors, sash, and trim	185.81	184.08	195.58	197.88	-	4.74	4.72	5.12	5.18	-
3443	Fabricated plate work (boiler shops)	265.27	263.25	279.45	283.66	-	6.47	6.50	6.90	6.77	-
3444	Sheet metal work	240.98	242.19	253.99	259.75	-	6.07	6.07	6.43	6.51	-
3446	Architectural metal work	221.43	222.26	247.63	242.35	-	5.62	5.67	6.16	6.12	-
345	Screw machine products, bolts, etc.	249.95	250.06	273.62	275.99	-	5.84	5.87	6.29	6.33	-
3451	Screw machine products	233.33	234.18	250.22	249.48	-	5.49	5.51	5.86	5.87	-
3452	Bolts, nuts, rivets, and washers	267.03	267.07	297.70	303.07	-	6.21	6.24	6.72	6.78	-
346	Metal forgings and stampings	301.07	309.94	323.11	331.01	-	7.22	7.31	7.73	7.90	-
3462	Iron and steel forgings	329.43	336.23	359.13	371.09	-	7.90	7.93	8.47	8.59	-
3465	Automotive stampings	366.36	382.36	383.88	392.78	-	8.60	8.69	9.14	9.58	-
3469	Metal stampings, nec	224.81	226.03	242.84	247.38	-	5.51	5.54	5.88	5.89	-
347	Metal services, nec	203.11	205.54	218.02	223.30	-	5.04	5.05	5.37	5.42	-
3471	Plating and polishing	196.18	198.13	210.77	217.01	-	4.88	4.88	5.23	5.28	-
3479	Metal coating and allied services	220.58	224.68	237.80	238.88	-	5.46	5.48	5.73	5.77	-
348	Ordnance and accessories, nec	249.60	246.60	263.90	266.50	-	6.00	6.00	6.50	6.50	-
3483	Ammunition, exc. for small arms, nec	223.76	224.16	241.52	242.61	-	5.58	5.59	6.13	6.05	-
349	Misc. fabricated metal products	242.26	242.35	260.38	261.65	-	5.88	5.94	6.32	6.32	-
3494	Valves and pipe fittings	261.84	260.21	276.47	279.54	-	6.19	6.24	6.63	6.64	-
3496	Misc. fabricated wire products	208.87	209.08	228.02	230.36	-	5.17	5.24	5.63	5.66	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	279.60	277.62	303.45	305.44	283.91	6.61	6.61	7.14	7.17	7.08
351	Engines and turbines	338.35	322.70	359.55	360.40	-	7.98	7.72	8.48	8.52	-
3511	Turbines and turbine generator sets	285.84	282.57	316.61	320.99	-	7.20	7.19	7.76	7.81	-
3519	Internal combustion engines, nec	358.88	338.12	374.96	374.05	-	8.25	7.90	8.72	8.76	-
352	Farm and garden machinery	298.69	290.60	337.33	337.82	-	7.18	7.14	7.90	7.93	-
3523	Farm machinery and equipment	306.69	298.41	352.13	351.74	-	7.39	7.35	8.17	8.18	-
353	Construction and related machinery	298.07	298.49	323.94	322.83	-	7.08	7.09	7.64	7.65	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	41.3	41.7	40.6	41.7	41.0	4.4	4.8	4.2	4.6	-
321	Flat glass	44.1	42.9	44.2	44.0	-	6.8	6.0	5.9	5.4	-
322	Glass and glassware, pressed or blown	40.2	40.4	40.1	40.4	-	4.1	4.1	4.0	4.1	-
3221	Glass containers	40.0	40.9	40.6	40.7	-	4.7	4.7	4.4	4.6	-
3229	Pressed and blown glass, nec	40.5	39.6	39.4	40.1	-	3.3	3.2	3.4	3.3	-
323	Products of purchased glass	40.9	40.0	40.1	40.1	-	3.7	3.5	4.7	4.4	-
324	Cement, hydraulic	42.5	42.4	42.1	43.6	-	4.4	4.5	4.3	5.4	-
325	Structural clay products	41.6	41.6	41.0	41.3	-	4.4	4.4	3.9	3.8	-
326	Pottery and related products	40.0	39.4	39.0	39.9	-	2.6	2.4	2.3	2.4	-
327	Concrete, gypsum, and plaster products	41.7	43.4	40.0	42.7	-	5.5	6.7	4.7	5.8	-
3271	Concrete block and brick	42.6	43.8	39.7	43.6	-	5.7	7.6	4.7	6.4	-
3272	Concrete products, nec	41.8	42.4	40.3	42.2	-	4.8	5.7	4.1	4.9	-
3273	Ready-mixed concrete	40.3	43.4	38.2	41.9	-	5.4	6.9	4.3	5.8	-
329	Misc. nonmetallic mineral products	42.0	42.1	42.2	42.9	-	4.1	4.2	4.6	4.6	-
3291	Abrasive products	41.0	40.5	41.2	41.8	-	3.7	3.4	3.6	3.9	-
3292	Asbestos products	42.6	43.6	42.9	42.9	-	4.1	4.8	3.7	3.8	-
33	<b>PRIMARY METAL INDUSTRIES</b>	41.5	41.5	42.1	42.0	40.6	3.8	3.8	4.4	4.3	-
331	Blast furnace and basic steel products	41.2	41.1	42.2	42.2	(*)	3.2	3.0	4.0	(*)	-
3312	Blast furnaces and steel mills	40.9	40.9	42.1	(*)	-	3.1	2.9	3.9	(*)	-
3317	Steel pipe and tubes	42.5	42.4	42.5	42.7	-	4.4	4.5	4.8	4.8	-
332	Iron and steel foundries	41.6	41.6	41.8	42.1	-	4.4	4.5	4.8	4.7	-
3321	Gray iron foundries	41.9	41.9	41.5	42.0	-	5.0	5.0	4.8	4.8	-
3322	Malleable iron foundries	40.1	40.4	41.2	41.2	-	3.3	3.6	5.0	4.7	-
3325	Steel foundries, nec	41.5	41.4	42.6	42.9	-	3.4	3.5	4.6	4.6	-
333	Primary nonferrous metals	41.9	41.7	41.8	41.5	-	3.6	3.5	3.6	3.8	-
3334	Primary aluminum	41.9	41.4	41.2	41.3	-	4.2	4.4	3.7	3.9	-
335	Nonferrous rolling and drawing	42.8	43.0	42.6	43.4	-	4.9	5.1	5.2	5.7	-
3351	Copper rolling and drawing	44.0	43.8	44.0	44.0	-	5.5	5.3	6.6	6.2	-
3353	Aluminum sheet, plate and foil	43.0	43.3	43.0	44.3	-	6.8	6.9	6.6	7.7	-
3357	Nonferrous wire drawing and insulating	42.3	42.1	42.4	42.9	-	4.3	4.3	4.5	4.8	-
336	Nonferrous foundries	40.4	40.7	41.2	41.2	-	3.4	3.3	3.9	4.0	-
3361	Aluminum foundries	40.3	40.7	41.2	41.1	-	3.5	3.6	4.2	4.3	-
34	<b>FABRICATED METAL PRODUCTS</b>	41.1	41.1	40.9	41.2	38.6	3.6	3.7	3.6	3.7	-
341	Metal cans and shipping containers	43.2	43.7	43.1	42.9	-	4.6	4.8	5.0	5.1	-
3411	Metal cans	43.2	43.7	42.9	42.9	-	4.3	4.4	4.7	4.5	-
342	Cutlery, hand tools, and hardware	41.2	41.0	40.2	40.5	-	3.5	3.4	3.0	3.4	-
3423, 5	Hand and edge tools, and hand saws and blades	42.3	41.8	40.1	40.5	-	3.9	3.8	3.0	3.4	-
3429	Hardware, nec	40.8	40.7	40.2	40.6	-	3.4	3.2	3.0	3.4	-
343	Plumbing and heating, except electric	39.4	39.2	39.4	40.1	-	2.4	2.0	2.8	2.7	-
3432	Plumbing fittings and brass goods	39.9	39.5	40.2	41.2	-	2.4	1.7	3.1	3.2	-
3433	Heating equipment, except electric	38.8	38.6	38.2	38.9	-	1.9	1.7	2.3	2.1	-
344	Fabricated structural metal products	40.1	40.1	39.7	40.3	-	2.9	3.0	2.6	2.7	-
3441	Fabricated structural metal	40.2	40.5	39.8	40.4	-	2.8	3.0	3.4	3.8	-
3442	Metal doors, sash, and trim	39.2	39.0	38.2	38.2	-	2.4	2.6	1.5	1.5	-
3443	Fabricated plate work (boiler shops)	41.0	40.5	40.5	41.9	-	3.4	3.2	2.6	2.7	-
3444	Sheet metal work	39.7	39.9	39.5	39.9	-	3.1	3.2	2.7	3.1	-
3446	Architectural metal work	39.4	39.2	40.2	39.6	-	1.7	1.5	2.2	1.7	-
345	Screw machine products, bolts, etc.	42.8	42.6	43.5	43.6	-	5.1	5.1	5.6	5.7	-
3451	Screw machine products	42.5	42.5	42.7	42.5	-	5.5	5.5	5.7	5.5	-
3452	Bolts, nuts, rivets, and washers	43.0	42.8	44.3	44.7	-	4.7	4.7	5.5	6.0	-
346	Metal forgings and stampings	41.7	42.4	41.8	41.9	-	4.5	5.0	4.6	4.8	-
3462	Iron and steel forgings	41.7	42.4	42.4	43.2	-	5.0	5.1	5.2	5.2	-
3465	Automotive stampings	42.6	44.0	42.0	41.0	-	5.1	6.5	5.1	5.5	-
3469	Metal stampings, nec	40.8	40.8	41.3	42.0	-	3.6	3.5	3.7	3.9	-
347	Metal services, nec	40.3	40.7	40.6	41.2	-	3.9	3.9	3.7	3.8	-
3471	Plating and polishing	40.2	40.6	40.3	41.1	-	3.8	3.8	3.5	3.7	-
3479	Metal coating and allied services	40.4	41.0	41.5	41.4	-	4.2	4.2	4.3	4.2	-
348	Ordinance and accessories, nec	41.6	41.1	40.6	41.0	-	3.2	3.0	2.7	2.5	-
3483	Ammunition, exc. for small arms, nec	40.1	40.1	39.4	40.1	-	2.4	2.1	1.7	1.7	-
349	Misc. fabricated metal products	41.2	40.8	41.2	41.4	-	3.4	3.2	3.6	3.5	-
3494	Valves and pipe fittings	42.3	41.7	41.7	42.1	-	3.8	3.5	3.7	3.8	-
3496	Misc. fabricated wire products	40.4	39.9	40.5	40.7	-	2.6	2.6	3.3	3.5	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	42.3	42.0	42.5	42.6	40.1	4.3	4.1	4.5	4.4	-
351	Engines and turbines	42.4	41.8	42.4	42.3	-	4.4	3.9	4.5	4.3	-
3511	Turbines and turbine generator sets	39.7	39.3	40.8	41.1	-	3.9	3.6	3.8	3.9	-
3519	Internal combustion engines, nec	43.5	42.8	43.0	42.7	-	4.6	4.0	4.7	4.5	-
352	Farm and garden machinery	41.6	40.7	42.7	42.6	-	4.0	3.3	5.9	5.2	-
3523	Farm machinery and equipment	41.5	40.6	43.1	43.0	-	4.0	3.2	6.2	5.5	-
353	Construction and related machinery	42.1	42.1	42.4	42.2	-	3.9	3.7	3.6	3.7	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery .....	\$320.08	\$321.86	\$354.90	\$354.06	-	\$7.75	\$7.70	\$8.43	\$8.43	-
3532	Mining machinery .....	284.82	284.54	330.71	326.47	-	6.93	6.94	7.62	7.61	-
3533	Oil field machinery .....	290.79	286.67	298.42	303.53	-	6.52	6.53	6.94	7.01	-
3535	Conveyers and conveying equipment .....	249.83	259.98	268.16	275.60	-	6.02	6.19	6.40	6.50	-
3537	Industrial trucks and tractors .....	266.62	265.27	291.21	287.73	-	6.44	6.47	6.95	6.90	-
354	<b>Metalworking machinery</b>	305.03	304.54	329.89	332.27	-	6.87	6.89	7.43	7.45	-
3541	Machine tools, metal cutting types .....	320.81	316.85	342.45	342.76	-	7.02	7.01	7.61	7.60	-
3542	Machine tools, metal forming types .....	306.01	305.02	327.56	331.47	-	7.10	7.11	7.60	7.62	-
3544	Special dies, tools, jigs, and fixtures .....	332.67	335.67	362.18	365.70	-	7.36	7.41	7.96	7.95	-
3545	Machine tool accessories .....	273.50	270.19	292.28	294.19	-	6.23	6.24	6.75	6.81	-
3546	Power driven hand tools .....	228.90	221.81	244.50	247.20	-	5.45	5.41	5.92	6.00	-
355	<b>Special industry machinery</b>	262.70	261.88	281.40	285.02	-	6.24	6.28	6.70	6.77	-
3551	Food products machinery .....	271.00	270.50	297.65	299.71	-	6.53	6.63	7.07	7.17	-
3552	Textile machinery .....	209.61	210.83	227.98	231.44	-	5.15	5.18	5.52	5.55	-
3555	Printing trades machinery .....	279.07	281.23	285.69	287.46	-	6.46	6.48	6.77	6.91	-
356	<b>General industrial machinery</b>	269.86	271.26	296.65	300.17	-	6.55	6.60	7.08	7.13	-
3561	Pumps and pumping equipment .....	270.27	270.60	296.81	299.04	-	6.56	6.60	7.05	7.12	-
3562	Ball and roller bearings .....	260.65	268.46	300.33	307.16	-	6.42	6.58	7.10	7.16	-
3563	Air and gas compressors .....	289.20	284.34	302.54	303.64	-	6.71	6.77	7.29	7.37	-
3564	Blowers and fans .....	242.20	242.81	260.53	267.07	-	6.01	6.04	6.37	6.42	-
3568	Speed changers, drives, and gears .....	298.32	298.90	335.98	343.30	-	6.97	7.00	7.55	7.68	-
3568	Power transmission equipment, nec .....	260.57	264.99	296.50	292.88	-	6.34	6.37	6.96	6.99	-
357	<b>Office and computing machines</b>	226.87	225.23	244.44	246.69	-	5.48	5.48	5.89	5.93	-
3573	Electronic computing equipment .....	227.01	224.95	243.28	245.78	-	5.47	5.46	5.82	5.88	-
358	<b>Refrigeration and service machinery</b>	251.64	246.38	262.85	262.75	-	6.02	5.98	6.49	6.44	-
3585	Refrigeration and heating equipment .....	259.49	252.51	269.58	270.03	-	6.12	6.07	6.64	6.57	-
359	<b>Misc. machinery, except electrical</b>	266.91	269.87	296.87	300.94	-	6.31	6.38	6.89	6.95	-
3592	Carburetors, pistons, rings, valves .....	302.73	310.06	351.11	336.04	-	7.33	7.40	8.09	8.02	-
3599	Machinery, except electrical, nec .....	260.53	262.88	286.14	294.06	-	6.13	6.20	6.67	6.76	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	229.47	229.14	248.67	252.14	\$238.23	5.68	5.70	6.14	6.18	\$6.14
361	Electric distributing equipment .....	233.21	232.47	247.02	251.94	-	5.73	5.74	6.16	6.13	-
3612	Transformers .....	217.21	216.54	231.02	238.38	-	5.75	5.36	5.79	5.80	-
3613	Switchgear and switchboard apparatus .....	246.24	246.04	260.90	264.92	-	6.05	6.06	6.49	6.43	-
362	<b>Electrical industrial apparatus</b>	233.04	232.36	258.52	260.38	-	5.74	5.78	6.29	6.32	-
3621	Motors and generators .....	240.31	238.76	261.35	263.86	-	5.89	5.91	6.39	6.42	-
3622	Industrial controls .....	208.03	210.90	248.46	251.12	-	5.28	5.38	6.06	6.11	-
363	<b>Household appliances</b>	230.04	230.52	247.78	252.23	-	5.68	5.72	6.21	6.29	-
3632	Household refrigerators and freezers .....	257.66	250.20	269.87	268.00	-	6.02	6.00	6.68	6.70	-
3633	Household laundry equipment .....	261.46	262.28	284.07	295.07	-	6.67	6.64	7.21	7.34	-
3634	Electric housewares and fans .....	191.83	198.21	208.68	214.00	-	4.76	4.87	5.31	5.35	-
364	<b>Electric lighting and wiring equipment</b>	215.59	216.27	230.11	231.26	-	5.31	5.34	5.71	5.71	-
3641	Electric lamps .....	238.55	237.05	257.71	254.20	-	5.79	5.81	6.18	6.14	-
3643	Current-carrying wiring devices .....	205.09	202.95	215.61	217.34	-	4.93	4.95	5.35	5.34	-
3644	Noncurrent-carrying wiring devices .....	212.31	213.44	233.16	238.04	-	5.43	5.27	5.80	5.82	-
3645	Residential lighting fixtures .....	170.77	164.05	173.74	169.34	-	4.39	4.34	4.56	4.48	-
365	<b>Radio and TV receiving equipment</b>	201.49	203.31	218.88	227.76	-	5.22	5.24	5.76	5.87	-
3651	Radio and TV receiving sets .....	204.82	208.59	224.53	233.31	-	5.32	5.39	5.94	6.06	-
366	<b>Communication equipment</b>	264.87	261.20	289.10	293.82	-	6.54	6.53	7.00	7.08	-
3661	Telephone and telegraph apparatus .....	257.54	252.59	293.56	295.40	-	6.52	6.51	7.16	7.17	-
3662	Radio and TV communication equipment .....	270.52	268.55	286.62	293.02	-	6.55	6.55	6.89	7.01	-
367	<b>Electronic components and accessories</b>	194.00	192.96	209.27	210.71	-	4.79	4.80	5.18	5.19	-
3671-3	Electronic tubes .....	256.52	262.12	267.49	272.48	-	6.05	6.11	6.43	6.55	-
3674	Semiconductors and related devices .....	220.42	215.02	240.66	238.68	-	5.35	5.27	5.73	5.71	-
3679	Electronic components, nec .....	178.85	178.25	192.72	194.97	-	4.46	4.49	4.83	4.85	-
369	<b>Misc. electrical equipment and supplies</b>	269.07	272.83	294.17	295.20	-	6.71	6.72	7.21	7.20	-
3691	Storage batteries .....	279.07	272.56	295.80	287.50	-	6.79	6.78	7.25	7.26	-
3694	Engine electrical equipment .....	296.35	305.78	326.03	332.07	-	7.56	7.55	8.09	8.06	-
37	<b>TRANSPORTATION EQUIPMENT</b>	322.21	327.40	350.28	355.32	315.47	7.69	7.74	8.34	8.42	8.28
371	<b>Motor vehicles and equipment</b>	355.21	362.39	382.17	388.29	-	8.28	8.35	8.95	9.03	-
3711	Motor vehicles and car bodies .....	382.38	385.44	415.51	421.96	-	8.75	8.80	9.53	9.59	-
3713	Truck and bus bodies .....	264.10	272.43	266.85	280.14	-	6.72	6.76	6.79	6.90	-
3714	Motor vehicle parts and accessories .....	348.01	359.31	376.13	381.27	-	8.15	8.26	8.85	8.95	-
3716	Truck trailers .....	223.26	224.92	230.47	229.51	-	5.54	5.54	5.94	5.90	-
372	<b>Aircraft and parts</b>	308.37	310.17	342.71	(*)	-	7.29	7.35	7.97	(*)	-
3721	Aircraft .....	310.99	313.50	352.67	(*)	-	7.44	7.50	8.24	(*)	-
3724	Aircraft engines and engine parts .....	316.15	319.12	349.29	355.18	-	7.55	7.58	8.18	8.26	-
3728	Aircraft equipment, nec .....	294.15	291.17	310.81	308.69	-	6.67	6.74	7.08	7.08	-
373	<b>Ship and boat building and repairing</b>	249.74	254.27	270.74	276.80	-	6.47	6.47	6.96	6.99	-
3731	Shipbuilding and repairing .....	262.74	267.05	288.64	295.07	-	6.86	6.83	7.42	7.47	-
3732	Boat building and repairing .....	205.37	209.08	216.12	221.29	-	5.16	5.24	5.57	5.56	-
374	<b>Railroad equipment</b>	312.38	308.43	(*)	(*)	-	7.79	7.73	(*)	(*)	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery	41.3	41.8	42.1	42.0	—	3.3	3.1	3.0	2.9	—
3532	Mining machinery	41.1	41.0	43.4	42.9	—	3.2	3.0	4.7	4.2	—
3533	Oil field machinery	44.6	43.9	43.0	43.3	—	5.4	5.0	4.4	5.4	—
3535	Conveyers and conveying equipment	41.5	42.0	41.9	42.4	—	3.6	3.9	3.6	4.1	—
3537	Industrial trucks and tractors	41.4	41.0	41.9	41.7	—	3.5	3.4	3.5	3.0	—
354	Metalworking machinery	44.4	44.2	44.4	44.6	—	6.0	5.9	6.4	6.4	—
3541	Machine tools, metal cutting types	45.7	45.2	45.0	45.1	—	6.6	6.2	6.7	6.5	—
3542	Machine tools, metal forming types	43.1	42.9	43.1	43.5	—	5.9	5.6	7.6	7.7	—
3544	Special dies, tools, jigs, and fixtures	45.2	45.3	45.5	46.0	—	7.1	7.3	7.2	7.4	—
3545	Machine tool accessories	43.9	43.3	43.3	43.2	—	5.0	4.6	5.5	5.2	—
3546	Power driven hand tools	42.0	41.0	41.3	41.2	—	4.1	3.4	3.8	3.8	—
355	Special industry machinery	42.1	41.7	42.0	42.1	—	4.0	3.7	4.1	4.2	—
3551	Food products machinery	41.5	40.8	42.1	41.8	—	3.3	3.0	4.1	3.9	—
3552	Textile machinery	40.7	40.7	41.3	41.7	—	2.8	2.8	3.3	3.4	—
3555	Printing trades machinery	43.2	43.4	42.2	41.6	—	5.1	4.4	4.2	4.0	—
356	General industrial machinery	41.2	41.1	41.9	42.1	—	3.9	3.7	4.4	4.6	—
3561	Pumps and pumping equipment	41.2	41.0	42.1	42.0	—	3.9	3.8	4.4	4.3	—
3562	Ball and roller bearings	40.6	40.8	42.3	42.9	—	3.6	3.9	4.9	5.2	—
3563	Air and gas compressors	43.1	42.0	41.5	41.2	—	4.6	3.8	4.3	4.2	—
3564	Blowers and fans	40.3	40.2	40.9	41.6	—	3.4	3.1	3.6	4.0	—
3566	Speed changers, drives, and gears	42.8	42.7	44.5	44.7	—	4.1	4.0	6.1	6.5	—
3568	Power transmission equipment, nec	41.1	41.6	42.6	41.9	—	4.0	3.8	5.2	4.6	—
357	Office and computing machines	41.4	41.1	41.5	41.6	—	3.4	3.1	3.0	2.9	—
3573	Electronic computing equipment	41.5	41.2	41.8	41.8	—	3.4	3.2	3.0	3.0	—
358	Refrigeration and service machinery	41.8	41.2	40.5	40.8	—	3.7	3.2	3.0	2.6	—
3585	Refrigeration and heating equipment	42.4	41.6	40.6	41.1	—	3.9	3.4	3.3	2.9	—
359	Misc. machinery, except electrical	42.3	42.3	43.0	43.3	—	4.7	4.7	5.1	5.1	—
3592	Carburetors, pistons, rings, valves	41.3	41.9	43.4	41.9	—	2.9	3.4	4.8	3.9	—
3599	Machinery, except electrical, nec	42.5	42.4	42.9	43.5	—	5.0	4.9	5.2	5.3	—
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	40.4	40.2	40.5	40.8	38.8	2.7	2.5	2.9	2.9	—
361	Electric distributing equipment	40.7	40.5	40.1	41.1	—	2.7	2.4	2.8	2.8	—
3612	Transformers	40.6	40.4	39.9	41.1	—	2.4	2.1	2.9	3.0	—
3613	Switchgear and switchboard apparatus	40.7	40.6	40.2	41.2	—	2.9	2.7	2.7	2.7	—
362	Electrical industrial apparatus	40.6	40.2	41.1	41.2	—	2.8	2.7	3.4	3.3	—
3621	Motors and generators	40.8	40.4	40.9	41.1	—	3.0	2.8	3.4	3.4	—
3622	Industrial controls	39.4	39.2	41.0	41.1	—	1.7	2.0	3.0	2.9	—
363	Household appliances	40.5	40.3	39.9	40.1	—	2.4	2.2	2.1	2.3	—
3632	Household refrigerators and freezers	42.8	41.7	40.4	40.0	—	2.3	1.6	1.8	1.5	—
3633	Household laundry equipment	39.2	39.5	39.4	40.2	—	1.6	1.7	.5	1.1	—
3634	Electric housewares and fans	40.3	40.7	39.3	40.0	—	2.2	2.4	2.2	2.4	—
364	Electric lighting and wiring equipment	40.6	40.5	40.3	40.5	—	2.9	2.6	3.0	2.9	—
3641	Electric lamps	41.2	40.8	41.7	41.4	—	2.6	2.3	2.8	2.6	—
3643	Current-carrying wiring devices	41.6	41.0	40.3	40.7	—	3.3	2.6	3.0	2.9	—
3644	Noncurrent-carrying wiring devices	39.1	40.5	40.2	40.9	—	2.4	2.7	2.9	3.1	—
3645	Residential lighting fixtures	38.9	37.8	38.1	37.8	—	1.9	1.3	2.5	1.9	—
365	Radio and TV receiving equipment	38.6	38.8	38.0	38.8	—	1.7	1.8	1.8	2.2	—
3651	Radio and TV receiving sets	38.5	38.7	37.8	38.5	—	1.2	1.4	1.7	1.8	—
366	Communication equipment	40.5	40.0	41.3	41.5	—	2.7	2.3	3.0	3.1	—
3661	Telephone and telegraph apparatus	39.5	38.8	41.0	41.2	—	2.2	1.7	3.4	3.4	—
3662	Radio and TV communication equipment	41.3	41.0	41.6	41.8	—	3.1	2.7	2.7	2.8	—
367	Electronic components and accessories	40.5	40.2	40.4	40.6	—	2.8	2.6	2.9	2.9	—
3671-3	Electronic tubes	42.4	42.9	41.6	41.6	—	2.7	2.4	2.0	2.2	—
3674	Semiconductors and related devices	41.2	40.8	42.0	41.8	—	3.5	3.2	3.9	3.5	—
3679	Electronic components, nec	40.1	39.7	39.9	40.2	—	2.6	2.5	2.9	3.0	—
369	Misc. electrical equipment and supplies	40.1	40.6	40.8	41.0	—	3.5	3.3	3.6	3.3	—
3691	Storage batteries	41.1	40.2	40.8	39.6	—	3.3	2.9	3.9	2.9	—
3694	Engine electrical equipment	39.2	40.5	40.3	41.2	—	4.0	3.9	3.5	3.5	—
37	<b>TRANSPORTATION EQUIPMENT</b>	41.9	42.3	42.0	42.2	38.1	4.7	4.9	5.2	5.1	—
371	Motor vehicles and equipment	42.9	43.4	42.7	43.0	—	5.7	6.0	6.2	6.0	—
3711	Motor vehicles and car bodies	43.7	43.8	43.6	44.0	—	6.4	6.3	7.4	7.1	—
3713	Truck and bus bodies	39.3	40.3	39.3	40.6	—	3.4	3.7	3.5	3.8	—
3714	Motor vehicle parts and accessories	42.7	43.5	42.5	42.6	—	5.4	6.2	5.7	5.5	—
3716	Truck trailers	40.3	40.6	38.8	38.9	—	3.1	3.0	2.8	2.3	—
372	Aircraft and parts	42.3	42.2	43.0	(*)	—	4.1	4.0	4.8	(*)	—
3721	Aircraft	41.8	41.8	42.8	(*)	—	3.3	3.2	4.3	(*)	—
3724	Aircraft engines and engine parts	41.9	42.1	42.7	43.0	—	4.6	4.6	5.2	5.3	—
3728	Aircraft equipment, nec	44.1	43.2	43.9	43.6	—	5.3	5.0	5.8	5.6	—
373	Ship and boat building and repairing	38.6	39.3	38.9	39.6	—	2.5	2.9	2.6	2.7	—
3731	Ship building and repairing	38.3	39.1	38.9	39.5	—	2.3	2.9	2.6	2.7	—
3732	Boat building and repairing	39.8	39.9	38.8	39.8	—	2.9	3.0	2.6	2.7	—
374	Railroad equipment	40.1	39.9	(*)	(*)	—	3.3	2.9	(*)	(*)	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
376	Guided missiles, space vehicles, parts .....	\$309.86	\$305.98	\$345.29	\$348.43	-	\$7.36	\$7.32	\$8.03	\$8.16	-
3761	Guided missiles and space vehicles .....	315.42	308.10	347.75	349.87	-	7.51	7.46	8.26	8.35	-
379	Miscellaneous transportation equipment .....	215.60	218.51	220.58	218.82	-	5.50	5.56	5.82	5.93	-
3792	Travel trailers and campers .....	182.77	193.39	191.63	185.07	-	4.90	5.01	5.25	5.38	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	230.72	230.98	245.81	249.04	\$237.41	5.60	5.62	6.01	6.03	\$5.98
381	Engineering and scientific instruments .....	256.61	256.61	261.02	266.91	-	5.94	5.94	6.32	6.34	-
382	Measuring and controlling devices .....	231.24	230.77	250.28	253.76	-	5.64	5.67	6.06	6.10	-
3822	Environmental controls .....	217.60	216.46	228.45	234.32	-	5.44	5.48	5.74	5.80	-
3823	Process control instruments .....	238.26	237.69	259.34	262.23	-	5.70	5.70	6.16	6.17	-
3825	Instruments to measure electricity .....	242.53	242.78	266.49	268.18	-	5.83	5.85	6.30	6.34	-
383	Optical instruments and lenses .....	262.11	255.35	298.03	300.38	-	5.93	5.87	6.55	6.53	-
384	Medical instruments and supplies .....	191.35	193.68	203.70	206.32	-	4.76	4.83	5.17	5.21	-
3841	Surgical and medical instruments .....	189.77	191.06	200.69	201.39	-	4.54	4.66	4.98	5.06	-
3842	Surgical appliances and supplies .....	192.76	196.42	207.09	210.67	-	4.93	4.96	5.31	5.32	-
385	Ophthalmic goods .....	176.34	179.73	184.21	188.02	-	4.51	4.55	4.76	4.76	-
386	Photographic equipment and supplies .....	308.02	306.29	327.51	325.89	-	7.18	7.19	7.67	7.65	-
387	Watches, clocks, and watchcases .....	172.92	173.71	183.06	186.80	-	4.40	4.42	4.67	4.67	-
39	<b>MISCELLANEOUS MANUFACTURING</b>										
	<b>INDUSTRIES</b> .....	179.40	180.57	191.07	194.43	187.50	4.60	4.63	4.95	4.96	5.00
391	Jewelry, silverware, and plated ware .....	182.21	183.35	189.62	193.80	-	4.77	4.75	4.99	5.06	-
3911	Jewelry, precious metal .....	178.60	180.69	183.52	183.40	-	4.75	4.73	4.96	4.93	-
393	Musical instruments .....	174.68	175.38	185.16	188.81	-	4.40	4.44	4.76	4.78	-
394	Toys and sporting goods .....	165.71	166.53	174.96	177.70	-	4.26	4.27	4.58	4.58	-
3942, 4	Dolls, games, toys, and children's vehicles .....	156.38	157.32	168.82	172.42	-	4.17	4.14	4.49	4.49	-
3949	Sporting and athletic goods, nec .....	171.94	173.96	179.10	182.28	-	4.32	4.36	4.64	4.65	-
395	Pens, pencils, office and art supplies .....	187.63	189.81	203.78	205.23	-	4.61	4.71	5.12	5.08	-
396	Costume jewelry and notions .....	151.20	151.60	159.94	162.35	-	4.00	4.00	4.22	4.25	-
3961	Costume jewelry .....	138.01	140.25	146.77	148.67	-	3.72	3.75	4.01	4.04	-
399	Miscellaneous manufactures .....	203.15	203.18	217.17	221.05	-	5.13	5.17	5.54	5.54	-
3993	Signs and advertising displays .....	210.45	212.78	226.98	233.42	-	5.41	5.47	5.82	5.85	-
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	224.76	225.76	239.12	242.96	242.65	5.69	5.73	6.10	6.12	6.19
201	Meat products .....	222.53	225.04	234.46	239.94	-	5.78	5.80	6.17	6.20	-
2011	Meat packing plants .....	279.45	284.56	294.80	301.79	-	6.90	6.89	7.37	7.47	-
2013	Sausages and other prepared meats .....	249.62	248.45	274.40	276.59	-	6.45	6.47	7.00	7.02	-
2016	Poultry dressing plants .....	129.22	131.72	138.95	144.44	-	3.64	3.70	3.97	3.99	-
202	Dairy products .....	233.23	234.89	251.94	254.61	-	5.62	5.66	6.13	6.15	-
2022	Cheese, natural and processed .....	212.78	210.27	230.44	238.50	-	5.28	5.27	5.79	5.86	-
2026	Fluid milk .....	242.38	245.76	262.29	261.67	-	5.73	5.81	6.26	6.26	-
203	Preserved fruits and vegetables .....	188.48	189.25	203.81	207.23	-	4.96	5.02	5.28	5.30	-
2032	Canned specialties .....	226.85	217.88	242.40	243.58	-	5.56	5.53	6.06	5.97	-
2033	Canned fruits and vegetables .....	191.52	193.73	206.42	207.13	-	5.08	5.18	5.32	5.38	-
2037	Frozen fruits and vegetables .....	168.36	169.73	184.62	189.53	-	4.60	4.65	4.91	4.91	-
204	Grain mill products .....	265.00	261.80	282.53	282.75	-	6.12	6.16	6.54	6.53	-
2041	Flour and other grain mill products .....	295.14	289.16	309.91	301.34	-	6.43	6.44	6.98	6.88	-
2048	Prepared feeds, nec .....	218.94	209.39	233.99	235.94	-	5.01	4.95	5.33	5.35	-
205	Bakery products .....	226.59	226.01	240.38	243.42	-	5.81	5.81	6.26	6.29	-
2051	Bread, cake, and related products .....	224.27	225.04	239.51	241.54	-	5.81	5.80	6.27	6.29	-
2052	Cookies and crackers .....	234.55	229.91	242.58	248.92	-	5.82	5.85	6.22	6.27	-
206	Sugar and confectionery products .....	217.72	215.17	226.38	230.40	-	5.54	5.56	5.88	6.00	-
2061-3	Cane and beet sugar .....	263.19	251.46	277.80	276.82	-	6.68	6.60	6.98	7.19	-
2065	Confectionery products .....	191.10	191.07	194.25	202.39	-	4.90	4.95	5.18	5.34	-
207	Fats and oils .....	245.44	250.50	279.44	276.69	-	5.83	5.95	6.38	6.39	-
208	Beverages .....	272.96	274.86	282.89	293.06	-	6.79	6.77	7.18	7.29	-
2082	Malt beverages .....	389.00	388.94	409.76	422.45	-	9.11	9.13	9.85	9.94	-
2086	Bottled and canned soft drinks .....	198.90	202.47	203.81	210.79	-	5.10	5.10	5.28	5.35	-
209	Misc. foods and kindred products .....	192.73	191.26	206.66	209.08	-	4.98	5.02	5.41	5.32	-
21	<b>TOBACCO MANUFACTURES</b> .....	242.55	243.07	240.01	251.84	252.91	6.30	6.33	6.63	6.77	6.91
211	Cigarettes .....	288.62	280.19	274.72	286.75	-	7.27	7.24	7.61	7.75	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	169.30	168.89	179.50	182.20	172.10	4.17	4.17	4.51	4.51	4.47
221	Weaving mills, cotton .....	173.34	170.40	191.99	194.74	-	4.28	4.26	4.66	4.67	-
222	Weaving mills, synthetics .....	180.96	183.10	194.94	196.30	-	4.35	4.37	4.72	4.73	-
223	Weaving and finishing mills, wool .....	177.53	175.87	185.14	187.22	-	4.33	4.30	4.56	4.60	-
224	Narrow fabric mills .....	156.78	157.58	168.44	171.78	-	3.90	3.92	4.19	4.20	-
225	Knitting mills .....	151.32	152.10	154.98	160.32	-	3.89	3.92	4.20	4.23	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 P	Apr. 1979 P	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 P	Apr. 1979 P
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
376	Guided missiles, space vehicles, parts .....	42.1	41.8	43.0	42.7	—	3.3	3.3	5.4	5.2	—
3761	Guided missiles and space vehicles .....	42.0	41.3	42.1	41.9	—	3.1	2.6	4.7	4.5	—
379	Miscellaneous transportation equipment .....	39.2	39.3	37.9	36.9	—	2.9	2.6	1.6	1.4	—
3792	Travel trailers and campers .....	37.3	38.6	36.5	34.4	—	2.8	2.9	1.2	.8	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	41.2	41.1	40.9	41.3	39.7	2.6	2.4	2.8	2.8	—
381	Engineering and scientific instruments .....	43.2	43.2	41.3	42.1	—	3.3	2.9	3.2	3.8	—
382	Measuring and controlling devices .....	41.0	40.7	41.3	41.6	—	2.5	2.1	2.8	2.7	—
3822	Environmental controls .....	40.0	39.5	39.8	40.4	—	2.2	1.6	2.4	2.2	—
3823	Process control instruments .....	41.8	41.7	42.1	42.5	—	2.2	2.3	3.6	3.6	—
3825	Instruments to measure electricity .....	41.6	41.5	42.3	42.3	—	2.5	2.2	2.3	2.3	—
383	Optical instruments and lenses .....	44.2	43.5	45.5	46.0	—	3.7	3.3	4.6	4.6	—
384	Medical instruments and supplies .....	40.2	40.1	39.4	39.6	—	2.1	2.0	2.6	2.3	—
3841	Surgical and medical instruments .....	41.8	41.0	40.3	39.8	—	2.3	1.9	3.6	2.9	—
3842	Surgical appliances and supplies .....	39.1	39.6	39.0	39.6	—	2.0	2.1	2.0	2.1	—
385	Ophthalmic goods .....	39.1	39.5	38.7	39.5	—	1.8	1.7	1.8	2.1	—
386	Photographic equipment and supplies .....	42.9	42.6	42.7	42.6	—	3.6	3.5	3.5	3.3	—
387	Watches, clocks, and watchcases .....	39.3	39.3	39.2	40.0	—	1.6	1.8	1.3	1.8	—
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	39.0	39.0	38.6	39.2	37.5	2.4	2.3	2.1	2.3	—
391	Jewelry, silverware, and plated ware .....	38.2	38.6	38.0	38.3	—	3.0	2.7	1.9	2.0	—
3911	Jewelry, precious metal .....	37.6	38.2	37.0	37.2	—	3.3	3.0	1.7	1.8	—
393	Musical instruments .....	39.7	39.5	38.9	39.5	—	2.2	1.9	1.5	1.5	—
394	Toys and sporting goods .....	38.9	39.0	38.2	38.8	—	1.9	1.9	1.7	2.0	—
3942, 4	Dolls, games, toys, and children's vehicles .....	37.5	38.0	37.6	38.4	—	1.5	1.8	1.6	1.8	—
3949	Sporting and athletic goods, nec .....	39.8	39.9	38.6	39.2	—	2.1	2.0	1.8	2.1	—
395	Pens, pencils, office and art supplies .....	40.7	40.3	39.8	40.4	—	2.9	2.6	2.2	2.6	—
396	Costume jewelry and notions .....	37.8	37.9	37.9	38.2	—	2.7	2.4	2.0	2.2	—
3961	Costume jewelry .....	37.1	37.4	36.6	36.8	—	2.5	2.4	1.6	1.8	—
399	Miscellaneous manufactures .....	39.6	39.3	39.2	39.9	—	2.5	2.3	2.5	2.7	—
3993	Signs and advertising displays .....	38.9	38.9	39.0	39.9	—	2.1	2.1	2.4	2.8	—
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	39.5	39.4	39.2	39.7	39.2	3.7	3.7	3.5	3.7	—
201	Meat products .....	38.5	38.8	38.0	38.7	—	3.3	3.5	3.2	3.5	—
2011	Meat packing plants .....	40.5	41.3	40.0	40.4	—	4.1	4.5	3.8	4.0	—
2013	Sausages and other prepared meats .....	38.7	38.4	39.2	39.4	—	3.1	3.0	3.5	3.8	—
2016	Poultry dressing plants .....	35.5	35.6	35.0	36.2	—	2.3	2.5	2.3	2.7	—
202	Dairy products .....	41.5	41.5	41.1	41.4	—	4.0	4.1	3.9	4.0	—
2022	Cheese, natural and processed .....	40.3	39.9	39.8	40.7	—	4.1	3.8	3.7	4.0	—
2026	Fluid milk .....	42.3	42.3	41.9	41.8	—	4.0	4.2	4.0	4.1	—
203	Preserved fruits and vegetables .....	38.0	37.7	38.6	39.1	—	2.8	2.6	3.0	2.9	—
2032	Canned specialties .....	40.8	39.4	40.0	40.8	—	3.6	2.8	4.9	4.3	—
2033	Canned fruits and vegetables .....	37.7	37.4	38.8	38.5	—	2.8	2.9	2.8	2.6	—
2037	Frozen fruits and vegetables .....	36.6	36.5	37.6	38.6	—	2.3	2.3	2.7	2.8	—
204	Grain mill products .....	43.3	42.5	43.2	43.3	—	6.2	5.8	6.2	5.9	—
2041	Flour and other grain mill products .....	45.9	44.9	44.4	43.8	—	6.7	6.1	6.5	6.6	—
2048	Prepared feeds, nec .....	43.7	42.3	43.9	44.1	—	7.0	5.7	6.5	6.1	—
205	Bakery products .....	39.0	38.9	38.4	38.7	—	3.3	3.3	3.1	3.2	—
2051	Bread, cake, and related products .....	38.6	38.8	38.2	38.4	—	3.5	3.6	3.4	3.5	—
2052	Cookies and crackers .....	40.3	39.3	39.0	39.7	—	2.8	2.6	2.2	2.3	—
206	Sugar and confectionery products .....	39.3	38.7	38.5	38.4	—	3.1	2.5	2.8	2.9	—
2061-3	Cane and beet sugar .....	39.4	38.1	39.8	38.5	—	4.1	2.9	4.5	4.5	—
2065	Confectionery products .....	39.0	38.6	37.5	37.9	—	2.6	2.2	2.2	2.4	—
207	Fats and oils .....	42.1	42.1	43.8	43.3	—	5.6	5.3	6.1	5.6	—
208	Beverages .....	40.2	40.6	39.4	40.2	—	3.9	4.2	3.5	3.9	—
2082	Malt beverages .....	42.7	42.6	41.6	42.5	—	5.1	5.3	5.5	6.0	—
2086	Bottled and canned soft drinks .....	39.0	39.7	38.6	39.4	—	3.5	4.0	2.8	3.2	—
209	Misc. foods and kindred products .....	38.7	38.1	38.2	39.3	—	3.9	3.5	3.0	3.3	—
21	<b>TOBACCO MANUFACTURES</b> .....	38.5	38.4	36.2	37.2	36.6	2.4	1.9	.7	1.0	—
211	Cigarettes .....	39.7	38.7	36.1	37.0	—	2.9	2.0	.4	.9	—
22	<b>TEXTILE MILL PRODUCTS</b> .....	40.6	40.5	39.8	40.4	38.5	3.6	3.6	3.4	3.5	—
221	Weaving mills, cotton .....	40.5	40.0	41.2	41.7	—	3.7	3.7	4.2	4.4	—
222	Weaving mills, synthetics .....	41.6	41.9	41.3	41.5	—	3.6	3.8	4.0	4.1	—
223	Weaving and finishing mills, wool .....	41.0	40.9	40.6	40.7	—	3.6	3.8	3.6	3.6	—
224	Narrow fabric mills .....	40.2	40.2	40.2	40.9	—	3.1	3.2	2.7	3.1	—
226	Knitting mills .....	38.9	38.8	36.9	37.9	—	2.9	2.9	2.3	2.5	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2251	Women's hosiery, except socks	\$ 137.56	\$ 135.03	\$ 144.80	\$ 155.07	-	\$ 3.62	\$ 3.62	\$ 4.00	\$ 4.07	-
2252	Hosiery, nec	139.07	138.00	139.74	146.07	-	3.65	3.68	3.97	3.98	-
2253	Knit outerwear mills	146.30	147.03	146.62	150.54	-	3.85	3.90	4.13	4.17	-
2254	Knit underwear mills	140.61	141.36	145.20	145.64	-	3.71	3.72	4.00	3.99	-
2257	Circular knit fabric mills	175.46	179.75	183.88	189.72	-	4.29	4.29	4.62	4.65	-
226	Textile finishing, except wool	187.26	186.43	195.77	194.95	-	4.48	4.46	4.81	4.79	-
2261	Finishing plants, cotton	188.90	187.23	200.72	197.88	-	4.53	4.49	4.86	4.85	-
2262	Finishing plants, synthetics	193.39	194.32	204.31	203.50	-	4.66	4.66	5.02	5.00	-
227	Floor covering mills	181.88	180.13	192.56	190.44	-	4.31	4.33	4.64	4.60	-
228	Yarn and thread mills	160.31	160.33	167.56	171.32	-	3.91	3.92	4.21	4.23	-
2281	Yarn mills, except wool	162.63	161.46	169.24	173.42	-	3.90	3.90	4.21	4.24	-
2282	Throwing and winding mills	148.93	151.62	157.10	160.75	-	3.78	3.80	4.07	4.08	-
229	Miscellaneous textile goods	188.24	189.11	202.54	206.91	-	4.58	4.59	4.94	4.95	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	139.65	140.37	145.60	148.33	\$ 142.46	3.89	3.91	4.16	4.19	\$ 4.19
231	Men's and boys' suits and coats	172.80	172.32	175.24	177.45	-	4.80	4.80	5.05	5.07	-
232	Men's and boys' furnishings	127.81	128.16	136.32	137.45	-	3.57	3.58	3.84	3.85	-
2321	Men's and boys' shirts and nightwear	125.24	124.87	133.89	135.00	-	3.45	3.44	3.74	3.75	-
2327	Men's and boys' separate trousers	128.08	129.55	138.13	138.65	-	3.67	3.67	3.88	3.95	-
2328	Men's and boys' work clothing	124.96	124.96	137.97	139.48	-	3.51	3.53	3.78	3.78	-
233	Women's and misses' outerwear	133.56	133.86	137.53	141.10	-	3.86	3.88	4.13	4.15	-
2331	Women's and misses' blouses and waists	126.67	125.94	131.43	136.11	-	3.64	3.64	3.90	3.90	-
2335	Women's and misses' dresses	132.50	134.19	134.62	139.10	-	3.92	3.97	4.22	4.28	-
2337	Women's and misses' suits and coats	138.24	138.24	142.32	146.60	-	4.09	4.09	4.42	4.35	-
2339	Women's and misses' outerwear, nec	134.95	134.95	141.45	143.07	-	3.78	3.78	4.03	4.03	-
234	Women's and children's undergarments	127.79	124.61	133.73	134.90	-	3.54	3.53	3.81	3.80	-
2341	Women's and children's underwear	124.93	122.14	130.88	132.40	-	3.48	3.47	3.75	3.74	-
2342	Brassieres and allied garments	137.63	133.89	145.48	145.30	-	3.75	3.74	4.03	4.07	-
236	Children's outerwear	126.69	128.12	135.68	136.37	-	3.49	3.51	3.79	3.82	-
2361	Children's dresses and blouses	123.17	124.24	134.17	132.42	-	3.45	3.49	3.79	3.73	-
238	Misc. apparel and accessories	141.38	141.38	142.00	149.00	-	3.75	3.75	3.99	4.06	-
239	Misc. fabricated textile products	170.31	173.95	177.44	183.44	-	4.47	4.53	4.77	4.84	-
2391	Curtains and draperies	121.41	125.94	131.77	138.00	-	3.42	3.46	3.63	3.68	-
2392	House furnishing, nec	143.64	143.64	153.71	154.63	-	3.77	3.78	4.11	4.08	-
2396	Automotive and apparel trimmings	288.35	300.85	291.41	313.16	-	7.30	7.41	7.53	7.79	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	272.39	270.92	288.91	292.66	285.38	6.32	6.33	6.83	6.87	6.86
261, 2, 6	Paper and pulp mills	323.10	322.11	354.49	354.60	-	7.18	7.19	7.86	7.88	-
262	Paper mills, except building paper	323.18	322.65	357.63	355.72	-	7.15	7.17	7.86	7.87	-
263	Paperboard mills	323.25	326.19	349.96	358.39	-	7.33	7.33	7.99	8.07	-
264	Misc. converted paper products	236.44	232.63	248.88	252.56	-	5.67	5.66	6.10	6.13	-
2641	Paper coating and glazing	283.39	280.58	302.40	305.61	-	6.47	6.48	6.92	6.93	-
2642	Envelopes	210.40	212.93	230.45	231.83	-	5.26	5.31	5.69	5.71	-
2643	Bags, except textile bags	225.50	219.24	235.75	237.89	-	5.46	5.40	5.75	5.76	-
265	Paperboard containers and boxes	240.69	240.81	247.66	254.61	-	5.69	5.72	6.10	6.15	-
2651	Folding paperboard boxes	254.29	252.36	253.78	254.40	-	5.90	5.91	6.22	6.22	-
2653	Corrugated and solid fiber boxes	252.52	252.03	263.04	271.32	-	5.90	5.93	6.40	6.46	-
2654	Sanitary food containers	224.05	226.56	226.80	234.11	-	5.36	5.42	5.67	5.71	-
27	<b>PRINTING AND PUBLISHING</b>	241.42	238.88	250.28	254.48	246.49	6.37	6.37	6.71	6.75	6.68
271	Newspapers	231.20	233.24	241.82	241.13	-	6.80	6.84	7.05	7.03	-
272	Periodicals	223.11	220.98	232.79	237.46	-	5.78	5.80	6.11	6.20	-
273	Books	220.99	218.95	227.92	233.24	-	5.47	5.46	5.92	5.95	-
2731	Book publishing	210.01	210.40	215.67	221.13	-	5.29	5.26	5.53	5.57	-
2732	Book printing	231.24	228.50	240.92	246.27	-	5.64	5.67	6.34	6.38	-
274	Miscellaneous publishing	208.12	212.43	205.42	205.08	-	5.64	5.68	5.92	5.91	-
275	Commercial printing	257.67	253.33	266.50	272.69	-	6.59	6.58	6.94	7.01	-
2751	Commercial printing, letterpress	242.97	239.62	247.27	252.95	-	6.23	6.24	6.49	6.57	-
2752	Commercial printing, lithographic	268.91	262.57	277.92	284.98	-	6.86	6.82	7.20	7.27	-
276	Manifold business forms	243.19	242.81	261.29	265.92	-	5.99	6.04	6.42	6.47	-
278	Blankbooks and bookbinding	191.69	187.42	199.82	205.25	-	4.89	4.92	5.19	5.29	-
279	Printing trade services	321.60	314.26	337.93	342.27	-	8.31	8.27	8.94	8.96	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	286.86	289.23	304.51	307.55	313.74	6.83	6.87	7.32	7.34	7.47
281	Industrial inorganic chemicals	310.17	312.38	331.43	332.64	-	7.35	7.42	7.91	7.92	-
2819	Industrial inorganic chemicals, nec	303.58	305.44	326.65	328.64	-	7.28	7.36	7.89	7.90	-
282	Plastics materials and synthetics	281.72	285.10	300.46	302.15	-	6.66	6.74	7.12	7.16	-
2821	Plastics materials and resins	312.77	318.42	333.50	337.74	-	7.24	7.32	7.72	7.80	-
2824	Organic fibers, noncellulosic	260.00	262.91	280.80	279.30	-	6.22	6.32	6.75	6.73	-
283	Drugs	262.86	262.91	276.86	279.86	-	6.38	6.32	6.72	6.72	-
2834	Pharmaceutical preparations	253.58	253.78	266.34	271.67	-	6.20	6.22	6.56	6.61	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2251	Women's hosiery, except socks	38.0	37.3	36.2	38.1	—	2.3	1.8	2.0	2.6	—
2252	Hosiery, nec	38.1	37.5	35.2	36.7	—	2.1	2.1	1.8	1.8	—
2253	Knit outerwear mills	38.0	37.7	35.5	36.1	—	2.4	2.4	1.7	1.6	—
2254	Knit underwear mills	37.9	38.0	36.3	36.5	—	2.2	2.1	1.4	1.4	—
2257	Circular knit fabric mills	40.9	41.9	39.8	40.8	—	4.5	5.3	4.1	4.4	—
226	Textile finishing, except wool	41.8	41.8	40.7	40.7	—	4.5	4.3	3.7	3.5	—
2261	Finishing plants, cotton	41.7	41.7	41.3	40.8	—	4.7	4.3	3.8	3.4	—
2262	Finishing plants, synthetics	41.5	41.7	40.7	40.7	—	4.2	4.6	4.1	3.9	—
227	Floor covering mills	42.2	41.6	41.5	41.4	—	4.4	4.3	4.5	4.0	—
228	Yarn and thread mills	41.0	40.9	39.8	40.5	—	3.9	3.8	3.3	3.6	—
2281	Yarn mills, except wool	41.7	41.4	40.2	40.9	—	4.3	4.2	3.6	3.9	—
2282	Throwing and winding mills	39.4	39.9	38.6	39.4	—	3.0	3.2	2.8	3.2	—
229	Miscellaneous textile goods	41.1	41.2	41.0	41.8	—	3.7	3.7	3.6	3.9	—
	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.9	35.9	35.0	35.4	34.0	1.3	1.3	1.0	1.1	—
231	Men's and boys' suits and coats	36.0	35.9	34.7	35.0	—	.8	.8	.8	.7	—
232	Men's and boys' furnishings	35.8	35.8	35.5	35.7	—	1.0	.9	.8	.8	—
2321	Men's and boys' shirts and highwear	36.3	36.3	35.8	36.0	—	1.1	.9	1.0	.9	—
2327	Men's and boys' separate trousers	34.9	35.3	35.6	35.1	—	.9	.8	.6	.6	—
2328	Men's and boys' work clothing	35.6	35.4	36.5	36.9	—	.7	.8	.8	.8	—
233	Women's and misses' outerwear	34.6	34.5	33.3	34.0	—	1.4	1.3	1.0	1.1	—
2331	Women's and misses' blouses and waists	34.8	34.6	33.7	34.9	—	1.1	1.0	.9	1.1	—
2335	Women's and misses' dresses	33.8	33.8	31.9	32.5	—	1.4	1.4	.9	1.1	—
2337	Women's and misses' suits and coats	33.8	33.8	32.2	33.7	—	1.4	1.3	.6	.7	—
2339	Women's and misses' outerwear, nec	35.7	35.7	35.1	35.5	—	1.5	1.4	1.2	1.2	—
234	Women's and children's undergarments	36.1	35.3	35.1	35.5	—	1.0	.8	.8	.9	—
2341	Women's and children's underwear	35.9	35.2	34.9	35.4	—	1.0	.8	.8	.9	—
2342	Brassieres and allied garments	36.7	35.8	36.1	35.7	—	1.1	.9	.8	.7	—
236	Children's outerwear	36.3	36.5	35.8	35.7	—	1.7	1.6	1.4	1.2	—
2361	Children's dresses and blouses	35.7	35.6	35.4	35.5	—	1.8	2.1	1.6	1.1	—
238	Misc. apparel and accessories	37.7	37.7	35.6	36.7	—	1.4	1.4	1.0	1.3	—
239	Misc. fabricated textile products	38.1	38.4	37.2	37.9	—	1.9	2.1	1.5	1.7	—
2391	Curtains and draperies	35.5	36.4	36.3	37.5	—	1.0	1.0	.9	1.0	—
2392	House furnishings, nec	38.1	38.0	37.4	37.9	—	1.4	1.5	1.4	1.3	—
2396	Automotive and apparel trimmings	39.5	40.6	38.7	40.2	—	3.2	4.0	2.4	3.6	—
	<b>PAPER AND ALLIED PRODUCTS</b>	43.1	42.8	42.3	42.6	41.6	5.0	4.9	4.6	4.7	—
26	Paper and pulp mills	45.0	44.8	45.1	45.0	—	6.4	6.4	6.6	6.4	—
261, 2, 6	Paper mills, except building paper	45.2	45.0	45.5	45.2	—	6.5	6.6	6.7	6.5	—
262	Paperboard mills	44.1	44.5	43.8	44.3	—	7.0	6.9	6.7	7.0	—
264	Misc. converted paper products	41.7	41.1	40.8	41.2	—	3.9	3.7	3.5	3.5	—
2641	Paper coating and glazing	43.8	43.3	43.7	44.1	—	5.5	5.4	5.8	5.5	—
2642	Envelopes	40.0	40.1	40.5	40.6	—	3.1	3.0	2.9	3.2	—
2643	Bags, except textile bags	41.3	40.6	41.0	41.3	—	3.8	3.3	3.5	3.5	—
266	Paperboard containers and boxes	42.3	42.1	40.6	41.4	—	4.1	4.0	3.2	3.6	—
2651	Folding paperboard boxes	43.1	42.7	40.8	40.9	—	4.7	4.4	2.9	3.2	—
2653	Corrugated and solid fiber boxes	42.8	42.5	41.1	42.0	—	4.4	4.2	3.6	4.2	—
2654	Sanitary food containers	41.8	41.8	40.0	40.0	—	3.4	3.6	2.8	3.1	—
	<b>PRINTING AND PUBLISHING</b>	37.9	37.5	37.3	37.7	36.9	3.1	2.9	2.8	3.1	—
27	Newspapers	34.0	34.1	34.3	34.3	—	1.8	1.9	1.9	2.0	—
272	Periodicals	38.6	38.1	38.1	38.3	—	3.4	2.7	2.8	2.7	—
273	Books	40.4	40.1	38.5	39.2	—	4.1	4.0	3.5	3.9	—
2731	Book publishing	39.7	40.0	39.0	39.7	—	3.4	3.4	2.2	2.9	—
2732	Book printing	41.0	40.3	38.0	38.6	—	4.8	4.7	4.8	5.0	—
274	Miscellaneous publishing	36.9	37.4	34.7	34.7	—	2.5	2.1	2.2	2.0	—
275	Commercial printing	39.1	38.5	38.4	38.9	—	3.9	3.4	3.2	3.7	—
2751	Commercial printing, letterpress	39.0	38.4	38.1	38.5	—	3.5	3.1	2.9	3.3	—
2752	Commercial printing, lithographic	39.2	38.5	38.6	39.2	—	4.2	3.6	3.4	3.9	—
276	Manifold business forms	40.6	40.2	40.7	41.1	—	3.2	3.1	3.3	3.5	—
278	Blankbooks and bookbinding	39.2	38.5	38.5	38.8	—	2.5	2.2	1.8	2.1	—
279	Printing trade service	38.7	38.0	37.8	38.2	—	3.6	3.0	3.2	3.6	—
	<b>CHEMICALS AND ALLIED PRODUCTS</b>	42.0	42.1	41.6	41.9	42.0	3.5	3.6	3.4	3.5	—
28	Industrial inorganic chemicals	42.2	42.1	41.9	42.0	—	3.7	3.7	3.6	3.4	—
2819	Industrial inorganic chemicals, nec	41.7	41.5	41.4	41.6	—	3.1	3.2	2.9	3.0	—
282	Plastics materials and synthetics	42.3	42.3	42.2	42.2	—	3.1	3.3	3.5	3.3	—
2821	Plastics materials and resins	43.2	43.5	43.2	43.3	—	4.4	4.6	4.4	4.4	—
2824	Organic fibers, noncellulosic	41.8	41.6	41.6	41.5	—	2.2	2.5	2.7	2.3	—
283	Drugs	41.2	41.6	41.2	41.4	—	3.2	2.8	2.7	3.1	—
2834	Pharmaceutical preparations	40.9	40.8	40.6	41.1	—	3.1	2.8	2.5	3.0	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	\$267.73	\$269.94	\$279.20	\$284.01	—	\$6.53	\$6.60	\$6.98	\$7.03	—
2841	Soap and other detergents .....	359.42	369.29	384.81	390.92	—	8.32	8.47	8.97	9.07	—
2842, 3	Polishing, sanitation, and finishing preparations .....	241.02	241.49	247.90	254.00	—	5.85	5.89	6.26	6.35	—
2844	Toilet preparations .....	213.25	211.46	215.27	220.41	—	5.44	5.45	5.68	5.71	—
285	Paints and allied products .....	261.88	261.46	269.94	276.22	—	6.25	6.27	6.60	6.64	—
286	Industrial organic chemicals .....	341.23	345.91	371.06	375.36	—	8.01	8.12	8.69	8.77	—
2865	Cyclic crudes and intermediates .....	319.18	317.69	342.34	354.01	—	7.44	7.44	8.19	8.31	—
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	348.93	355.71	382.30	383.53	—	8.21	8.35	8.87	8.94	—
287	Agricultural chemicals .....	271.79	275.75	295.82	298.51	—	6.38	6.31	7.01	6.91	—
289	Miscellaneous chemical products .....	267.30	267.52	280.84	281.79	—	6.41	6.40	6.80	6.79	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	365.50	370.20	387.72	397.61	\$412.04	8.50	8.53	9.08	9.29	\$9.56
291	Petroleum refining .....	394.62	399.04	416.50	428.24	—	9.22	9.28	9.80	10.10	—
295	Paving and roofing materials .....	271.45	284.48	298.72	309.57	—	6.10	6.28	6.82	6.91	—
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	216.52	219.22	239.78	241.36	228.31	5.32	5.36	5.82	5.83	5.78
301	Tires and inner tubes .....	302.66	318.42	377.10	366.13	—	7.40	7.51	8.38	8.34	—
302	Rubber and plastics footwear .....	145.51	146.66	153.87	153.85	—	3.76	3.78	4.06	4.07	—
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	218.97	226.29	247.46	247.10	—	5.42	5.56	5.92	5.94	—
306	Fabricated rubber products, nec .....	206.96	209.09	227.14	228.93	—	5.11	5.15	5.54	5.57	—
307	Miscellaneous plastics products .....	200.74	200.65	213.84	218.65	—	4.92	4.93	5.28	5.32	—
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	142.05	145.13	148.99	148.93	146.72	3.86	3.87	4.15	4.16	4.18
311	Leather tanning and finishing .....	203.11	209.00	207.09	207.82	—	5.04	5.11	5.31	5.37	—
314	Footwear, except rubber .....	136.15	139.50	141.55	142.97	—	3.72	3.73	4.01	4.05	—
3143	Men's footwear, except athletic .....	148.22	148.61	154.66	156.66	—	3.87	3.87	4.18	4.20	—
3144	Women's footwear, except athletic .....	124.89	132.13	131.92	130.26	—	3.62	3.63	3.88	3.90	—
316	Luggage .....	146.52	148.96	150.08	148.75	—	4.07	4.07	4.35	4.25	—
317	Handbags and personal leather goods .....	133.20	133.94	148.00	147.60	—	3.70	3.70	4.00	4.00	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	294.33	296.51	315.61	316.40	308.11	7.34	7.45	7.91	7.91	7.86
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads <sup>2</sup> .....	343.74	328.60	394.65	(*)	—	7.69	7.75	8.77	(*)	—
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	185.16	189.54	196.75	195.28	—	5.43	5.51	5.67	5.71	—
411	Local and suburban transportation .....	282.73	287.02	291.48	284.95	—	6.78	6.85	6.94	6.95	—
413	Intercity highway transportation .....	272.58	297.83	298.39	303.58	—	7.70	7.90	8.22	8.48	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	300.92	312.66	321.60	325.62	—	7.43	7.72	8.04	8.08	—
421, 3	Trucking and trucking terminals .....	307.34	319.93	328.82	332.49	—	7.57	7.88	8.20	8.23	—
422	Public warehousing .....	212.65	212.86	219.04	220.80	—	5.37	5.43	5.66	5.75	—
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	370.77	361.27	383.64	395.28	—	8.87	8.79	9.38	9.15	—
48	<b>COMMUNICATION</b> .....	283.06	282.74	296.72	297.86	—	7.13	7.14	7.55	7.56	—
481	Telephone communication .....	291.60	289.35	307.30	307.69	—	7.29	7.27	7.76	7.77	—
4817	Switchboard operating employees <sup>3</sup> .....	213.85	211.24	222.87	212.81	—	6.11	6.07	6.46	6.41	—
4818	Line construction employees <sup>4</sup> .....	400.49	396.03	410.52	411.94	—	8.88	8.84	9.33	9.32	—
483	Radio and television broadcasting .....	241.68	246.62	251.28	250.90	—	6.36	6.49	6.63	6.62	—
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> ..	310.57	312.75	333.22	331.20	—	7.43	7.50	8.01	8.00	—
491	Electric services .....	316.08	319.79	337.30	336.91	—	7.49	7.56	8.05	8.06	—
492	Gas production and distribution .....	283.31	283.10	304.50	301.04	—	6.91	6.99	7.50	7.47	—
493	Combination utility services .....	342.37	345.28	372.12	369.56	—	8.23	8.28	8.86	8.82	—
495	Sanitary services .....	253.11	255.60	269.57	265.51	—	5.90	6.00	6.48	6.46	—
—	<b>WHOLESALE AND RETAIL TRADE</b> .....	149.11	150.42	159.54	161.03	162.18	4.56	4.60	4.97	4.97	4.99
50, 51	<b>WHOLESALE TRADE</b> .....	220.20	224.26	238.46	242.11	242.55	5.69	5.78	6.21	6.24	6.30
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	223.83	227.94	241.18	245.46	—	5.71	5.80	6.20	6.23	—
501	Motor vehicles and automotive equipment .....	201.98	206.66	220.99	226.98	—	5.26	5.34	5.77	5.85	—
502	Furniture and home furnishings .....	190.76	196.70	206.64	209.25	—	5.06	5.19	5.54	5.58	—
503	Lumber and construction materials .....	217.70	227.52	242.65	248.69	—	5.64	5.76	6.27	6.28	—
504	Sporting goods, toys, and hobby goods .....	229.36	224.32	233.58	237.23	—	6.02	5.95	6.33	6.36	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 P	Apr. 1979 P	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 P	Apr. 1979 P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	41.0	40.9	40.0	40.4	-	3.5	3.1	2.9	3.2	-
2841	Soap and other detergents .....	43.2	43.6	42.9	43.1	-	5.3	4.6	4.9	4.9	-
2842, 3	Polishing, sanitation, and finishing preparations .....	41.2	41.0	39.6	40.0	-	3.7	3.3	2.8	3.0	-
2844	Toilet preparations .....	39.2	38.8	37.9	38.6	-	2.1	1.8	1.4	1.9	-
285	Paints and allied products .....	41.9	41.7	40.9	41.6	-	3.6	3.7	3.0	3.4	-
286	Industrial organic chemicals .....	42.6	42.6	42.7	42.8	-	3.5	3.6	3.8	3.9	-
2865	Cyclic crudes and intermediates .....	42.9	42.7	41.8	42.6	-	4.2	4.0	3.9	4.6	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	42.5	42.6	43.1	42.9	-	3.3	3.4	3.7	3.7	-
287	Agricultural chemicals .....	42.6	43.7	42.2	43.2	-	5.2	6.4	4.7	5.1	-
289	Miscellaneous chemical products .....	41.7	41.8	41.3	41.5	-	3.5	3.4	3.2	3.1	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	43.0	43.4	42.7	42.8	43.1	3.8	4.2	4.1	4.1	-
291	Petroleum refining .....	42.8	43.0	42.5	42.4	-	3.2	3.6	3.6	3.6	-
295	Paving and roofing materials .....	44.5	45.3	43.8	44.8	-	6.4	7.0	6.0	6.5	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	40.7	40.9	41.2	41.4	39.5	3.4	3.5	3.8	3.8	-
301	Tires and inner tubes .....	40.9	42.4	45.0	43.9	-	3.3	4.1	6.1	5.5	-
302	Rubber and plastics footwear .....	38.7	38.8	37.9	37.8	-	2.3	2.3	2.2	1.8	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	40.4	40.7	41.8	41.6	-	3.5	3.9	4.7	4.3	-
306	Fabricated rubber products, nec .....	40.5	40.6	41.0	41.1	-	3.1	3.1	3.5	3.4	-
307	Miscellaneous plastics products .....	40.8	40.7	40.5	41.1	-	3.6	3.4	3.3	3.5	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	36.8	37.5	35.9	35.8	35.1	1.9	1.9	1.4	1.2	-
311	Leather tanning and finishing .....	40.3	40.9	39.0	38.7	-	3.7	3.6	2.6	2.3	-
314	Footwear, except rubber .....	36.6	37.4	35.3	35.3	-	1.6	1.9	1.1	.9	-
3143	Men's footwear, except athletic .....	38.3	38.4	37.0	37.3	-	2.2	2.1	1.2	1.0	-
3144	Women's footwear, except athletic .....	34.5	36.4	34.0	33.4	-	1.2	1.9	1.3	1.0	-
316	Luggage .....	36.0	36.6	34.5	35.0	-	1.6	1.6	1.4	1.3	-
317	Handbags and personal leather goods .....	36.0	36.2	37.0	36.9	-	1.9	1.6	1.7	1.6	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.1	39.8	39.9	40.0	39.2	-	-	-	-	-
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	44.7	42.4	45.0	(*)	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	34.1	34.4	34.7	34.2	-	-	-	-	-	-
411	Local and suburban transportation .....	41.7	41.9	42.0	41.0	-	-	-	-	-	-
413	Intercity highway transportation .....	35.4	37.7	36.3	35.8	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.5	40.5	40.0	40.3	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	40.6	40.6	40.1	40.4	-	-	-	-	-	-
422	Public warehousing .....	39.6	39.2	38.7	38.4	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	41.8	41.1	40.9	43.2	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	39.7	39.6	39.3	39.4	-	-	-	-	-	-
481	Telephone communication .....	40.0	39.8	39.6	39.6	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	35.0	34.8	34.5	33.2	-	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	45.1	44.8	44.0	44.2	-	-	-	-	-	-
483	Radio and television broadcasting .....	38.0	38.0	37.9	37.9	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.8	41.7	41.6	41.4	-	-	-	-	-	-
491	Electric services .....	42.2	42.3	41.9	41.8	-	-	-	-	-	-
492	Gas production and distribution .....	41.0	40.5	40.6	40.3	-	-	-	-	-	-
493	Combination utility services .....	41.6	41.7	42.0	41.9	-	-	-	-	-	-
495	Sanitary services .....	42.9	42.6	41.6	41.1	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	32.7	32.7	32.1	32.4	32.5	-	-	-	-	-
50, 51	<b>WHOLESALE TRADE</b> .....	38.7	38.8	38.4	38.8	38.5	-	-	-	-	-
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.2	39.3	38.9	39.4	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	38.4	38.7	38.3	38.8	-	-	-	-	-	-
502	Furniture and home furnishings .....	37.7	37.9	37.3	37.5	-	-	-	-	-	-
503	Lumber and construction materials .....	38.6	39.5	38.7	39.6	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	38.1	37.7	36.9	37.3	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>P</sup>	Apr. 1979 <sup>P</sup>
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	\$258.70	\$261.62	\$286.08	\$287.52	—	\$6.50	\$6.59	\$7.17	\$7.17	—
506	Electrical goods .....	227.56	227.76	238.64	244.48	—	5.82	5.87	6.28	6.35	—
507	Hardware, plumbing, and heating equipment .....	213.95	218.06	224.41	227.89	—	5.50	5.62	5.89	5.95	—
508	Machinery, equipment, and supplies .....	236.81	242.80	256.07	259.05	—	5.95	6.07	6.45	6.46	—
509	Miscellaneous durable goods .....	191.98	194.43	206.51	214.40	—	4.91	4.96	5.35	5.36	—
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	216.03	218.12	234.25	237.12	—	5.67	5.74	6.23	6.24	—
511	Paper and paper products .....	234.33	240.83	272.25	275.60	—	6.42	6.58	7.50	7.53	—
512	Drugs, proprietaries, and sundries .....	221.76	228.82	242.52	238.88	—	5.79	5.99	6.45	6.37	—
513	Apparel, piece goods, and notions .....	190.58	192.58	208.94	211.39	—	5.25	5.32	5.74	5.76	—
514	Groceries and related products .....	221.76	221.56	236.63	239.27	—	5.76	5.80	6.26	6.28	—
516	Chemicals and allied products .....	250.90	254.26	282.58	285.02	—	6.50	6.57	7.10	7.09	—
517	Petroleum and petroleum products .....	259.52	260.17	293.09	296.51	—	6.57	6.62	7.42	7.45	—
518	Beer, wine, and distilled beverages .....	250.04	260.22	261.89	267.78	—	6.58	6.83	7.04	7.16	—
519	Miscellaneous nondurable goods .....	178.42	179.55	192.61	195.19	—	4.72	4.75	5.15	5.15	—
52-59	<b>RETAIL TRADE</b> .....	126.59	127.93	134.25	135.58	\$137.09	4.11	4.14	4.46	4.46	\$4.48
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	166.42	169.80	177.74	180.91	—	4.51	4.54	4.83	4.85	—
521	Lumber and other building materials .....	185.08	189.43	195.16	199.41	—	4.77	4.82	5.03	5.10	—
525	Hardware stores .....	132.33	134.75	142.21	145.25	—	3.77	3.85	4.22	4.21	—
53	<b>GENERAL MERCHANDISE STORES</b> .....	116.22	116.80	120.68	124.56	—	3.98	4.00	4.31	4.31	—
531	Department stores .....	120.60	121.47	125.16	129.92	—	4.13	4.16	4.47	4.48	—
533	Variety stores .....	94.95	95.24	103.49	104.04	—	3.32	3.33	3.67	3.60	—
539	Misc. general merchandise stores .....	95.68	96.34	96.53	99.47	—	3.20	3.19	3.46	3.49	—
54	<b>FOOD STORES</b> .....	161.79	163.06	172.92	173.72	—	5.12	5.16	5.56	5.55	—
541	Grocery stores .....	168.43	169.39	180.50	180.44	—	5.28	5.31	5.73	5.71	—
546	Retail bakeries .....	111.27	113.20	119.55	121.26	—	3.85	3.89	4.18	4.24	—
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	177.44	184.01	191.49	194.63	—	4.77	4.92	5.12	5.19	—
551, 2	New and used car dealers .....	220.20	229.10	232.32	238.62	—	5.69	5.92	6.05	6.15	—
553	Auto and home supply stores .....	169.12	177.51	189.34	187.46	—	4.26	4.46	4.71	4.64	—
554	Gasoline service stations .....	125.24	127.00	135.06	134.21	—	3.63	3.66	3.87	3.89	—
56	<b>APPAREL AND ACCESSORY STORES</b> .....	104.40	106.87	112.40	113.18	—	3.60	3.66	3.93	3.93	—
561	Men's and boys' clothing and furnishings .....	127.66	134.50	144.38	142.08	—	4.04	4.19	4.47	4.44	—
562	Women's ready-to-wear stores .....	94.02	95.70	99.37	99.65	—	3.37	3.43	3.64	3.65	—
565	Family clothing stores .....	100.25	100.55	108.20	109.04	—	3.41	3.42	3.81	3.76	—
566	Shoe stores .....	108.59	113.00	113.83	116.75	—	3.81	3.91	4.08	4.14	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	163.10	163.44	174.89	175.90	—	4.66	4.71	5.04	5.04	—
571	Furniture and home furnishings .....	169.31	169.61	178.71	180.96	—	4.81	4.86	5.18	5.20	—
572	Household appliance stores .....	173.04	175.58	191.52	193.31	—	4.82	4.96	5.32	5.34	—
573	Radio, television, and music stores .....	140.61	139.93	154.11	152.53	—	4.16	4.14	4.48	4.46	—
58	<b>EATING AND DRINKING PLACES<sup>5</sup></b> .....	84.74	85.91	88.58	89.26	—	3.15	3.17	3.42	3.42	—
59	<b>MISCELLANEOUS RETAIL</b> .....	130.33	130.57	140.11	138.60	—	4.01	4.03	4.42	4.40	—
591	Drug stores and proprietary stores .....	114.38	115.67	122.82	123.53	—	3.80	3.83	4.04	4.05	—
594	Miscellaneous shopping goods stores .....	116.49	116.81	123.30	124.80	—	3.71	3.72	4.11	4.16	—
596	Nonstore retailers .....	166.52	165.50	166.86	171.60	—	4.60	4.61	5.15	5.20	—
598	Fuel and ice dealers .....	209.35	202.41	269.81	223.65	—	5.26	5.19	6.16	5.72	—
599	Retail stores, nec .....	122.88	127.26	139.96	141.16	—	3.84	3.94	4.28	4.33	—
—	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>6</sup></b> .....	172.79	177.14	188.92	187.31	188.76	4.76	4.84	5.19	5.16	5.20
60	<b>BANKING</b> .....	149.92	154.29	161.77	160.52	—	4.13	4.17	4.42	4.41	—
602	Commercial and stock savings banks .....	147.02	150.96	159.21	157.98	—	4.05	4.08	4.35	4.34	—
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	157.32	161.85	167.71	166.35	—	4.31	4.41	4.62	4.57	—
612	Savings and loan associations .....	149.40	154.76	159.22	158.51	—	4.15	4.24	4.46	4.44	—
614	Personal credit institutions .....	152.57	155.49	165.17	162.43	—	4.18	4.26	4.55	4.45	—
63	<b>INSURANCE CARRIERS</b> .....	191.21	193.21	207.20	206.64	—	5.14	5.18	5.57	5.54	—
631	Life insurance .....	191.73	191.73	208.68	206.83	—	5.21	5.21	5.64	5.59	—
632	Medical service and health insurance .....	187.45	190.64	204.22	201.47	—	4.92	5.03	5.36	5.33	—
633	Fire, marine, and casualty insurance .....	191.07	194.48	206.64	207.02	—	5.15	5.20	5.60	5.58	—

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 P	Apr. 1979 P	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 P	Apr. 1979 P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
506	Metals and minerals, except petroleum .....	39.8	39.7	39.9	40.1	-	-	-	-	-	
506	Electrical goods .....	39.1	38.8	38.1	38.5	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment .....	38.9	38.8	38.1	38.3	-	-	-	-	-	
508	Machinery, equipment, and supplies .....	39.8	40.0	39.7	40.1	-	-	-	-	-	
509	Miscellaneous durable goods .....	39.1	39.2	38.6	40.0	-	-	-	-	-	
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	38.1	38.0	37.6	38.0	-	-	-	-	-	
511	Paper and paper products .....	36.5	36.6	36.3	36.6	-	-	-	-	-	
512	Drugs, proprietaries, and sundries .....	38.3	38.2	37.6	37.5	-	-	-	-	-	
513	Apparel, piece goods, and notions .....	36.3	36.2	36.4	36.7	-	-	-	-	-	
514	Groceries and related products .....	38.5	38.2	37.8	38.1	-	-	-	-	-	
516	Chemicals and allied products .....	38.6	38.7	39.8	40.2	-	-	-	-	-	
517	Petroleum and petroleum products .....	39.5	39.3	39.5	39.8	-	-	-	-	-	
518	Beer, wine, and distilled beverages .....	38.0	38.1	37.2	37.4	-	-	-	-	-	
519	Miscellaneous nondurable goods .....	37.8	37.8	37.4	37.9	-	-	-	-	-	
52-59	<b>RETAIL TRADE</b> .....	30.8	30.9	30.1	30.4	30.6	-	-	-	-	
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	36.9	37.4	36.8	37.3	-	-	-	-	-	
521	Lumber and other building materials .....	38.8	39.3	38.8	39.1	-	-	-	-	-	
526	Hardware stores .....	35.1	35.0	33.7	34.5	-	-	-	-	-	
53	<b>GENERAL MERCHANDISE STORES</b> .....	29.2	29.2	28.0	28.9	-	-	-	-	-	
531	Department stores .....	29.2	29.2	28.0	29.0	-	-	-	-	-	
533	Variety stores .....	28.6	28.6	28.2	28.9	-	-	-	-	-	
539	Misc. general merchandise stores .....	29.9	30.2	27.9	28.5	-	-	-	-	-	
54	<b>FOOD STORES</b> .....	31.6	31.6	31.1	31.3	-	-	-	-	-	
541	Grocery stores .....	31.9	31.9	31.5	31.6	-	-	-	-	-	
546	Retail bakeries .....	28.9	29.1	28.6	28.6	-	-	-	-	-	
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	37.2	37.4	37.4	37.5	-	-	-	-	-	
551, 2	New and used car dealers .....	38.7	38.7	38.4	38.8	-	-	-	-	-	
553	Auto and home supply stores .....	39.7	39.8	40.2	40.4	-	-	-	-	-	
554	Gasoline service stations .....	34.5	34.7	34.9	34.5	-	-	-	-	-	
56	<b>APPAREL AND ACCESSORY STORES</b> .....	29.0	29.2	28.6	28.8	-	-	-	-	-	
561	Men's and boys' clothing and furnishings .....	31.6	32.1	32.3	32.0	-	-	-	-	-	
562	Women's ready-to-wear stores .....	27.9	27.9	27.3	27.3	-	-	-	-	-	
565	Family clothing stores .....	29.4	29.4	28.4	29.0	-	-	-	-	-	
566	Shoe stores .....	28.5	28.9	27.9	28.2	-	-	-	-	-	
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	35.0	34.7	34.7	34.9	-	-	-	-	-	
571	Furniture and home furnishings .....	35.2	34.9	34.5	34.8	-	-	-	-	-	
572	Household appliances stores .....	35.9	35.4	36.0	36.2	-	-	-	-	-	
573	Radio, television, and music stores .....	33.8	33.8	34.4	34.2	-	-	-	-	-	
58	<b>EATING AND DRINKING PLACES</b> <sup>5</sup> .....	26.9	27.1	25.9	26.1	-	-	-	-	-	
59	<b>MISCELLANEOUS RETAIL</b> .....	32.5	32.4	31.7	31.5	-	-	-	-	-	
591	Drug stores and proprietary stores .....	30.1	30.2	30.4	30.5	-	-	-	-	-	
594	Miscellaneous shopping goods stores .....	31.4	31.4	30.0	30.0	-	-	-	-	-	
596	Nonstore retailers .....	36.2	35.9	32.4	33.0	-	-	-	-	-	
598	Fuel and ice dealers .....	39.8	39.0	43.8	39.1	-	-	-	-	-	
599	Retail stores, nec .....	32.0	32.3	32.7	32.6	-	-	-	-	-	
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> <sup>6</sup> .....	36.3	36.6	36.4	36.3	36.3	-	-	-	-	
60	<b>BANKING</b> .....	36.3	37.0	36.6	36.4	-	-	-	-	-	
602	Commercial and stock savings banks .....	36.3	37.0	36.6	36.4	-	-	-	-	-	
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	36.5	36.7	36.3	36.4	-	-	-	-	-	
612	Savings and loan associations .....	36.0	36.5	35.7	35.7	-	-	-	-	-	
614	Personal credit institutions .....	36.5	36.5	36.3	36.5	-	-	-	-	-	
63	<b>INSURANCE CARRIERS</b> .....	37.2	37.3	37.2	37.3	-	-	-	-	-	
631	Life insurance .....	36.8	36.8	37.0	37.0	-	-	-	-	-	
632	Medical service and health insurance .....	38.1	37.9	38.1	37.8	-	-	-	-	-	
633	Fire, marine, and casualty insurance .....	37.1	37.4	36.9	37.1	-	-	-	-	-	

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry – Continued

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar. p 1979	Apr. p 1979	Mar. 1978	Apr. 1978	Feb. 1979	Mar. p 1979	Apr. p 1979
-	<b>SERVICES</b> .....	\$161.05	\$162.36	\$170.75	\$171.28	\$172.58	\$4.91	\$4.95	\$5.27	\$5.27	\$5.31
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	110.05	112.37	119.34	119.50	-	3.55	3.59	3.90	3.88	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	126.22	127.31	135.32	136.86	-	3.68	3.69	3.98	3.99	-
723	Beauty shops .....	121.98	123.50	118.65	126.07	-	3.86	3.80	3.89	4.08	-
	<b>BUSINESS SERVICES</b> .....	166.66	166.65	173.45	175.39	-	5.02	5.05	5.37	5.38	-
731	Advertising .....	249.12	254.18	263.15	263.89	-	6.92	7.14	7.33	7.31	-
734	Services to buildings .....	123.67	123.95	125.35	128.86	-	4.37	4.38	4.66	4.72	-
737	Computer and data processing services .....	203.87	205.34	218.41	222.16	-	5.54	5.58	6.05	6.12	-
	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> ...	182.40	185.37	194.18	193.94	-	4.89	4.93	5.32	5.27	-
753	Automotive repair shops .....	207.37	211.33	218.31	216.72	-	5.29	5.35	5.70	5.60	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	238.58	237.39	246.98	248.65	-	5.92	5.92	6.19	6.17	-
	<b>MOTION PICTURES</b> .....	186.26	183.37	217.45	210.26	-	6.70	6.62	7.85	7.73	-
781	Motion picture production and services .....	342.36	363.07	405.91	395.38	-	9.51	9.76	10.71	10.60	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> ...	141.22	141.83	147.01	147.97	-	4.60	4.65	4.82	4.82	-
	<b>HEALTH SERVICES</b> .....	152.38	154.77	165.97	165.64	-	4.66	4.69	5.06	5.05	-
801	Offices of physicians .....	160.56	165.50	173.18	172.66	-	4.91	4.97	5.28	5.28	-
802	Offices of dentists .....	134.81	136.77	145.15	148.04	-	4.73	4.70	5.04	5.07	-
805	Nursing and personal care facilities .....	109.47	110.14	117.66	116.66	-	3.52	3.53	3.82	3.80	-
806	Hospitals .....	166.30	167.31	181.37	181.56	-	4.92	4.95	5.35	5.34	-
81	<b>LEGAL SERVICES</b> .....	208.28	211.54	218.78	219.76	-	6.09	6.24	6.57	6.56	-
	<b>MISCELLANEOUS SERVICES</b> .....	274.62	276.19	289.06	289.77	-	6.97	7.10	7.45	7.43	-
891	Engineering and architectural services .....	293.53	296.38	311.18	312.80	-	7.45	7.58	8.02	8.00	-
893	Accounting, auditing, and bookkeeping .....	246.82	244.80	254.32	254.40	-	6.02	6.12	6.39	6.36	-

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 or more.

<sup>3</sup> Data relate to employees in such occupations in the telephone industry as switchboard operators; service assistants; operating room instructors; and pay-station attendants. In 1977, such employees made up 20 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>4</sup> Data relate to employees in such occupations in the telephone industry as central office craft

persons; installation and exchange repair craft persons; line, cable and conduit craft persons; and laborers. In 1977, such employees made up 37 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>5</sup> Money payments only; tips, not included.

<sup>6</sup> Data for nonoffice sales agents excluded from all series in this division.

\* Not available.

p=preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1978	Apr. 1978	Feb. 1979	Mar., 1979 <sup>P</sup>	Apr., 1979 <sup>P</sup>	Mar. 1978	Apr. 1978	Feb. 1979	Mar., 1979 <sup>P</sup>	Apr., 1979 <sup>P</sup>
-	<b>SERVICES</b> .....	32.8	32.8	32.4	32.5	32.5	-	-	-	-	-
701	<b>HOTELS AND OTHER LODGING PLACES:</b> Hotels, motels, and tourist courts .....	31.0	31.3	30.6	30.8	-	-	-	-	-	-
721	<b>PERSONAL SERVICES:</b> Laundry, cleaning, and garment services .....	34.3	34.5	34.0	34.3	-	-	-	-	-	-
723	Beauty shops .....	31.6	32.5	30.5	30.9	-	-	-	-	-	-
73	<b>BUSINESS SERVICES</b> .....	33.2	33.0	32.3	32.6	-	-	-	-	-	-
731	Advertising .....	36.0	35.6	35.9	36.1	-	-	-	-	-	-
734	Services to buildings .....	28.3	28.3	26.9	27.3	-	-	-	-	-	-
737	Computer and data processing services .....	36.8	36.8	36.1	36.3	-	-	-	-	-	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	37.3	37.6	36.5	36.8	-	-	-	-	-	-
753	Automotive repair shops .....	39.2	39.5	38.3	38.7	-	-	-	-	-	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	40.3	40.1	39.9	40.3	-	-	-	-	-	-
78	<b>MOTION PICTURES</b> .....	27.8	27.7	27.7	27.2	-	-	-	-	-	-
781	Motion picture production and services .....	36.0	37.2	37.9	37.3	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	30.7	30.5	30.5	30.7	-	-	-	-	-	-
80	<b>HEALTH SERVICES</b> .....	32.7	33.0	32.8	32.8	-	-	-	-	-	-
801	Offices of physicians .....	32.7	33.3	32.8	32.7	-	-	-	-	-	-
802	Offices of dentists .....	28.5	29.1	28.8	29.2	-	-	-	-	-	-
805	Nursing and personal care facilities .....	31.1	31.2	30.8	30.7	-	-	-	-	-	-
806	Hospitals .....	33.8	33.8	33.9	34.0	-	-	-	-	-	-
81	<b>LEGAL SERVICES</b> .....	34.2	33.9	33.3	33.5	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES</b> .....	39.4	38.9	38.8	39.0	-	-	-	-	-	-
891	Engineering and architectural services .....	39.4	39.1	38.8	39.1	-	-	-	-	-	-
893	Accounting, auditing, and bookkeeping .....	41.0	40.0	39.8	40.0	-	-	-	-	-	-

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-3. Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government

[Employment in thousands—includes both supervisory and nonsupervisory employees]

Item	1977		1978										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June.	July	Aug.	Sept.	Oct.	Nov.
<b>Executive Branch</b>													
Total employment .....	2,664.3	2,673.1	2,659.5	2,668.2	2,672.9	2,686.7	2,702.9	2,747.5	2,760.3	2,738.5	2,691.9	2,694.5	2,694.4
Average weekly hours .....	39.4	40.0	39.6	39.9	39.9	39.6	39.5	39.6	39.8	39.7	39.5	39.9	39.9
Average overtime hours .....	1.1	1.6	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.2
Indexes (1967=100):													
Average weekly earnings .....	225.9	230.5	229.0	230.2	227.4	226.5	226.0	226.5	227.7	226.8	230.0	242.0	<sup>c</sup> 239.2
Average hourly earnings .....	225.9	227.0	227.8	227.3	226.2	225.4	225.4	225.4	225.4	225.1	229.5	238.9	<sup>c</sup> 242.2
<b>Department of Defense</b>													
Total employment .....	909.8	907.7	906.4	906.0	905.6	905.4	911.3	924.8	927.1	918.6	905.4	905.8	905.3
Average weekly hours .....	39.8	40.0	39.9	40.1	40.0	40.1	40.0	40.0	40.1	40.1	39.7	39.9	40.0
Average overtime hours .....	.9	.8	.7	.8	.9	.9	.9	1.0	.9	1.0	1.2	1.0	.8
Indexes (1967=100):													
Average weekly earnings .....	220.9	220.4	221.8	222.3	221.5	222.1	222.0	221.5	220.4	221.2	223.3	232.5	233.7
Average hourly earnings .....	223.7	222.1	224.0	223.4	223.2	223.2	223.7	223.2	221.5	222.3	226.7	234.9	235.4
<b>Postal Service</b>													
Total employment .....	650.2	668.2	645.6	646.9	647.6	647.9	648.3	648.3	647.5	649.0	651.9	646.9	651.4
Average weekly hours .....	39.8	41.8	41.1	41.5	40.4	40.1	39.9	40.0	40.2	39.9	39.7	41.5	41.2
Average overtime hours .....	1.5	3.5	2.5	2.1	1.7	1.5	1.5	1.6	1.8	1.5	1.8	2.3	1.9
Indexes (1967=100):													
Average weekly earnings .....	253.4	271.7	253.9	266.5	258.5	256.2	254.3	259.7	261.9	260.3	259.3	278.7	275.9
Average hourly earnings .....	245.7	250.9	249.9	247.9	247.0	246.6	246.0	250.6	251.5	251.8	252.1	259.5	258.5
<b>Other Agencies</b>													
Total employment .....	1,104.3	1,097.2	1,107.5	1,115.3	1,119.7	1,133.4	1,143.3	1,174.4	1,185.7	1,170.9	1,134.6	1,141.8	1,137.7
Average weekly hours .....	38.9	38.8	38.5	38.9	38.8	38.9	38.8	39.0	39.3	39.3	39.1	39.0	39.0
Average overtime hours .....	1.1	1.0	.9	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.1	1.0
Indexes (1967=100):													
Average weekly earnings .....	215.4	216.1	216.6	217.6	215.1	214.1	213.4	212.0	214.6	213.4	218.3	229.1	231.4
Average hourly earnings .....	214.9	216.1	218.3	217.1	215.1	213.6	213.4	210.9	211.9	210.6	216.6	228.0	230.2

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from agencies with 2500 or more employees in the Executive Branch of the Federal Government; the data cover both salaried workers and hourly paid wage-board employees. Since these averages relate to hours and earnings of all workers both super-

visory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers. The total employment levels shown include all workers in the Executive Branch regardless of the size of the agency.  
c=corrected.

## C-4. Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>
<b>MANUFACTURING</b> .....	\$5.75	\$5.79	\$6.25	\$6.28	\$6.32
<b>DURABLE GOODS</b> .....	6.12	6.16	6.64	6.67	6.71
Lumber and wood products .....	5.17	5.19	5.57	5.57	-
Furniture and fixtures .....	4.41	4.44	4.79	4.81	-
Stone, clay, and glass products .....	5.77	5.84	6.24	6.27	-
Primary metal industries .....	7.59	7.63	8.32	8.32	-
Fabricated metal products .....	5.93	5.98	6.37	6.44	-
Machinery, except electrical .....	6.29	6.30	6.78	6.82	-
Electric and electronic equipment .....	5.50	5.53	5.93	5.96	-
Transportation equipment .....	7.29	7.32	7.86	7.94	-
Instruments and related products .....	5.43	5.46	5.81	5.83	-
Miscellaneous manufacturing industries .....	4.47	4.49	4.82	4.82	-
<b>NONDURABLE GOODS</b> .....	5.19	5.21	5.60	5.63	5.70
Food and kindred products .....	5.43	5.47	5.83	5.85	-
Tobacco manufactures .....	6.10	6.18	6.56	6.68	-
Textile mill products .....	3.99	4.00	4.32	4.33	-
Apparel and other textile products .....	3.82	3.84	4.11	4.13	-
Paper and allied products .....	5.97	5.98	6.48	6.51	-
Printing and publishing .....	6.11	6.13	6.47	6.49	-
Chemicals and allied products .....	6.56	6.59	7.03	7.05	-
Petroleum and coal products .....	8.14	8.13	8.67	8.67	-
Rubber and misc. plastics products .....	5.11	5.14	5.56	5.58	-
Leather and leather products .....	3.76	3.77	4.07	4.10	-

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

<sup>p</sup>preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

**C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division, in current and 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings <sup>2</sup>					
				Worker with no dependents			Married worker with 3 dependents		
	Mar. 1978	Feb. 1979 <sup>p</sup>	Mar. 1979 <sup>p</sup>	Mar. 1978	Feb. 1979 <sup>p</sup>	Mar. 1979 <sup>p</sup>	Mar. 1978	Feb. 1979 <sup>p</sup>	Mar. 1979 <sup>p</sup>
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$197.62	\$212.40	\$214.91	\$161.02	\$172.53	\$174.35	\$176.16	\$188.98	\$190.93
1967 dollars .....	104.18	102.56	102.68	84.88	83.31	83.30	92.86	91.25	91.22
<b>MINING:</b>									
Current dollars .....	301.63	350.14	355.54	232.17	265.84	269.29	254.02	292.36	296.29
1967 dollars .....	159.00	169.07	169.87	122.39	128.36	128.66	133.91	141.17	141.56
<b>CONSTRUCTION:</b>									
Current dollars .....	304.92	318.95	331.89	234.31	245.92	254.19	256.39	269.63	279.06
1967 dollars .....	160.74	154.01	158.57	123.52	118.74	121.45	135.16	130.19	133.33
<b>MANUFACTURING:</b>									
Current dollars .....	242.40	262.10	265.93	192.66	207.69	210.37	209.72	226.89	229.79
1967 dollars .....	127.78	126.56	127.06	101.56	100.28	100.51	110.55	109.56	109.79
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	294.33	315.61	316.40	227.43	243.79	244.29	248.77	267.20	267.77
1967 dollars .....	155.16	152.39	151.17	119.89	117.72	116.72	131.14	129.02	127.94
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	149.11	159.54	161.03	125.43	133.54	134.65	138.96	149.76	151.16
1967 dollars .....	78.60	77.04	76.94	66.12	64.48	64.33	73.25	72.31	72.22
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	172.79	188.92	187.31	143.15	155.42	154.24	157.03	171.12	170.06
1967 dollars .....	91.09	91.22	89.49	75.46	75.05	73.69	82.78	82.63	81.25
<b>SERVICES:</b>									
Current dollars .....	161.05	170.75	171.28	134.38	141.93	142.33	147.88	158.99	159.35
1967 dollars .....	84.90	82.45	81.83	70.84	68.53	68.00	77.95	76.77	76.13
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b>	189.7	207.1	209.3						

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> Spendable earnings are calculated by taking the average weekly pay for all production or nonsupervisory jobs, both full-time and part-time, and then deducting social security and Federal income taxes applicable to a single worker or to a married worker with three dependents who earned this amount (see Explanatory Notes for the establishment data in the back of

this publication). A technical note on the calculation and uses of the spendable earnings series is available on request.

<sup>p</sup>=preliminary (applicable to earnings data only).

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

[1967=100]

Industry division and group	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>
	Hours				
<b>TOTAL PRIVATE</b> .....	116.1	118.5	119.0	121.4	120.7
<b>GOODS-PRODUCING</b> .....	100.1	103.6	103.8	107.1	104.0
<b>MINING</b> .....	108.4	141.5	144.0	146.7	145.4
<b>CONSTRUCTION</b> .....	99.1	112.8	103.3	117.2	119.2
<b>MANUFACTURING</b> .....	100.0	100.6	102.5	104.0	99.9
<b>DURABLE GOODS</b> .....	102.0	103.0	106.7	108.3	103.1
Lumber and wood products.....	109.0	112.6	108.1	110.4	109.3
Furniture and fixtures.....	110.3	109.4	106.1	107.7	103.4
Stone, clay, and glass products.....	105.7	110.3	104.0	109.7	109.6
Primary metal industries.....	92.0	93.0	98.6	99.0	96.9
Fabricated metal products.....	101.1	102.2	105.0	106.0	99.5
Machinery, except electrical.....	109.8	109.6	119.4	120.3	114.0
Electric and electronic equipment.....	99.2	98.7	104.6	105.9	101.3
Transportation equipment.....	95.3	97.1	100.9	103.0	93.1
Instruments and related products.....	119.3	120.0	128.8	130.3	126.3
Miscellaneous manufacturing industries.....	99.1	100.1	97.5	99.9	95.1
<b>NONDURABLE GOODS</b> .....	97.0	97.1	96.3	97.7	95.1
Food and kindred products.....	89.5	88.9	88.7	90.5	88.0
Tobacco manufactures.....	75.5	71.1	70.3	70.3	67.3
Textile mill products.....	92.8	92.2	90.5	91.5	86.7
Apparel and other textile products.....	91.5	91.7	87.3	88.8	85.5
Paper and allied products.....	99.6	99.8	99.9	101.3	98.9
Printing and publishing.....	98.5	98.2	100.4	101.9	100.4
Chemicals and allied products.....	105.4	106.2	106.0	107.2	109.1
Petroleum and coal products.....	116.3	119.0	117.3	120.1	125.2
Rubber and misc. plastics products.....	142.7	144.1	151.9	152.9	145.5
Leather and leather products.....	68.6	70.5	63.0	62.8	61.9
<b>SERVICE-PRODUCING</b> .....	127.2	128.8	129.5	131.3	132.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	106.9	107.2	109.2	110.2	107.0
<b>WHOLESALE AND RETAIL TRADE</b> .....	122.1	124.0	123.5	125.5	127.7
<b>WHOLESALE TRADE</b> .....	123.5	124.4	126.2	128.6	128.4
<b>RETAIL TRADE</b> .....	121.5	123.8	122.4	124.3	127.5
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	134.4	136.6	140.9	141.3	142.5
<b>SERVICES</b> .....	141.5	143.3	144.0	146.1	147.5

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p=preliminary.

## ESTABLISHMENT DATA HOURS AND EARNINGS

### C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group—Continued

[1967=100]

Industry division and group	Mar. 1978	Apr. 1978	Feb. 1979	Mar. 1979 <sup>p</sup>	Apr. 1979 <sup>p</sup>
	Payrolls				
<b>TOTAL PRIVATE</b> .....	239.1	247.2	266.2	272.7	271.0
<b>GOODS-PRODUCING</b> .....	211.1	221.7	238.5	248.2	241.3
<b>MINING</b> .....	236.3	338.3	370.6	378.7	377.7
<b>CONSTRUCTION</b> .....	202.3	230.2	226.1	255.5	261.3
<b>MANUFACTURING</b> .....	212.4	215.0	236.5	241.2	230.9
<b>DURABLE GOODS</b> .....	217.7	221.2	247.6	252.5	238.6
Lumber and wood products .....	248.6	258.6	266.2	271.8	269.7
Furniture and fixtures .....	216.9	216.1	224.8	229.3	219.7
Stone, clay, and glass products .....	228.1	241.8	242.4	257.6	261.5
Primary metal industries .....	218.6	222.2	258.2	259.1	256.1
Fabricated metal products .....	210.5	214.4	234.7	239.4	221.7
Machinery, except electrical .....	227.6	227.2	267.5	270.7	253.3
Electric and electronic equipment .....	203.3	203.0	231.7	235.8	224.4
Transportation equipment .....	213.4	218.9	245.0	252.3	224.3
Instruments and related products .....	235.0	237.2	271.7	275.7	265.1
Miscellaneous manufacturing industries .....	194.4	197.3	205.4	210.9	202.7
<b>NONDURABLE GOODS</b> .....	203.5	204.5	217.8	221.9	217.7
Food and kindred products .....	193.0	193.0	205.0	209.8	206.5
Tobacco manufactures .....	211.4	200.3	205.5	210.0	205.0
Textile mill products .....	188.2	187.4	198.1	200.7	188.3
Apparel and other textile products .....	175.3	176.5	179.1	183.2	176.4
Paper and allied products .....	219.3	220.1	237.6	242.2	236.2
Printing and publishing .....	191.4	190.8	205.3	209.9	204.5
Chemicals and allied products .....	232.4	235.3	250.0	253.5	262.6
Petroleum and coal products .....	277.8	285.2	297.6	311.9	334.6
Rubber and misc. plastics products .....	277.2	281.9	321.8	324.7	306.3
Leather and leather products .....	128.4	132.2	126.3	126.6	125.0
<b>SERVICE-PRODUCING</b> .....	263.1	269.2	290.1	293.9	296.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	242.6	246.8	266.9	269.4	259.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	246.9	253.3	272.1	277.1	282.9
<b>WHOLESALE TRADE</b> .....	244.2	249.6	272.6	278.7	280.9
<b>RETAIL TRADE</b> .....	248.4	255.4	271.9	276.2	284.0
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	247.9	255.8	283.0	282.0	287.1
<b>SERVICES</b> .....	303.5	309.7	331.7	336.4	342.1

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>p</sup>preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED HOURS**

**C-7. Average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls  
by industry division and major manufacturing group, seasonally adjusted**

Industry	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. P	Apr. P
<b>TOTAL PRIVATE</b> .....	36.1	35.9	35.9	35.9	35.8	35.8	35.9	35.8	35.9	35.7	35.7	35.9	35.4
<b>MINING</b> .....	44.0	43.4	43.4	43.0	43.6	43.0	43.0	43.3	43.7	43.4	43.0	43.5	43.0
<b>CONSTRUCTION</b> .....	37.3	36.6	37.3	37.3	37.1	37.0	36.9	36.8	37.2	35.9	36.4	37.6	35.8
<b>MANUFACTURING</b> .....	40.8	40.4	40.5	40.5	40.3	40.4	40.5	40.7	40.7	40.7	40.7	40.8	39.1
<i>Overtime hours</i> .....	3.8	3.5	3.6	3.6	3.4	3.6	3.6	3.7	3.8	3.8	3.8	3.8	2.7
<b>DURABLE GOODS</b> .....	41.4	41.0	41.2	41.2	41.0	41.1	41.2	41.4	41.5	41.5	41.5	41.6	39.4
<i>Overtime hours</i> .....	4.0	3.7	3.7	3.8	3.6	3.8	3.9	4.0	4.1	4.2	4.2	4.1	2.8
Lumber and wood products .....	40.2	39.5	40.0	39.8	39.3	39.6	40.1	40.1	40.1	40.0	39.5	39.9	39.0
Furniture and fixtures .....	40.1	39.4	39.5	39.3	39.0	38.8	39.0	39.2	39.2	39.2	38.8	39.5	38.4
Stone, clay, and glass products .....	42.0	41.6	41.9	41.7	41.6	41.8	41.8	41.9	42.0	41.4	41.5	42.2	41.2
Primary metal industries .....	41.5	41.7	41.8	41.8	42.0	41.8	42.1	42.3	42.2	42.4	42.3	42.0	40.6
Fabricated metal products .....	41.4	41.1	41.0	41.0	40.9	40.9	40.8	41.1	41.4	41.2	41.4	41.4	38.9
Machinery, except electrical .....	42.3	42.1	42.3	42.2	41.8	41.9	42.0	42.2	42.5	42.2	42.6	42.6	40.3
Electric and electronic equipment .....	40.4	40.2	40.2	40.7	40.4	40.1	40.3	40.4	40.5	40.7	40.9	41.0	39.0
Transportation equipment .....	42.4	41.8	42.0	42.1	41.8	42.5	42.6	42.9	42.9	43.0	42.7	42.4	38.2
Instruments and related products .....	41.4	40.8	40.8	40.7	41.0	40.9	40.9	40.9	40.9	41.1	41.1	41.4	40.0
Miscellaneous manufacturing ind .....	39.1	38.8	38.8	38.8	39.0	39.0	38.8	38.8	38.8	39.1	39.0	39.2	37.6
<b>NONDURABLE GOODS</b> .....	39.8	39.5	39.4	39.4	39.3	39.4	39.3	39.6	39.5	39.6	39.4	39.6	38.8
<i>Overtime hours</i> .....	3.4	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.3	2.6
Food and kindred products .....	40.1	39.8	39.5	39.8	39.5	39.5	39.9	40.0	40.0	40.1	39.7	40.2	39.9
Tobacco manufactures .....	38.7	38.7	39.6	38.6	37.7	37.9	36.7	37.4	38.1	36.7	36.7	37.6	36.9
Textile mill products .....	40.9	40.5	40.3	40.2	40.4	40.4	40.3	40.4	40.4	40.9	40.0	40.6	38.9
Apparel and other textile products .....	36.3	35.9	35.8	35.8	35.6	35.7	35.2	35.7	35.6	35.3	35.5	35.5	34.4
Paper and allied products .....	43.5	42.9	42.9	42.9	42.7	42.7	42.6	43.1	42.7	42.9	42.9	42.9	42.3
Printing and publishing .....	37.9	37.3	37.5	37.6	37.4	37.8	37.7	37.9	37.6	37.7	37.7	37.8	37.3
Chemicals and allied products .....	42.0	41.9	41.9	41.8	41.9	41.8	41.9	42.1	41.8	42.0	41.9	42.0	41.9
Petroleum and coal products .....	43.6	42.9	43.4	43.9	44.3	43.8	43.9	44.2	43.7	43.4	43.4	43.1	43.3
Rubber and misc. plastics products .....	41.3	41.1	41.1	40.9	40.9	41.0	41.0	41.1	41.2	41.5	41.5	41.4	39.9
Leather and leather products .....	38.1	37.6	37.4	37.2	37.1	37.2	37.1	36.8	36.7	37.0	36.3	36.1	35.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.0	40.2	40.1	39.6	39.9	40.1	40.1	40.0	40.0	40.2	40.0	40.3	39.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	33.0	32.9	32.8	32.9	32.8	32.8	32.9	32.8	32.9	32.4	32.5	32.8	32.8
<b>WHOLESALE TRADE</b> .....	39.0	38.7	38.8	38.7	38.8	39.0	38.9	38.8	38.9	38.7	38.7	39.0	38.7
<b>RETAIL TRADE</b> .....	31.2	31.1	31.0	31.1	30.9	30.9	31.0	30.9	31.0	30.5	30.6	30.8	30.9
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.7	36.3	36.5	36.6	36.5	36.5	36.6	36.3	36.3	36.3	36.3	36.3	36.4
<b>SERVICES</b> .....	33.0	32.9	32.8	32.8	32.7	32.8	32.8	32.7	32.5	32.6	32.6	32.7	32.7

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p=preliminary.



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

**C-8. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted**

(1967=100)

Industry division and group	1978									1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	120.4	120.0	120.6	120.6	120.4	120.8	121.6	122.4	122.9	122.6	123.2	124.7	122.6
<b>GOODS-PRODUCING</b> .....	106.0	105.1	106.0	106.1	105.4	105.5	106.5	108.0	109.1	108.7	109.1	111.1	106.4
<b>MINING</b> .....	144.2	143.1	144.0	143.5	145.7	144.4	145.2	148.0	149.1	149.2	149.3	150.6	148.4
<b>CONSTRUCTION</b> .....	118.8	117.1	122.8	124.2	122.8	122.6	123.8	124.3	126.5	120.6	122.4	131.8	125.3
<b>MANUFACTURING</b> .....	102.5	101.6	101.7	101.6	101.0	101.2	102.1	103.7	104.6	105.1	105.4	106.0	101.6
<b>DURABLE GOODS</b> .....	104.2	103.5	103.8	104.0	103.5	103.9	105.5	107.1	108.3	108.8	109.6	110.2	104.2
Lumber and wood products .....	115.0	111.8	113.6	112.3	110.7	111.6	113.9	115.3	116.2	116.6	115.5	115.9	111.4
Furniture and fixtures .....	112.5	110.3	109.5	108.3	106.4	106.2	107.5	108.6	109.4	110.0	108.6	109.7	106.4
Stone, clay, and glass products .....	112.7	111.4	112.4	111.1	109.8	110.1	110.8	112.0	113.3	111.5	112.2	114.9	111.7
Primary metal industries .....	92.9	93.9	94.1	94.4	95.3	95.5	96.9	99.0	99.2	99.7	100.5	99.9	96.8
Fabricated metal products .....	103.5	103.3	102.4	102.0	101.8	102.0	103.1	105.2	106.8	106.6	108.0	107.7	101.0
Machinery, except electrical .....	110.1	109.5	111.3	112.1	110.8	111.5	113.6	114.5	116.9	117.0	119.2	119.9	114.3
Electric and electronic equipment .....	100.4	99.8	99.8	101.8	101.1	100.1	101.4	102.6	103.4	105.1	106.4	108.0	103.0
Transportation equipment .....	97.5	96.6	95.8	96.2	96.1	97.7	100.4	102.8	103.8	104.7	105.0	105.1	93.4
Instruments and related products .....	121.7	120.8	122.4	123.6	123.9	123.9	124.5	125.7	126.9	128.8	130.0	131.6	127.7
Miscellaneous manufacturing ind .....	102.6	101.5	101.4	99.8	100.6	100.3	100.9	101.8	101.5	102.9	102.3	102.8	97.2
<b>NONDURABLE GOODS</b> .....	99.9	98.9	98.7	98.1	97.2	97.2	97.2	98.8	99.1	99.9	99.2	99.8	97.9
Food and kindred products .....	96.4	94.6	94.0	93.6	91.4	91.3	92.2	94.6	96.1	97.0	95.3	97.3	95.4
Tobacco manufactures .....	80.2	81.5	84.1	78.6	71.5	74.5	73.5	73.5	77.6	74.8	73.5	76.6	75.1
Textile mill products .....	93.4	92.6	91.8	91.5	91.2	91.8	91.6	92.4	92.2	93.6	91.3	92.4	87.6
Apparel and other textile products .....	93.2	91.9	91.4	90.1	90.1	90.1	88.7	90.0	89.8	89.6	89.2	88.8	86.8
Paper and allied products .....	102.4	101.9	101.9	101.9	99.2	99.0	98.2	100.5	100.7	101.7	102.5	103.1	101.6
Printing and publishing .....	99.1	98.2	98.6	99.1	98.3	97.8	98.5	100.3	100.1	101.1	101.7	102.6	101.4
Chemicals and allied products .....	106.5	106.9	106.9	106.6	106.0	106.0	106.2	107.2	107.0	107.8	107.6	107.7	109.3
Petroleum and coal products .....	122.1	118.4	120.4	121.2	123.2	122.7	123.0	124.7	124.2	123.3	124.2	125.1	128.4
Rubber and misc. plastics products .....	147.3	146.6	147.0	146.2	145.4	145.0	147.0	149.6	152.3	153.9	154.9	154.5	148.7
Leather and leather products .....	71.3	70.4	70.1	67.1	69.1	69.6	68.8	67.3	66.5	66.7	64.2	63.5	62.7
<b>SERVICE-PRODUCING</b> .....	130.5	130.5	130.7	130.7	130.8	131.4	132.0	132.3	132.5	132.2	132.9	134.1	133.8
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	108.7	109.0	109.4	106.5	107.7	108.2	109.9	110.2	110.3	111.2	111.2	112.4	108.5
<b>WHOLESALE AND RETAIL TRADE</b> .....	126.4	126.8	126.8	127.4	127.2	127.5	128.2	128.4	128.7	127.6	128.4	129.7	129.9
<b>WHOLESALE TRADE</b> .....	126.0	125.2	126.1	125.7	126.1	127.1	127.4	127.6	128.5	128.4	128.9	130.6	129.9
<b>RETAIL TRADE</b> .....	126.6	127.3	127.0	128.0	127.7	127.7	128.5	128.7	128.8	127.3	128.2	129.4	129.9
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	137.5	136.2	137.9	139.0	139.2	139.6	140.5	140.6	140.9	141.7	142.0	142.4	143.4
<b>SERVICES</b> .....	144.1	143.8	143.9	144.1	144.1	145.1	145.0	145.6	145.4	145.8	146.6	147.8	148.2

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>P</sup> preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

**C-9. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1978										1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>	
<b>Hourly Earnings Index<sup>2</sup> (1967=100)</b>														
TOTAL PRIVATE (in current dollars).....	210.3	211.0	212.3	214.1	214.6	216.2	218.0	219.0	220.7	<sup>C</sup> 222.8	223.9	225.3	226.6	
MINING.....	237.1	237.3	239.8	244.3	244.5	247.1	249.7	249.8	249.1	251.7	253.3	255.0	257.4	
CONSTRUCTION.....	203.5	206.0	207.6	207.9	209.2	209.9	210.6	211.4	212.5	213.4	216.3	216.8	218.1	
MANUFACTURING.....	212.2	213.5	214.7	216.7	217.5	218.9	220.8	222.4	224.1	225.4	227.1	228.8	230.9	
TRANSPORTATION AND PUBLIC UTILITIES.....	228.4	229.2	229.6	230.4	231.2	233.3	234.0	234.7	238.3	<sup>C</sup> 240.7	241.6	243.4	241.3	
WHOLESALE AND RETAIL TRADE.....	203.5	204.0	205.2	207.6	208.3	209.9	211.6	213.0	214.6	217.8	218.1	219.5	220.5	
FINANCE, INSURANCE, AND REAL ESTATE.....	192.3	192.4	194.6	196.9	196.0	198.2	199.8	200.8	202.0	202.3	203.9	204.3	206.9	
SERVICES.....	210.5	210.4	211.5	213.2	212.9	214.8	217.5	217.8	218.9	221.7	222.2	223.6	225.5	
TOTAL PRIVATE (in 1967 dollars) <sup>3</sup> .....	109.6	109.1	108.8	109.1	108.7	108.7	108.7	108.5	108.6	<sup>C</sup> 108.6	107.8	107.3	-	
<b>Average hourly earnings</b>														
TOTAL PRIVATE.....	\$ 5.61	\$ 5.62	\$ 5.66	\$ 5.71	\$ 5.73	\$ 5.77	\$ 5.82	\$ 5.87	\$ 5.91	<sup>C</sup> \$ 5.97	\$ 5.99	\$ 6.05	\$ 6.04	
MINING.....	7.63	7.66	7.71	7.85	7.88	7.88	7.99	8.03	8.03	8.12	8.18	8.22	8.29	
CONSTRUCTION.....	8.47	8.59	8.65	8.66	8.72	8.75	8.77	8.82	8.86	8.92	9.05	9.04	9.11	
MANUFACTURING.....	6.05	6.08	6.12	6.18	6.20	6.25	6.32	6.38	6.43	6.45	6.52	6.56	6.55	
TRANSPORTATION AND PUBLIC UTILITIES.....	7.49	7.50	7.52	7.53	7.58	7.65	7.66	7.68	7.81	7.89	7.92	7.97	7.90	
WHOLESALE AND RETAIL TRADE.....	4.60	4.60	4.63	4.67	4.70	4.73	4.77	4.81	4.84	4.93	4.93	4.96	4.99	
FINANCE, INSURANCE, AND REAL ESTATE.....	4.84	4.84	4.89	4.95	4.92	4.98	5.03	5.06	5.08	5.09	5.13	5.14	5.20	
SERVICES.....	4.95	4.94	4.96	5.01	5.02	5.05	5.10	5.11	5.14	5.21	5.22	5.25	5.30	
<b>Average weekly earnings</b>														
TOTAL PRIVATE:														
Current dollars.....	202.52	201.76	203.19	204.99	205.13	206.57	208.94	210.15	212.17	<sup>C</sup> 213.13	213.84	217.20	213.82	
1967 dollars <sup>3</sup> .....	105.59	104.32	104.20	104.48	103.97	103.86	104.16	104.14	104.41	<sup>C</sup> 103.86	102.96	103.48	-	
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>3, 4</sup> .....	93.76	92.69	92.48	92.60	92.13	91.94	92.04	91.95	92.06	<sup>C</sup> 92.37	91.53	91.81	-	

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> The index excludes effects of two types of changes that are unrelated to underlying wage-rate developments: Fluctuations in overtime premiums in manufacturing (the only sector for which overtime data are available) and the effects of changes in the proportion of workers in high-wage and low-wage industries.

<sup>3</sup> The CPI-W is used to deflate these series to 1967 dollars.

<sup>4</sup> See footnote 2, table C-5.

N.A.=not available.

<sup>P</sup>=preliminary.

**C-10. Hours of wage and salary workers<sup>1</sup> in nonagricultural establishments, by industry division**

Industry division	Millions of hours (Annual rate) <sup>2</sup>			Percent change		
	FEBRUARY 1979	MARCH 1979 <sup>P</sup>	APRIL 1979 <sup>P</sup>	April 1978 to April 1979	Feb. 1979 to Mar. 1979	March 1979 to April 1979
TOTAL.....	165,962	167,898	165,637	1.7	1.2	-1.3
PRIVATE SECTOR.....	135,493	137,164	136,603	3.3	1.2	-0.4
MINING.....	2,042	2,076	2,061	3.9	1.7	-0.7
CONSTRUCTION.....	8,271	8,798	8,465	4.5	6.4	-3.8
MANUFACTURING.....	43,928	44,168	43,973	3.3	0.5	-0.4
DURABLE GOODS.....	27,012	27,155	26,939	5.0	0.5	-0.8
NONDURABLE GOODS.....	16,916	17,013	17,034	0.7	0.6	0.1
TRANSPORTATION AND PUBLIC UTILITIES.....	10,446	10,517	10,269	1.6	0.7	-2.4
WHOLESALE AND RETAIL TRADE.....	33,752	34,127	34,283	3.2	1.1	0.5
FINANCE, INSURANCE, AND REAL ESTATE.....	9,136	9,171	9,210	4.2	0.4	0.4
SERVICES.....	27,918	28,307	28,342	3.5	1.4	0.1
GOVERNMENT.....	30,469	30,734	29,034	-5.4	0.9	-5.5

<sup>1</sup> 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 for Surveys and Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

<sup>2</sup> "Annual rate" refers to total hours paid for 1 week in the month, expressed as a seasonally adjusted annual equivalent.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

**C-11. Indexes of output and compensation per hour, unit costs, and prices,  
private business sector, seasonally adjusted**

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1976		1977				1978				1979
	1977	1978	III	IV	I	II	III	IV	I	II	III	IV	I <sub>p</sub>
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons	118.3	118.6	117.2	117.2	118.0	117.5	118.9	119.0	117.7	118.0	119.1	119.6	118.2
Output	133.2	139.0	127.1	127.6	130.5	132.5	134.2	135.5	135.3	138.7	139.7	142.2	142.3
Hours	112.6	117.2	108.4	108.9	110.6	112.8	112.8	113.8	115.0	117.5	117.4	118.9	120.4
Compensation per hour	213.1	232.8	199.4	203.7	207.6	210.6	215.4	218.9	225.3	229.7	235.5	240.4	246.8
Real compensation per hour	117.4	119.2	116.2	117.2	117.2	116.6	117.7	118.1	119.3	118.7	119.1	119.0	119.0
Unit labor costs	180.2	196.3	170.1	173.8	176.0	179.3	181.1	183.9	191.4	194.6	197.8	201.1	208.8
Unit nonlabor payments	164.7	171.9	159.0	158.4	160.3	164.0	167.0	167.8	162.1	171.3	174.9	179.1	176.6
Implicit price deflator	174.9	187.9	166.3	168.5	170.6	174.0	176.3	178.4	181.3	186.6	189.9	193.5	197.7
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons	115.9	116.4	115.2	115.0	115.6	115.2	116.3	116.4	115.5	116.0	116.7	117.2	116.0
Output	133.6	139.9	127.7	128.1	131.0	133.0	134.6	135.8	136.1	139.8	140.6	143.0	143.4
Hours	115.3	120.2	110.9	111.4	113.3	115.4	115.8	116.6	117.8	120.5	120.5	122.0	123.6
Compensation per hour	209.4	228.9	195.9	200.0	204.0	207.2	211.3	215.2	221.5	225.9	231.1	236.2	242.0
Real compensation per hour	115.4	117.1	114.2	115.1	115.1	114.7	115.5	116.1	117.3	116.7	116.9	116.9	116.7
Unit labor costs	180.8	196.6	170.1	174.0	176.4	179.8	181.7	184.8	191.7	194.7	198.1	201.5	208.6
Unit nonlabor payments	162.6	168.0	157.4	157.1	157.7	161.6	166.1	165.1	159.2	167.1	171.3	174.4	171.0
Implicit price deflator	174.6	186.8	165.7	168.2	170.0	173.6	176.4	178.1	180.6	185.3	188.9	192.2	195.8
<b>MANUFACTURING:</b>													
Output per hour of all persons	126.1	129.2	124.1	123.9	123.7	125.6	127.6	127.5	125.9	128.4	131.7	132.3	131.3
Output	126.9	134.8	120.0	120.3	122.6	126.6	128.6	129.8	129.7	134.1	137.2	139.9	141.7
Hours	100.6	104.4	96.8	97.1	99.1	100.7	100.8	101.8	103.1	104.5	104.2	105.7	107.9
Compensation per hour	212.2	232.5	196.9	200.9	205.6	209.7	214.4	218.9	225.0	229.1	234.9	240.2	246.0
Real compensation per hour	116.9	119.0	114.8	115.6	116.1	116.1	117.2	118.1	119.1	118.4	118.9	118.9	118.6
Unit labor costs	168.3	179.9	158.7	162.2	166.3	166.9	168.0	171.7	178.8	178.5	178.4	181.6	187.3
<b>DURABLE GOODS</b>													
Output per hour of all persons	120.4	123.0	119.5	118.4	117.9	120.4	121.9	121.6	119.4	122.7	125.7	125.5	124.0
Output	121.4	130.5	114.8	114.4	116.3	121.0	123.5	124.8	124.4	129.5	133.5	136.3	137.9
Hours	100.8	106.1	96.1	96.6	98.7	100.5	101.3	102.7	104.1	105.6	106.2	108.6	111.2
Compensation per hour	214.3	234.6	198.5	201.7	207.1	211.8	216.4	221.5	227.0	231.2	237.0	242.5	248.4
Real compensation per hour	118.0	120.1	115.7	116.1	116.9	117.2	118.3	119.5	120.2	119.4	119.9	120.0	119.8
Unit labor costs	117.9	200.3	166.2	170.3	175.7	175.9	177.5	182.2	190.1	188.4	188.5	193.2	200.3
<b>NONDURABLE GOODS</b>													
Output per hour of all persons	135.3	139.5	131.5	132.7	133.1	134.1	134.1	136.9	137.3	136.4	141.6	143.4	143.5
Output	135.7	141.9	128.5	129.8	132.6	135.5	136.9	138.0	138.3	141.5	143.2	145.6	147.8
Hours	100.3	101.7	97.7	97.9	99.6	101.0	100.0	100.5	101.4	102.8	101.1	101.5	103.0
Compensation per hour	208.7	227.7	194.5	199.7	203.4	206.3	210.6	214.0	221.0	224.8	230.1	234.4	239.6
Real compensation per hour	115.0	116.5	113.4	114.9	114.8	114.2	115.1	115.5	117.0	116.2	116.4	116.0	115.5
Unit labor costs	154.2	163.2	147.9	150.5	152.8	153.9	153.8	155.9	162.1	163.3	162.5	163.4	167.0
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour	116.7	117.9	115.9	115.2	115.7	116.2	117.5	117.3	116.6	117.9	118.2	118.9	N.A.
Output	141.0	148.5	134.4	134.2	137.5	140.5	142.3	143.6	143.6	148.8	149.3	152.3	N.A.
Hours	120.8	125.9	115.9	116.5	118.8	120.9	121.1	122.4	123.1	126.2	126.3	128.1	N.A.
Compensation per hour	207.6	226.9	194.1	198.4	201.7	205.5	209.7	213.4	219.8	224.2	229.3	234.1	N.A.
Real compensation per hour	114.4	116.1	113.2	114.2	113.8	113.7	114.6	115.1	116.3	115.8	116.0	115.8	N.A.
Total unit costs	182.0	194.8	172.8	177.3	178.8	180.8	182.5	185.6	191.5	192.6	196.2	198.6	N.A.
Unit labor costs	177.9	192.5	167.4	172.2	174.3	176.8	178.5	181.9	188.5	190.2	194.0	196.9	N.A.
Unit nonlabor costs	194.5	202.2	189.4	193.0	192.6	193.1	195.0	197.1	201.1	200.1	203.2	204.1	N.A.
Unit profits	120.2	125.1	114.7	105.6	108.8	120.1	128.3	122.9	104.5	127.8	130.0	137.2	N.A.
Implicit price deflator	172.8	184.5	164.2	166.6	168.4	171.8	174.5	176.3	178.6	183.0	186.4	189.5	N.A.

p=preliminary.  
r=revised.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

**C-12. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted at annual rate**

Item	Quarterly percent change						Annual percent change					
	III 1977	IV 1977	I 1978	II 1978	III 1978	IV 1978	IV 1976	I 1977	II 1977	III 1977	IV 1978	I 1978
	to IV 1977	to I 1978	to II 1978	to III 1978	to IV 1978	to I 1979	to IV 1977	to I 1978	to II 1978	to III 1978	to IV 1978	to I 1979 <sub>p</sub>
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons	0.4	-4.5	1.2	3.5	1.7	-4.5	1.5	-0.2	0.5	0.1	0.4	0.4
Output	4.0	-0.6	10.5	3.0	7.2	0.3	6.2	3.7	4.6	4.1	4.9	5.2
Hours	3.7	4.0	9.2	-0.4	5.3	5.0	4.6	3.9	4.1	4.0	4.5	4.7
Compensation per hour	6.7	12.1	8.1	10.4	8.7	11.1	7.5	8.5	9.1	9.3	9.8	9.5
Real compensation per hour	1.3	4.0	-1.9	1.5	-0.5	0.1	0.8	1.8	1.8	1.2	0.7	-0.2
Unit labor costs	6.3	17.4	6.8	6.7	6.8	16.3	5.8	8.8	8.5	9.2	9.3	9.1
Unit nonlabor payments	2.0	-13.1	24.8	8.8	9.8	-5.4	5.9	1.1	4.4	4.8	6.7	9.0
Implicit price deflator	4.9	6.7	12.1	7.3	7.7	9.0	5.9	6.3	7.2	7.7	8.5	9.0
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	0.5	-3.1	1.7	2.3	1.9	-4.2	1.3	-0.1	0.7	0.3	0.7	0.4
Output	3.5	0.7	11.6	2.1	7.2	1.0	6.0	3.8	5.2	4.4	5.3	5.4
Hours	3.0	3.9	9.8	-0.2	5.1	5.4	4.7	3.9	4.5	4.1	4.6	5.0
Compensation per hour	7.6	12.2	8.2	9.6	9.1	10.2	7.6	8.6	9.0	9.4	9.8	9.3
Real compensation per hour	2.2	4.0	-1.8	0.7	-0.1	-0.7	0.9	1.9	1.8	1.3	0.7	-0.5
Unit labor costs	7.1	15.7	6.4	7.1	7.0	15.0	6.3	8.7	8.3	9.0	9.0	8.8
Unit nonlabor payments	-2.4	-13.5	21.3	10.5	7.4	-7.4	5.0	0.9	3.4	3.1	5.6	7.4
Implicit price deflator	4.0	5.8	10.8	8.1	7.1	7.6	5.9	6.2	6.7	7.1	7.9	8.4
<b>MANUFACTURING:</b>												
Output per hour of all persons	-0.3	-5.1	8.3	10.8	1.7	-2.8	2.9	1.8	2.2	3.2	3.7	4.3
Output	4.0	-0.5	14.3	9.6	8.0	5.2	7.9	5.8	6.0	6.7	7.7	9.2
Hours	4.3	4.9	5.6	-1.1	6.2	8.3	4.8	4.0	3.7	3.4	3.9	4.7
Compensation per hour	8.8	11.6	7.4	10.6	9.3	10.0	9.0	9.4	9.2	9.6	9.7	9.3
Real compensation per hour	3.3	3.5	-2.5	1.6	0.1	-0.9	2.2	2.7	2.0	1.4	0.7	-0.4
Unit labor costs	9.1	17.7	-0.8	-0.2	7.5	13.2	5.9	7.6	6.9	6.2	5.8	4.8
<b>DURABLE GOODS</b>												
Output per hour of all persons	-1.1	-6.8	11.3	10.2	-0.5	-4.8	2.6	1.3	1.9	3.1	3.3	3.8
Output	4.5	-1.5	17.7	12.8	8.8	4.6	9.1	6.9	7.0	8.1	9.2	10.9
Hours	5.7	5.7	5.7	2.3	9.4	9.8	6.3	5.5	5.1	4.8	5.7	6.8
Compensation per hour	9.8	10.4	7.5	10.4	9.7	10.1	9.8	9.6	9.2	9.5	9.5	9.4
Real compensation per hour	4.2	2.4	-2.4	1.5	0.4	-0.8	2.9	2.8	1.9	1.4	0.5	-0.3
Unit labor costs	11.0	18.5	-3.4	0.2	10.2	15.6	7.0	8.2	7.1	6.2	6.0	5.4
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	1.0	-2.6	3.9	11.8	5.2	0.2	3.5	2.5	2.6	3.4	4.5	5.2
Output	3.2	1.1	9.4	4.9	6.8	6.2	6.2	4.3	4.4	4.6	5.5	6.8
Hours	2.2	3.7	5.3	-6.2	1.5	5.9	2.7	1.8	1.7	1.2	1.0	1.5
Compensation per hour	6.7	13.6	7.2	9.7	7.6	9.3	7.2	8.6	9.0	9.3	9.5	8.4
Real compensation per hour	1.2	5.4	-2.7	0.8	-1.5	-1.5	0.5	1.9	1.7	1.1	0.5	-1.2
Unit labor costs	5.6	16.6	3.2	-1.9	2.3	9.0	3.6	6.0	6.1	5.7	4.8	3.1
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	-0.5	-2.5	4.4	1.3	2.2	N.A.	1.8	0.8	1.4	0.6	1.3	N.A.
Output	3.6	-0.0	15.2	1.5	8.1	N.A.	7.0	4.5	5.9	4.9	6.0	N.A.
Hours	4.2	2.5	10.4	0.2	5.8	N.A.	5.0	3.7	4.4	4.3	4.7	N.A.
Compensation per hour	7.2	12.5	8.3	9.5	8.5	N.A.	7.5	8.9	9.1	9.4	9.7	N.A.
Real compensation per hour	1.7	4.3	-1.7	0.6	-0.7	N.A.	0.8	2.2	1.8	1.2	0.6	N.A.
Total unit costs	6.8	13.6	2.3	7.7	5.0	N.A.	4.7	7.1	6.6	7.5	7.1	N.A.
Unit labor costs	7.7	15.3	3.8	8.1	6.1	N.A.	5.6	8.1	7.6	8.7	8.3	N.A.
Unit nonlabor costs	4.3	8.5	-2.0	6.3	1.7	N.A.	2.1	4.4	3.6	4.2	3.6	N.A.
Unit profits	-15.8	-47.8	123.6	7.3	23.8	N.A.	16.4	-4.0	6.4	1.3	11.6	N.A.
Implicit price deflator	4.2	5.5	10.2	7.6	6.8	N.A.	5.8	6.1	6.5	6.8	7.5	N.A.

p=preliminary.  
r=revised.

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

**C-13. Gross hours and earnings of production workers on manufacturing payroll by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAR. 1978	FEB. 1979	MAR. 1979 P	MAR. 1978	FEB. 1979	MAR. 1979 P	MAR. 1978	FEB. 1979	MAR. 1979 P
<b>ALABAMA</b> .....	\$210.37	\$235.25	\$238.45	40.3	40.7	40.9	\$5.22	\$5.78	\$5.83
Birmingham .....	253.12	279.50	278.24	40.5	40.1	40.5	6.25	6.97	6.87
Mobile .....	266.06	289.39	305.41	41.9	41.4	42.3	6.35	6.99	7.22
<b>ALASKA</b> .....	456.07	(*)	(*)	45.2	(*)	(*)	10.09	(*)	(*)
<b>ARIZONA</b> .....	233.23	251.77	259.84	39.8	39.9	40.6	5.86	6.31	6.40
Phoenix .....	233.81	251.77	264.68	39.9	39.9	41.1	5.86	6.31	6.44
Tucson .....	222.09	235.17	234.74	39.1	39.0	38.8	5.68	6.03	6.05
<b>ARKANSAS</b> .....	182.80	198.69	199.87	40.0	39.5	39.5	4.57	5.03	5.06
Fayetteville-Springdale .....	166.04	180.95	175.50	40.4	40.3	39.0	4.11	4.49	4.50
Fort Smith .....	193.52	198.78	206.16	39.9	38.9	39.8	4.85	5.11	5.18
Little Rock-North Little Rock .....	208.68	225.36	230.11	39.9	40.1	40.3	5.23	5.62	5.71
Pine Bluff .....	229.80	273.92	268.81	40.6	42.8	42.2	5.66	6.40	6.37
<b>CALIFORNIA</b> .....	251.47	268.13	272.28	40.3	39.9	40.1	6.24	6.72	6.79
Anaheim-Santa Ana-Garden Grove .....	234.32	246.65	254.18	40.4	40.5	40.8	5.80	6.09	6.23
Bakersfield .....	267.04	276.19	279.03	40.4	38.9	38.7	6.61	7.10	7.21
Fresno .....	222.69	240.48	248.06	39.0	38.6	40.4	5.71	6.23	6.14
Los Angeles-Long Beach .....	236.47	255.15	256.77	40.7	40.5	40.5	5.81	6.30	6.34
Modesto .....	238.89	251.56	256.69	38.1	38.0	38.6	6.27	6.62	6.65
Oxnard-Simi Valley-Ventura .....	215.28	242.35	238.79	39.0	40.8	39.6	5.52	5.94	6.03
Riverside-San Bernardino-Ontario .....	255.12	275.81	277.31	39.8	39.8	39.9	6.41	6.93	6.95
Sacramento .....	275.02	278.94	287.98	39.8	37.9	38.5	6.91	7.36	7.48
Salinas-Seaside-Monterey .....	235.99	266.81	266.51	37.4	38.5	39.6	6.31	6.93	6.73
San Diego .....	237.23	252.83	254.65	38.7	38.6	38.7	6.13	6.55	6.58
San Francisco-Oakland .....	301.36	315.75	325.84	39.6	38.6	39.4	7.61	8.18	8.27
San Jose .....	273.91	286.64	290.60	40.4	40.6	40.7	6.78	7.06	7.14
Santa Barbara-Santa Maria-Lompoc .....	227.53	229.40	234.12	40.2	37.3	37.7	5.66	6.15	6.21
Santa Rosa .....	224.25	235.34	240.59	37.5	36.6	37.3	5.98	6.43	6.45
Stockton .....	278.60	287.86	291.00	39.8	38.9	38.8	7.00	7.40	7.50
Vallejo-Fairfield-Napa .....	258.80	277.88	288.79	38.8	37.2	38.2	6.67	7.47	7.56
<b>COLORADO</b> .....	243.14	255.32	258.06	39.6	39.1	39.1	6.14	6.53	6.60
Denver-Boulder .....	237.60	256.37	255.15	39.6	39.2	38.6	6.00	6.54	6.61
<b>CONNECTICUT</b> .....	246.29	265.20	(*)	42.1	42.5	(*)	5.85	6.24	(*)
Bridgeport .....	259.37	277.10	282.74	43.3	43.5	43.7	5.99	6.37	6.47
Hartford .....	282.58	294.80	297.98	44.5	43.1	43.5	6.35	6.84	6.85
New Britain .....	255.42	262.71	282.83	43.0	41.7	44.4	5.94	6.30	6.37
New Haven-West Haven .....	240.54	259.99	263.04	40.7	41.4	41.1	5.91	6.28	6.40
Stamford .....	247.38	263.53	276.07	42.0	42.3	44.1	5.89	6.23	6.26
Waterbury .....	210.23	233.62	236.68	42.3	42.4	42.8	4.97	5.51	5.53
<b>DELAWARE</b> .....	254.00	267.78	291.70	40.0	38.2	41.2	6.35	7.01	7.08
Wilmington .....	277.38	302.64	319.12	39.4	39.0	40.6	7.04	7.76	7.86
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	258.86	246.96	262.75	39.4	36.0	39.1	6.57	6.86	6.72
<b>FLORIDA</b> .....	200.74	219.01	218.48	40.8	41.4	41.3	4.92	5.29	5.29
Fort Lauderdale-Hollywood .....	191.00	211.18	213.03	40.9	41.9	42.1	4.67	5.04	5.06
Jacksonville .....	247.63	252.56	250.31	43.3	41.0	40.7	5.72	6.16	6.15
Miami .....	167.53	188.90	192.64	39.7	40.8	40.9	4.22	4.63	4.71
Orlando .....	223.24	223.85	227.84	42.2	41.3	41.5	5.29	5.42	5.49
Pensacola .....	252.42	284.27	286.01	42.0	43.6	43.8	6.01	6.52	6.53
Tampa-St. Petersburg .....	206.04	223.18	220.32	40.4	40.8	40.8	5.10	5.47	5.40
West Palm Beach-Boca Raton .....	240.24	266.04	260.91	44.0	45.4	44.6	5.46	5.80	5.85
<b>GEORGIA</b> .....	189.85	207.14	210.60	39.8	40.3	40.5	4.77	5.14	5.20
Atlanta .....	227.20	243.01	250.26	40.0	40.3	40.3	5.68	6.03	6.21
Savannah .....	258.00	282.05	282.67	43.0	42.8	42.7	6.00	6.59	6.62
<b>HAWAII</b> .....	230.29	238.37	249.99	38.9	36.9	39.0	5.92	6.46	6.41
Honolulu .....	227.46	236.68	246.13	38.1	36.3	38.1	5.97	6.52	6.46
<b>IDAHO</b> .....	226.20	255.26	244.60	39.5	38.5	38.1	5.48	6.63	6.42
Boise City .....	216.46	215.84	217.93	39.5	38.0	37.9	5.48	5.68	5.75

See footnotes at end of table.

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

**C-13. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>ILLINOIS</b> .....	\$266.68	\$287.45	\$291.14	40.4	40.5	40.9	\$6.60	\$7.10	\$7.12
Bloomington—Normal .....	210.87	264.47	269.11	37.9	41.2	42.0	5.57	6.41	6.41
Champaign—Urbana—Rantoul .....	242.56	277.88	255.16	38.3	41.1	38.6	6.33	6.76	6.62
Chicago SMSA .....	265.81	278.66	282.92	41.4	40.3	40.8	6.42	6.92	6.94
Deavenport—Rock Island—Moline .....	267.82	328.61	323.67	38.1	38.7	38.1	7.02	8.49	8.49
Decatur .....	283.20	340.64	328.45	40.9	43.6	42.5	6.92	7.81	7.74
Peoria .....	296.11	315.40	328.25	37.0	36.2	37.7	8.01	8.71	8.72
Rockford .....	278.18	298.25	297.49	42.4	42.1	42.4	6.57	7.08	7.01
Springfield .....	294.37	339.07	336.28	41.9	44.1	43.6	7.03	7.69	7.72
<b>INDIANA</b> .....	281.10	310.84	313.12	40.1	40.9	41.2	7.01	7.60	7.60
Gary—Hammond—East Chicago .....	382.23	424.32	(*)	41.1	41.6	(*)	9.30	10.20	(*)
Indianapolis .....	286.06	312.00	(*)	41.1	41.6	(*)	6.96	7.50	(*)
<b>IOWA</b> .....	271.04	299.09	301.50	39.8	40.2	40.2	6.81	7.44	7.50
Cedar Rapids .....	260.35	299.80	302.00	38.8	40.9	41.2	6.71	7.33	7.33
Des Moines .....	273.41	304.18	310.45	38.4	39.3	39.7	7.12	7.74	7.82
Dubuque .....	350.72	340.16	352.84	39.9	39.6	39.6	8.79	8.59	8.91
Sioux City .....	230.40	254.37	261.10	38.4	38.6	39.5	6.00	6.59	6.61
Waterloo—Cedar Falls .....	359.08	388.13	389.99	41.9	41.6	41.4	8.57	9.33	9.42
<b>KANSAS</b> .....	(*)	269.94	271.83	(*)	40.9	41.0	(*)	6.60	6.63
Topeka .....	(*)	299.97	308.22	(*)	43.6	44.8	(*)	6.88	6.88
Wichita .....	(*)	284.42	288.69	(*)	41.4	41.9	(*)	6.87	6.89
<b>KENTUCKY</b> .....	245.01	259.25	259.52	40.1	39.4	39.5	6.11	6.58	6.57
Louisville .....	278.66	293.83	302.06	40.8	39.6	40.6	6.83	7.42	7.44
<b>LOUISIANA</b> .....	256.27	282.41	282.31	41.4	41.9	41.7	6.19	6.74	6.77
Baton Rouge .....	318.71	344.96	341.95	43.9	43.5	41.1	7.26	7.93	8.32
New Orleans .....	248.35	268.06	266.34	39.8	40.8	40.6	6.24	6.57	6.56
Shreveport .....	227.00	249.64	240.52	40.9	40.2	39.3	5.55	6.21	6.12
<b>MAINE</b> .....	192.56	206.04	208.92	40.2	39.7	40.1	4.79	5.19	5.21
Lewiston—Auburn .....	154.25	168.97	170.33	37.9	37.8	37.6	4.07	4.47	4.53
Portland .....	193.84	204.00	202.47	40.3	40.0	39.7	4.81	5.10	5.10
<b>MARYLAND</b> .....	252.89	268.80	277.78	39.7	38.9	40.2	6.37	6.91	6.91
Baltimore .....	269.87	285.32	297.11	40.4	39.3	40.7	6.68	7.26	7.30
<b>MASSACHUSETTS</b> .....	221.00	235.94	241.26	40.7	40.4	41.1	5.43	5.84	5.87
Boston .....	242.38	257.11	263.68	40.6	40.3	41.2	5.97	6.38	6.40
Brockton .....	167.96	182.36	184.40	38.0	37.6	38.1	4.42	4.85	4.84
Fall River .....	156.60	167.08	174.06	36.0	35.7	36.8	4.35	4.68	4.73
Lawrence—Haverhill .....	222.50	229.50	234.00	40.9	39.5	40.0	5.44	5.81	5.85
Lowell .....	189.82	202.18	207.36	39.3	39.8	40.5	4.83	5.08	5.12
New Bedford .....	181.92	199.68	209.08	37.9	39.0	39.9	4.80	5.12	5.24
Springfield—Chicopee—Holyoke .....	231.50	238.71	242.18	42.4	41.3	41.9	5.46	5.78	5.78
Worcester .....	227.14	248.26	250.08	41.0	40.9	41.2	5.54	6.07	6.07
<b>MICHIGAN</b> .....	336.22	369.67	(*)	42.5	42.9	(*)	7.91	8.62	(*)
Ann Arbor .....	376.31	400.38	407.56	43.9	44.1	44.3	8.57	9.08	9.20
Battle Creek .....	327.21	335.62	333.78	42.7	41.1	40.9	7.66	8.17	8.16
Bay City .....	323.29	333.39	331.47	42.9	43.7	43.2	7.54	7.63	7.67
Detroit .....	365.98	404.80	(*)	42.9	44.0	(*)	8.53	9.20	(*)
Flint .....	391.60	424.20	432.10	44.5	44.0	44.8	8.80	9.64	9.65
Grand Rapids .....	263.57	295.73	296.58	40.7	41.9	40.7	6.48	7.06	7.29
Jackson .....	281.36	332.43	332.92	41.9	44.1	43.8	6.72	7.54	7.60
Kalamazoo—Portage .....	285.44	324.12	325.81	40.9	41.5	41.2	6.98	7.81	7.91
Lansing—East Lansing .....	332.38	413.72	382.85	41.2	44.3	41.7	8.08	9.34	9.18
Muskegon—Norton Shores—Muskegon Heights .....	289.51	309.11	308.14	41.8	41.8	41.5	6.93	7.40	7.43
Saginaw .....	396.54	428.08	446.59	44.4	43.5	46.5	8.93	9.84	9.60
<b>MINNESOTA</b> .....	253.43	271.72	273.36	40.1	39.9	40.2	6.32	6.81	6.80
Duluth—Superior .....	237.20	(*)	(*)	39.6	(*)	(*)	5.99	(*)	(*)
Minneapolis—St. Paul .....	273.36	292.32	293.35	40.8	40.6	40.8	6.70	7.20	7.19
<b>MISSISSIPPI</b> .....	180.80	192.94	194.69	40.0	39.7	40.1	4.52	4.86	4.86
Jackson .....	197.00	218.12	219.76	41.3	41.0	41.7	4.77	5.32	5.27

See footnotes at end of table.

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

**C-13. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>MISSOURI</b> .....	\$244.82	\$256.36	\$260.69	40.2	39.5	39.8	\$6.09	\$6.49	\$6.55
Kansas City .....	280.03	290.87	301.32	41.0	39.9	40.5	6.83	7.29	7.44
St. Joseph .....	222.72	237.37	240.34	39.7	39.3	39.4	5.61	6.04	6.10
St. Louis .....	283.46	299.15	303.97	41.2	40.7	41.3	6.88	7.35	7.36
Springfield .....	196.09	221.36	230.04	38.6	38.7	39.8	5.08	5.72	5.78
<b>MONTANA</b> .....	324.00	338.55	341.43	43.2	40.4	42.1	7.50	8.38	8.11
<b>NEBRASKA</b> .....	232.97	260.19	259.15	40.8	41.3	41.2	5.71	6.30	6.29
Lincoln .....	225.81	253.09	259.24	38.6	39.3	39.7	5.85	6.44	6.53
Omaha .....	251.30	272.14	271.06	41.4	40.8	40.7	6.07	6.67	6.66
<b>NEVADA</b> .....	249.82	259.97	272.45	40.1	38.4	39.6	6.23	6.77	6.88
Las Vegas .....	316.41	343.26	(*)	39.9	40.1	(*)	7.93	8.56	(*)
<b>NEW HAMPSHIRE</b> .....	195.69	208.40	212.63	40.6	40.0	40.5	4.82	5.21	5.25
Manchester .....	173.41	182.96	188.25	39.5	38.6	39.3	4.39	4.74	4.79
Nashua .....	219.01	234.89	233.91	41.4	41.5	41.4	5.29	5.66	5.65
<b>NEW JERSEY</b> .....	254.14	271.05	275.14	41.8	41.7	42.2	6.08	6.50	6.52
Atlantic City .....	183.38	188.84	201.76	39.1	37.1	38.8	4.69	5.09	5.20
Camden <sup>2</sup> .....	249.29	253.03	262.03	40.8	40.1	41.2	6.11	6.31	6.36
Hackensack <sup>3</sup> .....	245.78	249.55	257.24	43.5	43.1	43.6	5.65	5.79	5.90
Jersey City <sup>3</sup> .....	244.62	275.81	273.65	40.3	41.6	41.4	6.07	6.63	6.61
New Brunswick—Perth Amboy—Sayreville <sup>3</sup> .....	265.36	294.17	291.10	40.7	41.2	41.0	6.52	7.14	7.10
Newark <sup>3</sup> .....	256.01	276.25	279.06	41.9	42.5	42.8	6.11	6.50	6.52
Paterson—Clifton—Passaic <sup>3</sup> .....	249.31	253.17	256.67	42.4	41.3	41.6	5.88	6.13	6.17
Trenton .....	255.00	271.32	282.99	40.8	40.8	41.8	6.25	6.65	6.77
<b>NEW MEXICO</b> .....	187.27	201.33	204.80	40.1	39.4	40.0	4.67	5.11	5.12
Albuquerque .....	192.05	209.09	208.95	41.3	39.6	39.8	4.65	5.28	5.25
<b>NEW YORK</b> .....	239.60	256.07	(*)	40.0	39.7	(*)	5.99	6.45	(*)
Albany—Schenectady—Troy .....	256.48	266.90	(*)	40.2	39.6	(*)	6.38	6.74	(*)
Binghamton .....	224.52	234.84	(*)	41.5	40.7	(*)	5.41	5.77	(*)
Buffalo .....	313.81	344.44	(*)	41.4	41.7	(*)	7.58	8.26	(*)
Elmira .....	237.28	254.34	(*)	40.7	40.5	(*)	5.83	6.28	(*)
Monroe County <sup>4</sup> .....	314.91	348.53	(*)	42.1	42.4	(*)	7.48	8.22	(*)
Nassau—Suffolk <sup>5</sup> .....	223.68	237.37	(*)	39.8	39.3	(*)	5.62	6.04	(*)
New York—Northeastern New Jersey .....	230.40	243.36	(*)	40.0	39.7	(*)	5.76	6.13	(*)
New York and Nassau—Suffolk <sup>5</sup> .....	211.37	220.96	(*)	38.5	37.9	(*)	5.49	5.83	(*)
New York SMSA <sup>5</sup> .....	208.57	217.33	(*)	38.2	37.6	(*)	5.46	5.78	(*)
New York City <sup>6</sup> .....	205.25	214.48	(*)	37.8	37.3	(*)	5.43	5.75	(*)
Poughkeepsie .....	244.95	253.86	(*)	42.6	42.1	(*)	5.75	6.03	(*)
Rochester .....	297.20	327.60	(*)	41.8	42.0	(*)	7.11	7.80	(*)
Rockland County <sup>2</sup> .....	237.12	246.38	(*)	41.6	41.2	(*)	5.70	5.98	(*)
Syracuse .....	267.07	287.43	(*)	41.6	41.9	(*)	6.42	6.86	(*)
Utica—Rome .....	228.89	240.60	(*)	40.8	39.9	(*)	5.61	6.03	(*)
Westchester County <sup>6</sup> .....	244.92	235.41	(*)	42.3	39.3	(*)	5.79	5.99	(*)
<b>NORTH CAROLINA</b> .....	173.17	184.86	188.65	39.9	39.0	39.8	4.34	4.74	4.74
Asheville .....	170.85	187.63	183.66	40.2	40.7	40.1	4.25	4.61	4.58
Charlotte—Gastonia .....	178.79	194.81	193.52	41.1	41.1	41.0	4.35	4.74	4.72
Greensboro—Winston-Salem—High Point .....	187.53	196.48	206.00	39.9	38.3	40.0	4.70	5.13	5.15
Raleigh—Durham .....	194.22	206.84	210.94	39.8	39.1	39.8	4.88	5.29	5.30
<b>NORTH DAKOTA</b> .....	202.99	218.21	225.55	38.3	37.3	39.5	5.30	5.85	5.71
Fargo—Moorhead .....	216.00	230.51	244.44	37.5	36.3	38.8	5.76	6.35	6.30
<b>OHIO</b> .....	297.36	323.82	327.83	42.0	42.0	42.3	7.08	7.71	7.75
Akron .....	293.58	323.76	327.23	42.0	42.6	43.0	6.99	7.60	7.61
Canton .....	288.95	337.33	338.21	39.8	41.8	41.6	7.26	8.07	8.13
Cincinnati .....	276.54	299.59	300.84	41.9	41.9	41.9	6.60	7.15	7.18
Cleveland .....	313.60	340.92	346.18	42.9	43.1	43.6	7.31	7.91	7.94
Columbus .....	260.25	275.60	277.14	40.6	40.0	40.4	6.41	6.89	6.86
Dayton .....	308.29	331.14	333.41	42.7	42.4	42.8	7.22	7.81	7.79
Toledo .....	311.58	333.22	338.55	42.8	41.6	41.9	7.28	8.01	8.08
Youngstown—Warren .....	331.70	384.08	377.73	40.5	42.3	41.6	8.19	9.08	9.08

See footnotes at end of table.

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

**C-13. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>OKLAHOMA</b> .....	\$226.89	\$251.07	\$252.90	40.3	40.3	40.4	\$5.63	\$6.23	\$6.26
Oklahoma City .....	226.87	239.51	249.71	41.1	39.2	39.7	5.52	6.11	6.29
Tulsa .....	239.99	273.47	272.54	40.2	41.0	40.8	5.97	6.67	6.68
<b>OREGON</b> .....	269.12	290.29	295.64	38.5	38.5	38.9	6.99	7.54	7.60
Eugene—Springfield .....	299.49	314.78	(*)	40.2	39.2	(*)	7.45	8.03	(*)
Jackson County .....	269.50	296.38	(*)	38.5	37.9	(*)	7.00	7.82	(*)
Portland .....	262.19	276.95	(*)	38.5	38.2	(*)	6.81	7.25	(*)
<b>PENNSYLVANIA</b> .....	248.84	271.32	274.44	40.2	39.9	40.3	6.19	6.80	6.81
Allentown—Bethlehem—Easton .....	245.11	261.44	260.06	38.6	38.0	37.8	6.35	6.88	6.88
Alltoons .....	206.70	230.18	228.69	39.0	38.3	38.5	5.30	6.01	5.94
Delaware Valley .....	259.29	274.03	280.89	40.2	39.6	40.3	6.45	6.92	6.97
Erie .....	261.86	281.99	285.69	42.1	41.9	42.2	6.22	6.73	6.77
Harrisburg .....	222.03	256.40	259.67	39.8	40.0	40.7	5.58	6.41	6.38
Johnstown .....	277.47	293.54	291.93	41.6	40.6	40.1	6.67	7.23	7.28
Lancaster .....	223.04	235.42	242.38	40.7	39.7	40.6	5.48	5.93	5.97
Northeast Pennsylvania .....	177.12	190.55	192.03	36.9	37.0	37.0	4.80	5.15	5.19
Philadelphia SMSA .....	257.92	271.15	277.55	40.3	39.7	40.4	6.40	6.83	6.87
Pittsburgh .....	299.95	334.97	343.62	40.1	40.8	41.6	7.48	8.21	8.26
Reading .....	223.86	236.12	241.88	39.0	37.9	38.7	5.74	6.23	6.25
Scranton .....	188.47	202.91	201.37	38.7	39.4	39.1	4.87	5.15	5.15
Wilkes-Barre—Hazleton .....	167.32	180.25	183.39	35.3	35.0	35.2	4.74	5.15	5.21
Williamsport .....	221.27	241.74	247.42	40.6	39.5	40.1	5.45	6.12	6.17
York .....	238.40	243.19	250.20	42.8	40.6	41.7	5.57	5.99	6.00
<b>RHODE ISLAND</b> .....	179.40	195.92	198.70	39.0	39.5	39.9	4.60	4.96	4.98
Providence—Warwick—Pawtucket .....	182.42	196.81	198.50	39.4	39.6	40.1	4.63	4.97	4.95
<b>SOUTH CAROLINA</b> .....	184.42	201.14	202.86	40.8	40.8	40.9	4.52	4.93	4.96
Charleston—North Charleston .....	214.02	230.01	241.82	41.8	41.0	42.8	5.12	5.61	5.65
Columbia .....	179.90	199.20	196.52	39.8	40.0	39.7	4.52	4.98	4.95
Greenville—Spartanburg .....	184.46	198.86	197.96	40.9	40.5	40.4	4.51	4.91	4.90
<b>SOUTH DAKOTA</b> .....	209.75	213.73	218.83	41.7	53.9	3.9	5.03	5.37	5.54
Rapid City .....	191.20	181.72	192.10	39.1	33.1	31.7	4.89	5.49	6.06
Sioux Falls .....	258.51	280.16	288.69	42.8	41.2	41.9	6.04	6.80	6.89
<b>TENNESSEE</b> .....	199.00	212.65	212.51	39.8	39.6	39.5	5.00	5.37	5.38
Chattanooga .....	206.23	217.88	220.04	41.0	40.2	40.3	5.03	5.42	5.46
Knoxville .....	232.00	251.65	254.52	40.0	40.2	40.4	5.80	6.26	6.30
Memphis .....	227.77	252.76	256.46	40.1	40.9	41.1	5.68	6.18	6.24
Nashville—Davidson .....	217.06	232.98	229.90	40.8	40.1	39.3	5.32	5.81	5.85
<b>TEXAS</b> .....	239.04	249.08	258.32	41.5	40.5	41.2	5.76	6.15	6.27
Amarillo .....	241.22	244.49	248.89	43.7	42.3	41.9	5.52	5.78	5.94
Austin .....	190.92	195.76	195.50	43.0	41.3	40.9	4.44	4.74	4.78
Beaumont—Port Arthur—Orange .....	346.10	306.16	318.91	41.4	35.6	35.2	8.36	8.60	9.06
Corpus Christi .....	275.72	282.20	304.83	41.4	40.2	41.7	6.66	7.02	7.31
Dallas—Fort Worth .....	218.65	232.98	236.96	41.1	40.1	40.3	5.32	5.81	5.88
El Paso .....	167.96	185.87	183.02	38.0	39.8	39.7	4.42	4.67	4.61
Galveston—Texas City .....	378.82	382.13	409.25	44.1	41.9	44.1	8.59	9.12	9.28
Houston .....	297.90	324.51	328.50	43.3	43.5	43.8	6.88	7.46	7.50
Lubbock .....	172.77	197.21	196.46	39.9	41.0	41.1	4.33	4.81	4.78
San Antonio .....	174.47	179.47	184.14	40.2	39.1	39.6	4.34	4.59	4.65
Waco .....	195.53	209.66	215.73	39.5	38.4	38.8	4.95	5.46	5.56
Wichita Falls .....	217.42	228.66	221.90	41.1	40.4	40.2	5.29	5.66	5.52
<b>UTAH</b> .....	218.65	236.38	235.17	39.9	39.2	39.0	5.48	6.03	6.03
Salt Lake City—Ogden .....	209.71	222.22	223.62	40.8	39.4	39.3	5.14	5.64	5.69
<b>VERMONT</b> .....	204.85	218.97	224.39	41.3	40.7	41.4	4.96	5.38	5.42
Burlington .....	230.32	240.95	239.61	41.8	41.4	41.1	5.51	5.82	5.83
Springfield .....	240.83	264.12	267.22	42.4	42.6	43.1	5.68	6.20	6.20
<b>VIRGINIA</b> .....	197.10	210.99	215.42	39.5	39.0	39.6	4.99	5.41	5.44
Bristol .....	184.42	190.76	197.36	38.5	38.0	38.1	4.79	5.02	5.18
Lynchburg .....	199.10	223.01	223.58	39.9	40.4	40.8	4.99	5.52	5.48
Norfolk—Virginia Beach—Portsmouth .....	235.06	254.81	243.58	41.9	41.5	40.8	5.61	6.14	5.97
Northern Virginia <sup>10</sup> .....	231.45	235.13	249.90	39.7	38.8	40.7	5.83	6.06	6.14
Petersburg-Colonial Heights-Hopewell .....	255.19	246.00	248.45	40.7	37.5	38.4	6.27	6.56	6.47

See footnotes at end of table.



## ESTABLISHMENT DATA STATE AND AREA HOURS AND EARNINGS

**C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAR. 1978	FEB. 1979	MAR. 1979 <sup>p</sup>	MAR. 1978	FEB. 1979	MAR. 1979 <sup>p</sup>	MAR. 1978	FEB. 1979	MAR. 1979 <sup>p</sup>
<b>VIRGINIA—Continued</b>									
Richmond .....	\$231.77	\$262.15	\$271.58	38.5	39.6	40.9	\$6.02	\$6.62	\$6.64
Roanoke .....	178.94	201.20	198.40	39.5	40.0	39.6	4.53	5.03	5.01
<b>WASHINGTON<sup>11</sup></b>									
Seattle—Everett .....	287.82	(*)	(*)	39.0	(*)	(*)	7.38	(*)	(*)
Spokane .....	292.04	(*)	(*)	39.2	(*)	(*)	7.45	(*)	(*)
Tacoma .....	253.88	(*)	(*)	39.3	(*)	(*)	6.46	(*)	(*)
	292.16	(*)	(*)	38.8	(*)	(*)	7.53	(*)	(*)
<b>WEST VIRGINIA</b>									
Charleston .....	250.38	286.08	(*)	39.0	39.9	(*)	6.42	7.17	(*)
Huntington—Ashland .....	298.75	316.73	(*)	41.9	42.4	(*)	7.13	7.47	(*)
Parkersburg—Marietta .....	275.58	311.45	(*)	39.2	40.5	(*)	7.03	7.69	(*)
Wheeling .....	267.49	291.62	(*)	40.9	40.9	(*)	6.54	7.13	(*)
	275.81	296.72	(*)	40.8	39.3	(*)	6.76	7.55	(*)
<b>WISCONSIN</b>									
Appleton—Oshkosh .....	268.56	293.86	296.13	40.9	41.3	41.5	6.56	7.11	7.14
Eau Claire .....	264.84	283.53	290.97	42.4	42.0	42.4	6.24	6.87	6.86
Green Bay .....	252.75	294.56	291.63	39.9	42.2	41.9	6.33	6.98	6.96
Kenosha .....	268.82	290.43	295.64	40.9	41.3	41.7	6.58	7.04	7.09
La Crosse .....	295.50	321.24	326.38	39.3	39.8	40.2	7.52	8.07	8.12
Madison .....	213.58	225.08	235.10	40.1	39.6	40.5	5.32	5.69	5.80
Milwaukee .....	270.35	276.46	281.65	39.6	39.3	39.8	6.82	7.04	7.08
Racine .....	295.47	323.72	325.34	41.2	41.6	41.6	7.17	7.79	7.83
	293.90	319.46	320.34	41.9	42.9	42.8	7.02	7.45	7.49
<b>WYOMING</b>									
Casper .....	239.46	235.59	242.17	39.0	37.1	37.2	6.14	6.35	6.51
Cheyenne .....	285.07	309.10	301.43	40.9	40.3	39.3	6.97	7.67	7.67
	228.09	(*)	(*)	37.7	(*)	(*)	6.05	(*)	(*)

<sup>1</sup> Data for 1979 are not strictly comparable with earlier years.

<sup>2</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, Gloucester Counties, New Jersey.

<sup>3</sup> Subarea of New York-Northeastern New Jersey.

<sup>4</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>5</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>6</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>7</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

<sup>8</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

<sup>9</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>10</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

<sup>11</sup> Revised to 1978 benchmark; not strictly comparable with previously published data.

p=preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-1. Labor turnover rates in manufacturing, 1969 to date**

(Per 100 employees)

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.2	4.6	3.9	3.1	2.3
1978	4.1	3.8	3.2	3.7 <sup>P</sup>	4.0	4.7	4.8	4.3	5.3	4.8	4.3	3.3	2.3
1979	-	4.0	3.4	3.8 <sup>P</sup>									
<b>New hires</b>													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	2.9	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.1	3.9	3.5	2.6	1.7
1979	-	2.8	2.5	2.8 <sup>P</sup>									
<b>Recalls</b>													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	.9	.8	.6	.6	.5
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.8	.5	.5	.5
1979	-	.9	.6	.7 <sup>P</sup>									
<b>Total separations</b>													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.2	5.1	4.8	3.8	3.4	3.3
1978	3.8	3.6	3.1	3.5	3.6	3.6	3.8	4.1	5.2	4.8	4.0	3.5	3.4
1979	-	3.8	3.2	3.7 <sup>P</sup>									
<b>Quits</b>													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.4	3.0	2.3	1.7	1.3
1979	-	1.8	1.6	2.0 <sup>P</sup>									
<b>Layoffs</b>													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.4	1.0	1.1	1.1	1.1	1.4
1978	.9	1.2	.9	.9	.7	.7	.7	1.0	.7	.8	.9	1.0	1.3
1979	-	1.1	.8	.8 <sup>P</sup>									

<sup>P</sup>=preliminary.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates by industry**

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>
-	<b>MANUFACTURING</b> .....	3.4	3.8	2.5	2.8	0.6	0.7	3.2	3.7	1.6	2.0	0.8	0.8
24, 25, 32-39	<b>DURABLE GOODS</b> .....	3.2	3.7	2.4	2.8	.6	.6	2.9	3.4	1.4	1.7	.6	.7
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3.5	4.1	2.6	3.0	.8	.9	3.6	4.1	1.9	2.3	1.0	1.0
	<b>DURABLE GOODS</b>												
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	4.6	5.9	3.6	4.4	.8	1.4	5.2	5.8	2.7	3.4	1.5	1.3
242	Sawmills and planing mills .....	3.6	-	3.0	-	.5	-	4.0	-	2.4	-	.7	-
2421	Sawmills and planing mills, general .....	3.2	-	2.6	-	.4	-	3.6	-	2.1	-	.6	-
243	Millwork, plywood, and structural members .....	4.0	-	3.3	-	.6	-	4.5	-	2.5	-	1.0	-
2431	Millwork .....	4.1	-	3.4	-	.6	-	4.6	-	2.8	-	1.0	-
244	Wooden containers .....	7.8	-	6.6	-	.7	-	6.4	-	4.9	-	.3	-
245	Wood buildings and mobile homes .....	8.6	-	6.1	-	2.4	-	9.3	-	4.6	-	3.4	-
2451	Mobile homes .....	9.9	-	7.6	-	2.2	-	10.2	-	5.5	-	3.1	-
249	Miscellaneous wood products .....	5.1	-	4.3	-	.5	-	4.4	-	2.9	-	.7	-
25	<b>FURNITURE AND FIXTURES</b> .....	4.3	4.7	3.7	4.2	.4	.4	4.7	5.4	2.7	3.4	.8	.9
251	Household furniture .....	4.3	-	3.8	-	.3	-	5.0	-	3.1	-	.7	-
2511	Wood household furniture .....	4.3	-	4.0	-	.2	-	5.1	-	3.4	-	.4	-
2512	Upholstered household furniture .....	4.2	-	3.8	-	.3	-	4.5	-	2.8	-	.5	-
2515	Mattresses and bedsprings .....	4.4	-	4.0	-	.3	-	5.0	-	2.7	-	1.1	-
252	Office furniture .....	2.8	-	2.5	-	.2	-	3.2	-	1.8	-	.5	-
254	Partitions and fixtures .....	5.9	-	4.6	-	1.1	-	5.0	-	2.6	-	1.0	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	3.6	4.9	2.3	3.0	1.1	1.7	3.4	3.7	1.4	1.8	1.2	1.0
322	Glass and glassware, pressed or blown .....	3.5	-	1.3	-	1.7	-	2.9	-	.9	-	1.2	-
3221	Glass containers .....	4.1	-	1.4	-	2.3	-	3.1	-	1.0	-	1.4	-
3229	Pressed and blown glass, nec .....	2.7	-	1.2	-	1.0	-	2.7	-	.7	-	.9	-
323	Products of purchased glass .....	3.1	-	1.8	-	1.1	-	2.8	-	1.1	-	.4	-
324	Cement, hydraulic .....	1.0	-	.8	-	.2	-	.9	-	.2	-	.1	-
325	Structural clay products .....	4.2	-	3.5	-	.6	-	4.6	-	2.6	-	1.2	-
326	Pottery and related products .....	2.6	-	1.8	-	.4	-	3.1	-	1.2	-	1.0	-
327	Concrete, gypsum, and plaster products .....	4.7	-	3.1	-	1.5	-	4.9	-	2.0	-	2.1	-
329	Misc. nonmetallic mineral products .....	3.2	-	2.6	-	.5	-	2.7	-	1.3	-	.5	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	2.5	2.6	1.7	1.8	.5	.5	2.2	2.3	.7	.9	.5	.5
331	Blast furnace and basic steel products .....	2.2	-	1.1	-	.8	-	1.8	-	.3	-	.4	-
3312	Blast furnaces and steel mills .....	2.1	-	1.0	-	.8	-	1.8	-	.2	-	.4	-
332	Iron and steel foundries .....	3.2	-	2.6	-	.3	-	3.0	-	1.3	-	.7	-
3321	Gray iron foundries .....	3.2	-	2.6	-	.4	-	3.2	-	1.3	-	.9	-
3325	Steel foundries, nec .....	2.9	-	2.4	-	.4	-	2.6	-	1.2	-	.3	-
333	Primary nonferrous metals .....	1.4	-	1.1	-	.2	-	.9	-	.3	-	.2	-
335	Nonferrous rolling and drawing .....	1.8	-	1.5	-	.2	-	1.7	-	.6	-	.5	-
3351	Copper rolling and drawing .....	1.9	-	1.7	-	.2	-	1.5	-	.7	-	.1	-
3353	Aluminum sheet, plate, and foil .....	1.2	-	.9	-	.3	-	.9	-	.2	-	.4	-
3357	Nonferrous wire drawing and insulating .....	1.6	-	1.3	-	.2	-	1.4	-	.5	-	.3	-
336	Nonferrous foundries .....	3.5	-	3.0	-	.3	-	3.4	-	1.7	-	.7	-
3361	Aluminum foundries .....	3.1	-	2.7	-	.2	-	2.8	-	1.5	-	.3	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	3.5	3.7	2.8	3.0	.5	.6	3.4	3.7	1.6	2.0	.9	.8
341	Metal cans and shipping containers .....	3.7	-	1.3	-	2.1	-	3.2	-	.7	-	1.6	-
3411	Metal cans .....	3.7	-	.9	-	2.4	-	3.1	-	.5	-	1.7	-
342	Cutlery, hand tools, and hardware .....	3.1	-	2.6	-	.2	-	7.9	-	1.6	-	.5	-
3423, 5	Hand and edge tools, and hand saws and blades .....	2.7	-	2.3	-	.3	-	2.7	-	1.5	-	.4	-
3429	Hardware, nec .....	3.4	-	2.8	-	.2	-	3.0	-	1.6	-	.5	-
343	Plumbing and heating, except electric .....	3.4	-	2.9	-	.5	-	3.8	-	1.5	-	1.6	-
344	Fabricated structural metal products .....	3.6	-	2.9	-	.6	-	4.0	-	2.0	-	1.2	-
3441	Fabricated structural metal .....	4.8	-	3.8	-	1.0	-	4.8	-	2.5	-	1.2	-
3442	Metal doors, sash, and trim .....	3.7	-	3.0	-	.7	-	6.2	-	2.6	-	2.4	-
3443	Fabricated plate work (boiler shops) .....	2.3	-	1.9	-	.3	-	2.7	-	1.2	-	.8	-
3444	Sheet metal work .....	4.3	-	3.8	-	.4	-	3.8	-	2.0	-	1.1	-
345	Screw machine products, bolts, etc. .....	4.2	-	3.9	-	.2	-	3.1	-	2.0	-	.1	-
3451	Screw machine products .....	4.8	-	4.5	-	.1	-	3.9	-	2.7	-	.2	-
3452	Bolts, nuts, rivets, and washers .....	3.6	-	3.3	-	.2	-	2.4	-	1.3	-	(1)	-
346	Metal forgings and stampings .....	2.9	-	2.1	-	.4	-	2.9	-	1.1	-	1.0	-
3462	Iron and steel forgings .....	2.4	-	2.0	-	.2	-	1.8	-	.8	-	.4	-
3465	Automotive stampings .....	2.3	-	1.0	-	.5	-	2.6	-	.6	-	1.4	-
3469	Metal stampings, nec .....	3.8	-	3.3	-	.4	-	3.7	-	1.8	-	1.0	-
347	Metal services, nec .....	4.9	-	4.2	-	.6	-	5.4	-	2.5	-	1.6	-
348	Ordnance and accessories, nec .....	1.9	-	1.4	-	.4	-	1.3	-	.6	-	.2	-
349	Misc. fabricated metal products .....	3.7	-	3.1	-	.4	-	3.0	-	1.8	-	.3	-
3494	Valves and pipe fittings .....	2.6	-	2.2	-	.2	-	2.4	-	1.2	-	.4	-
3496	Misc. fabricated wire products .....	5.4	-	4.9	-	.4	-	4.3	-	3.0	-	.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates by industry—Continued**

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2.7	2.9	2.3	2.4	0.2	0.2	2.1	2.6	1.1	1.5	0.3	0.3
351	Engines and turbines	1.9	-	1.1	-	.1	-	2.0	-	.4	-	.3	-
3511	Turbines and turbine generator sets	1.6	-	.8	-	( <sup>1</sup> )	-	2.2	-	.3	-	.5	-
3519	Internal combustion engines, nec	2.0	-	1.2	-	.1	-	1.9	-	.4	-	.3	-
352	Farm and garden machinery	4.0	-	3.0	-	.7	-	2.9	-	1.5	-	.4	-
3523	Farm machinery and equipment	4.1	-	3.0	-	.7	-	2.9	-	1.5	-	.4	-
353	Construction and related machinery	2.5	-	2.2	-	.1	-	1.9	-	1.0	-	.3	-
3531	Construction machinery	2.2	-	1.8	-	.2	-	1.6	-	.7	-	.4	-
3533	Oil field machinery	3.3	-	3.1	-	( <sup>1</sup> )	-	2.5	-	1.7	-	.1	-
354	Metalworking machinery	2.9	-	2.4	-	.3	-	2.2	-	1.1	-	.3	-
3541	Machine tools, metal cutting types	2.3	-	2.1	-	.2	-	1.7	-	.8	-	.2	-
3544	Special dies, tools, jigs, and fixtures	3.6	-	2.8	-	.5	-	2.6	-	1.4	-	.2	-
3545	Machine tool accessories	2.8	-	2.5	-	.1	-	2.0	-	1.1	-	.2	-
355	Special industry machinery	2.2	-	1.9	-	.2	-	1.8	-	1.0	-	.2	-
3551	Food products machinery	2.4	-	2.1	-	.2	-	1.8	-	1.0	-	.2	-
3552	Textile machinery	2.1	-	1.5	-	.4	-	2.5	-	1.3	-	.5	-
356	General industrial machinery	2.2	-	1.8	-	.2	-	1.9	-	.9	-	.2	-
3561	Pumps and pumping equipment	2.1	-	2.0	-	.1	-	1.4	-	.8	-	( <sup>1</sup> )	-
3562	Ball and roller bearings	1.8	-	1.2	-	.1	-	1.4	-	.5	-	.2	-
3564	Blowers and fans	3.1	-	2.6	-	.4	-	2.7	-	1.5	-	.4	-
357	Office and computing machines	2.8	-	2.3	-	.1	-	1.9	-	1.1	-	.1	-
3573	Electronic computing equipment	3.0	-	2.6	-	-	-	1.8	-	1.1	-	.1	-
358	Refrigeration and service machinery	2.6	-	2.0	-	.3	-	2.5	-	1.2	-	.4	-
3585	Refrigeration and heating equipment	2.7	-	2.0	-	.4	-	2.4	-	1.2	-	.2	-
359	Misc. machinery, except electrical	3.5	-	3.1	-	.3	-	2.6	-	1.6	-	.3	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	3.1	3.7	2.3	2.7	.4	.5	2.8	3.1	1.3	1.7	.5	.5
361	Electric distributing equipment	3.0	-	2.2	-	.2	-	2.6	-	1.2	-	.2	-
3612	Transformers	2.6	-	1.7	-	.2	-	2.7	-	1.2	-	.2	-
3613	Switchgear and switchboard apparatus	3.3	-	2.6	-	.3	-	2.5	-	1.3	-	.2	-
362	Electrical industrial apparatus	2.8	-	2.0	-	.4	-	2.4	-	1.1	-	.3	-
3621	Motors and generators	2.7	-	1.9	-	.3	-	2.3	-	1.2	-	.3	-
3622	Industrial controls	2.9	-	1.8	-	.7	-	2.9	-	1.0	-	.5	-
363	Household appliances	3.6	-	1.7	-	1.3	-	3.5	-	1.4	-	.9	-
3632	Household refrigerators and freezers	4.7	-	1.1	-	2.4	-	3.3	-	.8	-	1.3	-
3633	Household laundry equipment	3.0	-	1.0	-	1.3	-	2.1	-	.3	-	.1	-
3634	Electric housewares and fans	3.6	-	2.2	-	1.0	-	4.4	-	2.4	-	1.2	-
364	Electric lighting and wiring equipment	3.4	-	2.5	-	.4	-	2.7	-	1.3	-	.5	-
3641	Electric lamps	2.3	-	1.5	-	.3	-	1.6	-	.5	-	.1	-
3643	Current-carrying wiring devices	2.9	-	2.0	-	.2	-	2.6	-	1.1	-	.7	-
365	Radio and TV receiving equipment	4.3	-	1.7	-	1.4	-	5.0	-	1.3	-	1.7	-
3651	Radio and TV receiving sets	4.0	-	1.8	-	1.0	-	4.7	-	1.3	-	1.1	-
366	Communication equipment	2.4	-	1.9	-	.2	-	1.9	-	1.0	-	.3	-
3661	Telephone and telegraph apparatus	2.0	-	1.5	-	.3	-	1.2	-	.5	-	( <sup>1</sup> )	-
3662	Radio and TV communication equipment	2.6	-	2.0	-	.2	-	2.3	-	1.2	-	.4	-
367	Electronic components and accessories	3.7	-	3.2	-	.3	-	3.3	-	1.9	-	.3	-
3671-3	Electronic tubes	2.0	-	1.4	-	.2	-	1.6	-	.6	-	.3	-
3674	Semiconductors and related devices	2.5	-	2.1	-	.2	-	2.3	-	1.2	-	.2	-
3679	Electronic components, nec	4.8	-	4.2	-	.3	-	4.2	-	2.7	-	.3	-
369	Misc. electrical equipment and supplies	2.5	-	1.9	-	.3	-	2.7	-	1.1	-	.7	-
3694	Engine electrical equipment	1.9	-	1.5	-	.1	-	2.7	-	.9	-	1.0	-
37	<b>TRANSPORTATION EQUIPMENT</b>	3.2	-	2.0	-	.8	-	2.4	-	1.0	-	.6	-
371	Motor vehicles and equipment	2.7	-	1.4	-	.9	-	2.0	-	.7	-	.6	-
3711	Motor vehicles and car bodies	3.0	-	1.0	-	1.6	-	1.8	-	.6	-	.6	-
3713	Truck and bus bodies	2.6	-	2.0	-	.5	-	2.3	-	1.2	-	.4	-
3714	Motor vehicle parts and accessories	2.2	-	1.3	-	.4	-	2.1	-	.6	-	.8	-
3715	Truck trailers	5.7	-	5.4	-	.2	-	3.9	-	2.1	-	( <sup>1</sup> )	-
372	Aircraft and parts	2.5	-	2.0	-	.2	-	1.5	-	.8	-	.2	-
3721	Aircraft	2.3	-	1.8	-	.3	-	1.3	-	.6	-	.2	-
3724	Aircraft engines and engine parts	2.1	-	1.8	-	( <sup>1</sup> )	-	1.2	-	.5	-	.1	-
3728	Aircraft equipment, nec	3.5	-	3.2	-	.2	-	2.5	-	1.4	-	.2	-
373	Ship and boat building and repairing	5.8	-	3.7	-	2.0	-	5.4	-	2.1	-	2.1	-
3731	Ship building and repairing	5.8	-	3.2	-	2.4	-	5.7	-	1.9	-	2.6	-
3732	Boat building and repairing	6.0	-	5.4	-	.5	-	4.7	-	2.9	-	.4	-
374	Railroad equipment	3.6	-	2.3	-	.6	-	2.6	-	.6	-	.4	-
376	Guided missiles, space vehicles, parts	2.3	-	1.4	-	.7	-	1.5	-	.7	-	.3	-
3761	Guided missiles and space vehicles	2.1	-	1.2	-	.7	-	1.3	-	.6	-	.3	-
379	Miscellaneous transportation equipment	7.9	-	6.0	-	1.7	-	6.4	-	3.8	-	1.2	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	2.6	3.2	2.2	2.8	.2	.2	2.2	3.1	1.2	1.9	.3	.4
381	Engineering and scientific instruments	2.5	-	2.4	-	.1	-	1.6	-	1.2	-	.1	-
382	Measuring and controlling devices	2.9	-	2.5	-	.2	-	2.2	-	1.1	-	.3	-
3822	Environmental controls	2.8	-	2.0	-	.5	-	3.2	-	1.0	-	1.2	-
3823	Process control instruments	3.1	-	2.8	-	.1	-	1.7	-	1.0	-	.1	-
3825	Instruments to measure electricity	3.0	-	2.6	-	( <sup>1</sup> )	-	1.7	-	1.1	-	.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates by industry—Continued**

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>
	<b>INSTRUMENTS AND RELATED PRODUCTS—Cont'd</b>												
383	Optical instruments and lenses .....	1.8	—	1.6	—	0.1	—	1.5	—	1.0	—	0.1	—
384	Medical instruments and supplies .....	2.9	—	2.5	—	.3	—	2.6	—	1.6	—	.3	—
3841	Surgical and medical instruments .....	3.2	—	2.9	—	.2	—	2.8	—	1.8	—	.2	—
3842	Surgical appliances and supplies .....	2.8	—	2.2	—	.4	—	2.6	—	1.5	—	.5	—
385	Ophthalmic goods .....	2.9	—	2.2	—	.6	—	3.4	—	1.7	—	1.0	—
386	Photographic equipment and supplies .....	1.8	—	1.6	—	.1	—	1.7	—	1.0	—	.1	—
387	Watches, clocks, and watchcases .....	3.7	—	1.8	—	1.2	—	3.5	—	1.5	—	.9	—
	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>												
39	Jewelry, silverware, and plated ware .....	5.1	5.4	3.4	3.8	1.5	1.4	4.1	5.8	2.0	2.7	1.2	1.9
391	Musical instruments .....	2.9	—	2.2	—	.7	—	4.4	—	1.8	—	1.8	—
393	Toys and sporting goods .....	3.4	—	2.9	—	.3	—	4.1	—	2.5	—	.7	—
394	Dolls, games, toys, and children's vehicles .....	8.2	—	4.3	—	3.6	—	4.5	—	2.3	—	1.0	—
3942,4	Sporting and athletic goods, nec .....	12.2	—	4.8	—	7.1	—	5.4	—	2.8	—	1.3	—
3949	Pens, pencils, office and art supplies .....	4.9	—	3.8	—	.8	—	3.7	—	1.8	—	.8	—
395	Costume jewelry and notions .....	3.3	—	2.8	—	.5	—	3.0	—	1.3	—	.9	—
396	Miscellaneous manufactures .....	5.2	—	3.6	—	1.4	—	4.5	—	2.5	—	1.1	—
399	Miscellaneous manufactures .....	4.3	—	3.3	—	1.0	—	3.8	—	1.8	—	1.2	—
	<b>NONDURABLE GOODS</b>												
20	<b>FOOD AND KINDRED PRODUCTS</b>	4.3	5.3	2.9	3.5	1.3	1.5	4.8	5.3	2.4	2.7	1.6	1.8
201	Meat products .....	5.4	—	3.9	—	1.1	—	6.1	—	3.9	—	1.4	—
2011	Meat packing plants .....	3.3	—	2.0	—	1.0	—	4.1	—	1.6	—	1.9	—
2013	Sausages and other prepared meats .....	3.6	—	1.9	—	1.5	—	3.8	—	1.5	—	1.6	—
2016	Poultry dressing plants .....	9.9	—	8.2	—	1.7	—	10.8	—	8.8	—	.9	—
202	Dairy products .....	2.9	—	2.0	—	.8	—	2.9	—	1.6	—	.6	—
203	Preserved fruits and vegetables .....	6.2	—	3.1	—	3.0	—	8.1	—	3.0	—	4.0	—
204	Grain mill products .....	3.7	—	2.7	—	.9	—	3.3	—	2.0	—	.6	—
205	Bakery products .....	2.4	—	1.9	—	.4	—	2.5	—	1.6	—	.5	—
2051	Bread, cake, and related products .....	2.2	—	1.9	—	.2	—	2.5	—	1.7	—	.4	—
2052	Cookies and crackers .....	3.2	—	1.9	—	1.2	—	2.7	—	1.2	—	.9	—
206	Sugar and confectionery products .....	4.5	—	2.3	—	2.1	—	6.1	—	1.7	—	3.8	—
207	Fats and oils .....	3.3	—	2.6	—	.7	—	3.1	—	1.6	—	.8	—
208	Beverages .....	4.3	—	2.7	—	1.4	—	3.8	—	1.7	—	1.3	—
2082	Malt beverages .....	4.5	—	1.4	—	2.9	—	2.8	—	.3	—	1.7	—
2086	Bottled and canned soft drinks .....	4.1	—	3.4	—	.5	—	4.0	—	2.4	—	.7	—
209	Misc. foods and kindred products .....	4.7	—	3.4	—	1.2	—	5.3	—	2.6	—	1.9	—
21	<b>TOBACCO MANUFACTURES</b>	1.7	—	.8	—	.4	—	3.7	—	.4	—	2.2	—
211	Cigarettes .....	1.3	—	.6	—	.3	—	1.5	—	.1	—	.4	—
22	<b>TEXTILE MILL PRODUCTS</b>	3.9	4.7	3.0	3.7	.5	.7	3.8	4.8	2.4	3.2	.5	.7
221	Weaving mills, cotton .....	3.7	—	2.9	—	.2	—	3.5	—	2.3	—	.2	—
222	Weaving mills, synthetics .....	3.3	—	2.7	—	.3	—	3.5	—	2.4	—	.2	—
223	Weaving and finishing mills, wool .....	4.3	—	3.7	—	.4	—	4.0	—	2.8	—	.4	—
224	Narrow fabric mills .....	4.3	—	3.5	—	.7	—	3.5	—	2.1	—	.7	—
225	Knitting mills .....	4.6	—	3.0	—	1.0	—	4.2	—	2.5	—	.9	—
2251	Women's hosiery, except socks .....	3.7	—	3.3	—	.2	—	3.6	—	2.7	—	.2	—
2252	Hosiery, nec .....	4.6	—	4.0	—	.4	—	4.1	—	3.0	—	.5	—
2253	Knit outerwear mills .....	4.9	—	2.7	—	1.5	—	4.4	—	2.2	—	1.4	—
2254	Knit underwear mills .....	3.0	—	2.6	—	.4	—	3.6	—	2.8	—	.4	—
2257	Circular knit fabric mills .....	7.2	—	3.8	—	1.5	—	5.1	—	2.4	—	.8	—
226	Textile finishing, except wool .....	2.8	—	2.0	—	.5	—	3.0	—	1.7	—	.5	—
227	Floor covering mills .....	3.2	—	2.7	—	.2	—	3.2	—	2.0	—	.3	—
228	Yarn and thread mills .....	4.4	—	3.7	—	.5	—	4.9	—	3.5	—	.3	—
229	Miscellaneous textile goods .....	3.6	—	2.7	—	.7	—	3.2	—	1.6	—	.6	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	4.9	5.4	3.2	3.7	1.4	1.5	4.9	5.7	2.6	3.2	1.6	1.6
231	Men's and boys' suits and coats .....	3.0	—	1.5	—	.7	—	4.0	—	1.3	—	1.7	—
232	Men's and boys' furnishings .....	4.6	—	3.4	—	1.0	—	4.7	—	3.0	—	1.1	—
2321	Men's and boys' shirts and nightwear .....	3.7	—	3.0	—	.5	—	4.1	—	2.8	—	.7	—
2327	Men's and boys' separate trousers .....	4.2	—	3.7	—	.3	—	4.4	—	2.9	—	1.0	—
2328	Men's and boys' work clothing .....	4.9	—	4.2	—	.5	—	4.7	—	3.8	—	.3	—
233	Women's and misses' outerwear .....	5.5	—	3.2	—	2.1	—	5.2	—	2.3	—	2.2	—
234	Women's and children's undergarments .....	4.4	—	3.3	—	1.0	—	5.0	—	3.0	—	1.3	—
2341	Women's and children's underwear .....	4.5	—	3.3	—	1.0	—	5.1	—	3.3	—	1.1	—
2342	Brassieres and allied garments .....	4.1	—	3.1	—	.7	—	4.5	—	1.7	—	1.9	—
236	Children's outerwear .....	4.6	—	2.8	—	1.6	—	5.2	—	2.4	—	2.3	—
238	Misc. apparel and accessories .....	5.6	—	3.1	—	2.3	—	3.8	—	2.6	—	.6	—
239	Misc. fabricated textile products .....	4.9	—	3.9	—	.8	—	4.9	—	2.7	—	1.3	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	2.1	2.7	1.5	1.8	.5	.7	2.4	2.7	1.0	1.3	.7	.7
261,2,6	Paper and pulp mills .....	1.1	—	.8	—	.2	—	1.2	—	.4	—	.4	—
262	Paper mills, except building paper .....	1.1	—	.8	—	.3	—	1.1	—	.4	—	.3	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates by industry—Continued**

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>
<b>PAPER AND ALLIED PRODUCTS—Continued</b>													
263	Paperboard mills	1.1	—	0.9	—	0.1	—	1.3	—	0.7	—	0.1	—
264	Misc. converted paper products	2.9	—	2.2	—	.6	—	2.9	—	1.4	—	.7	—
265	Paperboard containers and boxes	2.6	—	1.7	—	.7	—	3.3	—	1.2	—	1.2	—
2651	Folding paperboard boxes	2.4	—	1.7	—	.5	—	3.1	—	1.2	—	1.2	—
2653	Corrugated and solid fiber boxes	2.0	—	1.5	—	.3	—	3.1	—	1.1	—	1.1	—
<b>PRINTING AND PUBLISHING</b>													
27	Printing and publishing	3.1	3.2	2.5	2.7	.4	0.4	2.7	2.8	1.7	1.8	.5	0.5
271	Newspapers	3.0	—	2.9	—	.1	—	2.6	—	2.0	—	.1	—
272	Periodicals	1.9	—	1.8	—	.1	—	2.8	—	1.7	—	.7	—
273	Books	3.3	—	2.5	—	.7	—	2.7	—	1.5	—	.6	—
274	Miscellaneous publishing	3.0	—	2.3	—	.4	—	2.6	—	1.5	—	.4	—
275	Commercial printing	3.1	—	2.2	—	.8	—	2.8	—	1.4	—	.8	—
2751	Commercial printing, letterpress	3.6	—	2.4	—	1.0	—	3.3	—	1.5	—	1.1	—
2752	Commercial printing, lithographic	2.9	—	2.1	—	.6	—	2.5	—	1.3	—	.5	—
278	Blankbooks and bookbinding	5.1	—	4.3	—	.8	—	4.6	—	2.5	—	1.3	—
<b>CHEMICALS AND ALLIED PRODUCTS</b>													
28	Chemicals and allied products	1.6	1.8	1.2	1.4	.3	.3	1.4	1.5	.6	.8	.3	.2
281	Industrial inorganic chemicals	1.1	—	.8	—	.2	—	1.1	—	.4	—	.2	—
2819	Industrial inorganic chemicals, nec	1.0	—	.8	—	.1	—	1.0	—	.3	—	.1	—
282	Plastics materials and synthetics	1.1	—	.8	—	.1	—	1.1	—	.4	—	.2	—
2821	Plastics materials and resins	1.2	—	1.0	—	.1	—	1.4	—	.7	—	.1	—
2824	Organic fibers, noncellulosic	.7	—	.5	—	( <sup>1</sup> )	—	.8	—	.3	—	.1	—
283	Drugs	1.4	—	1.1	—	.2	—	1.2	—	.5	—	.3	—
2834	Pharmaceutical preparations	1.5	—	1.3	—	.2	—	1.3	—	.6	—	.3	—
284	Soap, cleaners, and toilet goods	2.4	—	1.3	—	.8	—	2.2	—	.8	—	.7	—
2841	Soap and other detergents	1.5	—	.8	—	.6	—	2.2	—	.4	—	1.0	—
2844	Toilet preparations	3.2	—	1.5	—	1.2	—	2.5	—	1.1	—	.7	—
285	Paints and allied products	2.4	—	1.9	—	.4	—	2.2	—	1.1	—	.3	—
286	Industrial organic chemicals	.9	—	.8	—	( <sup>1</sup> )	—	1.2	—	.4	—	.2	—
287	Agricultural chemicals	3.9	—	2.9	—	.9	—	1.8	—	1.1	—	.2	—
289	Miscellaneous chemical products	1.7	—	1.5	—	.1	—	1.8	—	.8	—	.5	—
<b>PETROLEUM AND COAL PRODUCTS</b>													
29	Petroleum and coal products	1.9	2.4	1.5	2.0	.3	.4	1.8	2.1	.5	.7	.4	.7
291	Petroleum refining	1.4	—	1.2	—	.1	—	1.5	—	.3	—	.3	—
295	Paving and roofing materials	3.8	—	2.7	—	.9	—	3.2	—	1.4	—	1.0	—
<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>													
30	Rubber and misc. plastics products	4.2	4.6	3.4	3.7	.6	.5	4.0	4.6	2.3	2.7	.8	.7
301	Tires and inner tubes	1.4	—	.9	—	.2	—	1.3	—	.4	—	.2	—
302	Rubber and plastics footwear	5.1	—	4.4	—	.2	—	5.6	—	4.0	—	.9	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	2.9	—	2.2	—	.3	—	2.9	—	1.4	—	.8	—
306	Fabricated rubber products, nec	3.4	—	2.6	—	.4	—	3.4	—	1.7	—	.7	—
307	Miscellaneous plastics products	5.1	—	4.2	—	.7	—	4.9	—	2.8	—	.9	—
<b>LEATHER AND LEATHER PRODUCTS</b>													
31	Leather and leather products	5.2	6.6	3.6	4.1	1.3	2.0	5.9	6.9	3.2	4.2	1.7	1.7
311	Leather tanning and finishing	4.6	—	2.4	—	2.0	—	5.2	—	2.0	—	2.0	—
314	Footwear, except rubber	4.9	—	3.4	—	1.2	—	5.8	—	3.4	—	1.3	—
3143	Men's footwear, except athletic	4.5	—	3.6	—	.4	—	5.4	—	3.7	—	.6	—
3144	Women's footwear, except athletic	4.5	—	2.9	—	1.2	—	6.0	—	3.1	—	1.8	—
<b>NONMANUFACTURING:</b>													
—	<b>MINING</b>	4.2	5.0	3.1	3.6	.7	1.0	4.0	3.9	2.4	2.3	.8	.6
<b>METAL MINING</b>													
10	Metal mining	3.0	2.4	2.1	2.0	.6	.1	2.5	2.3	1.2	1.2	.5	.4
101	Iron ores	3.4	—	.8	—	2.3	—	1.3	—	.3	—	( <sup>1</sup> )	—
102	Copper ores	1.6	—	1.3	—	( <sup>1</sup> )	—	1.9	—	.6	—	.8	—
<b>BITUMINOUS COAL AND LIGNITE MINING</b>													
12	Bituminous coal and lignite mining	1.4	1.6	1.9	1.0	.4	.3	2.2	1.9	.5	.6	1.1	.9
<b>OIL AND GAS EXTRACTION</b>													
13	Oil and gas extraction	6.4	7.1	4.8	5.5	.9	1.1	5.5	5.8	3.9	3.7	.6	.6
131,2	Crude petroleum, natural gas, and natural gas liquids	2.0	—	1.3	—	.5	—	1.4	—	.7	—	.2	—
138	Oil and gas field services	9.6	—	7.4	—	1.2	—	8.5	—	6.2	—	1.0	—
<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>													
14	Nonmetallic minerals, except fuels	3.2	6.4	2.0	3.4	1.1	2.8	3.0	2.6	1.6	1.8	.8	.2
142	Crushed and broken stone	3.7	—	1.8	—	1.7	—	3.5	—	1.8	—	1.0	—
144	Sand and gravel	4.1	—	2.5	—	1.6	—	3.4	—	1.7	—	1.4	—
<b>COMMUNICATION:</b>													
481	Telephone communication	1.3	—	1.2	—	—	—	.9	—	.4	—	.1	—

<sup>1</sup> Less than 0.05.

<sup>p</sup> preliminary.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED LABOR TURNOVER**

**D-3. Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted**

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974	4.7	4.6	4.5	4.7	4.5	4.3	4.2	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.8	3.6	3.8	4.0	4.0	3.8	3.9	3.9	3.9
1976	4.2	4.2	4.2	4.1	3.9	3.8	3.8	3.7	3.7	3.8	3.8	4.0
1977	4.0	4.4	4.1	3.9	3.9	3.9	3.9	3.7	3.9	4.0	4.1	4.4
1978	4.2	4.0	3.9 <sup>P</sup>	4.2	4.0	3.9	3.8	3.8	4.1	4.4	4.5	4.5
1979	4.4	4.3	4.1 <sup>P</sup>									
<b>New hires</b>												
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.7	3.5	3.7	3.6	3.5	3.5
1970	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974	3.8	3.7	3.6	3.5	3.5	3.3	3.2	3.1	3.0	2.7	2.3	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.3	2.4	2.5	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.5	2.5	2.6
1977	2.7	2.8	2.9	2.8	3.0	2.8	2.7	2.7	2.7	2.8	2.9	3.3
1978	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.8	3.1	3.4	3.5	3.5
1979	3.4	3.4	3.2 <sup>P</sup>									
<b>Total separations</b>												
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974	5.1	5.0	4.9	4.7	4.5	4.5	4.6	4.7	4.5	4.8	5.1	4.9
1975	5.2	5.0	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976	3.6	3.6	3.9	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.7	3.7
1977	4.0	4.1	3.7	3.7	3.8	3.8	3.9	3.9	3.8	3.7	3.9	3.9
1978	3.8	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.7	3.9	3.9	4.1
1979	4.0	4.0	4.1 <sup>P</sup>									
<b>Quits</b>												
1969	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
1970	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.5	2.6
1973	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.3	2.3	2.0	1.8	1.7
1975	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976	1.6	1.7	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7
1977	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0
1978	2.0	2.0	2.0 <sup>P</sup>	2.2	2.1	2.1	2.0	1.9	2.0	2.3	2.2	2.2
1979	2.3	2.3	2.3 <sup>P</sup>									
<b>Layoffs</b>												
1969	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.4	1.3	1.8	2.4	2.5
1975	2.9	2.9	2.7	2.6	2.5	2.2	1.7	1.7	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.3	1.2
1977	1.3	1.4	1.1	1.1	1.1	1.2	1.2	1.3	1.1	1.1	1.0	1.0
1978	.9	.9	1.0 <sup>P</sup>	.9	1.0	1.0	.9	.9	.8	.9	.8	.9
1979	.8	.8	.9 <sup>P</sup>									

p-preliminary.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

**D-4. Labor turnover rates in manufacturing for selected States and areas**

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>
<b>ALABAMA:</b>												
Birmingham .....	2.2	2.9	1.4	1.6	0.6	0.6	2.9	2.8	1.0	1.1	0.7	0.9
Mobile .....	8.5	8.2	1.6	1.5	6.8	6.7	5.5	4.5	1.2	1.0	3.1	2.5
<b>ALASKA</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>ARIZONA</b> .....	5.0	4.5	4.2	3.9	.5	.4	4.6	4.0	2.5	2.4	.8	.6
Phoenix .....	5.0	4.7	4.4	4.1	.3	.4	4.3	4.0	2.5	2.5	.3	.4
<b>ARKANSAS</b> .....	5.8	4.6	4.2	3.6	1.3	.7	5.6	4.4	3.3	2.9	1.1	.6
Fort Smith .....	5.3	5.2	4.0	3.9	1.0	.9	4.5	4.0	3.0	2.8	.5	.4
Little Rock-North Little Rock .....	6.6	3.4	4.0	3.0	2.4	.4	4.2	3.5	2.5	2.3	.5	.4
Pine Bluff .....	3.0	2.9	2.4	1.9	.3	.7	3.0	2.5	2.0	1.8	.3	.3
<b>COLORADO</b> .....	4.4	4.2	4.0	3.7	.4	.4	4.1	4.3	2.4	2.7	.8	.6
Denver-Boulder .....	4.2	4.2	3.9	3.8	.2	.2	3.9	4.2	2.4	2.6	.6	.5
<b>CONNECTICUT</b> .....	3.1	2.6	2.3	2.0	.6	.4	2.7	2.3	1.4	1.2	.6	.4
Hartford .....	3.4	(*)	2.6	(*)	.4	(*)	2.3	(*)	1.3	(*)	.5	(*)
<b>DELAWARE</b> .....	1.9	1.6	1.0	.7	.4	.5	2.1	1.6	.7	.6	.8	.6
Wilmington .....	1.5	1.4	.5	.6	.4	.4	1.7	1.4	.4	.4	.7	.5
<b>FLORIDA</b> .....	6.1	5.2	5.1	4.3	.8	.7	5.3	4.9	3.3	3.0	.9	.9
Fort Lauderdale-Hollywood .....	7.2	5.7	6.5	5.3	.6	.3	5.2	5.1	3.8	3.3	.4	.5
Jacksonville .....	5.3	3.9	3.1	2.7	1.4	1.1	4.6	4.9	2.1	1.8	1.5	2.3
Miami .....	6.1	5.9	5.6	5.5	.5	.4	5.3	4.4	3.4	3.0	.7	.5
Orlando .....	5.2	7.8	4.9	7.1	.2	.6	3.7	5.1	2.7	3.6	.2	.2
Pensacola .....	2.3	1.0	2.3	1.0	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.6	.9	.6	.1	.6
Tampa-St. Petersburg .....	7.2	5.7	5.5	4.5	1.6	1.1	6.4	5.0	3.8	3.2	1.5	1.1
West Palm Beach-Boca Raton .....	5.0	6.6	4.7	6.0	.2	.5	4.6	7.3	2.7	5.6	.3	( <sup>1</sup> )
<b>GEORGIA</b> .....	4.1	3.2	3.3	2.7	.5	.3	3.8	3.4	2.3	2.0	.7	.6
Atlanta <sup>2</sup> .....	3.3	2.6	2.6	2.2	.4	.2	3.0	2.8	1.5	1.4	.7	.6
<b>HAWAII</b> <sup>3</sup> .....	2.1	2.7	1.7	1.5	.2	.9	2.4	2.9	.9	1.0	.7	1.5
<b>IDAHO</b> <sup>4</sup> .....	4.8	(*)	3.0	(*)	1.7	(*)	5.8	(*)	2.3	(*)	2.4	(*)
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.0	3.4	2.5	2.9	.3	.2	3.2	3.1	1.6	1.6	.5	.5
<b>INDIANA</b> .....	3.0	2.7	1.9	1.8	.7	.5	3.2	2.8	1.2	1.1	1.2	.8
Indianapolis <sup>5</sup> .....	3.3	2.8	1.9	2.0	.9	.4	2.8	2.3	1.1	1.0	.8	.5
<b>IOWA</b> .....	3.5	3.1	2.1	2.1	.9	.7	2.7	2.9	1.2	1.1	.7	.7
Cedar Rapids .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Des Moines .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>KANSAS</b> .....	5.7	4.9	4.8	4.1	.6	.6	4.4	4.2	2.7	2.4	.5	.6
Topeka .....	6.1	4.4	4.4	3.6	1.0	.8	2.5	2.3	1.5	1.2	.3	.3
Wichita .....	7.4	5.6	6.2	4.8	.8	.5	4.5	4.3	2.8	2.6	.4	.5
<b>KENTUCKY</b> .....	3.0	2.7	1.8	1.6	.8	.7	2.7	2.8	1.2	1.0	.7	1.0
Louisville .....	2.0	2.6	.8	1.3	.7	.5	2.1	2.4	.7	.6	.5	.6
<b>LOUISIANA</b>												
New Orleans .....	5.2	4.2	4.5	3.7	.4	.2	5.3	4.2	3.0	2.4	1.0	.8
<b>MAINE</b> .....	5.2	3.8	3.8	3.0	1.1	.6	5.1	4.2	2.8	2.2	1.3	1.2
Portland .....	4.4	2.6	3.3	2.3	.3	.1	4.3	3.0	2.5	1.6	.6	.5
<b>MARYLAND</b> .....	2.5	2.3	1.4	1.5	.9	.7	2.8	2.4	.9	.8	1.1	1.0
Baltimore .....	2.3	2.2	1.3	1.3	.9	.8	2.7	2.2	.7	.7	1.2	.9
<b>MASSACHUSETTS</b> .....	3.9	(*)	2.8	(*)	.7	(*)	3.5	(*)	1.9	(*)	.8	(*)
Boston .....	3.3	(*)	2.4	(*)	.6	(*)	3.3	(*)	1.5	(*)	.9	(*)
<b>MICHIGAN</b> .....	2.1	2.4	1.4	1.7	.5	.4	1.9	2.2	.7	.8	.7	.7
Detroit .....	1.5	2.2	1.0	1.5	.3	.4	1.6	2.1	.6	.8	.5	.6
Flint .....	1.0	1.8	.8	1.5	( <sup>1</sup> )	( <sup>1</sup> )	.9	1.7	.1	.4	.4	.2
Grand Rapids .....	2.6	3.2	2.1	2.1	.3	.8	2.7	2.4	1.5	1.3	.5	.5
Lansing-East Lansing .....	.4	1.2	.3	.9	.1	.1	.3	.9	.2	.2	( <sup>1</sup> )	.3

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**STATE AND AREA LABOR TURNOVER**

**D-4. Labor turnover rates in manufacturing for selected States and areas—Continued**

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>
MINNESOTA .....	4.4	3.6	3.1	2.7	1.2	0.6	3.6	2.9	1.8	1.7	1.0	0.5
Minneapolis—St. Paul .....	4.0	3.5	2.8	2.7	1.0	.6	3.1	2.5	1.7	1.6	.5	.3
MISSISSIPPI:												
Jackson .....	4.8	4.0	3.1	2.9	1.7	.9	4.3	3.4	2.1	2.5	1.4	.1
MISSOURI .....	3.5	3.0	2.4	2.1	.9	.7	3.3	2.9	1.6	1.5	.9	.8
Kansas City .....	3.3	2.9	2.6	2.4	.5	.4	3.1	2.8	1.5	1.5	.5	.6
St. Louis .....	2.7	2.3	1.7	1.5	.8	.6	2.7	2.3	1.0	.9	.9	.7
MONTANA .....	2.2	2.2	2.0	1.6	.1	.5	2.6	1.8	1.5	1.0	.2	.5
NEBRASKA .....	4.5	3.8	3.8	3.4	.6	.4	3.8	3.5	2.4	2.2	.6	.6
NEVADA .....	11.2	7.5	9.2	6.5	.9	.3	8.5	7.1	5.7	5.0	.4	( <sup>1</sup> )
NEW HAMPSHIRE .....	5.3	(*)	4.4	(*)	.7	(*)	4.5	(*)	2.8	(*)	.6	(*)
NEW JERSEY:												
Camden .....	3.4	3.9	1.6	1.8	1.1	1.1	3.0	2.5	.9	.8	.7	.9
Hackensack .....	4.5	3.1	3.0	2.5	1.2	.5	3.9	3.5	2.1	1.6	.9	1.2
Jersey City .....	3.7	2.7	1.7	1.7	1.8	1.0	4.1	3.2	.8	.9	2.6	1.6
Newark .....	3.1	2.7	2.2	2.0	.7	.4	3.5	2.6	1.2	1.2	1.3	.6
New Brunswick—Perth Amboy—Sayreville .....	4.4	2.6	2.6	2.0	1.6	.4	3.3	2.6	1.5	1.2	.8	.5
Paterson—Clifton—Passaic .....	3.7	3.8	2.3	2.6	1.2	1.0	3.4	3.6	1.5	1.4	.9	1.0
Trenton .....	2.5	2.0	1.9	1.5	.4	.3	2.8	2.3	.9	1.0	1.0	.6
NEW YORK .....	3.6	3.6	2.2	2.0	1.2	1.5	4.2	3.0	1.2	1.0	2.1	1.2
Albany—Schenectady—Troy .....	2.4	1.8	1.1	1.0	.6	.3	3.6	2.6	.7	.6	.8	1.0
Binghamton .....	2.1	2.1	1.8	1.6	.3	.3	3.8	2.4	1.3	1.2	1.1	.3
Buffalo .....	2.4	2.5	1.3	1.5	.8	.7	2.8	2.1	.6	.6	1.4	.8
Elmira .....	2.9	2.4	2.2	1.8	.3	.3	9.6	2.0	1.2	.6	.7	.3
Monroe County .....	1.8	1.8	1.5	1.4	.1	.2	1.8	1.7	.9	.7	.3	.2
Nassau—Suffolk .....	4.8	3.8	4.2	3.2	.4	.5	6.0	4.0	2.4	1.9	2.3	1.2
New York and Nassau—Suffolk .....	4.6	4.9	2.9	2.5	1.5	2.2	5.8	3.6	1.5	1.2	3.2	1.6
New York SMSA .....	4.5	5.1	2.6	2.3	1.8	2.7	5.7	3.5	1.2	1.0	3.5	1.7
New York City .....	4.8	5.0	2.6	2.4	2.1	2.4	6.2	3.6	1.2	1.0	3.9	1.7
Rochester .....	2.1	2.1	1.6	1.5	.3	.5	2.3	2.5	1.0	.8	.6	.8
Syracuse .....	2.3	1.8	1.8	1.4	.3	.3	3.0	2.7	1.1	.8	1.1	1.3
Utica—Rome .....	2.6	2.4	1.5	1.6	.9	.6	2.5	2.2	1.0	.8	.8	.7
Westchester County .....	2.7	7.1	2.1	1.8	.5	5.0	2.8	2.7	1.1	1.1	.8	.9
NORTH CAROLINA .....	4.4	3.5	3.6	2.9	.4	.3	4.2	3.6	2.7	2.4	.6	.5
Charlotte—Gastonia .....	5.5	4.6	4.4	4.0	.8	.3	4.5	4.5	3.3	3.4	.2	.1
Greensboro—Winston-Salem—High Point .....	4.6	3.1	3.9	2.7	.2	.2	4.1	3.1	2.8	2.0	.3	.4
NORTH DAKOTA .....	7.0	5.2	3.6	4.0	3.1	.6	5.1	4.3	2.6	1.5	1.6	1.3
Fargo—Moorhead .....	3.6	4.1	3.1	3.5	.2	.4	6.2	4.3	1.7	.9	4.0	2.1
OHIO .....	2.7	2.5	1.5	1.5	(*)	(*)	2.9	2.3	.9	.8	1.1	.7
Akron .....	1.8	1.5	1.3	.9	(*)	(*)	1.9	1.4	.6	.5	.7	.5
Canton .....	2.8	2.5	1.5	1.5	(*)	(*)	2.6	2.1	.8	.6	.5	.3
Cincinnati .....	2.6	2.6	1.6	1.6	(*)	(*)	2.6	2.2	1.0	1.0	.9	.6
Cleveland .....	2.8	2.6	2.1	2.0	(*)	(*)	3.0	2.9	1.3	1.1	.6	.7
Columbus .....	1.9	2.1	1.0	1.5	(*)	(*)	2.5	2.3	.8	.9	.8	.7
Dayton .....	2.1	1.9	1.7	1.3	(*)	(*)	2.5	1.6	.7	.6	.7	.3
Toledo .....	2.4	2.3	1.5	1.2	(*)	(*)	2.8	2.5	.7	.6	.9	.6
Youngstown—Warren .....	2.7	3.0	.6	.8	(*)	(*)	2.8	2.2	.4	.4	1.3	.7
OKLAHOMA .....	6.0	5.8	5.4	5.2	.5	.4	5.2	5.1	3.6	3.7	.6	.4
Oklahoma City .....	5.9	5.3	5.3	4.8	.5	.5	5.3	5.2	3.6	3.7	.5	.5
Tulsa .....	6.7	6.5	6.0	6.1	.2	.2	5.5	5.2	3.4	3.4	.8	.4
OREGON .....	4.3	3.7	3.1	2.7	1.1	.9	4.3	3.9	2.0	1.7	1.4	1.3
Portland .....	5.1	4.7	3.5	3.8	1.4	.9	4.5	4.2	2.2	2.2	1.4	1.0
PENNSYLVANIA .....	3.3	2.6	1.9	1.6	1.2	.9	3.1	2.5	1.0	.9	1.4	.9
Allentown—Bethlehem—Easton .....	2.7	2.3	1.4	1.4	1.0	.7	2.5	2.0	.8	.9	.9	.4
Altoona .....	2.3	1.1	.9	.5	1.2	.5	2.0	2.0	.6	.6	.8	1.2
Erie .....	3.2	2.8	1.7	1.5	1.2	.9	3.3	2.6	1.0	1.1	1.4	.7
Harrisburg .....	2.8	2.7	2.0	2.0	.6	.4	2.6	2.4	1.3	1.3	.2	.4
Johnstown .....	3.2	2.6	1.1	.9	2.1	1.7	5.2	2.6	.6	1.0	3.5	1.0
Lancaster .....	3.8	2.7	2.9	2.1	.7	.5	3.0	2.6	1.6	1.5	.9	.6

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

## D-4. Labor turnover rates in manufacturing for selected States and areas—Continued

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>	Jan. 1979	Feb. 1979 <sup>p</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	6.4	3.6	2.5	1.9	3.6	1.5	3.9	3.3	1.3	1.1	2.1	1.6
Philadelphia SMSA .....	2.7	2.6	1.8	1.7	.7	.8	2.9	2.4	1.0	1.0	1.1	.7
Pittsburgh .....	3.0	2.4	1.3	1.2	1.2	.9	2.5	2.1	.5	.5	1.1	.8
Reading .....	3.7	2.7	2.8	1.9	.8	.7	3.3	2.9	1.5	1.2	1.1	1.0
Scranton .....	5.2	3.7	2.3	2.3	2.7	1.3	3.9	3.5	1.3	1.3	2.2	1.5
Wilkes-Barre—Hazleton <sup>12</sup> .....	6.2	3.1	1.9	1.4	4.0	1.2	3.3	2.9	.8	.9	1.9	1.4
Williamsport .....	3.3	2.5	1.8	1.6	1.4	.8	2.6	2.4	.9	.7	1.4	1.3
York .....	3.6	3.2	2.9	2.5	.6	.6	4.0	2.9	2.0	1.8	1.3	.5
<b>RHODE ISLAND</b>												
Providence—Warwick—Pawtucket .....	5.9	4.0	3.7	3.0	1.9	.7	5.5	4.2	2.6	2.2	1.6	1.1
.....	5.4	3.8	3.6	2.9	1.6	.7	5.2	4.3	2.6	2.4	1.4	1.0
<b>SOUTH CAROLINA</b>												
Charleston—North Charleston .....	3.7	3.1	3.1	2.6	.3	.3	3.6	3.3	2.2	2.0	.5	.5
Columbia .....	5.2	3.4	4.5	3.1	.6	.3	4.5	3.1	1.7	1.8	1.6	.2
Greenville—Spartanburg .....	4.5	3.3	4.3	3.1	.1	.1	3.4	2.8	2.4	2.1	.2	( <sup>1</sup> )
.....	4.0	3.3	3.4	2.8	.2	.2	4.2	3.6	2.6	2.2	.4	.5
<b>SOUTH DAKOTA</b>												
Sioux Falls .....	3.7	4.5	3.3	3.9	.3	.4	3.5	5.9	1.9	2.7	.8	1.8
.....	2.7	2.6	2.3	2.0	.4	.6	2.5	3.5	1.5	1.5	.7	1.5
<b>TENNESSEE:</b>												
Memphis .....	3.7	2.6	2.6	1.7	1.0	.7	2.9	2.6	1.3	1.1	.9	.6
<b>TEXAS:</b>												
Dallas—Fort Worth .....	5.9	5.2	5.4	4.7	.4	.3	4.9	4.5	3.6	3.3	.2	.2
Houston .....	4.8	4.0	4.5	3.8	.2	.1	4.2	3.6	2.9	2.6	.1	.1
San Antonio .....	4.7	4.7	3.9	4.2	.4	.4	4.1	5.1	2.9	3.4	.4	.8
<b>UTAH<sup>4</sup></b>												
Salt Lake City—Ogden <sup>4</sup> .....	6.2	4.9	4.9	4.1	.8	.6	5.7	4.8	3.4	3.1	1.4	.8
.....	5.6	4.6	5.1	3.9	.4	.5	4.9	4.7	3.3	3.1	.5	.7
<b>VERMONT</b>												
Burlington .....	4.6	3.0	2.5	2.3	2.0	.5	3.2	3.0	1.5	1.4	1.0	.8
Springfield .....	2.2	1.7	2.0	1.4	.1	( <sup>1</sup> )	1.6	1.6	.7	.6	.5	.6
.....	3.7	3.4	2.9	2.3	.7	1.1	2.5	3.5	1.4	1.2	.6	1.4
<b>VIRGINIA</b>												
Richmond .....	3.1	3.0	2.2	2.3	.7	.5	3.6	3.0	1.5	1.6	1.1	.5
.....	1.9	2.2	1.1	1.8	.7	.1	2.3	1.8	.5	.8	.8	.1
<b>WASHINGTON:</b>												
Seattle—Everett <sup>13</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>WISCONSIN</b>												
Milwaukee .....	3.8	2.7	2.1	1.8	1.1	.5	3.9	2.6	1.1	1.0	1.6	.7
.....	4.9	2.9	2.1	2.0	1.8	.5	4.9	2.7	1.1	1.0	2.1	.5
<b>WYOMING</b>												
.....	6.0	5.9	5.1	5.3	.8	.5	6.0	17.6	3.7	5.1	.8	10.5

<sup>1</sup> Less than 0.05.

<sup>2</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>3</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>4</sup> Excludes canning and preserving, and sugar.

<sup>5</sup> Excludes canning and preserving, and newspapers.

<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>7</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>8</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>9</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>10</sup> Excludes new-hire rate for transportation equipment.

<sup>11</sup> Excludes canning and preserving.

<sup>12</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>13</sup> Excludes canning and preserving, printing and publishing.

<sup>p</sup> preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>ALABAMA</b>	1,554.3	1,595.0	1,590.6	106.4	122.9	114.3	6.8	7.7	7.2
Birmingham	360.8	372.1	371.2	20.6	24.9	23.8	5.7	6.7	6.4
Huntsville	130.5	133.1	133.9	9.3	9.8	10.3	7.1	7.4	7.7
Mobile	174.1	178.4	179.2	13.2	13.9	13.4	7.6	7.8	7.5
Montgomery	109.8	116.0	116.1	5.7	7.3	6.4	5.2	6.3	5.6
Tuscaloosa	52.4	51.3	51.1	5.0	3.8	3.3	9.5	7.5	6.5
<b>ALASKA</b>	174.5	174.8	179.7	22.3	20.9	19.9	12.8	12.0	11.1
<b>ARIZONA</b>	986.2	1,044.2	1,049.0	64.8	66.0	60.4	6.6	6.3	5.8
Phoenix	593.1	631.2	634.8	33.5	33.4	30.7	5.6	5.3	4.8
Tucson	179.0	188.1	189.8	11.0	9.8	9.0	6.1	5.2	4.8
<b>ARKANSAS</b>	916.4	917.7	945.8	59.5	68.1	58.6	6.5	7.4	6.2
Fayetteville-Springdale	70.3	71.5	73.2	3.4	4.1	3.6	4.8	5.7	4.9
Fort Smith <sup>1</sup>	81.2	84.6	85.4	5.1	8.6	7.0	6.2	10.1	8.2
Little Rock-North Little Rock	172.7	175.4	179.0	7.5	8.0	6.9	4.3	4.6	3.9
Pine Bluff	36.8	36.0	37.4	2.7	2.6	2.5	7.4	7.4	6.6
<b>CALIFORNIA<sup>2</sup></b>	10,570.2	10,825.6	10,768.4	846.9	761.8	720.7	8.0	7.0	6.7
Anaheim-Santa Ana-Garden Grove	992.6	1,038.0	1,039.8	52.1	43.2	43.2	5.3	4.2	4.2
Bakersfield	171.1	170.5	171.4	18.9	17.0	18.4	11.1	10.0	10.7
Fresno	244.4	250.1	246.4	28.3	25.0	25.0	11.6	10.0	10.1
Los Angeles-Long Beach <sup>2</sup>	3,398.0	3,552.0	3,515.0	258.0	221.0	199.0	7.6	6.2	5.7
Modesto	130.1	131.5	129.7	20.8	20.0	18.9	16.0	15.2	14.6
Oxnard-Simi Valley-Ventura	214.6	209.8	212.8	18.6	16.7	16.4	8.6	8.0	7.7
Riverside-San Bernardino-Ontario	555.6	564.1	562.6	39.0	36.6	35.2	7.0	6.5	6.3
Sacramento	445.3	450.8	449.9	39.3	37.3	36.7	8.8	8.3	8.1
Salinas-Seaside-Monterey	126.7	121.7	125.0	13.5	15.2	12.2	10.7	12.5	9.7
San Diego	686.8	707.1	706.2	49.4	43.4	43.2	7.2	6.1	6.1
San Francisco-Oakland	1,577.9	1,589.5	1,580.5	102.5	90.5	87.5	6.5	5.7	5.5
San Jose	659.4	672.4	670.4	45.0	39.4	37.0	6.8	5.9	5.5
Santa Barbara-Santa Maria-Lompoc	141.3	141.3	140.6	10.0	10.7	9.5	7.1	7.6	6.7
Santa Rosa	119.8	121.4	120.3	10.5	9.6	9.5	8.8	7.9	7.9
Stockton	157.2	154.9	155.4	22.2	20.4	20.0	14.1	13.2	12.8
Vallejo-Fairfield-Napa	120.3	121.7	120.3	9.0	8.5	8.0	7.5	7.0	6.6
<b>COLORADO</b>	1,267.8	1,296.0	1,306.9	77.9	68.9	67.5	6.1	5.3	5.2
Denver-Boulder	749.7	765.6	771.9	40.7	35.4	35.6	5.4	4.6	4.6
<b>CONNECTICUT</b>	1,467.6	1,536.2	1,560.0	90.7	94.0	86.9	6.2	6.1	5.6
Bridgeport	180.2	186.3	188.9	11.4	12.2	11.4	6.3	6.5	6.0
Hartford	350.8	369.3	376.4	18.9	21.4	19.6	5.4	5.8	5.2
New Britain	70.1	73.4	74.2	4.6	4.4	4.2	6.5	6.0	5.7
New Haven-West Haven	186.4	196.7	201.7	11.0	11.4	10.9	5.9	5.8	5.4
Stamford	111.8	118.6	119.0	5.0	5.3	4.6	4.5	4.5	3.9
Waterbury	104.8	107.1	108.8	8.3	7.4	7.2	7.9	6.9	6.6
<b>DELAWARE</b>	269.0	265.4	268.5	22.3	21.5	21.7	8.3	8.1	8.1
Wilmington <sup>1</sup>	235.2	236.5	237.8	18.0	17.8	17.5	7.6	7.5	7.4
<b>DISTRICT OF COLUMBIA</b>	329.8	329.0	328.6	30.0	25.4	25.6	9.1	7.7	7.8
Washington SMSA <sup>1</sup>	1,528.0	N.A.	N.A.	77.9	N.A.	N.A.	5.1	N.A.	N.A.
<b>FLORIDA<sup>2</sup></b>	3,589.4	3,780.9	3,850.1	225.4	220.9	223.1	6.3	5.8	5.8
Fort Lauderdale-Hollywood	375.3	391.4	399.0	25.0	22.0	21.8	6.7	5.6	5.5
Jacksonville	287.5	300.7	306.6	17.0	17.6	18.3	5.9	5.9	6.0
Miami	665.2	696.4	709.2	45.4	40.7	40.3	6.8	5.8	5.7
Orlando	281.1	300.1	306.9	16.2	16.3	16.6	5.8	5.4	5.4
Pensacola	102.7	108.6	111.6	5.2	6.0	6.6	5.0	5.5	5.9
Tampa-St. Petersburg	546.9	572.7	583.2	32.8	31.1	31.8	6.0	5.4	5.5
West Palm Beach-Boca Raton	208.5	224.3	227.5	12.6	12.6	12.5	6.1	5.6	5.5
<b>GEORGIA</b>	2,290.8	2,329.3	2,330.6	124.0	137.1	123.4	5.4	5.9	5.3
Albany	45.9	50.2	50.2	3.0	2.9	2.7	6.5	5.8	5.4
Atlanta	901.8	916.9	914.0	44.6	52.4	45.0	4.9	5.7	4.9
Augusta	119.2	N.A.	N.A.	7.2	N.A.	N.A.	6.1	N.A.	N.A.
Columbus <sup>1</sup>	83.7	86.9	87.0	5.1	6.5	6.3	6.1	7.5	7.2
Macon	101.6	100.9	100.3	7.1	6.7	6.3	7.0	6.7	6.3
Savannah	88.7	91.1	90.3	5.1	5.7	5.2	5.7	6.2	5.7

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>HAWAII</b> .....	399.1	403.7	398.4	31.5	29.0	25.4	7.9	7.2	6.4
Honolulu .....	315.5	318.0	314.4	24.2	22.0	19.6	7.7	6.9	6.2
<b>IDAHO</b> .....	386.9	399.9	406.2	24.8	33.2	29.3	6.4	8.3	7.2
Boise City .....	81.6	87.9	89.2	2.6	5.4	4.4	3.2	6.1	4.9
<b>ILLINOIS<sup>2</sup></b> .....	5,222.9	5,224.4	5,249.1	349.5	295.9	315.2	6.7	5.7	6.0
Bloomington—Normal .....	58.9	58.8	58.6	3.2	2.7	3.0	5.5	4.6	5.2
Champaign—Urbana—Rantoul .....	76.9	79.3	79.7	4.4	3.7	3.8	5.7	4.7	4.7
Chicago .....	3,324.2	3,348.5	3,354.5	208.3	170.6	184.4	6.3	5.1	5.5
Davenport—Rock Island—Moline <sup>1</sup> .....	177.9	178.4	179.4	9.8	8.1	7.9	5.5	4.5	4.4
Decatur .....	58.9	58.6	58.8	4.7	4.0	4.1	8.0	6.8	7.0
Peoria .....	170.7	172.1	173.5	9.9	9.5	10.2	5.8	5.5	5.9
Rockford .....	133.4	134.5	135.1	7.6	6.7	7.4	5.7	5.0	5.5
Springfield .....	95.5	93.3	93.9	6.6	6.2	6.5	7.0	6.7	6.9
<b>INDIANA</b> .....	2,521.2	2,592.8	2,606.3	156.8	167.6	152.1	6.2	6.5	5.8
Anderson .....	59.8	60.9	60.8	3.9	4.7	4.0	6.5	7.8	6.5
Evansville <sup>1</sup> .....	138.5	139.0	139.3	6.9	8.0	6.9	4.9	5.7	5.0
Fort Wayne .....	182.6	188.3	189.6	9.0	9.3	8.8	4.9	4.9	4.6
Gary—Hammond—East Chicago .....	282.0	289.3	290.8	18.5	16.5	16.0	6.6	5.7	5.5
Indianapolis .....	568.9	579.5	582.8	31.7	31.1	29.1	5.6	5.4	5.0
Lafayette—West Lafayette .....	60.4	64.9	64.7	2.9	3.1	2.9	4.8	4.8	4.6
Muncie .....	56.0	56.9	57.4	4.2	4.1	3.9	7.6	7.2	6.7
South Bend .....	139.4	143.0	144.8	7.3	7.9	8.3	5.3	5.5	5.7
Terre Haute .....	81.1	82.5	82.0	6.6	5.6	5.4	8.1	6.8	6.6
<b>IOWA</b> .....	1,387.5	1,378.1	1,397.8	66.8	67.5	60.9	4.8	4.9	4.4
Cedar Rapids .....	83.7	86.0	86.4	3.3	3.7	3.4	3.9	4.3	3.9
Des Moines .....	180.5	179.5	180.0	7.9	8.0	7.3	4.4	4.5	4.1
Dubuque .....	44.9	44.5	44.5	2.7	2.8	2.7	5.9	6.3	6.0
Sioux City <sup>1</sup> .....	57.6	55.5	55.6	3.6	4.3	3.9	6.3	7.8	7.1
Waterloo—Cedar Falls .....	67.2	68.1	68.7	3.4	3.7	3.5	5.1	5.4	5.1
<b>KANSAS</b> .....	1,136.1	1,165.6	1,184.0	38.1	37.4	34.0	3.4	3.2	2.9
Topeka .....	94.1	96.7	97.6	3.7	4.0	3.6	3.9	4.1	3.7
Wichita .....	209.4	223.6	226.1	7.1	6.7	6.5	3.4	3.0	2.9
<b>KENTUCKY</b> .....	1,501.3	1,501.8	1,506.1	90.1	100.1	82.2	6.0	6.7	5.5
Lexington—Fayette .....	153.2	153.5	155.6	6.3	5.5	4.6	4.1	3.6	3.0
Louisville <sup>1</sup> .....	397.7	404.4	404.2	20.6	23.3	20.1	5.2	5.8	5.0
Owensboro .....	36.5	37.4	37.4	2.0	2.5	1.9	5.4	6.7	5.1
<b>LOUISIANA</b> .....	1,606.1	1,621.2	1,631.6	113.1	98.9	90.9	7.0	6.1	5.6
Alexandria .....	67.1	67.1	67.5	6.1	5.1	4.7	9.1	7.6	7.0
Baton Rouge .....	201.3	202.8	202.6	12.5	11.9	10.6	6.2	5.8	5.2
Lafayette .....	63.2	65.5	66.3	3.6	2.7	2.4	5.7	4.2	3.7
Lake Charles .....	66.2	65.1	65.3	5.1	4.2	3.7	7.7	6.4	5.6
Monroe .....	52.0	52.9	53.1	3.5	3.5	3.4	6.8	6.7	6.4
New Orleans .....	464.2	460.9	463.8	30.9	24.8	22.9	6.7	5.4	4.9
Shreveport .....	146.9	148.1	148.9	9.6	7.8	7.7	6.5	5.3	5.2
<b>MAINE</b> .....	451.4	472.1	476.2	32.0	36.9	35.7	7.1	7.8	7.5
Lewiston—Auburn .....	35.9	37.5	37.8	2.1	2.6	2.5	5.9	7.0	6.7
Portland .....	80.2	85.5	85.8	4.3	5.0	4.7	5.4	5.9	5.4
<b>MARYLAND</b> .....	1,993.2	2,041.0	2,065.5	128.0	146.3	134.6	6.4	7.2	6.5
Baltimore .....	1,014.1	1,036.7	1,046.3	71.5	78.4	71.6	7.0	7.6	6.8
<b>MASSACHUSETTS<sup>2</sup></b> .....	2,794.6	2,917.7	2,913.8	172.1	193.1	194.1	6.2	6.6	6.7
Boston .....	1,354.5	1,411.2	1,408.3	78.9	86.7	86.4	5.8	6.1	6.1
Brockton .....	79.3	85.5	85.4	5.1	5.9	5.7	6.5	6.9	6.7
Fall River <sup>1</sup> .....	78.2	82.2	82.9	5.3	6.8	7.1	6.8	8.3	8.6
Lawrence—Haverhill <sup>1</sup> .....	137.8	141.5	143.9	8.9	9.9	10.7	6.5	7.0	7.4
Lowell .....	111.0	115.8	116.2	7.1	7.0	7.4	6.4	6.0	6.4
New Bedford .....	80.3	85.5	85.6	7.2	8.6	8.2	8.9	10.1	9.5
Springfield—Chicopee—Holyoke .....	272.0	284.9	281.3	14.6	15.7	17.2	5.4	5.5	6.1
Worcester .....	193.6	202.9	202.0	9.8	10.9	10.5	5.1	5.3	5.2
<b>MICHIGAN<sup>2</sup></b> .....	4,136.8	4,288.4	4,289.9	296.8	351.6	341.2	7.2	8.2	8.0
Ann Arbor .....	134.7	142.3	143.0	7.6	7.9	7.9	5.6	5.6	5.5

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>MICHIGAN—Continued</b>									
Battle Creek	79.9	83.4	83.3	4.8	6.0	5.8	6.0	7.2	6.9
Bay City	53.0	55.0	55.2	3.9	4.3	4.2	7.3	7.7	7.6
Detroit	1,979.2	2,033.7	2,038.1	131.3	159.0	157.2	6.6	7.8	7.7
Flint	219.9	231.9	232.0	16.1	19.0	17.4	7.3	8.2	7.5
Grand Rapids	283.6	294.5	294.1	14.6	17.9	16.3	5.2	6.1	5.5
Jackson	64.1	68.1	68.3	4.1	4.9	4.9	6.4	7.2	7.2
Kalamazoo—Portage	130.5	135.3	134.3	7.8	9.3	8.2	5.9	6.8	6.1
Lansing—East Lansing	225.4	235.0	233.8	14.7	15.0	14.9	6.5	6.4	6.4
Muskegon—Norton Shores—Muskegon Heights	75.0	78.1	78.1	6.6	8.0	7.4	8.9	10.2	9.5
Saginaw	101.7	108.5	108.2	5.6	7.5	7.3	5.5	6.9	6.7
<b>MINNESOTA</b>									
Duluth—Superior <sup>1</sup>	1,897.2	N.A.	N.A.	78.0	N.A.	N.A.	4.1	N.A.	N.A.
Minneapolis—St. Paul	1,019.6	N.A.	N.A.	7.0	N.A.	N.A.	6.3	N.A.	N.A.
<b>MISSISSIPPI</b>									
Jackson	948.9	971.5	981.1	67.1	66.7	61.0	7.1	6.9	6.2
	135.1	143.1	144.6	6.9	5.6	5.5	5.1	3.9	3.8
<b>MISSOURI</b>									
Kansas City <sup>1</sup>	2,240.8	2,254.1	2,282.0	125.1	117.6	95.6	5.6	5.2	4.2
St. Joseph	583.4	682.4	692.2	29.2	28.2	24.4	4.3	4.1	3.5
St. Louis <sup>1</sup>	45.2	43.9	44.4	2.5	2.4	2.1	5.5	5.4	4.6
Springfield	1,080.6	1,084.0	1,094.3	65.7	59.5	52.3	6.1	5.5	4.8
	101.2	102.2	103.9	4.2	4.3	3.5	4.1	4.2	3.3
<b>MONTANA</b>									
Billings	355.1	358.5	366.1	26.5	22.1	19.9	7.5	6.2	5.4
Great Falls	52.9	52.9	53.4	3.2	2.4	2.1	6.1	4.5	4.0
	34.7	34.6	35.1	2.6	2.4	2.1	7.4	6.9	6.1
<b>NEBRASKA</b>									
Lincoln	754.7	744.7	753.0	31.5	22.7	20.0	4.2	3.0	2.7
Omaha <sup>1</sup>	103.8	111.7	111.9	3.2	2.5	2.3	3.1	2.2	2.0
	277.0	273.2	274.5	14.3	10.6	9.9	5.2	3.9	3.6
<b>NEVADA</b>									
Las Vegas	320.5	331.3	336.7	16.1	17.6	17.7	5.0	5.3	5.3
Reno	173.2	177.9	180.5	9.4	9.6	10.1	5.4	5.4	5.6
	92.2	97.8	99.7	3.5	3.9	3.6	3.8	4.0	3.6
<b>NEW HAMPSHIRE</b>									
Manchester	406.7	420.9	424.8	15.4	13.8	14.1	3.8	3.3	3.3
Nashua	78.0	77.8	78.6	3.0	2.8	2.8	3.9	3.5	3.6
	54.1	55.4	56.2	1.7	1.6	1.6	3.2	3.0	2.8
<b>NEW JERSEY</b>									
Atlantic City	3,263.9	3,545.9	3,500.1	230.2	295.9	250.8	7.1	8.3	7.2
Jersey City	74.8	85.0	84.7	8.7	10.4	9.8	11.6	12.3	11.6
Long Branch—Asbury Park	246.5	257.6	250.8	24.6	31.4	25.6	10.0	12.2	10.2
Newark	209.3	222.9	218.7	14.9	21.1	16.9	7.1	9.5	7.7
New Brunswick—Perth Amboy—Seyreville	916.7	974.5	963.2	59.4	71.6	63.2	6.5	7.3	6.6
Paterson—Clifton—Passaic	298.7	325.0	321.7	17.3	22.0	18.5	5.8	6.8	5.7
Trenton	204.5	223.0	219.9	17.5	22.2	20.4	8.5	9.9	9.3
Vineland—Millville—Bridgeton	152.1	163.7	162.0	7.1	10.8	8.8	4.7	6.6	5.4
	58.0	62.7	60.4	5.2	7.6	5.3	8.9	12.1	8.7
<b>NEW MEXICO</b>									
Albuquerque	507.7	519.7	521.0	30.1	34.9	32.1	5.9	6.7	6.2
	191.8	197.8	198.7	10.8	12.2	11.4	5.6	6.2	5.7
<b>NEW YORK<sup>2</sup></b>									
Albany—Schenectady—Troy	7,741.3	7,951.4	8,010.7	638.6	585.6	617.8	8.2	7.4	7.7
Binghamton <sup>1</sup>	361.8	375.6	377.2	24.1	22.9	23.6	6.7	6.1	6.2
Buffalo	133.9	142.1	143.0	9.8	8.4	8.8	7.3	5.9	6.1
Elmira	554.9	579.6	582.5	49.3	43.7	44.4	8.9	7.5	7.6
Nassau—Suffolk	38.7	40.9	41.0	3.0	2.8	2.7	7.8	6.8	6.7
New York	1,206.7	1,268.3	1,274.8	91.1	81.7	80.4	7.5	6.4	6.3
New York City <sup>2</sup>	3,625.5	3,639.6	3,678.9	309.0	283.1	313.9	8.5	7.8	8.5
Poughkeepsie	3,061.0	3,045.0	3,083.0	273.0	250.0	282.0	8.9	8.2	9.1
Rochester	99.6	106.3	105.7	5.9	5.7	5.1	5.9	5.4	4.9
Syracuse	454.0	469.1	471.1	29.4	26.7	26.7	6.5	5.7	5.7
Utica—Rome	288.0	305.5	304.4	21.3	20.6	20.7	7.4	6.7	6.8
	132.0	138.7	139.1	11.0	9.8	10.1	8.3	7.0	7.3
<b>NORTH CAROLINA</b>									
Asheville	2,634.1	2,673.0	2,683.4	123.5	134.8	129.1	4.7	5.0	4.8
Charlotte—Gastonia	80.7	81.0	81.7	3.8	4.2	4.2	4.7	5.2	5.1
	328.1	332.5	334.4	9.6	10.5	10.6	2.9	3.2	3.2

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
<b>NORTH CAROLINA—Continued</b>									
Greensboro—Winston-Salem—High Point .....	411.4	415.4	417.4	15.2	16.5	15.8	3.7	4.0	3.8
Raleigh—Durham .....	270.0	276.8	277.1	8.3	8.5	8.1	3.1	3.1	2.9
<b>NORTH DAKOTA</b>									
Fargo—Moorehead <sup>1</sup> .....	284.7	282.0	295.2	16.1	16.9	14.8	5.6	6.0	5.0
	68.5	69.6	70.5	2.7	3.4	2.9	4.0	4.9	4.2
<b>OHIO<sup>2</sup></b>									
Akron .....	4,756.5	4,983.5	5,005.6	292.1	325.8	301.6	6.1	6.5	6.0
Canton .....	288.2	298.5	300.5	17.5	20.4	19.7	6.1	6.8	6.6
Cincinnati <sup>1</sup> .....	170.9	179.3	180.0	11.2	12.1	11.2	6.5	6.7	6.2
Cleveland .....	617.4	651.2	653.6	32.9	39.0	34.5	5.3	6.0	5.3
Columbus .....	891.4	928.4	931.9	46.6	49.9	47.2	5.2	5.4	5.1
Dayton .....	508.9	536.7	539.3	26.2	30.6	28.5	5.1	5.7	5.3
Toledo <sup>1</sup> .....	365.9	386.2	388.4	19.3	22.2	21.4	5.3	5.8	5.5
Youngstown—Warren .....	350.2	368.5	370.5	23.6	28.0	27.2	6.7	7.6	7.4
	228.5	234.5	234.6	21.2	17.6	16.2	9.3	7.5	6.9
<b>OKLAHOMA</b>									
Oklahoma City .....	1,239.0	1,262.4	1,270.7	50.1	53.0	45.7	4.0	4.2	3.6
Tulsa .....	370.3	386.1	389.6	13.1	15.6	12.3	3.5	4.0	3.2
	296.3	299.1	300.3	11.5	10.9	10.1	3.9	3.6	3.4
<b>OREGON</b>									
Eugene—Springfield .....	1,162.7	1,195.6	1,195.5	78.0	94.5	88.9	6.7	7.9	7.4
Portland <sup>1</sup> .....	121.0	126.1	126.3	8.4	11.1	10.8	7.0	8.8	8.5
Salem .....	562.0	N.A.	N.A.	31.1	N.A.	N.A.	5.5	N.A.	N.A.
	107.9	111.9	112.2	7.1	8.6	8.1	6.6	7.7	7.2
<b>PENNSYLVANIA<sup>2</sup></b>									
Allentown—Bethlehem—Easton <sup>1</sup> .....	5,224.9	5,239.5	5,276.7	413.6	394.0	411.6	7.9	7.5	7.8
Altoona .....	290.8	296.5	297.8	20.0	19.9	21.1	6.9	6.7	7.1
Erie .....	56.4	57.5	57.6	4.8	5.6	6.0	8.6	9.7	10.4
Harrisburg .....	121.6	125.3	126.1	8.8	9.5	10.6	7.2	7.6	8.4
Johnstown .....	212.1	214.1	214.6	11.7	11.5	12.1	5.5	5.4	5.6
Lancaster .....	108.8	106.5	107.3	14.5	10.5	11.0	13.3	9.8	10.2
Lancaster .....	168.7	172.4	173.5	8.5	8.3	8.6	5.1	4.8	5.0
Northeast Pennsylvania .....	275.5	280.6	284.1	25.9	26.1	27.5	9.4	9.3	9.7
Philadelphia <sup>1</sup> .....	2,062.1	2,095.9	2,109.7	158.4	156.6	163.9	7.7	7.5	7.8
Pittsburgh .....	984.2	992.6	999.9	73.2	67.0	66.6	7.4	6.8	6.7
Reading .....	144.1	150.7	151.8	8.9	8.5	8.9	6.1	5.6	5.9
Williamsport .....	52.6	54.7	54.7	5.0	5.3	5.7	9.5	9.6	10.5
York .....	162.8	168.1	167.9	9.5	10.1	8.8	5.8	6.0	5.2
<b>RHODE ISLAND</b>									
Providence—Warwick—Pawtucket <sup>1</sup> .....	425.4	431.9	436.7	32.3	34.7	32.4	7.6	8.0	7.4
	434.4	438.4	N.A.	32.2	34.5	N.A.	7.4	7.9	N.A.
<b>SOUTH CAROLINA</b>									
Charleston—North Charleston .....	1,278.0	N.A.	N.A.	74.8	N.A.	N.A.	5.9	N.A.	N.A.
Columbia .....	148.3	N.A.	N.A.	9.0	N.A.	N.A.	6.0	N.A.	N.A.
Greenville—Spartanburg .....	168.6	N.A.	N.A.	7.0	N.A.	N.A.	4.2	N.A.	N.A.
	254.2	N.A.	N.A.	12.8	N.A.	N.A.	5.0	N.A.	N.A.
<b>SOUTH DAKOTA</b>									
Sioux Falls .....	311.0	324.5	332.5	10.6	12.5	12.7	3.4	3.9	3.8
	58.0	63.3	63.8	1.7	1.9	2.2	3.0	3.0	3.4
<b>TENNESSEE</b>									
Chattanooga <sup>1</sup> .....	1,909.1	1,920.3	1,923.6	114.5	123.4	100.2	6.0	6.4	5.2
Knoxville .....	184.6	186.2	N.A.	9.5	10.6	N.A.	5.2	5.7	N.A.
Memphis <sup>1</sup> .....	197.9	204.6	N.A.	9.4	9.1	N.A.	4.8	4.4	N.A.
Nashville—Davidson .....	371.1	371.1	N.A.	20.1	19.8	N.A.	5.4	5.3	N.A.
	392.4	396.9	N.A.	17.1	16.6	N.A.	4.4	4.2	N.A.
<b>TEXAS<sup>2</sup></b>									
Amarillo .....	5,941.0	6,154.4	6,119.0	279.7	276.5	230.5	4.7	4.5	3.8
Austin .....	84.2	86.9	86.7	3.4	3.0	2.5	4.0	3.4	2.9
Beaumont—Port Arthur—Orange .....	233.1	247.9	246.2	7.2	7.3	6.1	3.1	3.0	2.5
Corpus Christi .....	166.0	167.1	164.1	10.4	11.4	9.6	6.3	6.8	5.8
Dallas—Fort Worth .....	130.8	132.8	132.0	7.3	6.6	5.5	5.6	5.0	4.2
El Paso .....	1,369.9	1,448.9	1,445.7	54.9	52.8	43.5	4.0	3.6	3.0
Galveston—Texas City .....	164.5	171.5	170.1	15.1	14.5	12.5	9.2	8.5	7.3
Houston .....	80.3	83.6	82.8	5.2	4.6	4.0	6.4	5.6	4.9
Lubbock .....	1,325.7	1,387.2	1,380.4	49.3	48.1	39.6	3.7	3.5	2.9
San Antonio .....	99.3	103.8	103.6	3.6	3.7	3.2	3.6	3.6	3.1
Waco .....	400.5	411.2	406.4	24.4	24.1	20.5	6.1	5.9	5.0
Wichita Falls .....	75.9	78.1	77.0	3.9	3.2	2.6	5.2	4.1	3.4
	59.1	60.0	59.5	2.2	2.1	1.7	3.7	3.5	2.9

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P	MAR. 1978	FEB. 1979	MAR. 1979P
UTAH .....	524.1	550.0	560.9	22.3	24.8	21.4	4.3	4.5	3.8
Salt Lake City—Ogden .....	346.3	364.3	371.0	14.0	15.8	13.6	4.0	4.3	3.7
VERMONT .....	232.0	237.0	239.7	16.1	16.9	15.2	6.9	7.1	6.3
VIRGINIA .....	2,369.2	2,409.9	2,428.9	146.8	154.5	135.7	6.2	6.4	5.6
Lynchburg .....	71.2	N.A.	N.A.	4.0	N.A.	N.A.	5.6	N.A.	N.A.
Newport News—Hampton .....	151.1	N.A.	N.A.	10.1	N.A.	N.A.	6.7	N.A.	N.A.
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	310.1	N.A.	N.A.	21.1	N.A.	N.A.	6.8	N.A.	N.A.
Petersburg—Colonial Heights—Hopewell .....	58.3	N.A.	N.A.	3.7	N.A.	N.A.	6.3	N.A.	N.A.
Richmond .....	306.1	N.A.	N.A.	12.5	N.A.	N.A.	4.1	N.A.	N.A.
Roanoke .....	109.2	N.A.	N.A.	8.4	N.A.	N.A.	7.7	N.A.	N.A.
WASHINGTON .....	1,703.0	N.A.	N.A.	131.5	N.A.	N.A.	7.7	N.A.	N.A.
Seattle—Everett .....	732.2	N.A.	N.A.	46.9	N.A.	N.A.	6.4	N.A.	N.A.
Spokane .....	138.2	N.A.	N.A.	9.5	N.A.	N.A.	6.9	N.A.	N.A.
Tacoma .....	161.7	N.A.	N.A.	13.2	N.A.	N.A.	8.2	N.A.	N.A.
WEST VIRGINIA .....	716.4	735.7	729.4	60.4	65.6	53.0	8.4	8.9	7.3
Charleston .....	115.4	120.0	118.8	6.8	6.8	5.2	5.9	5.7	4.4
Huntington—Ashland <sup>1</sup> .....	116.3	118.0	117.3	8.6	8.4	6.7	7.4	7.1	5.7
Parkersburg—Marietta <sup>1</sup> .....	65.0	69.8	69.0	4.3	5.0	3.9	6.6	7.2	5.7
Wheeling <sup>1</sup> .....	75.3	79.2	78.9	5.9	5.8	4.9	7.8	7.4	6.2
WISCONSIN .....	2,242.0	N.A.	N.A.	132.5	N.A.	N.A.	5.9	N.A.	N.A.
Appleton—Oshkosh .....	138.9	N.A.	N.A.	7.8	N.A.	N.A.	5.6	N.A.	N.A.
Eau Claire .....	51.2	N.A.	N.A.	4.0	N.A.	N.A.	7.8	N.A.	N.A.
Green Bay .....	84.5	N.A.	N.A.	5.3	N.A.	N.A.	6.2	N.A.	N.A.
Kenosha .....	57.6	N.A.	N.A.	5.2	N.A.	N.A.	9.0	N.A.	N.A.
La Crosse .....	43.5	N.A.	N.A.	2.5	N.A.	N.A.	5.7	N.A.	N.A.
Madison .....	170.8	N.A.	N.A.	7.7	N.A.	N.A.	4.5	N.A.	N.A.
Milwaukee .....	692.9	N.A.	N.A.	34.8	N.A.	N.A.	5.0	N.A.	N.A.
Racine .....	86.8	N.A.	N.A.	4.9	N.A.	N.A.	5.6	N.A.	N.A.
WYOMING .....	186.8	198.6	202.2	6.8	6.6	6.2	3.7	3.3	3.1

<sup>1</sup> Includes interstate portion of area located in adjacent State.

<sup>2</sup> Data are obtained directly from the Current Population Survey. (See "Explanatory Notes" for State and Area Unemployment Data in Employment and Earnings, monthly.)

NOTE: Estimates for 1978 have been benchmarked to 1978 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1979 are pro-

visional and will be revised when new benchmark information becomes available. Data refer to place of residence.

p=preliminary.

N.A.=not available.

SOURCE: Current Population Survey and Cooperating State Employment Security Agencies listed on inside back cover.

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering, please specify "CETA Area Employment and Unemployment," "State, County, and Selected City Employment and Unemployment," and "Unemployment Rates for State and Local Governments." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978
1 ALABAMA	1,207.0	1,269.2	1,336.3	13.3	13.9	13.6	68.7	75.9	79.6	340.2	354.3	365.3
2 Birmingham	320.6	334.2	349.0	8.2	8.4	7.3	19.4	22.5	24.0	66.0	66.8	68.6
3 Huntsville	105.1	110.7	117.7	(1)	(1)	(1)	3.8	3.9	4.2	29.0	31.7	34.8
4 Mobile	133.2	139.7	147.0	(1)	(1)	(1)	10.9	11.2	11.8	27.2	29.4	30.7
5 Montgomery	89.8	94.9	102.6	(1)	(1)	(1)	6.0	6.1	6.5	13.7	14.7	15.8
6 Tuscaloosa	47.2	48.8	48.7	.7	.8	1.0	3.0	3.2	2.9	10.3	10.1	9.0
7 ALASKA	171.7	163.3	164.3	4.0	5.0	5.6	30.2	19.6	12.1	10.3	10.9	11.7
8 ARIZONA	758.7	809.3	883.5	24.0	21.5	19.3	41.5	52.2	68.8	105.6	113.9	125.0
9 Phoenix	450.9	490.3	547.3	.4	.4	.2	23.8	31.4	43.2	77.1	83.9	92.1
10 Tucson	147.3	152.2	160.0	7.6	6.9	5.9	9.0	10.1	12.2	12.5	13.3	15.0
11 ARKANSAS	660.0	695.6	725.9	4.6	4.8	4.7	34.5	37.2	36.9	195.1	209.3	216.1
12 Fayetteville-Springdale	52.6	57.2	60.8	(1)	(1)	(1)	2.5	3.0	3.2	16.2	17.9	18.3
13 Fort Smith	59.6	63.7	67.1	.5	.7	.7	2.7	2.9	3.0	21.5	23.3	25.0
14 Little Rock-North Little Rock	158.1	166.4	172.3	(1)	(1)	(1)	8.6	9.5	9.0	28.5	30.6	31.7
15 Pine Bluff	26.8	28.9	30.9	(1)	(1)	(1)	1.1	1.3	2.1	5.7	6.2	6.3
16 CALIFORNIA	8,152.7	8,597.3	9,230.3	34.7	35.6	37.0	317.6	366.1	416.4	1,650.9	1,728.1	1,868.6
17 Anaheim-Santa Ana-Garden Grove	610.3	675.0	749.0	2.0	2.0	2.2	29.9	40.6	46.5	161.3	174.5	196.1
18 Bakersfield	108.2	113.4	120.5	8.6	9.3	10.0	4.5	5.3	6.8	8.7	8.6	9.2
19 Fresno	155.8	163.5	174.2	.8	.7	.8	7.7	9.0	11.1	20.7	21.9	23.0
20 Los Angeles-Long Beach	3,107.2	3,231.4	3,440.3	11.2	11.2	11.3	95.7	99.5	107.8	789.9	818.1	877.5
21 Modesto	73.5	78.6	84.4	.1	.1	.1	4.2	5.2	5.8	18.0	18.4	19.1
22 Oxnard-Simi Valley-Ventura	117.8	128.3	136.1	2.1	2.2	2.3	4.8	6.0	6.9	18.0	19.6	20.7
23 Riverside-San Bernardino-Ontario	347.4	374.9	409.4	2.2	2.4	2.4	14.5	20.4	26.6	54.3	58.5	63.4
24 Sacramento	332.2	352.9	376.3	.3	.4	.4	14.5	17.9	21.4	23.1	24.6	26.5
25 Salinas-Seaside-Monterey	75.4	80.4	84.3	.6	.7	.6	2.8	3.3	3.6	8.4	9.2	9.7
26 San Diego	500.4	543.2	596.9	.8	.8	.7	26.5	32.9	38.0	72.6	77.8	88.5
27 San Francisco-Oakland	1,360.8	1,405.3	1,485.4	2.2	1.9	1.9	58.6	61.1	68.1	186.6	190.5	199.7
28 San Jose	499.8	537.5	586.8	.1	.1	.1	17.9	21.9	23.2	164.7	174.5	196.7
29 Santa Barbara-Santa Maria-Lompoc	100.4	106.1	113.3	1.0	1.0	1.1	3.5	4.2	4.8	13.8	13.7	14.7
30 Santa Rosa	70.2	75.7	82.7	.4	.3	.4	3.6	4.3	5.0	10.1	10.8	12.7
31 Stockton	103.8	107.5	114.6	.1	.1	.1	3.9	4.7	5.7	19.3	19.6	20.1
32 Vallejo-Fairfield-Napa	85.5	90.5	95.9	.2	.2	.3	3.7	3.9	4.6	8.7	9.2	10.0
33 COLORADO	1,003.4	1,058.1	1,134.6	21.1	24.0	27.3	55.1	61.8	72.3	144.5	152.8	165.9
34 Denver-Boulder	631.5	670.2	719.9	10.7	12.1	15.0	33.7	37.9	44.5	99.1	104.9	114.4
35 CONNECTICUT	1,239.7	1,280.0	1,350.3	(2)	(2)	(2)	40.5	43.7	48.0	397.0	406.7	419.6
36 Bridgeport	148.8	153.7	159.4	(2)	(2)	(2)	4.1	4.3	5.1	59.2	60.8	62.5
37 Hartford	339.8	349.7	369.7	(2)	(2)	(2)	10.0	10.4	12.1	83.9	83.6	87.9
38 New Britain	53.8	56.2	60.2	(2)	(2)	(2)	1.9	1.8	2.1	25.8	27.2	28.7
39 New Haven-West Haven	173.1	177.4	187.6	(2)	(2)	(2)	5.7	5.9	6.0	43.3	44.1	45.3
40 Stamford	91.8	97.5	102.2	(2)	(2)	(2)	3.3	4.2	4.7	28.6	29.4	29.9
41 Waterbury	81.5	84.1	86.0	(2)	(2)	(2)	2.5	2.7	3.1	32.7	33.5	32.5
42 DELAWARE	236.7	238.8	248.6	(1)	(1)	(1)	14.5	14.3	15.0	68.2	67.6	69.1
43 Wilmington	206.8	208.8	217.5	(1)	(1)	(1)	12.0	13.1	14.9	64.1	63.3	64.2
44 DISTRICT OF COLUMBIA	575.8	577.7	590.2	(1)	(1)	(1)	16.3	14.4	14.6	15.3	14.8	15.0
45 Washington SMSA	1,361.6	1,400.2	1,452.8	(1)	(1)	(1)	71.4	73.5	78.0	49.0	49.9	52.3
46 FLORIDA	2,784.3	2,933.2	3,124.1	8.8	9.1	9.4	166.7	178.9	206.7	354.0	380.9	420.4
47 Daytona Beach	(*)	63.9	69.7	(*)	-	-	(*)	3.4	4.0	(*)	6.5	7.2
48 Fort Lauderdale-Hollywood	245.5	266.8	289.9	(1)	(1)	(1)	16.9	19.2	22.4	26.9	30.9	35.5
49 Gainesville	(*)	57.2	60.6	(*)	(1)	(1)	(*)	2.8	3.2	(*)	4.2	4.0
50 Jacksonville	259.2	266.0	277.0	(1)	(1)	(1)	14.6	15.1	15.5	29.6	30.7	31.7
51 Miami	596.1	616.9	646.9	(1)	(1)	(1)	24.4	25.9	30.5	84.6	90.5	95.1
52 Orlando	213.8	225.9	248.4	(1)	(1)	(1)	11.7	12.8	15.3	25.7	27.4	31.3
53 Pensacola	86.9	90.6	92.8	(1)	(1)	(1)	5.9	6.2	6.2	13.5	13.6	13.2
54 Sarasota	(*)	55.5	61.3	(*)	(1)	(1)	(*)	5.1	6.4	(*)	4.4	6.0
55 Tallahassee	(*)	64.0	66.8	(*)	(1)	(1)	(*)	2.9	3.2	(*)	2.5	2.5
56 Tampa-St. Petersburg	425.7	446.5	476.1	(1)	(1)	(1)	26.8	27.3	31.0	58.1	61.7	66.6
57 West Palm Beach-Boca Raton	145.3	156.2	171.6	(1)	(1)	(1)	9.9	11.7	14.7	18.3	20.8	22.9
58 GEORGIA	1,835.9	1,917.5	1,992.3	7.0	7.3	7.5	83.6	91.6	98.0	476.3	494.1	510.2
59 Albany	36.4	39.1	40.9	(1)	(1)	(1)	2.1	2.6	3.2	9.6	9.6	10.1
60 Atlanta	769.8	816.0	853.0	(1)	(1)	(1)	32.1	35.7	38.6	124.5	130.8	135.2
61 Augusta	106.7	111.8	117.5	(1)	(1)	(1)	6.4	6.9	7.4	33.9	35.3	35.7
62 Columbus	75.6	78.3	80.3	(1)	(1)	(1)	4.4	4.6	5.0	19.8	19.9	20.2
63 Macon	93.7	94.9	95.1	(1)	(1)	(1)	4.9	4.8	4.6	16.3	16.2	15.3

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	
61.9	65.0	69.2	245.3	259.1	268.9	53.2	55.4	57.6	171.5	179.3	192.0	252.9	266.3	290.1	1
23.8	25.0	27.5	77.9	80.7	83.8	20.9	21.9	22.6	55.9	58.6	62.3	48.5	50.3	52.9	2
2.3	2.5	2.6	19.9	20.8	21.7	2.8	3.1	3.5	15.2	16.5	17.6	32.1	32.2	33.3	3
10.0	10.3	10.7	32.0	34.1	36.1	6.0	6.4	6.9	25.8	25.9	26.6	21.3	22.4	24.2	4
4.1	4.4	4.8	20.9	22.5	24.2	5.3	5.5	5.9	16.3	17.1	18.2	23.5	24.6	27.2	5
1.8	1.8	1.8	8.6	9.5	9.6	1.5	1.6	1.6	5.1	5.5	5.9	16.2	16.3	16.9	6
15.8	16.2	16.4	27.6	28.3	28.9	7.1	6.2	8.1	28.6	27.0	27.9	48.2	50.1	53.6	7
39.5	41.5	44.5	183.8	196.5	214.1	42.6	45.6	49.5	144.4	156.2	171.0	177.3	181.9	191.3	8
23.7	25.0	26.7	118.6	128.7	143.0	32.8	35.0	38.0	87.4	96.1	108.3	87.1	89.8	95.8	9
7.7	7.8	8.0	33.4	34.4	36.4	6.0	6.5	7.0	29.4	30.6	33.3	41.7	42.6	42.2	10
37.5	38.5	41.1	141.7	150.1	158.0	27.9	29.3	30.5	93.4	97.8	104.0	125.3	128.6	134.6	11
3.0	3.0	3.2	12.4	13.5	14.4	1.8	2.0	2.1	6.9	7.2	8.0	9.8	10.6	11.6	12
3.1	3.1	3.3	12.7	13.7	14.4	2.1	2.2	2.3	9.9	10.5	10.8	7.1	7.3	7.6	13
11.1	11.3	12.2	37.1	38.9	40.2	11.4	11.8	12.0	28.3	29.9	31.3	33.1	34.4	35.9	14
3.4	3.6	3.7	5.6	6.0	6.2	1.2	1.2	1.2	4.1	4.5	4.6	5.7	6.1	6.8	15
463.9	476.5	507.5	1,675.6	1,982.4	2,138.1	468.7	505.4	551.4	1,649.0	1,767.3	1,948.7	1,692.3	1,735.9	1,762.6	16
18.9	20.6	23.4	147.7	162.9	182.2	33.6	39.7	46.6	120.1	133.5	149.9	96.8	101.2	102.1	17
6.6	6.7	7.2	27.3	29.2	30.8	3.9	4.2	4.4	17.6	18.5	20.4	31.0	31.6	31.7	18
8.9	9.0	9.8	41.0	43.1	46.1	7.9	8.6	9.5	28.9	30.5	33.2	39.9	40.7	40.7	19
173.5	177.7	190.4	713.6	742.8	791.8	188.4	198.0	211.5	654.9	701.5	760.9	480.0	482.6	489.1	20
3.3	3.6	3.7	17.1	18.7	20.3	2.1	2.5	2.8	13.7	14.1	15.5	15.0	16.0	17.1	21
4.6	5.2	5.9	27.6	29.9	32.4	4.5	5.3	5.8	20.5	22.9	25.4	35.7	37.2	36.7	22
19.0	20.0	21.5	82.7	89.1	98.8	13.5	15.1	16.8	71.2	75.7	83.5	90.0	93.7	96.4	23
17.4	18.2	19.9	74.7	78.6	85.7	15.0	16.6	18.5	57.1	60.6	67.4	130.1	136.0	136.5	24
4.5	4.6	4.9	18.9	20.1	21.4	3.3	3.5	3.8	15.2	16.2	17.9	21.7	22.8	22.4	25
22.8	24.1	26.0	115.5	125.1	139.4	26.7	29.8	33.1	104.9	116.8	132.2	130.6	135.9	139.0	26
119.8	120.0	125.1	307.3	321.7	343.3	116.2	122.5	131.6	282.2	294.7	319.6	287.5	292.9	296.1	27
18.1	18.4	19.6	97.4	104.8	113.7	20.0	21.6	23.4	106.1	116.5	128.2	75.5	79.7	81.9	28
3.3	4.0	4.2	24.4	26.4	29.4	4.4	4.6	4.8	24.2	26.4	29.1	25.6	25.8	25.2	29
3.5	3.7	4.0	16.8	18.0	19.9	3.8	4.4	5.1	13.7	14.5	15.9	18.3	19.7	19.7	30
7.3	7.4	7.8	23.6	24.5	26.4	4.2	4.3	4.7	19.0	19.7	22.3	26.4	27.2	27.5	31
4.0	3.9	4.2	16.0	17.3	19.4	2.6	2.9	3.3	14.6	15.7	17.1	35.7	37.4	37.0	32
60.0	62.6	68.8	249.1	265.0	284.5	57.7	61.7	67.6	196.5	209.1	231.7	219.5	221.1	216.6	33
40.8	43.1	47.7	158.7	169.0	180.4	41.2	44.0	48.1	128.1	137.2	149.1	119.3	121.9	120.3	34
52.9	55.4	57.9	256.2	267.3	284.1	87.7	90.7	95.4	230.4	242.9	262.1	175.1	173.3	183.1	35
5.4	5.5	5.8	30.1	31.5	32.9	6.1	6.4	6.6	26.6	28.0	30.1	17.4	17.0	16.3	36
12.8	14.0	14.6	71.5	73.2	77.5	50.4	52.0	54.5	60.3	65.5	70.4	50.8	51.0	52.7	37
1.3	1.4	1.4	9.0	9.4	10.3	1.5	1.5	1.6	7.8	8.5	9.4	6.5	6.5	6.8	38
14.1	14.3	15.2	36.2	37.7	39.4	9.6	9.7	10.2	40.9	42.4	45.2	23.4	23.4	26.3	39
3.2	3.4	3.6	20.8	22.2	23.7	6.1	6.5	7.1	20.4	22.2	23.7	9.5	9.6	9.5	40
2.9	3.0	3.0	14.5	15.1	15.5	2.7	2.9	3.1	15.5	15.8	17.6	10.7	11.1	11.2	41
11.9	12.1	12.9	52.3	53.1	54.9	11.0	10.9	11.2	38.3	39.6	42.0	40.6	41.4	43.5	42
10.7	11.3	12.3	42.2	42.5	44.2	10.0	9.9	10.2	33.6	34.3	36.7	34.2	34.4	35.2	43
24.7	25.0	25.6	63.9	64.1	64.9	33.2	33.7	33.5	146.5	150.5	158.0	275.9	274.6	278.0	44
61.1	63.0	64.2	260.4	269.0	279.8	77.7	81.6	84.6	319.7	338.0	358.8	522.4	525.2	535.1	45
181.4	185.1	192.8	730.8	771.0	812.0	191.3	202.5	218.8	608.5	640.0	677.3	542.8	565.7	586.7	46
(*)	2.6	2.7	(*)	18.5	19.9	(*)	4.0	3.9	(*)	16.6	18.6	(*)	12.3	13.4	47
13.4	13.5	14.2	71.6	78.2	83.0	19.9	21.8	23.8	59.3	64.2	69.0	37.5	39.0	42.0	48
(*)	1.4	1.5	(*)	11.7	12.7	(*)	2.4	2.5	(*)	7.4	7.9	(*)	27.3	28.8	49
21.3	21.6	22.3	68.8	69.9	72.6	27.4	27.5	27.6	47.7	50.1	53.8	49.8	51.1	53.5	50
58.0	59.6	62.4	154.6	160.1	165.5	43.4	44.9	46.5	144.1	147.3	155.1	87.0	88.6	91.8	51
11.5	11.5	11.9	59.8	63.5	69.6	14.3	15.5	16.4	54.7	58.8	64.3	36.1	36.4	39.6	52
4.2	4.4	4.7	20.0	21.0	21.8	3.7	3.9	4.1	15.6	17.0	17.5	24.0	24.5	25.3	53
(*)	2.6	2.7	(*)	16.4	17.8	(*)	4.6	4.8	(*)	13.8	14.6	(*)	8.6	9.0	54
(*)	2.2	2.2	(*)	12.9	13.6	(*)	2.9	3.1	(*)	8.7	9.1	(*)	31.9	33.1	55
26.1	26.6	27.7	122.2	127.5	132.8	30.4	32.0	34.3	92.1	99.5	107.0	70.0	71.9	76.7	56
6.8	6.9	7.5	38.4	40.7	44.2	11.1	11.8	13.3	35.5	37.6	39.6	25.3	26.7	29.4	57
116.5	120.3	126.6	419.0	443.1	458.6	98.1	100.0	101.9	272.5	286.0	298.4	362.9	375.0	391.1	58
1.7	1.7	1.8	8.3	8.8	9.3	1.7	1.8	1.7	4.7	5.0	4.9	8.3	9.6	9.8	59
68.7	71.8	76.3	216.7	230.7	239.2	56.7	57.6	58.8	143.1	152.2	157.5	127.9	137.2	147.4	60
4.0	3.9	4.1	18.5	19.6	22.5	3.8	4.2	4.2	13.1	13.8	14.7	27.0	28.1	28.8	61
3.0	3.2	3.3	15.8	16.8	17.3	4.5	4.7	5.1	10.0	10.8	10.7	18.1	18.3	18.7	62
4.1	4.5	4.5	18.8	19.2	19.8	5.5	5.6	5.7	14.4	14.9	15.0	29.8	29.7	30.2	63

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

## 1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>GEORGIA—Continued</b>												
1 Savannah	76.1	79.7	84.0	(1)	(1)	(1)	5.0	5.1	6.1	15.7	16.3	16.9
<b>HAWAII</b>												
2 Honolulu	291.2	298.4	309.6	(1)	(1)	(1)	17.8	16.4	17.1	17.1	17.2	17.4
<b>IDAHO</b>												
4 Boise City	291.0	307.4	329.0	3.3	3.4	3.8	17.1	19.0	20.3	52.0	54.1	57.5
5 Boise City	65.7	70.5	(*)	(1)	(1)	(*)	5.1	5.5	(*)	6.5	7.6	(*)
<b>ILLINOIS</b>												
6 Bloomington-Normal	4,541.2	4,634.7	4,729.0	27.9	27.9	24.5	169.0	167.9	174.3	1,215.2	1,229.3	1,237.1
7 Champaign-Urbana-Rantoul	44.5	46.9	47.9	(2)	(2)	(2)	1.2	1.6	1.5	6.6	6.9	6.7
8 Chicago-Gary	66.0	67.7	68.4	(2)	(2)	(2)	2.4	2.4	2.7	6.7	7.4	7.6
9 Chicago SMSA <sup>3</sup>	3,271.0	3,314.1	3,400.3	4.6	4.9	4.9	119.3	123.5	139.8	912.0	925.5	939.0
10 Davenport-Rock Island-Moline	3,003.5	3,064.7	3,144.2	4.6	4.8	4.8	103.2	108.3	123.7	810.4	825.4	836.9
11 Decatur	153.4	157.9	157.2	(2)	(2)	(2)	7.1	7.2	7.3	45.5	47.5	46.5
12 Kankakee	51.8	53.1	53.8	(2)	(2)	(2)	3.0	2.8	3.0	18.5	19.1	19.2
13 Peoria	32.7	33.8	33.5	(2)	(2)	(2)	1.2	1.1	1.1	9.9	10.2	9.9
14 Rockford	144.2	144.6	149.3	(2)	(2)	(2)	8.1	7.9	8.5	50.5	49.6	51.5
15 Springfield	111.5	114.5	119.7	(2)	(2)	(2)	3.2	3.3	3.4	49.6	50.9	54.9
16 Springfield	80.6	81.8	83.5	(2)	(2)	(2)	3.9	3.7	3.8	8.6	8.6	8.5
<b>INDIANA</b>												
17 Anderson	2,023.8	2,114.0	2,190.9	8.2	8.3	8.9	82.0	91.9	98.3	685.1	713.2	738.4
18 Evansville	50.3	52.2	53.1	(1)	(1)	(1)	1.1	1.1	1.1	25.2	25.9	26.0
19 Fort Wayne	113.6	120.1	124.9	2.4	2.4	2.2	5.7	6.8	7.6	35.7	37.8	39.3
20 Gary-Hammond-East Chicago <sup>3</sup>	157.5	166.8	173.4	(1)	(1)	(1)	6.2	6.8	7.1	56.6	59.5	61.1
21 Indianapolis	239.0	249.4	256.1	(1)	(1)	(1)	13.4	15.2	16.1	98.0	100.1	102.1
22 Lafayette-West Lafayette	470.0	485.7	507.3	(1)	(1)	(1)	17.9	19.0	18.0	120.7	124.4	129.5
23 Muncie	51.2	53.7	55.9	(1)	(1)	(1)	1.8	2.2	1.9	10.6	11.5	12.5
24 South Bend	46.4	48.9	48.8	(1)	(1)	(1)	1.7	2.0	1.8	14.2	14.9	14.2
25 Terre Haute	103.4	107.6	111.3	(1)	(1)	(1)	4.3	4.7	4.8	31.7	33.3	34.3
26 Terre Haute	58.1	60.6	62.7	1.1	1.1	1.2	2.0	2.3	2.2	15.5	16.5	17.3
<b>IOWA</b>												
27 Cedar Rapids	1,036.9	1,079.2	1,104.5	2.5	2.5	2.3	53.0	57.6	57.6	234.0	245.6	249.8
28 Des Moines	77.0	79.7	82.8	(1)	(1)	(1)	3.6	3.9	4.0	27.2	27.8	28.9
29 Dubuque	166.1	173.5	179.2	(1)	(1)	(1)	7.9	7.9	8.6	24.4	25.6	25.6
30 Sioux City	40.8	43.1	44.1	(1)	(1)	(1)	1.6	1.8	2.0	15.6	16.5	16.9
31 Waterloo-Cedar Falls	49.7	49.8	51.1	(1)	(1)	(1)	3.3	4.0	3.9	10.8	8.6	9.8
32 Waterloo-Cedar Falls	59.1	63.0	65.2	(1)	(1)	(1)	2.6	2.7	2.9	19.2	21.8	22.2
<b>KANSAS</b>												
33 Lawrence	834.8	871.0	913.1	10.9	11.3	12.5	42.5	45.6	46.9	166.6	172.9	186.5
34 Topeka	(*)	25.0	26.1	(*)	(2)	(2)	(*)	1.5	1.3	(*)	3.8	4.2
35 Wichita	77.7	81.3	84.5	.2	.2	.3	3.3	3.4	3.7	9.7	11.2	11.5
36 Wichita	175.2	179.8	191.2	1.7	1.8	2.1	9.3	9.3	9.8	51.2	51.9	59.1
<b>KENTUCKY</b>												
37 Lexington-Fayette	1,111.7	1,158.8	1,223.8	46.8	48.6	53.0	54.2	58.4	67.9	273.3	284.9	289.6
38 Louisville	127.6	133.0	142.0	(1)	(1)	(1)	6.7	6.9	7.7	28.8	29.4	30.3
39 Owensboro	356.8	372.4	395.9	(1)	(1)	(1)	15.8	17.6	20.0	103.7	106.9	109.3
40 Owensboro	26.9	28.3	30.2	.6	.6	.8	1.5	1.8	2.3	6.9	7.3	7.1
<b>LOUISIANA</b>												
41 Alexandria	1,314.4	1,364.6	1,415.7	62.5	68.0	72.7	110.7	111.1	117.4	195.4	203.3	207.4
42 Baton Rouge	45.3	48.1	50.5	(1)	(1)	(1)	3.2	3.2	3.2	5.9	6.2	6.3
43 Lafayette	172.2	176.6	187.7	1.0	1.0	.9	23.9	22.0	24.7	23.4	23.8	24.8
44 Lake Charles	53.3	58.1	62.5	8.4	9.4	11.4	4.2	4.8	5.0	2.9	3.2	3.5
45 Monroe	52.0	54.0	57.9	1.5	1.6	1.8	5.3	5.2	5.4	11.2	11.3	12.2
46 New Orleans	45.2	46.7	49.0	.4	.4	.4	4.8	4.2	4.7	7.3	8.0	8.5
47 Shreveport	438.7	455.5	474.8	14.0	14.9	15.6	27.2	27.5	28.7	52.2	51.2	51.7
48 Shreveport	129.1	135.9	140.6	4.6	4.9	5.1	8.3	8.8	9.5	25.6	27.7	28.3
<b>MAINE</b>												
49 Lewiston-Auburn	375.3	387.8	404.8	(1)	(1)	(1)	22.1	19.8	19.1	102.5	105.9	110.7
50 Portland	31.3	32.8	33.9	(1)	(1)	(1)	1.2	1.3	1.3	11.8	12.1	12.2
51 Portland	79.9	81.6	86.1	(1)	(1)	(1)	4.0	3.9	3.9	15.7	15.3	16.3
<b>MARYLAND</b>												
52 Baltimore	1,498.3	1,539.1	1,593.6	(1)	(1)	(1)	88.6	92.2	102.5	232.4	235.1	242.0
53 Baltimore	846.3	863.5	882.1	(1)	(1)	(1)	40.8	43.7	49.4	160.8	161.2	164.3
<b>MASSACHUSETTS</b>												
54 Boston	2,314.4	2,395.7	2,498.9	(1)	(1)	(1)	71.7	70.6	74.1	593.6	619.1	647.3
55 Brockton	1,267.7	1,302.3	1,358.2	(1)	(1)	(1)	41.5	40.1	41.4	257.0	268.1	280.6
56 Fall River	50.4	53.3	56.8	-	-	-	1.5	1.7	1.9	11.3	11.6	12.1
57 Lawrence-Haverhill	52.0	53.5	56.7	(1)	(1)	(1)	1.3	1.2	1.3	20.5	20.2	21.1
58 Lowell	94.7	99.1	106.3	(1)	(1)	(1)	2.4	2.3	2.4	36.5	37.5	39.6
59 New Bedford	62.4	65.3	68.6	(1)	(1)	(1)	2.2	2.4	2.4	20.8	21.9	23.1
60 Springfield-Chicopee-Holyoke	58.9	60.9	62.3	(1)	(1)	(1)	1.8	1.5	1.8	23.9	25.0	25.4
61 Springfield-Chicopee-Holyoke	212.1	218.5	225.4	(1)	(1)	(1)	5.2	5.2	5.3	61.8	63.8	66.1

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)															
Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	
8.0	7.5	8.8	17.5	18.8	19.1	3.6	3.8	3.9	12.5	13.3	13.7	13.6	14.9	15.4	1
27.1	28.2	28.6	87.9	92.2	96.1	24.7	25.6	28.5	79.9	84.8	89.3	84.8	85.7	87.1	2
22.6	23.3	23.5	74.2	77.2	80.2	21.8	22.4	25.0	65.1	68.9	72.5	72.6	73.0	73.9	3
17.1	18.0	19.3	72.8	76.8	81.5	15.4	16.4	20.7	48.8	52.4	57.0	64.5	67.3	69.0	4
4.0	4.3	(*)	17.8	18.9	(*)	5.0	5.6	(*)	11.2	11.9	(*)	16.1	16.7	(*)	5
277.6	284.0	289.7	1,057.8	1,089.2	1,090.9	266.8	275.6	285.3	834.3	861.9	892.1	692.7	698.9	735.0	6
2.8	2.9	3.0	9.7	10.7	11.4	6.6	7.0	7.3	6.9	7.0	7.1	10.6	10.9	10.9	7
2.4	2.4	2.5	14.9	15.6	15.7	2.1	2.1	2.2	8.7	9.2	9.4	28.8	28.6	28.3	8
200.8	205.6	210.6	751.0	752.0	757.9	206.8	207.1	213.5	626.1	639.3	653.3	450.4	456.4	481.6	9
189.2	191.1	195.9	702.1	704.7	708.7	196.9	198.6	204.7	579.6	606.9	618.8	417.4	425.0	450.6	10
7.7	7.8	6.8	37.8	40.2	41.2	6.4	6.5	6.6	23.2	23.4	23.3	25.8	25.3	25.5	11
4.3	4.5	4.3	10.4	10.9	11.2	2.3	2.4	2.5	8.1	8.1	8.4	5.1	5.2	5.2	12
1.3	1.4	1.4	7.2	7.5	7.9	.9	1.0	1.0	6.0	6.5	6.3	6.1	6.1	5.9	13
7.3	7.2	7.0	33.5	34.7	35.4	6.6	7.1	7.4	24.0	24.7	26.2	14.2	13.5	12.8	14
4.8	5.1	5.3	23.0	23.9	24.5	3.6	3.8	4.0	15.3	15.6	15.7	12.0	12.0	12.1	15
5.2	5.0	4.8	16.9	17.8	19.3	6.4	6.3	6.6	14.5	15.5	15.7	25.1	24.9	24.9	16
102.6	105.6	107.9	437.3	459.3	473.8	91.0	94.0	96.4	285.0	299.8	313.0	332.5	342.0	354.3	17
1.4	1.4	1.5	9.3	9.9	10.4	1.5	1.6	1.7	6.1	6.5	6.8	5.7	5.8	5.6	18
6.0	6.4	6.7	27.0	28.6	29.5	3.9	4.0	4.2	20.7	21.9	23.1	12.2	12.2	12.3	19
10.0	10.5	10.7	37.0	39.2	40.7	8.9	9.2	9.6	23.5	25.2	26.6	15.3	16.4	17.6	20
14.3	14.5	14.7	44.3	47.3	49.1	8.0	8.5	8.8	30.6	32.4	34.2	30.4	31.4	31.1	21
28.6	29.4	30.4	114.3	118.9	123.8	33.1	34.1	34.6	72.4	75.9	82.9	83.0	84.0	88.1	22
1.5	1.5	1.5	10.2	10.6	11.2	2.5	2.6	2.7	7.4	7.8	8.4	17.2	17.5	17.7	23
1.9	2.0	2.1	10.3	11.1	11.3	1.5	1.5	1.5	6.6	7.0	7.3	10.2	10.4	10.6	24
5.1	5.1	5.2	24.1	25.4	26.6	5.2	4.9	5.0	21.2	22.3	22.6	11.8	11.9	12.8	25
4.0	4.1	3.9	14.2	14.8	15.6	1.9	2.0	2.0	8.2	8.6	8.8	11.2	11.4	11.7	26
53.8	55.0	55.8	265.2	275.4	281.6	49.9	52.6	55.2	181.7	188.1	194.7	197.0	202.5	207.6	27
3.7	3.7	4.0	16.6	17.2	18.0	3.6	4.0	4.2	13.3	13.9	14.5	9.0	9.2	9.2	28
10.7	11.2	11.2	43.9	46.4	47.8	18.0	18.8	19.6	34.1	35.4	37.3	27.2	28.2	29.1	29
1.7	1.7	1.6	8.6	8.9	9.0	1.2	1.3	1.3	8.5	9.0	9.4	3.6	3.9	3.9	30
3.6	3.7	3.9	13.4	14.0	13.4	2.5	2.7	2.7	9.8	10.5	10.8	6.3	6.4	6.6	31
2.5	2.5	2.6	13.3	13.7	14.2	1.8	1.9	2.0	9.8	10.0	10.3	10.0	10.7	11.0	32
56.7	59.3	63.2	203.9	211.9	220.1	40.7	43.6	45.0	141.9	149.0	156.3	171.6	176.9	182.6	33
(*)	1.3	1.4	(*)	5.1	5.4	(*)	.8	.8	(*)	3.1	3.3	(*)	9.6	9.9	34
7.1	7.3	7.4	17.2	18.0	18.9	5.6	5.7	5.7	14.2	14.9	16.0	20.7	20.8	21.2	35
9.4	9.9	10.2	40.2	40.7	42.7	8.9	9.0	9.0	32.9	34.9	35.8	21.9	22.4	22.7	36
60.9	64.6	67.4	234.1	247.6	263.9	43.4	46.3	48.5	177.4	185.9	199.8	221.6	222.5	233.7	37
5.6	6.2	6.7	28.5	30.1	32.5	5.7	6.3	6.8	22.2	23.3	25.1	30.1	30.7	32.9	38
22.2	23.4	24.3	79.5	83.0	90.9	19.6	20.6	21.8	64.8	68.3	72.3	51.1	52.7	57.4	39
1.9	2.0	2.2	6.5	6.7	7.4	1.1	1.1	1.1	4.3	4.7	5.1	4.1	4.1	4.2	40
102.0	103.6	109.4	305.5	324.6	337.1	62.6	66.1	69.4	222.7	230.5	240.2	253.0	257.4	262.1	41
2.3	2.3	2.5	10.7	11.0	11.1	2.7	2.9	3.1	8.3	8.8	9.5	12.2	13.7	14.8	42
8.5	8.6	9.5	35.2	38.3	39.9	9.4	10.1	10.5	25.0	27.1	27.9	45.8	45.7	49.5	43
3.9	4.2	4.4	14.0	15.7	16.3	1.7	1.8	1.9	9.4	10.1	11.5	8.8	8.9	8.5	44
3.0	2.9	3.1	11.6	12.5	12.9	2.2	2.3	2.5	8.3	8.8	9.4	8.9	9.4	10.6	45
2.3	2.3	2.3	11.5	12.4	12.8	3.0	3.0	3.2	6.6	7.0	7.4	9.3	9.4	9.7	46
44.9	45.8	48.0	113.4	118.2	118.9	26.7	27.4	28.3	91.4	97.4	104.4	68.9	73.1	79.2	47
9.6	9.4	9.6	32.6	34.2	34.3	5.9	6.3	6.5	21.8	22.7	23.8	20.7	21.9	23.5	48
17.9	18.0	18.1	79.2	83.6	89.3	14.6	15.3	15.8	63.8	67.5	70.3	75.2	77.7	81.5	49
1.2	1.1	1.1	7.1	7.5	7.7	1.3	1.4	1.4	5.9	6.2	6.7	2.8	3.2	3.5	50
4.8	5.0	5.2	20.8	21.9	23.5	6.3	6.6	6.8	15.9	16.4	17.7	12.4	12.5	12.7	51
77.7	80.9	84.6	358.7	368.4	378.6	80.1	82.8	85.6	287.3	303.9	317.3	372.1	374.3	383.0	52
53.2	55.7	58.7	192.6	197.3	194.0	48.7	50.4	51.9	158.3	163.6	169.3	191.9	191.6	194.5	53
112.8	113.8	116.1	520.2	534.7	557.9	135.3	138.6	142.5	508.3	531.3	566.9	372.5	387.6	394.1	54
68.1	68.2	67.9	292.1	296.4	302.0	92.7	94.7	98.1	321.9	337.4	364.6	194.4	197.4	203.6	55
3.6	3.9	3.9	14.0	14.5	15.2	1.8	2.0	2.2	7.7	8.4	8.7	10.5	11.2	12.8	56
1.9	1.9	2.0	10.1	11.8	12.6	2.3	2.5	2.7	8.6	8.5	8.9	7.3	7.4	8.1	57
3.7	4.0	4.1	19.5	20.7	22.5	3.4	3.5	3.6	14.3	14.6	15.1	14.9	16.5	19.0	58
3.0	3.0	3.1	13.5	14.2	15.1	1.9	2.1	2.1	9.9	10.3	10.4	11.1	11.4	12.4	59
2.6	2.6	2.6	11.9	11.9	11.9	1.7	1.8	1.9	8.6	8.5	8.7	8.8	9.6	10.0	60
9.0	9.3	9.5	44.3	44.7	45.4	11.0	11.1	11.5	38.3	40.6	41.9	42.5	43.8	45.7	61

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>MASSACHUSETTS—Continued</b>												
1 Worcester	147.2	151.6	157.0	(1)	(1)	(1)	3.8	4.0	4.0	43.7	45.0	46.6
<b>MICHIGAN</b>												
2 Ann Arbor	3,264.3	3,411.6	3,534.6	12.7	12.2	13.6	105.3	124.1	144.6	1,056.7	1,105.6	1,140.0
3 Battle Creek	118.6	125.0	130.1	(1)	(1)	(1)	2.6	2.7	3.0	36.4	40.5	42.7
4 Bay City	63.6	64.7	66.5	(1)	(1)	(1)	1.5	1.5	1.7	23.3	23.3	23.7
5 Detroit	33.8	34.7	36.7	(1)	(1)	(1)	1.1	1.4	1.7	10.3	10.6	11.4
6 Flint	1,628.4	1,686.1	1,740.9	1.3	1.2	1.2	49.7	60.3	69.7	544.4	568.7	579.9
7 Grand Rapids	180.3	192.0	201.6	(1)	(1)	(1)	4.6	6.1	7.3	77.0	83.7	87.4
8 Jackson	227.1	237.6	247.3	(1)	(1)	(1)	8.7	9.8	11.1	76.6	82.3	87.4
9 Kalamazoo-Portage	48.9	50.6	52.3	(1)	(1)	(1)	1.6	1.5	1.3	14.9	15.7	16.7
10 Lansing-East Lansing	100.1	103.7	106.4	(1)	(1)	(1)	3.9	3.9	4.3	33.6	35.1	36.0
11 Muskegon-Norton Shores-Musk. Hgts.	170.1	177.5	185.8	(1)	(1)	(1)	4.9	4.9	5.2	37.7	40.6	42.9
12 Saginaw	57.9	59.2	60.7	(1)	(1)	(1)	2.2	2.5	2.8	21.8	21.9	22.3
13	81.4	86.5	91.8	(1)	(1)	(1)	2.3	2.5	2.8	32.2	35.6	37.7
<b>MINNESOTA</b>												
14 Duluth-Superior	1,520.8	1,597.3	1,682.8	14.9	12.9	16.5	65.4	68.7	79.6	321.6	339.3	358.2
15 Minneapolis-St. Paul	56.4	58.0	(*)	(1)	(1)	(*)	2.2	2.5	(*)	7.7	7.6	(*)
16	914.1	965.7	1,016.1	(1)	(1)	(1)	33.3	36.4	43.0	208.5	220.6	232.1
<b>MISSISSIPPI</b>												
17 Jackson	727.5	765.9	812.8	6.9	7.6	8.7	39.1	41.0	45.2	218.9	230.1	235.8
18	122.4	128.7	139.1	1.0	1.0	1.1	6.7	7.0	7.9	18.2	18.4	18.9
<b>MISSOURI</b>												
19 Kansas City	1,797.8	1,861.8	1,927.9	8.6	8.4	7.6	72.2	77.8	82.2	424.9	439.6	452.8
20 St. Joseph	571.2	595.5	617.8	.6	.5	.5	24.7	24.4	28.0	114.1	119.7	123.6
21 St. Louis	36.0	36.3	36.4	(2)	(2)	(2)	1.8	1.9	2.0	9.3	9.4	9.4
22 Springfield	927.0	947.3	966.9	2.7	2.3	2.2	36.3	37.5	41.1	242.9	249.4	253.1
23	74.8	78.8	81.2	(2)	(2)	(2)	3.2	3.7	3.7	18.4	18.4	18.2
<b>MONTANA</b>												
24 Billings	251.1	264.8	277.6	6.1	6.1	6.9	13.8	15.7	16.3	23.7	25.1	26.2
25 Great Falls	40.3	43.4	45.0	(1)	(1)	(1)	2.7	2.5	2.4	3.2	4.1	4.1
26	27.4	29.3	30.2	(1)	(1)	(1)	1.9	1.9	1.8	1.7	1.8	1.8
<b>NEBRASKA</b>												
27 Lincoln	572.1	593.7	601.5	1.7	1.8	1.6	30.0	32.3	32.5	87.9	90.6	92.6
28 Omaha	89.5	94.6	98.1	-	-	-	4.3	4.4	4.5	12.6	13.6	13.6
29	240.4	246.2	253.5	(2)	(2)	(2)	11.9	12.4	12.2	33.4	34.8	35.0
<b>NEVADA</b>												
30 Las Vegas	279.8	308.2	349.9	3.7	4.4	4.1	14.8	19.3	26.1	13.0	15.1	17.6
31 Reno	153.3	168.3	187.5	.2	.2	.2	8.0	10.2	13.6	5.1	5.6	6.3
32	79.7	89.1	104.3	.4	.6	.5	4.7	6.6	8.7	5.6	6.8	7.9
<b>NEW HAMPSHIRE</b>												
33 Manchester	313.4	337.1	362.3	.4	.4	.4	14.3	17.0	18.8	94.5	101.4	109.8
34 Nashua	60.5	66.5	71.9	(2)	(2)	(2)	2.6	3.4	3.4	17.7	18.1	19.1
35	46.0	52.0	55.2	(2)	(2)	(2)	1.5	2.5	2.7	21.1	23.2	24.8
<b>NEW JERSEY</b>												
36 Atlantic City	2,755.5	2,844.9	(*)	2.7	2.9	(*)	93.9	96.1	(*)	756.8	768.8	(*)
37 Camden	65.8	67.0	(*)	-	-	(*)	2.9	3.2	(*)	8.4	8.4	(*)
38 Hackensack	294.0	303.2	(*)	.1	.1	(*)	12.3	11.5	(*)	64.7	66.4	(*)
39 Jersey City	358.0	369.7	(*)	(1)	(1)	(*)	12.2	12.7	(*)	105.7	108.8	(*)
40 Long Branch-Asbury Park	230.9	231.0	(*)	-	-	(*)	3.9	4.0	(*)	73.5	71.9	(*)
41 New Bruns.-Perth Amboy-Sayreville	139.5	145.4	(*)	(1)	(1)	(*)	5.8	5.6	(*)	21.7	23.4	(*)
42 Newark	245.5	257.5	(*)	(1)	(1)	(*)	8.3	8.7	(*)	82.1	84.9	(*)
43 Paterson-Clifton-Passaic	860.1	892.7	(*)	.9	.9	(*)	28.8	29.5	(*)	238.8	244.9	(*)
44 Trenton	177.5	181.2	(*)	(1)	(1)	(*)	5.0	5.3	(*)	64.6	65.0	(*)
45 Vineland-Millville-Bridgeton	149.8	155.8	(*)	(1)	(1)	(*)	2.8	2.9	(*)	36.9	37.6	(*)
46	51.9	54.6	(*)	(1)	(1)	(*)	1.5	1.6	(*)	19.1	19.4	(*)
<b>NEW MEXICO</b>												
47 Albuquerque	390.0	415.4	444.7	21.5	23.4	24.5	26.1	30.7	35.4	30.3	32.2	33.3
48	155.6	164.9	177.8	(1)	(1)	(1)	10.3	12.4	15.1	16.2	16.4	17.2
<b>NEW YORK</b>												
49 Albany-Schenectady-Troy	6,783.4	6,847.7	7,025.1	7.1	6.9	6.3	189.4	190.2	197.5	1,438.9	1,459.6	1,483.2
50 Binghamton	313.0	321.7	330.6	(1)	(1)	(1)	10.7	10.6	10.7	62.3	63.7	62.6
51 Buffalo	107.8	111.7	116.4	(1)	(1)	(1)	3.9	4.0	4.4	38.8	40.5	41.9
52 Elmira	490.1	497.8	508.2	(1)	(1)	(1)	17.3	17.6	18.4	142.8	145.2	144.1
53 Monroe County	37.3	36.5	37.4	(1)	(1)	(1)	1.5	1.4	1.4	12.3	11.5	11.6
54 Nassau-Suffolk	317.4	321.6	329.5	(1)	(1)	(1)	8.9	9.3	10.0	127.1	129.0	131.4
55 New York-Northeastern New Jersey	802.2	827.6	865.1	(1)	(1)	(1)	31.5	31.9	33.9	145.2	151.2	157.7
56 New York and Nassau-Suffolk	6,264.8	6,331.1	(*)	3.3	3.6	(*)	171.6	171.9	(*)	1,329.9	1,348.3	(*)
57 New York SMSA	4,397.1	4,411.8	4,509.9	2.0	1.8	1.7	113.1	110.9	114.9	765.2	772.5	780.4
58 Poughkeepsie	3,594.9	3,584.2	3,644.7	1.9	1.6	1.5	81.5	79.0	81.0	620.1	621.3	622.6
59 Rochester	3,204.7	3,182.0	3,223.9	1.6	1.4	1.3	66.8	64.2	65.0	541.1	538.6	534.8
60	85.8	87.3	92.3	(1)	(1)	(1)	2.5	2.7	3.0	28.0	28.4	30.7
61	388.2	395.0	405.8	(1)	(1)	(1)	10.9	11.3	12.1	145.8	149.3	152.3

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	
6.9	6.9	6.9	31.7	33.2	33.9	8.0	8.2	8.4	27.8	28.4	29.6	25.3	25.9	27.6	1
144.6	146.9	150.8	674.7	698.9	712.5	136.9	139.5	144.6	539.3	570.3	598.5	594.0	614.1	630.0	2
2.1	2.2	2.3	16.5	17.5	18.3	3.3	3.6	3.8	17.1	17.7	17.8	40.6	40.8	42.2	3
2.1	2.1	2.2	10.6	10.7	11.1	3.5	3.5	3.6	10.7	11.1	11.5	11.9	12.5	12.7	4
1.9	2.0	2.0	8.5	8.5	9.0	1.0	1.1	1.1	5.9	6.0	6.4	5.1	5.1	5.1	5
81.0	80.3	82.8	327.9	334.2	343.1	79.3	81.4	83.4	293.6	306.5	323.0	251.1	253.5	257.9	6
5.8	6.0	6.1	35.8	37.1	39.5	5.2	5.5	5.7	23.9	25.8	28.0	28.0	27.8	27.6	7
9.3	9.5	9.7	53.3	55.1	56.2	8.3	8.5	8.7	41.8	42.7	43.6	29.0	29.7	30.6	8
4.3	4.4	4.4	9.7	9.8	10.3	1.5	1.5	1.6	8.4	9.0	9.4	8.5	8.7	8.6	9
3.2	3.4	3.4	10.6	19.8	20.0	3.4	3.4	3.7	17.2	17.5	18.1	20.2	20.6	20.9	10
4.1	4.3	4.5	31.6	32.7	33.9	7.9	8.3	8.8	23.4	24.2	24.9	60.5	62.5	65.6	11
2.9	3.0	3.0	10.6	11.0	11.5	1.6	1.7	1.8	8.6	8.7	8.7	10.2	10.4	10.6	12
4.0	4.0	4.1	16.3	17.3	18.1	3.6	3.8	3.9	11.7	11.7	12.8	11.3	11.6	12.4	13
89.9	92.4	94.2	383.5	403.5	425.6	77.9	82.2	86.4	291.5	312.0	331.4	276.0	286.3	290.8	14
6.2	6.3	(*)	14.9	15.9	(*)	2.0	2.0	(*)	11.6	12.0	(*)	11.7	11.8	(*)	15
57.5	59.7	59.5	229.0	241.3	254.5	56.0	61.4	64.2	184.7	198.2	211.0	143.0	147.9	151.8	16
34.7	36.1	38.1	141.4	149.7	159.3	28.5	29.7	31.3	101.8	107.9	114.2	156.2	163.9	180.2	17
7.5	8.1	8.8	28.6	30.7	34.4	9.4	9.8	10.7	23.5	24.6	26.3	27.6	28.9	31.0	18
125.5	129.7	135.0	428.5	446.1	461.4	95.1	98.0	102.5	326.5	340.7	349.7	316.5	321.5	336.7	19
50.3	51.8	53.3	146.1	153.5	157.7	37.5	39.7	41.4	110.8	116.6	120.7	87.1	89.3	92.6	20
2.5	2.4	2.2	8.8	8.8	9.0	1.8	1.8	1.8	6.3	6.4	6.2	5.5	5.6	5.8	21
63.6	65.2	68.0	214.4	218.3	219.8	50.5	51.9	53.0	183.1	186.8	191.7	133.5	135.9	138.0	22
5.4	5.9	6.2	19.8	21.6	22.8	2.9	3.1	3.3	14.5	15.4	15.8	10.5	10.7	11.2	23
19.5	20.3	21.6	63.6	67.0	71.3	10.8	11.2	12.1	47.8	49.4	52.0	65.7	70.0	71.2	24
3.6	3.8	4.1	13.3	14.2	15.2	1.9	2.0	2.1	8.0	8.7	9.2	7.6	8.1	7.9	25
1.7	1.8	1.9	8.4	9.5	10.0	1.6	1.9	2.0	6.1	6.2	6.5	5.9	6.2	6.2	26
40.6	42.0	43.8	150.9	156.0	155.3	35.7	37.7	39.1	101.0	104.1	108.1	124.3	129.2	128.4	27
6.2	6.6	6.7	19.4	20.6	21.6	6.4	6.7	7.0	14.9	15.5	16.4	25.7	27.2	28.3	28
21.4	21.8	22.8	62.1	64.5	66.5	20.8	22.0	22.8	50.6	49.9	53.5	40.4	40.8	40.7	29
17.6	18.8	21.1	55.5	61.2	69.2	11.4	12.8	14.4	116.0	127.4	145.6	46.8	49.2	51.8	30
9.8	10.7	12.0	30.8	34.1	38.7	6.1	6.7	7.7	72.5	78.9	85.8	20.8	21.9	23.2	31
5.7	5.9	6.8	17.9	19.0	21.4	4.3	4.8	5.4	27.9	31.6	39.2	13.2	13.8	14.4	32
12.1	12.3	13.1	68.1	73.7	80.9	15.0	16.2	17.3	59.0	62.3	65.9	49.9	53.8	56.1	33
3.8	4.1	4.4	14.2	16.6	18.7	4.2	4.7	5.2	11.0	12.0	13.1	7.0	7.6	8.0	34
1.8	1.7	1.7	9.2	10.2	11.0	1.5	1.6	1.7	6.5	7.4	7.7	4.4	5.4	5.6	35
176.0	179.9	(*)	618.5	636.9	(*)	138.2	143.7	(*)	489.6	516.4	(*)	479.8	500.3	(*)	36
3.3	3.2	(*)	17.7	18.2	(*)	4.4	4.2	(*)	15.4	15.6	(*)	13.7	14.1	(*)	37
14.8	14.6	(*)	78.4	79.5	(*)	14.0	14.8	(*)	54.1	58.2	(*)	55.6	58.1	(*)	38
18.3	18.3	(*)	105.9	108.8	(*)	13.7	14.1	(*)	61.6	64.8	(*)	40.6	42.2	(*)	39
28.8	28.2	(*)	42.6	44.1	(*)	8.5	8.8	(*)	29.4	29.4	(*)	44.1	44.8	(*)	40
5.7	5.9	(*)	35.2	36.8	(*)	5.4	6.3	(*)	33.9	34.8	(*)	32.0	32.0	(*)	41
16.4	16.9	(*)	55.1	58.1	(*)	8.3	8.5	(*)	32.3	34.5	(*)	43.0	45.8	(*)	42
64.3	67.9	(*)	167.3	171.5	(*)	59.2	60.9	(*)	161.2	169.7	(*)	139.6	147.5	(*)	43
6.7	6.7	(*)	40.4	41.2	(*)	8.6	9.1	(*)	27.8	28.0	(*)	24.3	26.1	(*)	44
5.2	5.4	(*)	23.1	23.5	(*)	5.8	6.3	(*)	36.1	37.2	(*)	39.9	43.1	(*)	45
3.1	3.0	(*)	8.0	8.5	(*)	2.4	3.1	(*)	7.3	7.8	(*)	10.5	11.2	(*)	46
23.4	24.6	26.6	90.4	95.5	101.5	17.0	18.3	19.9	73.3	79.7	87.3	108.0	111.0	116.2	47
8.6	9.2	10.2	40.3	42.6	45.3	8.6	9.3	10.1	35.3	37.1	40.0	36.4	38.0	39.9	48
428.1	425.3	429.3	1,414.4	1,427.6	1,452.9	575.3	577.8	585.0	1,462.7	1,499.8	1,568.6	1,267.5	1,260.5	1,302.1	49
14.8	15.4	15.5	62.2	63.8	66.6	13.9	14.4	14.9	60.4	62.5	65.2	88.7	91.3	95.2	50
4.2	4.6	4.7	20.1	20.8	21.8	3.5	3.6	3.6	15.0	16.0	17.2	22.4	22.2	22.8	51
26.6	26.8	28.0	108.2	111.0	114.3	20.4	21.2	21.5	88.1	89.9	93.8	86.7	86.2	88.3	52
1.3	1.4	1.4	3.1	8.1	8.3	1.0	1.0	1.0	6.4	6.4	6.7	6.6	6.7	7.0	53
10.1	10.1	10.0	59.3	60.3	61.9	13.8	14.1	14.4	59.7	60.7	62.6	38.5	37.9	39.1	54
34.8	35.5	36.9	213.5	220.5	225.8	44.2	45.3	47.3	167.3	175.0	184.9	165.6	168.1	178.7	55
454.6	453.5	(*)	1,346.4	1,358.3	(*)	577.4	580.0	(*)	1,334.2	1,365.2	(*)	1,047.3	1,050.0	(*)	56
320.0	315.5	316.7	933.5	934.2	943.8	479.0	478.8	483.3	1,028.5	1,054.2	1,101.1	755.7	743.9	768.0	57
285.2	280.0	279.8	720.0	713.7	718.0	434.8	433.4	436.0	861.3	879.4	916.4	590.1	575.8	589.4	58
263.7	258.2	258.1	628.8	620.1	620.0	416.3	414.4	416.6	769.1	783.5	816.7	517.3	501.5	511.5	59
2.9	2.9	3.0	14.5	14.8	15.5	2.5	2.5	2.5	15.1	15.4	16.1	20.3	20.7	21.6	60
12.8	13.0	13.0	75.3	76.7	78.7	15.3	15.6	16.0	70.0	71.4	73.8	58.2	57.6	59.9	61

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>NEW YORK—Continued</b>												
1 Rockland County <sup>10</sup>	72.9	74.8	77.6	(1)	(1)	(1)	2.0	2.1	2.3	14.2	14.9	15.6
2 Syracuse	238.1	246.5	255.6	(1)	(1)	(1)	9.6	10.9	10.2	54.8	58.1	60.1
7 Utica-Rome	110.5	111.3	114.8	(1)	(1)	(1)	2.8	2.8	3.0	30.2	30.1	31.7
4 Westchester County <sup>10</sup>	306.3	316.0	330.9	(1)	(1)	(1)	12.1	12.0	12.9	63.6	66.6	70.9
<b>5 NORTH CAROLINA</b>												
6 Asheville	62.0	65.5	67.9	(1)	(1)	(1)	3.1	3.4	3.6	20.1	21.2	21.6
7 Charlotte-Gastonia	279.0	293.1	308.0	(1)	(1)	(1)	14.3	14.5	15.7	80.0	84.3	86.8
8 Greensboro-Winston-Salem-High Pt.	342.9	358.1	371.8	(1)	(1)	(1)	14.9	15.8	16.6	136.7	141.7	145.2
9 Raleigh-Durham	219.3	231.5	245.2	(1)	(1)	(1)	10.6	11.3	12.3	35.5	37.0	38.7
<b>10 NORTH DAKOTA</b>												
11 Fargo-Moorhead	215.0	221.1	232.2	2.5	3.1	4.4	15.9	16.4	18.6	16.2	15.3	15.8
	56.1	58.0	60.6	(2)	(2)	(2)	3.8	4.0	4.4	5.2	5.1	5.1
<b>12 OHIO</b>												
13 Akron	4,094.5	4,228.4	4,380.8	28.2	29.1	29.0	154.2	162.8	177.9	1,295.3	1,344.1	1,379.2
14 Canton	247.3	259.3	265.6	.3	.3	.3	7.0	7.6	8.7	80.3	85.6	85.5
15 Cincinnati	145.9	149.6	154.6	.8	.9	1.1	5.6	5.7	6.5	54.8	56.0	56.8
16 Cleveland	581.9	562.8	593.4	.4	.4	.4	22.4	24.1	26.3	155.6	161.1	170.0
17 Columbus	860.0	881.1	908.5	1.5	1.5	1.5	28.8	29.5	32.5	265.1	270.9	278.2
18 Dayton	456.1	471.6	493.1	.7	.8	.9	17.4	18.4	20.6	94.2	98.9	100.8
19 Toledo	331.5	342.7	356.6	.4	.4	.5	11.6	12.8	13.9	104.0	109.2	112.3
20 Youngstown-Warren	282.6	291.9	301.4	.6	.6	.6	11.4	11.3	11.8	84.8	88.2	91.0
	203.5	208.0	210.8	.3	.3	.5	6.6	7.4	8.1	80.6	81.1	79.6
<b>21 OKLAHOMA</b>												
22 Oklahoma City	931.1	971.5	1,026.3	44.4	48.9	54.2	46.1	49.5	56.0	156.1	163.0	171.2
23 Tulsa	315.2	333.1	359.4	9.9	10.9	12.4	14.8	16.5	19.3	40.9	43.6	47.2
	244.1	254.7	268.5	15.3	15.5	17.5	14.0	13.8	14.5	52.4	53.8	55.8
<b>24 OREGON</b>												
25 Eugene-Springfield	878.5	936.9	1,005.1	1.5	1.8	2.0	36.6	42.6	49.4	193.7	206.1	218.1
26 Jackson County	89.2	96.0	103.3	(1)	(1)	(1)	3.8	4.9	5.6	19.8	20.7	21.2
27 Portland	461.2	487.8	525.6	(1)	(1)	(1)	20.1	22.7	26.7	93.9	98.9	108.0
28 Salem	73.6	80.8	86.2	(1)	(1)	(1)	3.7	4.2	4.8	12.8	13.9	14.6
<b>29 PENNSYLVANIA</b>												
30 Allentown-Bethlehem-Easton	4,512.8	4,565.0	4,669.9	48.3	48.0	46.6	180.3	183.9	195.3	1,335.2	1,341.5	1,362.1
31 Altoona	255.1	256.3	258.1	(1)	(1)	(1)	9.8	9.3	9.3	107.3	107.8	109.3
32 Delaware Valley <sup>11</sup>	50.6	51.2	51.7	(1)	(1)	(1)	2.0	2.3	2.2	13.1	13.1	12.9
33 Erie	1,510.5	1,522.7	1,550.6	(1)	(1)	(1)	52.4	52.8	55.6	381.7	380.3	379.5
34 Harrisburg	108.5	110.2	114.9	(1)	(1)	(1)	3.3	3.3	4.1	41.9	42.8	43.8
35 Johnstown	202.8	207.9	214.5	(1)	(1)	(1)	9.0	9.0	9.6	39.4	40.0	41.4
36 Lancaster	87.8	87.7	85.8	9.2	9.0	7.9	3.0	3.0	2.9	22.1	21.2	20.1
37 Northeast Pennsylvania	134.8	140.8	147.5	(1)	(1)	(1)	6.7	7.3	8.0	54.1	56.8	59.2
38 Philadelphia SMSA	230.1	232.9	239.8	1.3	1.3	1.2	11.9	12.0	12.7	71.6	70.9	72.2
39 Philadelphia City <sup>12</sup>	1,803.9	1,827.3	1,872.4	(1)	(1)	(1)	64.5	64.8	69.1	446.1	446.3	448.9
40 Pittsburgh	805.3	789.2	798.2	(1)	(1)	(1)	17.3	16.2	17.6	158.7	153.7	151.5
41 Reading	901.8	909.1	933.0	11.5	11.0	10.0	42.8	42.9	49.0	248.6	249.2	250.3
42 Scranton <sup>13</sup>	129.6	131.9	134.8	(1)	(1)	(1)	4.4	4.5	5.1	49.9	51.2	52.8
43 Wilkes-Barre-Hazleton <sup>14</sup>	81.4	83.4	85.7	(1)	(1)	(1)	2.6	2.5	2.2	26.2	26.7	28.0
44 Williamsport	123.0	123.1	125.9	1.2	1.2	1.1	7.8	8.4	9.2	40.9	39.9	39.8
45 York	44.5	46.0	49.0	(1)	(1)	(1)	1.3	1.4	1.8	17.5	17.8	18.2
	138.1	142.0	150.4	(1)	(1)	(1)	6.1	6.4	6.8	58.0	59.6	63.7
<b>46 RHODE ISLAND</b>												
47 Providence-Warwick-Pawtucket	366.7	381.7	397.8	(1)	(1)	(1)	11.9	12.6	13.9	122.9	128.8	135.0
	379.0	391.4	409.0	(1)	(1)	(1)	12.3	12.8	14.0	138.1	144.3	151.3
<b>48 SOUTH CAROLINA</b>												
49 Charleston-North Charleston	1,038.1	1,081.6	1,133.8	1.8	1.8	1.9	61.5	65.8	68.6	371.0	380.1	390.2
50 Columbia	122.2	130.2	138.9	(1)	(1)	(1)	9.4	10.3	10.9	17.0	18.2	19.0
51 Greenville-Spartanburg	148.8	159.3	169.6	(1)	(1)	(1)	6.9	8.1	8.5	22.9	24.1	25.6
	234.8	242.0	253.3	(1)	(1)	(1)	13.4	13.8	15.3	101.6	102.3	104.2
<b>52 SOUTH DAKOTA</b>												
53 Rapid City	218.6	226.6	232.7	2.5	2.6	2.6	11.1	12.4	12.7	22.2	23.4	24.3
54 Sioux Falls	25.4	26.9	28.3	(2)	(2)	(2)	2.1	2.4	2.7	2.2	2.6	2.6
	46.7	49.8	52.5	(2)	(2)	(2)	2.5	3.0	3.5	6.5	6.9	7.2
<b>55 TENNESSEE</b>												
56 Chattanooga	1,575.4	1,648.1	1,708.3	9.4	9.9	10.4	73.8	78.4	85.4	486.1	507.5	522.3
57 Knoxville	159.6	164.2	167.8	1.1	1.3	1.3	5.9	6.1	7.2	55.5	56.1	55.7
58 Memphis	177.8	185.0	194.5	1.7	1.6	1.6	9.7	11.1	12.1	49.4	51.7	53.1
59 Nashville-Davidson	327.2	339.5	350.0	.2	.1	.2	14.6	14.4	13.6	57.6	60.6	63.6
	316.1	332.9	349.9	(1)	(1)	(1)	16.9	18.1	19.8	76.8	81.0	81.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	
3.4	3.5	3.4	16.0	16.2	16.7	2.2	2.2	2.4	15.7	16.1	16.5	19.4	19.7	20.7	1
13.5	14.0	14.4	54.1	55.1	57.4	14.4	14.8	15.1	45.3	47.3	50.2	46.3	46.5	48.3	2
3.9	3.9	4.0	20.7	20.9	21.6	5.1	5.3	5.4	18.5	19.1	19.6	29.2	29.2	29.6	3
17.4	17.7	17.6	72.4	74.4	78.2	15.9	16.4	16.6	74.3	77.5	80.9	50.4	51.5	53.8	4
99.1	103.4	107.6	402.8	421.9	441.4	82.6	84.5	86.1	284.1	300.6	315.0	351.9	374.4	396.3	5
3.3	3.4	3.5	12.9	13.4	13.8	2.3	2.3	2.2	10.6	11.6	12.1	9.7	10.2	11.1	6
25.7	27.2	28.7	67.6	70.8	75.5	17.7	18.8	19.7	40.8	43.5	45.8	32.9	34.0	35.8	7
19.3	19.7	20.4	68.6	72.0	75.1	16.0	16.6	17.2	46.4	49.9	53.3	41.0	42.4	44.0	8
10.1	10.8	12.0	44.1	46.1	47.9	13.3	13.8	14.5	44.6	48.0	50.8	61.1	64.5	69.0	9
13.2	13.8	14.7	60.7	62.3	64.7	9.1	9.9	10.5	41.2	42.8	45.0	56.2	57.5	58.5	10
3.5	3.7	4.0	17.4	18.2	18.7	3.2	3.4	3.6	11.5	12.1	12.8	11.5	11.5	12.0	11
213.7	219.1	225.1	890.8	917.7	954.5	177.0	183.4	191.2	703.2	732.1	770.5	632.2	639.9	653.4	12
14.1	14.3	14.3	54.8	56.4	58.6	8.4	8.9	9.2	42.6	45.1	46.8	39.8	41.2	42.1	13
7.0	7.2	7.2	31.1	31.8	33.4	5.3	5.4	5.6	24.7	25.5	27.0	16.8	17.1	16.9	14
30.8	31.5	33.1	124.9	130.2	137.1	28.9	29.9	30.5	100.3	106.4	114.0	78.6	79.3	82.2	15
45.9	46.0	47.3	196.5	201.7	208.5	44.1	44.8	45.7	160.4	168.0	177.4	117.7	118.6	117.4	16
22.4	23.4	24.8	109.6	112.1	118.2	30.7	31.5	34.0	86.6	90.2	95.5	94.7	96.4	98.3	17
12.0	12.0	12.8	69.1	71.7	74.5	11.2	11.8	12.5	60.4	62.2	65.6	62.9	62.6	64.7	18
18.6	19.5	20.4	64.4	65.5	67.8	9.2	9.7	10.0	51.5	53.4	55.5	42.1	43.7	44.2	19
9.6	9.9	10.1	43.3	44.1	45.6	6.5	6.6	6.8	32.7	33.8	35.0	24.0	24.8	25.2	20
57.3	59.3	61.1	222.2	232.0	245.3	46.6	48.5	50.4	151.4	157.9	169.8	207.0	212.4	218.3	21
19.5	20.5	21.6	79.1	83.0	88.0	20.3	21.3	22.7	52.8	56.6	61.5	77.9	80.7	86.7	22
18.7	19.6	20.4	60.2	63.6	66.3	13.0	13.2	13.5	45.8	48.4	51.9	24.7	26.8	28.6	23
51.2	53.7	56.8	210.9	225.7	244.7	51.9	57.6	63.8	151.1	162.6	173.7	181.6	186.8	196.6	24
4.6	4.8	5.1	21.6	23.3	25.6	4.2	4.6	5.1	14.9	16.9	18.4	20.3	20.8	22.3	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
30.7	32.1	33.8	117.1	124.1	134.6	33.5	37.2	40.7	90.7	96.2	101.4	75.2	76.6	80.4	27
2.5	3.0	3.2	14.9	16.6	18.0	4.2	4.7	5.3	11.4	12.6	13.8	24.1	25.8	26.5	28
256.5	261.4	264.7	919.3	939.0	969.6	211.4	217.5	226.2	839.7	862.4	887.5	722.1	711.2	718.0	29
12.9	12.8	13.5	44.9	46.9	48.9	7.7	8.0	8.3	38.1	38.9	38.5	34.4	32.7	30.4	30
7.8	8.2	8.2	11.0	11.1	11.6	1.4	1.3	1.3	7.8	8.0	8.3	7.5	7.2	7.2	31
81.2	82.7	83.6	315.8	322.6	329.2	97.4	100.1	103.9	337.5	347.0	359.9	244.5	237.1	238.9	32
5.2	5.2	5.2	21.2	21.6	22.7	4.3	4.3	4.5	18.6	19.4	19.7	14.1	13.6	14.9	33
14.7	15.3	15.9	40.8	42.2	44.4	10.9	11.4	11.9	33.6	34.9	35.3	54.4	55.1	56.0	34
5.6	5.5	5.3	16.2	16.6	16.6	3.3	3.4	3.5	14.4	14.8	14.9	14.1	14.1	14.5	35
5.7	6.1	6.4	29.3	31.0	33.0	4.2	4.5	5.1	21.4	21.0	20.5	13.5	14.0	15.2	36
11.9	12.3	13.0	47.7	49.4	51.7	8.7	8.7	9.1	39.5	40.2	41.0	37.4	38.0	38.9	37
96.4	97.5	99.3	393.3	402.2	412.6	111.2	114.9	119.0	392.0	405.9	423.3	300.4	295.7	300.2	38
55.2	56.2	56.4	153.3	151.7	152.9	65.4	65.7	68.1	197.7	196.1	203.3	157.7	149.7	148.4	39
57.0	57.2	57.5	193.9	197.3	206.5	40.9	42.1	43.4	180.8	189.5	195.9	126.3	120.0	120.4	40
6.4	6.4	6.3	24.2	25.7	26.6	5.1	5.2	5.6	20.9	21.4	21.7	18.7	17.6	16.6	41
4.4	4.5	4.5	18.3	18.9	19.3	3.0	3.1	3.3	15.7	16.0	16.4	11.1	11.8	12.0	42
6.0	6.3	6.6	24.9	25.7	27.3	4.9	4.8	5.0	17.3	17.4	17.7	20.0	19.5	19.1	43
2.1	2.4	2.5	8.6	8.9	10.0	1.8	1.8	1.9	7.5	7.6	7.5	5.7	6.2	7.1	44
6.4	6.6	7.0	28.5	29.7	31.1	3.2	3.4	3.8	18.8	18.8	19.3	17.1	17.4	18.8	45
13.3	13.3	13.3	74.3	77.4	79.7	18.2	19.1	19.8	69.1	72.3	75.4	57.0	58.2	60.7	46
13.3	13.1	13.2	75.8	77.9	80.8	18.3	19.2	20.1	67.5	69.2	72.1	53.7	54.9	57.5	47
42.7	45.1	49.0	147.6	199.5	212.0	39.7	41.5	43.7	130.5	134.1	145.0	203.3	213.7	223.5	48
7.2	7.5	8.4	26.1	28.1	30.0	4.9	5.4	5.8	18.5	19.4	21.2	39.1	41.3	43.6	49
8.1	8.4	8.6	30.9	33.7	37.2	11.1	12.0	12.8	22.2	23.9	25.4	46.5	49.2	51.6	50
9.3	9.7	10.0	43.0	45.4	49.0	8.2	8.5	8.7	31.3	31.2	32.8	28.0	31.2	33.4	51
12.1	12.6	13.2	60.6	62.3	63.4	9.5	10.1	10.9	44.7	46.6	48.3	55.9	56.6	57.3	52
1.6	1.8	1.9	7.3	7.8	8.2	1.2	1.3	1.4	5.5	5.7	6.0	5.5	5.4	5.5	53
4.1	4.3	4.8	14.9	15.6	15.6	2.5	3.0	3.2	10.0	10.7	11.6	6.2	6.3	6.6	54
73.7	78.3	82.1	339.5	357.2	369.0	69.3	71.1	73.0	240.5	254.5	263.8	283.1	291.2	302.3	55
6.3	6.6	6.7	29.7	30.6	30.7	8.5	8.7	9.3	24.4	25.3	26.1	28.2	29.5	30.8	56
7.3	7.3	7.6	37.6	38.7	41.3	6.7	7.1	7.7	26.1	27.5	29.7	39.3	40.0	41.4	57
22.0	23.8	25.3	87.9	90.8	93.9	18.2	18.7	18.8	62.6	65.9	67.4	64.1	65.2	67.2	58
16.2	17.5	18.8	69.1	74.3	79.3	19.9	20.3	21.8	59.3	62.3	65.6	57.9	59.4	62.7	59

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978
1 TEXAS .....	4,683.7	4,906.8	5,237.9	139.9	159.3	181.0	320.4	345.8	378.3	862.3	893.5	954.1
2 Amarillo .....	66.0	68.6	71.1	(1)	(1)	(1)	4.1	4.2	4.8	8.8	8.5	8.5
3 Austin .....	188.2	200.9	215.6	(1)	(1)	(1)	10.2	11.3	12.7	19.6	22.8	25.6
4 Beaumont-Port Arthur-Orange .....	138.1	142.8	145.4	(1)	(1)	(1)	15.5	16.6	14.6	41.1	40.0	41.4
5 Corpus Christi .....	102.2	104.3	111.0	3.8	4.5	5.0	11.0	8.8	11.3	12.8	13.1	13.9
6 Dallas-Fort Worth .....	1,131.2	1,196.7	1,281.7	12.9	15.5	18.9	49.6	57.8	66.8	251.3	267.3	285.5
7 El Paso .....	140.4	141.4	149.2	(1)	(1)	(1)	6.8	8.2	8.9	31.6	28.9	30.4
8 Galveston-Texas City .....	65.3	65.3	66.9	(1)	(1)	(1)	6.4	4.8	4.8	11.7	11.9	11.9
9 Houston .....	1,097.5	1,173.6	1,262.1	46.7	54.0	61.6	115.6	125.4	136.2	188.2	195.1	208.6
10 Lubbock .....	76.7	81.9	86.9	(1)	(1)	(1)	4.4	4.7	5.1	10.7	12.5	12.9
11 San Antonio .....	331.6	344.9	363.4	1.7	1.8	1.9	18.6	20.9	23.7	40.7	42.3	46.3
12 Waco .....	60.6	63.4	65.6	(1)	(1)	(1)	2.9	3.2	3.5	14.2	15.0	15.8
13 Wichita Falls .....	45.7	47.5	49.3	2.3	2.5	2.6	2.5	2.4	2.4	7.5	8.1	9.0
14 UTAH .....	462.8	488.7	525.1	14.0	14.9	15.8	27.9	31.8	35.1	70.7	74.5	79.6
15 Salt Lake City-Ogden .....	332.2	349.2	373.6	6.4	6.4	7.0	19.2	22.0	24.1	47.5	50.0	53.5
16 VERMONT .....	168.4	178.4	189.3	.7	.7	.7	7.8	8.2	9.5	41.0	43.4	47.4
17 Burlington <sup>15</sup> .....	43.6	46.6	50.5	-	-	-	-	-	-	9.8	10.8	12.4
18 Springfield <sup>15</sup> .....	12.4	13.1	13.9	-	-	-	-	-	-	5.2	5.4	5.8
19 VIRGINIA .....	1,848.1	1,930.6	2,035.7	21.8	22.0	20.7	111.8	119.0	131.3	387.7	401.0	408.1
20 Bristol .....	24.5	25.1	27.2	(1)	(1)	(1)	1.0	1.1	1.4	8.7	8.8	9.6
21 Lynchburg .....	61.2	64.4	68.6	(1)	(1)	(1)	2.7	3.0	3.4	26.9	28.0	29.1
22 Newport News-Hampton .....	135.5	139.3	144.6	(1)	(1)	(1)	6.5	6.2	7.8	32.8	34.6	34.0
23 Norfolk-Virginia Beach-Portsmouth .....	251.2	260.9	276.7	(1)	(1)	(1)	15.2	16.6	18.8	26.2	27.5	28.9
24 Northern Virginia <sup>16</sup> .....	362.0	380.4	404.7	.3	.3	.3	24.1	25.8	27.7	13.5	14.3	15.4
25 Petersburg-Colonial Hgts.-Hopewell .....	43.8	44.6	46.6	(1)	(1)	(1)	2.2	2.3	2.5	12.8	12.6	12.0
26 Richmond .....	286.9	296.6	314.2	.3	.3	.4	16.0	17.1	19.0	51.8	52.0	53.5
27 Roanoke .....	97.3	99.7	103.2	.2	.2	.2	5.4	5.7	5.9	21.3	21.0	21.2
28 WASHINGTON .....	1,283.1	1,367.0	1,497.3	2.1	2.3	2.8	67.0	77.6	94.8	247.4	260.0	285.4
29 Seattle-Everett .....	587.9	628.9	702.3	(1)	(1)	(1)	25.9	31.2	40.5	119.7	126.1	147.1
30 Spokane .....	108.2	114.1	123.8	(1)	(1)	(1)	5.9	6.6	7.6	14.6	15.7	17.7
31 Tacoma .....	120.3	125.6	133.9	(1)	(1)	(1)	5.9	6.7	8.4	20.3	20.5	21.7
32 WEST VIRGINIA .....	596.3	611.6	613.5	68.6	66.7	58.7	33.2	39.0	40.6	124.4	123.8	124.6
33 Charleston .....	105.8	109.9	108.6	6.2	6.1	5.5	6.9	7.5	6.6	19.2	19.7	19.6
34 Huntington-Ashland .....	99.2	102.1	102.7	.8	1.0	.8	6.3	6.7	6.4	28.9	29.3	29.0
35 Parkersburg-Marietta .....	52.7	54.7	56.3	.4	.5	.5	2.7	3.3	3.5	16.7	17.2	17.9
36 Wheeling .....	63.9	64.8	63.7	7.2	6.8	5.7	3.2	3.7	3.7	13.5	13.9	13.5
37 WISCONSIN .....	1,725.9	1,799.4	1,879.0	2.5	2.6	2.6	64.7	73.7	83.4	519.4	540.4	562.1
38 Appleton-Oshkosh .....	110.2	116.3	121.3	(1)	(1)	(1)	5.3	5.9	6.3	42.2	44.5	47.5
39 Eau Claire .....	39.6	43.2	44.2	(1)	(1)	(1)	1.7	1.8	1.8	8.3	9.4	9.0
40 Green Bay .....	67.9	72.5	75.1	(1)	(1)	(1)	3.1	3.6	3.7	20.0	20.7	21.1
41 Kenosha .....	40.1	40.7	41.9	(1)	(1)	(1)	1.1	1.3	1.4	16.7	16.1	16.7
42 La Crosse .....	36.7	39.3	41.0	(1)	(1)	(1)	1.4	1.6	1.7	9.6	9.8	10.4
43 Madison .....	143.6	151.8	158.5	(1)	(1)	(1)	6.3	7.1	7.7	17.3	18.7	19.4
44 Milwaukee .....	605.8	629.5	651.1	(1)	(1)	(1)	19.8	22.6	23.9	197.2	201.2	208.4
45 Racine .....	63.8	66.8	69.6	(1)	(1)	(1)	1.8	2.1	2.5	27.5	29.1	30.5
46 WYOMING .....	156.5	170.5	188.6	20.7	25.3	28.9	14.9	17.0	21.5	8.4	9.0	9.4
47 Casper .....	27.6	30.9	36.4	5.0	5.9	7.3	2.3	2.9	3.7	1.6	1.7	1.7
48 Cheyenne .....	23.8	24.6	25.9	(1)	(1)	(1)	1.6	1.8	2.0	1.5	1.6	1.5

1 Combined with services.  
2 Combined with construction.  
3 Area included in Chicago-Gary Standard Consolidated Statistical Area.  
4 Data for 1976 not strictly comparable with later years due to change in area definition.  
5 Based on 1977 benchmark; not strictly comparable with data published in table B-8.  
6 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
7 Subarea of New York-Northeastern New Jersey.  
8 Subarea of Rochester Standard Metropolitan Statistical Area.  
9 Area included in New York and Nassau-Suffolk combined SMSA's.  
10 Subarea of New York Standard Metropolitan Statistical Area.  
11 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

12 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.  
13 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.  
14 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
15 Total includes data for industry divisions not shown separately.  
16 Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.  
\* Not available.  
† Data for 1976 not strictly comparable with later years.

SOURCE: Cooperating State agencies listed on inside back cover.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	1976	1977	1978	
294.3	308.8	330.8	1,161.4	1,210.5	1,279.8	258.7	276.5	294.9	799.7	836.9	888.3	847.0	875.5	930.7	1
6.3	6.6	6.7	20.1	21.1	21.8	3.2	3.5	3.6	12.5	13.4	13.9	11.0	11.4	11.8	2
5.9	6.2	6.6	39.5	42.0	44.3	10.6	11.9	12.9	31.5	32.9	35.7	70.9	73.8	77.8	3
9.7	10.5	10.7	28.3	30.3	31.6	4.8	5.1	5.3	20.9	22.2	23.5	17.8	18.1	18.3	4
5.8	6.2	6.4	25.2	26.1	26.3	4.8	5.2	5.2	16.2	16.8	17.4	22.6	23.6	25.5	5
75.4	78.2	82.6	307.0	321.9	338.0	83.2	88.6	94.5	197.5	206.4	223.9	154.3	161.0	171.5	6
9.8	9.9	10.1	35.5	35.7	37.2	6.3	6.6	6.8	22.3	23.4	24.6	28.1	28.7	31.2	7
5.5	6.1	6.3	11.5	12.1	12.8	4.2	4.3	4.3	9.7	10.1	10.4	16.3	15.9	16.4	8
79.5	85.8	93.3	269.9	285.8	302.0	62.9	68.3	74.6	209.8	227.0	244.4	124.9	132.2	141.4	9
4.6	4.7	5.0	23.8	24.6	25.6	3.7	4.0	4.3	13.5	14.3	15.3	16.0	17.1	18.7	10
14.4	15.0	15.6	84.7	87.8	90.9	21.6	22.8	24.1	61.7	64.5	68.0	88.2	89.8	92.9	11
3.0	3.1	3.2	13.8	14.7	15.1	3.5	3.6	3.7	12.4	12.8	13.1	10.8	11.0	11.2	12
2.3	2.3	2.4	11.7	12.0	12.2	2.0	2.1	2.2	6.8	7.2	7.4	10.6	10.9	11.1	13
28.1	29.2	31.9	112.0	117.8	128.0	20.6	22.3	24.4	77.4	82.3	90.9	112.2	115.8	119.4	14
22.4	23.1	25.3	83.5	87.9	95.1	17.1	18.4	19.8	53.2	56.6	62.5	82.9	84.7	86.3	15
8.2	8.4	8.7	35.0	36.3	39.1	6.8	7.0	7.4	38.2	40.1	41.7	30.9	34.3	34.8	16
2.0	2.1	2.2	9.5	9.8	10.8	-	-	-	9.3	10.0	10.3	-	-	-	17
.7	.7	.7	2.0	2.1	2.1	-	-	-	2.3	2.4	2.6	-	-	-	18
104.4	105.9	107.0	386.7	405.6	429.8	86.3	91.7	96.7	312.8	331.8	357.6	436.6	453.6	484.5	19
.9	.9	1.0	5.9	6.2	6.3	.9	.8	.9	3.1	3.0	3.2	4.0	4.3	4.8	20
2.6	2.6	2.5	10.0	10.6	11.4	2.7	2.9	3.1	8.2	8.6	9.5	8.1	8.7	9.6	21
4.6	4.6	4.7	25.1	25.8	27.1	4.3	4.6	4.8	24.7	25.2	26.3	37.5	38.3	39.9	22
17.6	17.7	17.7	60.5	63.5	67.1	12.9	13.3	14.2	43.9	46.5	50.3	74.9	75.8	79.7	23
25.7	26.0	27.0	86.1	90.8	96.8	21.2	23.6	24.9	82.8	89.3	98.0	108.3	110.3	114.6	24
1.4	1.3	1.4	7.9	8.2	8.7	1.1	1.1	1.2	5.1	5.1	5.7	13.3	14.0	15.1	25
17.9	18.2	18.8	66.2	68.5	72.9	22.0	23.3	24.4	49.0	50.9	54.6	63.7	66.3	70.6	26
10.1	9.9	9.1	23.4	24.5	25.6	5.3	5.5	5.7	17.8	18.1	19.0	13.8	14.8	16.5	27
75.4	78.9	85.0	306.8	329.0	364.7	68.2	75.0	84.4	231.4	249.3	276.1	284.8	294.9	304.2	28
42.3	44.1	47.1	144.2	155.8	172.2	40.4	44.4	49.7	109.3	119.2	131.6	106.1	108.1	114.1	29
7.3	7.5	7.8	30.0	31.5	34.0	6.9	7.3	7.9	24.2	25.3	27.7	19.3	20.2	21.1	30
5.7	6.0	6.4	28.2	29.7	32.0	5.7	6.1	6.7	24.4	25.9	27.8	30.1	30.7	30.9	31
39.6	40.7	39.5	117.8	123.4	126.5	18.9	20.0	20.5	84.1	86.9	88.1	109.6	111.0	115.0	32
9.0	9.2	9.3	24.0	25.3	25.5	4.6	4.8	4.9	17.3	18.5	18.5	18.7	18.7	18.8	33
9.3	9.4	8.9	20.4	21.7	22.8	3.4	3.5	3.7	13.6	13.9	14.1	16.6	16.7	17.0	34
2.4	2.5	2.5	11.5	11.8	12.1	1.8	1.9	1.9	8.0	8.2	8.4	9.2	9.5	9.6	35
3.6	3.7	3.7	13.9	14.3	14.7	2.5	2.4	2.4	12.2	12.4	12.6	7.7	7.5	7.5	36
82.6	85.4	87.1	388.8	410.3	428.7	77.0	81.0	85.6	302.4	319.0	335.5	283.6	287.1	294.2	37
4.1	4.2	4.1	22.4	24.0	24.8	4.3	4.5	4.7	17.2	18.3	19.1	14.8	14.8	14.8	38
1.9	2.4	2.5	9.9	11.0	11.5	1.3	1.3	1.4	7.6	8.4	9.0	8.8	8.8	9.0	39
4.5	5.2	5.2	16.4	17.8	19.0	2.0	2.3	2.6	12.2	13.1	13.3	9.6	9.8	10.1	40
1.4	1.6	1.9	7.6	7.9	8.0	.8	.9	.9	6.7	7.2	7.1	5.8	5.8	5.8	41
2.1	2.3	2.4	9.7	10.5	10.9	.8	1.0	.9	7.5	8.3	8.6	5.6	5.9	6.1	42
5.3	5.7	5.7	30.4	32.7	34.9	9.4	10.5	11.5	24.6	26.4	27.3	50.4	50.7	52.1	43
30.7	31.9	32.7	134.1	142.7	146.7	32.6	34.3	35.4	115.7	123.0	129.7	75.6	73.7	74.4	44
2.3	2.3	2.4	12.1	12.4	12.7	1.8	2.0	2.1	9.9	10.5	10.7	8.4	8.5	8.7	45
12.8	13.3	14.5	35.1	38.1	42.9	5.1	5.7	6.5	23.4	24.1	26.7	36.1	38.0	38.2	46
2.0	2.2	2.5	7.0	8.2	10.0	1.2	1.3	1.4	4.0	4.2	5.2	4.5	4.5	4.6	47
3.2	3.2	3.5	5.6	5.9	6.5	1.3	1.4	1.5	3.8	3.9	4.1	6.8	6.7	6.8	48

NOTE: Data are adjusted to 1978 benchmark levels except for the following: Illinois and areas (1977); Massachusetts and areas (1977); Michigan and areas (1978); St. Louis, Missouri (1977); New Jersey and areas (1977); New York-Northeastern New Jersey (1977); West Virginia and areas (December 1977) and Wisconsin and areas (December 1977).

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

**2. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>ALABAMA</b>	\$181.08	\$198.04	\$219.24	40.6	40.5	40.6	\$4.46	\$4.89	\$5.40
Birmingham	220.04	234.77	257.92	40.3	40.2	40.3	5.46	5.84	6.40
Mobile	214.93	246.61	266.98	40.4	42.3	41.2	5.32	5.83	6.48
<b>ALASKA</b>	316.71	394.90	(*)	40.5	43.3	(*)	7.82	9.12	(*)
<b>ARIZONA</b>	205.00	222.56	243.01	39.5	40.1	40.3	5.19	5.55	6.03
Phoenix	203.42	221.90	244.02	39.5	40.2	40.4	5.15	5.52	6.04
Tucson	208.94	219.74	225.61	39.2	39.1	39.1	5.33	5.62	5.77
<b>ARKANSAS</b>	154.84	170.71	185.50	39.6	39.7	39.3	3.91	4.30	4.72
Fayetteville-Springdale	143.24	155.22	168.67	39.9	39.8	39.5	3.59	3.90	4.27
Fort Smith	155.99	171.77	193.94	38.9	38.6	39.1	4.01	4.45	4.96
Little Rock-North Little Rock	176.12	197.69	212.07	39.4	40.1	39.2	4.47	4.93	5.41
Pine Bluff	193.23	211.74	246.69	41.2	41.6	41.6	4.69	5.09	5.93
<b>CALIFORNIA</b>	221.92	240.60	257.84	39.7	40.1	40.1	5.59	6.00	6.43
Anaheim-Santa Ana-Garden Grove	207.72	222.75	240.54	40.1	40.5	40.7	5.18	5.50	5.91
Bakersfield	235.42	248.35	271.55	39.7	39.8	39.7	5.93	6.24	6.84
Fresno	201.76	216.76	231.67	39.1	39.7	39.2	5.16	5.46	5.91
Los Angeles-Long Beach	206.96	224.72	241.38	39.8	40.2	40.5	5.20	5.59	5.96
Modesto	216.06	240.58	256.71	39.0	39.7	39.8	5.54	6.06	6.45
Oxnard-Simi Valley-Ventura	195.00	202.93	220.25	39.0	39.1	39.4	5.00	5.19	5.59
Riverside-San Bernardino-Ontario	230.62	242.59	265.86	39.9	39.9	40.1	5.78	6.08	6.63
Sacramento	239.95	259.12	277.38	39.4	39.5	39.4	6.09	6.56	7.04
Salinas-Seaside-Monterey	206.72	224.79	247.15	38.0	38.1	38.2	5.44	5.90	6.47
San Diego	215.81	230.29	242.35	38.4	38.9	38.9	5.62	5.92	6.23
San Francisco-Oakland	269.39	291.67	310.44	39.5	39.9	39.8	6.82	7.31	7.80
San Jose	241.79	260.18	276.34	39.9	40.4	40.4	6.06	6.44	6.84
Santa Barbara-Santa Maria-Lompoc	197.61	213.19	224.91	38.9	39.7	37.8	5.08	5.37	5.95
Santa Rosa	208.30	220.02	232.99	37.6	38.0	37.7	5.54	5.79	6.18
Stockton	244.33	265.73	281.95	39.6	39.9	39.6	6.17	6.66	7.12
Vallejo-Fairfield-Napa	230.89	239.40	268.19	38.1	38.0	38.7	6.06	6.30	6.93
<b>COLORADO</b>	(*)	228.52	244.45	(*)	39.4	39.3	(*)	5.80	6.22
Denver-Boulder	(*)	223.83	240.07	(*)	39.2	39.1	(*)	5.71	6.14
<b>CONNECTICUT</b>	208.90	230.74	250.32	40.8	41.5	42.0	5.12	5.56	5.96
Bridgport	260.39	237.71	263.61	41.9	42.6	43.5	5.26	5.58	6.06
Hartford	232.96	254.58	275.63	41.6	42.5	42.8	5.60	5.99	6.44
New Britain	212.79	239.98	257.98	41.0	42.4	42.5	5.19	5.66	6.07
New Haven-West Haven	207.43	228.07	249.67	40.2	40.8	41.2	5.16	5.59	6.06
Stamford	216.42	235.20	250.62	41.7	42.0	41.7	5.19	5.60	6.01
Waterbury	180.78	197.30	216.11	40.9	41.8	41.8	4.42	4.72	5.17
<b>DELAWARE</b>	220.40	235.22	263.60	40.0	39.6	40.0	5.51	5.94	6.59
Wilmington	249.42	271.20	295.71	40.1	40.0	39.8	6.22	6.78	7.43
<b>DISTRICT OF COLUMBIA</b>									
Washington SMSA	209.98	211.20	262.75	38.6	38.4	39.1	5.44	5.50	6.72
<b>FLORIDA</b>	176.14	188.44	205.91	40.4	40.7	41.1	4.36	4.63	5.01
Fort Lauderdale-Hollywood	174.12	185.73	193.26	40.4	41.0	40.6	4.31	4.53	4.76
Jacksonville	218.06	223.45	251.26	41.3	41.0	42.3	5.28	5.45	5.94
Miami	153.26	161.57	175.20	39.5	39.6	40.0	3.88	4.08	4.38
Orlando	183.37	203.50	223.97	41.3	41.7	42.1	4.44	4.88	5.32
Pensacola	218.08	238.57	265.98	42.1	42.3	42.9	5.18	5.64	6.20
Tampa-St. Petersburg	183.82	197.55	211.56	40.4	40.9	41.0	4.55	4.83	5.16
West Palm Beach-Boca Raton	217.58	226.08	240.07	43.0	42.1	43.1	5.06	5.37	5.57
<b>GEORGIA</b>	164.41	180.63	195.69	40.1	40.5	40.1	4.10	4.46	4.88
Atlanta	201.16	219.37	227.55	39.6	40.4	39.3	5.08	5.43	5.79
Savannah	222.13	239.33	267.07	42.8	43.2	42.8	5.19	5.54	6.24
<b>HAWAII</b>	200.46	209.38	227.74	39.0	38.0	38.6	5.14	5.51	5.90
Honolulu	193.29	206.42	222.05	38.2	37.6	37.7	5.06	5.49	5.89
<b>IDAHO</b>	204.72	228.73	253.36	38.7	39.3	38.8	5.29	5.82	6.53
Boise City	193.12	207.50	233.09	39.9	39.6	38.4	4.84	5.24	6.07

See footnotes at end of table.

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

**2. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>ILLINOIS</b> .....	\$236.11	\$254.91	\$271.42	40.4	40.6	40.1	\$5.85	\$6.28	\$6.76
Bloomington—Normal .....	(*)	192.02	234.46	(*)	37.7	39.7	(*)	5.10	5.90
Champaign—Urbana—Rantoul .....	(*)	240.12	253.67	(*)	39.7	38.8	(*)	6.05	6.54
Chicago SMSA .....	241.92	258.92	268.97	40.7	41.5	40.9	5.94	6.24	6.58
Davenport—Rock Island—Moline .....	(*)	271.57	277.27	(*)	40.6	38.2	(*)	6.69	7.25
Decatur .....	(*)	275.01	302.10	(*)	44.6	41.7	(*)	6.17	7.24
Peoria .....	(*)	287.52	317.44	(*)	38.0	38.2	(*)	7.66	8.31
Rockford .....	(*)	253.95	282.70	(*)	42.0	42.3	(*)	6.05	6.68
Springfield .....	(*)	294.24	306.86	(*)	42.8	42.3	(*)	6.88	7.25
<b>INDIANA</b> .....	243.60	271.92	295.40	40.6	41.2	41.2	6.00	6.60	7.17
Gary—Hammond—East Chicago .....	310.49	344.81	395.12	40.8	41.0	41.9	7.61	8.44	9.43
Indianapolis .....	244.39	282.15	297.20	40.8	41.8	41.8	5.98	6.75	7.41
<b>IOWA</b> .....	233.42	257.84	280.70	39.9	40.1	40.1	5.85	6.43	7.00
Cedar Rapids .....	243.76	254.47	287.16	40.9	40.2	41.2	5.96	6.83	6.97
Des Moines .....	242.65	267.33	281.82	39.2	38.8	38.5	6.19	6.89	7.32
Dubuque .....	277.54	321.98	338.08	39.2	40.5	40.2	7.08	7.95	8.41
Sioux City .....	214.09	212.80	249.71	39.5	38.0	39.7	5.42	5.60	6.29
Waterloo—Cedar Falls .....	287.83	334.02	372.75	39.7	41.7	42.6	7.25	8.01	8.75
<b>KANSAS</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Topeka .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Wichita .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>KENTUCKY</b> .....	202.52	224.75	247.90	39.4	39.5	39.6	5.14	5.69	6.26
Louisville .....	235.60	260.90	283.61	40.0	40.2	40.4	5.89	6.49	7.02
<b>LOUISIANA</b> .....	220.13	240.35	267.07	41.3	41.8	41.6	5.33	5.75	6.42
Baton Rouge .....	277.10	303.02	338.09	42.5	42.8	43.4	6.52	7.08	7.79
New Orleans .....	215.47	233.74	253.04	40.2	40.3	39.6	5.36	5.80	6.29
Shreveport .....	191.70	216.42	237.63	40.7	41.7	40.9	4.71	5.19	5.81
<b>MAINE</b> .....	165.98	179.90	197.38	39.9	39.8	40.2	4.16	4.52	4.91
Lewiston—Auburn .....	138.48	143.99	160.09	38.9	37.4	38.3	3.56	3.85	4.18
Portland .....	172.30	182.62	198.09	39.7	39.7	40.1	4.34	4.60	4.94
<b>MARYLAND</b> .....	218.59	241.40	262.00	39.6	39.9	40.0	5.52	6.05	6.55
Baltimore .....	232.00	254.06	276.74	40.0	40.2	40.4	5.80	6.32	6.86
<b>MASSACHUSETTS</b> .....	190.16	204.69	222.71	39.7	39.9	40.2	4.79	5.13	5.54
Boston .....	208.82	225.60	244.21	39.7	40.0	40.1	5.26	5.64	6.09
Brockton .....	152.78	159.38	173.74	38.1	37.5	38.1	4.01	4.25	4.56
Fall River .....	134.85	143.97	158.92	35.3	35.2	36.2	3.82	4.09	4.39
Lawrence—Haverhill .....	182.75	200.59	215.60	39.3	39.8	39.2	4.65	5.04	5.50
Lowell .....	167.96	175.63	193.85	38.7	38.6	39.4	4.34	4.55	4.92
New Bedford .....	167.59	169.65	188.86	37.7	37.7	38.7	4.18	4.50	4.88
Springfield—Chicopee—Holyoke .....	194.95	215.69	227.98	40.7	41.4	41.3	4.79	5.21	5.52
Worcester .....	189.82	210.40	231.24	39.3	40.0	40.8	4.83	5.26	5.67
<b>MICHIGAN</b> .....	290.97	326.27	349.50	42.7	43.3	43.0	6.81	7.54	8.13
Ann Arbor .....	318.60	363.67	390.05	43.6	44.6	44.4	7.29	8.15	8.78
Battle Creek .....	283.57	306.19	336.99	41.7	41.4	41.8	6.81	7.40	8.06
Bay City .....	310.01	347.52	330.21	47.6	48.1	43.3	6.51	7.23	7.63
Detroit .....	310.44	349.78	381.23	42.9	43.5	43.5	7.23	8.04	8.76
Flint .....	344.05	391.53	410.57	45.7	46.6	45.7	7.52	8.40	8.98
Grand Rapids .....	229.55	256.26	273.90	40.7	41.6	41.4	5.64	6.16	6.62
Jackson .....	244.93	272.56	308.04	40.9	41.9	43.3	5.99	6.51	7.11
Kalamazoo—Portage .....	254.64	279.17	297.37	41.4	41.5	41.0	6.15	6.73	7.25
Lansing—East Lansing .....	314.37	340.51	357.56	43.9	43.7	42.1	7.16	7.79	8.49
Muskegon—Norton Shores—Muskegon Heights .....	244.89	270.90	292.49	41.3	42.0	41.5	5.93	6.45	7.05
Bay City .....	344.13	388.82	418.84	44.4	45.7	45.3	7.75	8.51	9.25
<b>MINNESOTA</b> .....	220.09	238.80	258.89	39.8	40.0	40.2	5.53	5.97	6.44
Duluth—Superior .....	199.02	216.61	(*)	39.1	39.1	(*)	5.09	5.54	(*)
Minneapolis—St. Paul .....	235.57	257.75	278.80	40.2	40.4	40.7	5.86	6.38	6.85
<b>MISSISSIPPI</b> .....	153.20	166.42	181.94	40.0	40.1	39.9	3.83	4.15	4.56
Jackson .....	158.39	184.09	203.61	40.2	41.0	41.3	3.94	4.49	4.93

See footnotes at end of table.

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

**2. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>MISSOURI</b> .....	\$206.96	\$231.15	\$248.40	39.8	40.2	40.0	\$5.20	\$5.75	\$6.21
Kansas City .....	236.52	263.04	281.48	40.5	41.1	40.5	5.84	6.40	6.95
St. Joseph .....	195.77	212.13	224.58	40.4	40.1	39.4	4.87	5.29	5.70
St. Louis .....	243.05	268.79	289.87	40.4	41.1	41.0	6.01	6.54	7.07
Springfield .....	173.26	189.83	207.48	39.2	38.9	39.0	4.42	4.88	5.32
<b>MONTANA</b> .....	236.01	272.95	333.49	39.8	41.8	42.7	5.93	6.53	7.81
<b>NEBRASKA</b> .....	202.57	219.91	239.84	41.1	40.8	41.0	4.93	5.39	5.84
Lincoln .....	191.20	210.43	232.74	39.1	38.4	38.6	4.89	5.48	6.02
Omaha .....	224.03	238.79	258.18	42.0	41.1	41.0	5.33	5.81	6.30
<b>NEVADA</b> .....	218.23	236.68	251.79	38.9	38.8	38.5	5.61	6.10	6.54
Las Vegas .....	269.84	301.26	318.00	40.7	41.1	39.8	6.63	7.33	7.99
<b>NEW HAMPSHIRE</b> .....	168.70	182.40	(*)	39.6	40.0	(*)	4.26	4.56	(*)
Manchester .....	151.71	162.66	(*)	38.8	39.1	(*)	3.91	4.16	(*)
Nashua .....	189.74	207.33	(*)	40.2	41.3	(*)	4.72	5.02	(*)
<b>NEW JERSEY</b> .....	215.67	239.79	255.44	40.3	41.3	41.2	5.35	5.80	6.20
Atlantic City .....	168.70	186.29	179.48	37.6	37.5	38.2	4.49	4.96	4.70
Camden <sup>1</sup> .....	200.21	228.51	249.86	39.4	40.1	40.5	5.09	5.69	6.17
Hackensack <sup>2</sup> .....	209.05	226.91	244.96	40.9	42.3	42.7	5.11	5.37	5.73
Jersey City <sup>2</sup> .....	207.43	230.15	248.65	38.8	40.2	40.0	5.34	5.73	6.21
New Brunswick—Perth Amboy—Sayreville <sup>2</sup> .....	236.69	259.15	273.12	41.3	42.1	40.8	5.73	6.16	6.69
Newark <sup>2</sup> .....	221.76	246.66	257.49	40.7	41.9	41.6	5.44	5.89	6.18
Paterson—Clifton—Passaic <sup>2</sup> .....	209.31	225.86	242.81	41.2	40.8	40.9	5.08	5.54	5.94
Trenton .....	221.94	251.37	261.73	40.9	41.6	40.5	5.42	6.04	6.46
<b>NEW MEXICO</b> .....	160.77	171.88	187.77	39.5	38.8	39.2	4.07	4.43	4.79
Albuquerque .....	162.76	175.11	188.97	39.6	39.0	39.7	4.11	4.49	4.76
<b>NEW YORK</b> .....	207.64	224.63	241.98	39.4	39.6	39.8	5.27	5.67	6.08
Albany—Schenectady—Troy .....	227.00	245.83	263.81	40.9	40.7	40.4	5.55	6.04	6.53
Binghamton .....	195.91	202.71	226.05	40.9	40.3	41.1	4.79	5.03	5.50
Buffalo .....	269.86	304.08	322.92	41.2	42.0	41.4	6.55	7.24	7.80
Elmira .....	203.89	222.86	242.61	39.9	40.3	40.3	5.11	5.53	6.02
Monroe County .....	269.22	292.88	316.68	42.0	41.9	42.0	6.41	6.99	7.54
Nassau—Suffolk <sup>4</sup> .....	198.47	215.17	224.97	39.3	39.7	39.4	5.05	5.42	5.71
New York—Northwestern New Jersey .....	200.07	216.46	229.89	39.0	39.5	39.5	5.13	5.48	5.82
New York and Nassau—Suffolk <sup>2</sup> .....	185.86	197.84	209.38	37.7	37.9	38.0	4.93	5.22	5.51
New York SMSA <sup>4</sup> .....	184.38	196.65	205.84	37.4	37.6	37.7	4.93	5.23	5.46
New York City <sup>15</sup> .....	182.65	193.07	202.00	37.2	37.2	37.2	4.91	5.19	5.43
Poughkeepsie .....	218.92	235.19	249.57	41.7	42.3	42.3	5.25	5.56	5.90
Rochester .....	254.18	276.47	297.74	41.6	41.7	41.7	6.11	6.63	7.14
Rockland County <sup>5</sup> .....	206.57	222.60	242.28	41.9	42.0	41.7	4.93	5.30	5.81
Syracuse .....	227.28	251.93	271.41	41.1	41.3	41.5	5.53	6.10	6.54
Utica—Rome .....	198.09	213.59	232.23	40.1	40.3	40.6	4.94	5.30	5.72
Westchester County <sup>5</sup> .....	198.18	220.70	240.02	39.4	40.2	41.1	5.03	5.49	5.84
<b>NORTH CAROLINA</b> .....	149.33	162.36	177.51	39.4	39.6	39.8	3.79	4.10	4.47
Asheville .....	146.59	160.39	175.60	39.3	39.8	40.0	3.73	4.03	4.39
Charlotte—Gastonia .....	153.90	167.28	183.64	40.5	40.8	40.9	3.80	4.10	4.49
Greensboro—Winston-Salem—High Point .....	162.72	176.22	192.55	39.4	39.6	39.7	4.13	4.45	4.85
Raleigh—Durham .....	166.99	182.75	200.40	39.2	39.3	40.0	4.26	4.65	5.01
<b>NORTH DAKOTA</b> .....	185.73	200.33	219.94	39.1	38.6	39.7	4.75	5.19	5.54
Fargo—Moorhead .....	203.09	215.34	238.55	39.9	38.8	39.3	5.09	5.55	6.07
<b>OHIO</b> .....	252.54	283.08	306.91	41.4	42.0	42.1	6.10	6.74	7.29
Akron .....	252.44	285.53	304.14	42.1	42.3	42.3	6.02	6.75	7.19
Canton .....	244.73	273.14	304.67	39.6	39.7	40.3	6.18	6.88	7.56
Cincinnati .....	232.22	260.83	286.70	41.1	41.6	42.1	5.65	6.27	6.81
Cleveland .....	260.62	292.75	321.75	41.9	42.8	42.9	6.22	6.84	7.50
Columbus .....	226.16	245.02	264.62	40.1	40.3	40.4	5.64	6.08	6.55
Dayton .....	271.30	301.02	315.86	43.2	43.5	42.8	6.28	6.92	7.38
Toledo .....	262.28	298.90	319.27	41.5	42.7	42.4	6.32	7.00	7.53
Youngstown—Warren .....	273.29	313.50	353.56	39.5	40.4	41.4	7.02	7.76	8.54

See footnotes at end of table.

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

**2. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>OKLAHOMA</b> .....	\$194.27	\$214.52	\$233.56	40.3	40.4	40.2	\$4.82	\$5.31	\$5.81
Oklahoma City .....	194.80	212.22	230.00	40.5	40.5	40.0	4.81	5.24	5.75
Tulsa .....	211.58	229.77	248.40	40.3	40.1	40.0	5.25	5.73	6.21
<b>OREGON</b> .....	236.12	257.46	281.97	38.9	38.6	39.0	6.07	6.67	7.23
Eugene—Springfield .....	256.77	280.89	315.09	40.5	40.3	40.5	6.34	6.97	7.78
Jackson County .....	237.29	261.58	285.64	38.9	39.1	38.6	6.10	6.69	7.40
Portland .....	231.81	247.04	266.19	38.7	38.3	38.3	5.99	6.45	6.95
<b>PENNSYLVANIA</b> .....	210.11	†231.08	254.80	39.2	†39.5	40.0	5.36	†5.85	6.37
Allentown—Bethlehem—Easton .....	206.50	225.76	248.30	38.1	38.2	38.2	5.42	5.91	6.50
Altoona .....	172.97	190.12	208.79	38.1	38.1	38.1	4.54	4.99	5.48
Delaware Valley <sup>6</sup> .....	222.78	240.98	262.94	39.5	39.7	39.9	5.64	6.07	6.59
Erie .....	217.08	242.67	263.33	40.2	41.2	41.6	5.40	5.89	6.33
Harrisburg .....	187.29	206.19	229.25	39.1	39.5	39.8	4.79	5.22	5.76
Johnstown .....	235.46	249.68	274.69	38.6	39.0	40.1	6.10	6.40	6.85
Lancaster .....	188.97	205.65	224.80	39.7	39.7	40.0	4.76	5.18	5.62
Northeast Pennsylvania .....	153.43	167.50	182.16	36.1	36.1	36.8	4.25	4.64	4.95
Philadelphia SMSA .....	219.62	239.60	261.20	39.5	39.8	40.0	5.56	6.02	6.53
Pittsburgh .....	257.20	288.16	313.03	40.0	40.7	40.6	6.43	7.08	7.71
Reading .....	191.30	210.75	226.20	39.2	39.1	38.6	4.88	5.39	5.86
Scranton <sup>7</sup> .....	158.15	176.34	194.39	37.3	37.6	38.8	4.24	4.69	5.01
Wilkes-Barre—Hazleton <sup>8</sup> .....	149.32	160.30	172.97	35.3	35.0	35.3	4.23	4.58	4.90
Williamsport .....	183.52	201.63	226.06	38.8	39.0	39.8	4.73	5.17	5.68
York .....	192.17	212.90	238.11	40.8	41.1	41.7	4.71	5.18	5.71
<b>RHODE ISLAND</b> .....	163.93	171.65	183.22	39.5	39.1	38.9	4.15	4.39	4.71
Providence—Warwick—Pawtucket .....	165.17	172.92	185.02	39.8	39.3	39.2	4.15	4.40	4.72
<b>SOUTH CAROLINA</b> .....	157.96	173.77	190.13	40.4	40.6	40.8	3.91	4.28	4.66
Charleston—North Charleston .....	179.45	196.94	219.12	40.6	41.2	41.5	4.42	4.78	5.28
Columbia .....	154.45	174.80	184.74	39.2	40.0	39.6	3.94	4.37	4.65
Greenville—Spartanburg .....	157.17	172.53	188.44	40.3	40.5	40.7	3.90	4.26	4.63
<b>SOUTH DAKOTA</b> .....	179.95	190.21	216.42	39.9	39.3	41.7	4.51	4.84	5.19
Rapid City .....	170.94	168.49	184.87	40.7	40.6	36.9	4.20	4.15	5.01
Sioux Falls .....	234.21	241.36	276.35	42.2	41.4	44.5	5.55	5.83	6.21
<b>TENNESSEE</b> .....	170.87	188.14	203.15	40.3	40.2	39.6	4.24	4.68	5.13
Chattanooga .....	179.34	198.36	209.44	40.3	40.9	40.2	4.45	4.85	5.21
Knoxville .....	199.70	223.58	238.58	40.1	40.8	40.3	4.98	5.48	5.92
Memphis .....	203.50	218.83	237.55	40.7	40.6	40.4	5.00	5.39	5.88
Nashville—Davidson .....	181.54	203.71	220.70	39.9	40.1	40.2	4.55	5.08	5.49
<b>TEXAS</b> .....	203.68	222.76	242.84	40.9	41.1	41.3	4.98	5.42	5.88
Amarillo .....	191.41	233.11	236.04	40.9	43.9	42.0	4.68	5.31	5.62
Austin .....	177.12	180.46	191.47	41.0	41.2	42.2	4.32	4.38	4.53
Beaumont .....	276.69	313.47	346.06	40.1	40.5	41.1	6.90	7.74	8.42
Corpus Christi .....	237.97	249.67	284.39	42.8	41.2	41.7	5.56	6.06	6.82
Dallas—Fort Worth .....	189.60	205.44	223.30	40.6	40.6	40.6	4.67	5.06	5.50
El Paso .....	141.64	150.48	179.78	38.7	39.6	39.6	3.66	3.80	4.54
Galveston—Texas City .....	325.87	344.68	387.13	43.8	42.5	43.4	7.44	8.11	8.92
Houston .....	251.55	277.95	305.81	43.0	42.5	43.5	5.85	6.54	7.03
Lubbock .....	149.81	163.61	179.29	40.6	40.7	40.2	3.69	4.02	4.46
San Antonio .....	156.67	170.15	175.72	40.8	41.0	39.4	3.84	4.15	4.46
Waco .....	170.87	184.01	206.96	40.3	40.8	40.5	4.24	4.51	5.11
Wichita Falls .....	176.73	191.39	213.06	39.1	39.3	40.2	4.52	4.87	5.30
<b>UTAH</b> .....	191.69	207.15	224.36	39.2	40.0	39.5	4.89	5.18	5.68
Salt Lake City—Ogden .....	185.57	196.04	216.00	39.4	39.8	40.0	4.71	4.93	5.40
<b>VERMONT</b> .....	180.40	191.76	209.10	41.0	40.8	41.0	4.40	4.70	5.10
Burlington .....	216.72	223.12	239.41	43.0	42.5	42.6	5.04	5.25	5.62
Springfield .....	190.95	217.01	242.50	40.2	41.1	42.1	4.75	5.28	5.76
<b>VIRGINIA</b> .....	171.57	187.13	203.38	39.9	39.9	39.8	4.30	4.69	5.11
Bristol .....	149.72	167.09	183.23	38.0	38.5	37.7	3.94	4.34	4.86
Lynchburg .....	173.29	186.26	207.43	40.3	39.8	40.2	4.30	4.68	5.16
Norfolk—Virginia Beach—Portsmouth .....	182.61	213.72	232.93	40.4	41.5	41.3	4.52	5.15	5.64
Northern Virginia <sup>9</sup> .....	198.60	213.86	†238.98	39.8	40.2	†40.3	4.99	5.32	†5.93
Petersburg-Colonial Heights-Hopewell .....	200.46	223.62	244.29	39.0	39.3	38.9	5.14	5.69	6.28

See footnotes at end of table.

**ESTABLISHMENTS DATA  
STATE AND AREA HOURS AND EARNINGS**

**2. Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
<b>VIRGINIA—Continued</b>									
Richmond .....	\$207.25	\$218.96	\$250.26	40.4	39.1	40.3	\$5.13	\$5.60	\$6.21
Roanoke .....	154.43	165.90	185.07	39.7	39.5	39.8	3.89	4.20	4.65
<b>WASHINGTON</b>	248.68	267.74	297.11	39.1	39.2	39.3	6.36	6.83	7.56
Seattle—Everette .....	255.84	272.74	(*)	39.3	39.3	(*)	6.51	6.94	(*)
Spokane .....	220.56	233.43	(*)	38.9	39.1	(*)	5.67	5.97	(*)
Tacoma .....	247.17	271.07	(*)	38.5	39.4	(*)	6.42	6.88	(*)
<b>WEST VIRGINIA</b>	212.46	239.37	264.53	39.2	39.5	39.6	5.42	6.06	6.68
Charleston .....	250.30	277.97	307.40	41.1	41.8	42.4	6.09	6.65	7.25
Huntington—Ashland .....	239.00	258.57	289.87	39.9	39.0	39.6	5.99	6.63	7.32
Parkersburg—Marietta .....	235.89	253.03	280.17	40.6	40.1	40.9	5.81	6.31	6.85
Wheeling .....	220.89	249.46	281.88	39.8	40.3	40.5	5.55	6.19	6.96
<b>WISCONSIN</b>	230.91	250.06	274.21	40.6	40.6	41.0	5.69	6.16	6.69
Appleton—Oshkosh .....	220.99	246.21	270.21	41.1	42.0	42.1	5.38	5.86	6.43
Eau Claire .....	234.90	254.08	267.40	41.9	41.2	40.7	5.61	6.16	6.57
Green Bay .....	235.62	254.98	279.72	42.2	42.1	41.8	5.58	6.05	6.69
Kenosha .....	261.19	283.15	309.06	39.2	39.6	39.9	6.66	7.15	7.75
La Crosse .....	195.21	210.78	218.43	40.6	40.2	40.0	4.81	5.24	5.46
Madison .....	250.47	268.95	275.56	40.1	40.1	39.9	6.24	6.70	6.91
Milwaukee .....	252.05	275.40	301.78	40.3	40.7	41.1	6.26	6.76	7.35
Racine .....	243.66	265.25	295.09	40.0	40.3	41.3	6.10	6.59	7.15
<b>WYOMING</b>	218.11	226.82	239.62	40.2	39.8	38.6	5.43	5.70	6.21
Casper .....	266.31	282.19	281.34	41.4	40.5	39.4	6.42	6.97	7.15
Cheyenne .....	248.44	(*)	(*)	40.7	(*)	(*)	6.10	(*)	(*)

<sup>1</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, Gloucester Counties, New Jersey.  
<sup>2</sup> Subarea of New York-Northeastern New Jersey.  
<sup>3</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>4</sup> Area included in New York and Nassau-Suffolk combined SMSA's.  
<sup>5</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
<sup>7</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

<sup>8</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
<sup>9</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.  
p=preliminary.  
\* Not available.  
† Data not strictly comparable with earlier years.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA**  
**STATE AND AREA LABOR TURNOVER**

**3. Labor turnover rates in manufacturing for selected States and areas**

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
<b>ALABAMA:</b>												
Birmingham .....	3.2	2.8	1.8	1.9	1.2	0.7	3.5	2.6	1.1	1.2	1.6	0.6
Mobile .....	7.3	7.0	2.3	2.4	4.8	4.4	7.2	7.2	2.1	2.0	4.4	4.3
<b>ALASKA</b> .....	14.7	(*)	10.6	(*)	3.7	(*)	14.3	(*)	5.9	(*)	7.2	(*)
<b>ARIZONA</b> .....	4.5	5.1	3.6	4.4	.6	.5	4.0	4.4	2.2	2.7	.7	.5
Phoenix .....	4.6	5.3	3.7	4.6	.7	.5	4.0	4.5	2.2	2.8	.6	.4
<b>ARKANSAS</b> .....	6.9	6.7	5.8	5.6	.7	.7	6.5	6.7	4.5	4.6	.8	1.0
Fort Smith .....	8.2	7.5	7.0	6.2	.4	.8	7.5	7.3	5.4	5.1	.5	.8
Little Rock—North Little Rock .....	5.5	5.2	4.7	4.5	.5	.5	5.5	5.6	3.3	3.3	1.0	1.0
Pine Bluff .....	5.3	4.6	4.1	3.6	.9	.6	4.9	4.8	3.3	3.1	.7	1.0
<b>COLORADO</b> .....	4.5	5.1	3.7	4.4	.5	.5	3.8	4.3	2.3	2.8	.7	.6
Denver—Boulder .....	4.3	5.1	3.8	4.6	.3	.3	3.5	4.3	2.3	3.0	.4	.4
<b>CONNECTICUT</b> .....	2.3	2.6	1.6	2.1	.6	.3	2.4	2.4	1.0	1.3	.6	.5
Hartford .....	2.0	2.6	1.4	2.1	.4	.2	2.2	1.9	1.0	1.1	.5	.3
<b>DELAWARE</b> .....	4.0	2.9	1.3	1.4	1.9	.7	3.4	2.6	.8	.9	2.0	1.1
Wilmington .....	3.9	2.6	1.1	1.1	2.0	.8	3.4	2.3	.7	.6	2.1	1.1
<b>FLORIDA</b> .....	5.3	5.9	4.3	4.9	.8	.8	4.8	5.4	2.7	3.3	1.2	1.0
Fort Lauderdale—Hollywood .....	5.7	6.5	5.2	6.0	.3	.4	4.8	5.7	3.1	4.1	.5	.4
Jacksonville .....	5.0	6.0	3.5	4.1	1.3	1.9	4.5	5.5	1.9	2.4	1.5	1.9
Miami .....	5.2	5.5	4.5	4.9	.6	.5	4.6	4.5	2.6	3.2	1.1	.7
Orlando .....	4.9	5.2	3.8	4.6	1.0	.5	4.5	4.5	2.4	2.8	1.3	.8
Pensacola .....	1.7	1.5	1.3	1.3	.4	.2	2.1	1.7	1.1	.9	.6	.3
Tampa—St. Petersburg .....	6.1	7.2	5.0	6.0	.9	1.0	5.8	7.1	3.5	4.5	1.3	1.5
West Palm Beach—Boca Raton .....	4.1	5.2	3.0	4.3	.5	.9	3.4	4.5	1.7	2.5	.9	.8
<b>GEORGIA</b> .....	4.1	4.0	3.3	3.3	.4	.4	3.9	3.9	2.5	2.6	.5	.4
Atlanta <sup>1</sup> .....	3.5	3.6	2.8	2.8	.5	.6	3.3	3.2	1.7	1.9	.7	.5
<b>HAWAII</b> <sup>2</sup> .....	2.5	2.9	1.5	1.4	.6	1.2	2.4	2.9	.9	1.0	.7	1.3
<b>IDAHO</b> <sup>3</sup> .....	6.3	(*)	4.9	(*)	1.2	(*)	6.1	(*)	3.4	(*)	1.7	(*)
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.2	3.5	2.5	2.9	.4	.3	3.3	3.3	1.6	1.8	.7	.4
<b>INDIANA</b> .....	3.3	3.5	2.2	2.5	.6	.5	3.0	3.4	1.4	1.6	.9	1.0
Indianapolis <sup>4</sup> .....	2.9	3.1	1.9	2.0	.3	.3	2.5	2.7	1.1	1.3	.6	.5
<b>IOWA</b> .....	3.4	3.5	2.4	2.6	.7	.7	3.2	3.3	1.6	1.8	.9	.9
Cedar Rapids .....	2.6	2.8	1.4	1.8	1.0	.9	2.3	2.5	.9	1.0	1.1	1.0
Des Moines .....	3.6	4.9	2.4	3.1	.7	.9	3.1	4.5	1.7	2.3	1.0	1.0
<b>KANSAS</b> .....	4.6	5.4	3.9	4.7	.5	.5	4.3	4.9	2.9	3.3	.6	.7
Topeka .....	3.6	3.5	2.8	2.8	.6	.6	3.3	3.8	1.8	2.0	.8	1.1
Wichita .....	4.5	6.2	3.8	5.3	.4	.5	3.9	4.7	2.7	3.2	.3	.2
<b>KENTUCKY</b> .....	4.1	3.4	2.6	2.3	1.0	.7	3.9	3.4	1.8	1.6	1.1	1.0
Louisville .....	2.7	2.7	1.4	1.6	.7	.4	2.3	2.6	.8	1.0	.5	.5
<b>LOUISIANA:</b>												
New Orleans .....	4.3	5.1	3.3	4.2	.6	.7	4.2	4.6	2.2	2.5	.9	1.1
<b>MAINE</b> .....	6.1	6.1	4.6	4.7	1.2	1.1	5.7	5.6	3.2	3.4	1.5	1.3
Portland .....	3.6	4.6	2.9	3.9	.5	.5	3.5	4.5	2.1	2.8	.7	.8
<b>MARYLAND</b> .....	3.2	3.1	1.8	1.8	1.3	1.1	3.2	2.9	1.1	1.1	1.5	1.1
Baltimore .....	3.1	3.1	1.6	1.7	1.4	1.2	3.1	2.9	.9	1.0	1.5	1.3
<b>MASSACHUSETTS</b> .....	3.7	(*)	2.5	(*)	.9	(*)	3.5	(*)	1.6	(*)	1.2	(*)
Boston .....	3.1	(*)	2.2	(*)	.7	(*)	3.1	(*)	1.3	(*)	1.0	(*)
<b>MICHIGAN</b> .....	3.0	2.3	1.8	1.6	.6	.5	2.8	2.2	.9	.9	1.1	.8
Detroit .....	3.2	2.6	2.0	1.7	.6	.5	2.9	2.5	1.1	1.2	1.0	.9
Flint .....	2.0	1.9	1.4	1.1	.1	.2	2.7	2.0	.5	.5	1.3	.5
Grand Rapids .....	4.0	3.7	2.3	2.7	1.1	.5	3.3	3.1	1.3	1.6	1.0	.7
Lansing—East Lansing .....	4.6	2.5	2.4	1.9	1.4	.3	6.6	2.0	.8	.7	3.9	.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

**3. Labor turnover rates in manufacturing for selected States and areas—Continued**

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
MINNESOTA .....	3.9	(*)	2.9	(*)	0.9	(*)	3.6	(*)	1.9	(*)	1.6	(*)
Minneapolis—St. Paul .....	3.1	(*)	2.4	(*)	.6	(*)	2.8	(*)	1.6	(*)	.6	(*)
MISSISSIPPI:												
Jackson .....	3.9	4.3	2.9	3.6	.7	0.5	3.6	4.5	2.2	2.6	.6	1.0
MISSOURI .....	3.7	3.5	2.7	2.7	.7	.5	3.4	3.5	1.7	2.0	1.0	.8
Kansas City .....	3.6	3.4	2.8	2.8	.7	.4	3.3	3.3	1.7	1.8	.8	.7
St. Louis .....	2.8	2.8	1.8	2.0	.8	.6	2.7	2.6	1.0	1.2	1.0	.7
MONTANA .....	3.5	(*)	2.9	(*)	(*)	(*)	3.3	(*)	1.7	(*)	.9	(*)
NEBRASKA .....	4.3	(*)	3.6	(*)	.6	(*)	4.2	(*)	2.6	(*)	.8	(*)
NEVADA .....	6.6	8.7	5.5	7.8	.5	.5	6.3	7.7	3.5	5.2	1.0	.7
NEW HAMPSHIRE .....	4.0	(*)	3.1	(*)	.5	(*)	3.6	(*)	2.3	(*)	.6	(*)
NEW JERSEY:												
Camden .....	3.1	3.5	1.8	2.3	.9	.8	3.0	3.4	.9	1.3	1.2	1.1
Hackensack .....	4.0	4.1	2.9	3.2	1.0	.8	4.1	4.2	1.6	1.9	1.4	1.1
Jersey City .....	3.6	3.4	2.1	2.3	1.4	1.0	3.8	3.9	.9	1.1	2.0	1.9
Newark .....	3.2	3.2	2.1	2.3	.9	.6	3.0	3.2	1.1	1.3	1.1	1.0
New Brunswick—Perth Amboy—Sayreville .....	4.1	3.8	2.8	3.0	1.0	.6	3.7	3.7	1.3	1.6	1.2	.9
Paterson—Clifton—Passaic .....	4.1	4.1	2.6	2.9	1.2	.9	4.4	3.9	1.4	1.6	1.8	1.3
Trenton .....	2.9	2.9	1.9	1.8	.7	.8	2.8	2.8	.9	1.1	1.0	1.0
NEW YORK .....	3.8	3.8	2.2	2.4	1.4	1.2	3.8	3.7	1.2	1.3	1.8	1.6
Albany—Schenectady—Troy .....	2.7	2.7	1.5	1.4	.7	.6	2.7	3.1	.8	1.0	.9	1.1
Binghamton .....	3.1	3.1	2.2	2.2	.7	.7	2.8	2.7	1.3	1.4	.9	.6
Buffalo .....	2.9	2.7	1.3	1.4	1.2	1.0	2.9	2.7	.6	.8	1.4	1.2
Elmira .....	2.4	2.8	1.5	1.7	.6	.8	2.4	3.0	.8	1.0	.7	.9
Monroe County <sup>6</sup> .....	1.8	2.0	1.3	1.6	.2	.2	1.8	1.8	.8	.9	.5	.4
Nassau—Suffolk <sup>7</sup> .....	4.6	5.1	3.5	4.0	1.0	.9	4.5	4.7	2.0	2.5	1.4	1.2
New York and Nassau—Suffolk .....	4.6	4.7	2.7	2.9	1.8	1.7	4.6	4.6	1.3	1.5	2.4	2.4
New York SMSA <sup>7</sup> .....	4.6	4.6	2.5	2.6	1.9	1.8	4.6	4.6	1.1	1.2	2.7	2.7
New York City <sup>8</sup> .....	4.9	4.8	2.6	2.7	2.2	2.1	5.0	4.9	1.2	1.2	2.9	2.9
Rochester .....	2.4	2.6	1.7	1.9	.5	.5	2.4	2.4	.9	1.1	.8	.7
Syracuse .....	2.8	2.8	1.7	1.9	.8	.6	2.7	2.6	1.0	1.0	1.0	1.0
Utica—Rome .....	3.3	2.9	1.8	1.9	1.3	.8	3.2	2.7	1.0	1.1	1.6	1.0
Westchester County <sup>8</sup> .....	2.9	2.8	2.1	2.1	.6	.5	2.6	2.8	1.0	1.1	.8	1.0
NORTH CAROLINA .....	4.3	(*)	3.6	(*)	.4	(*)	4.2	(*)	2.9	(*)	.4	(*)
Charlotte—Gastonia .....	4.9	(*)	4.2	(*)	.2	(*)	4.7	(*)	3.5	(*)	.3	(*)
Greensboro—Winston-Salem—High Point .....	4.2	(*)	3.6	(*)	.2	(*)	4.0	(*)	2.8	(*)	.4	(*)
NORTH DAKOTA .....	5.2	6.2	3.3	4.5	1.6	1.3	6.0	6.2	2.7	3.3	2.5	2.0
Fargo—Moorhead .....	5.1	5.5	3.2	3.8	1.6	1.3	4.4	4.9	2.4	2.4	1.8	1.6
OHIO .....	2.9	2.7	1.7	1.8	(*)	(*)	2.8	2.6	1.0	1.1	1.0	.7
Akron .....	1.8	1.8	1.0	1.2	(*)	(*)	1.7	1.8	.6	.8	.6	.6
Canton .....	3.0	3.1	1.5	1.6	(*)	(*)	2.9	2.7	.8	1.0	1.1	.6
Cincinnati .....	2.8	2.6	1.6	2.0	(*)	(*)	2.6	2.4	1.0	1.1	.9	.5
Cleveland .....	2.8	2.8	1.9	2.1	(*)	(*)	2.6	2.7	1.1	1.3	.6	.5
Columbus .....	2.8	2.5	1.8	1.9	(*)	(*)	2.6	2.5	1.0	1.3	.8	.5
Dayton .....	2.5	2.1	1.8	1.6	(*)	(*)	2.1	2.1	.9	1.0	.4	.4
Toledo .....	2.7	2.8	1.4	1.7	(*)	(*)	2.4	2.4	.8	.9	.9	.7
Youngstown—Warren .....	3.2	2.5	.7	1.0	(*)	(*)	3.3	2.8	.4	.5	1.8	1.2
OKLAHOMA .....	6.0	6.4	5.2	5.7	.6	.5	5.6	6.1	3.9	4.5	.7	.5
Oklahoma City .....	6.0	6.2	5.3	5.5	.6	.6	5.3	5.9	3.8	4.4	.6	.5
Tulsa <sup>9</sup> .....	5.5	6.5	4.9	5.9	.4	.4	5.1	6.3	3.5	4.2	.5	.7
OREGON <sup>10</sup> .....	4.8	(*)	3.7	(*)	.9	(*)	4.4	(*)	2.3	(*)	1.2	(*)
Portland <sup>10</sup> .....	4.8	(*)	3.7	(*)	.9	(*)	4.1	(*)	2.1	(*)	1.2	(*)
PENNSYLVANIA .....	3.4	3.0	1.7	1.8	1.5	.9	3.5	2.9	1.0	1.2	1.8	1.1
Allentown—Bethlehem—Easton .....	3.0	2.7	1.5	1.5	1.3	1.0	3.1	2.5	.9	1.0	1.6	.9
Altoona .....	4.3	2.8	2.1	1.1	2.0	1.5	4.0	3.1	1.6	.9	1.8	1.7
Erie .....	3.6	3.2	1.8	2.0	1.5	.9	3.2	3.1	1.0	1.2	1.4	1.1
Harrisburg .....	3.4	3.1	1.9	2.2	1.3	.7	3.5	2.9	1.3	1.6	1.6	.7
Johnstown .....	3.8	3.3	1.3	1.0	2.3	2.3	4.6	3.3	.9	.9	3.2	1.7
Lancaster .....	3.1	3.5	2.3	3.0	.7	.5	3.1	3.3	1.6	2.1	1.0	.6

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**STATE AND AREA LABOR TURNOVER**

**3. Labor turnover rates in manufacturing for selected States and areas—Continued**

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	4.1	3.8	1.6	1.9	2.1	1.6	4.3	3.8	1.0	1.3	2.7	1.9
Philadelphia SMSA .....	3.0	2.8	1.7	1.8	1.1	.7	3.1	2.8	.9	1.1	1.4	.9
Pittsburgh .....	3.1	2.5	1.0	1.1	1.8	1.1	3.1	2.5	.5	.6	1.9	1.2
Reading .....	3.7	3.3	2.3	2.4	1.3	.8	3.7	3.2	1.4	1.6	1.7	1.0
Scranton <sup>11</sup> .....	3.6	3.6	1.8	1.7	1.7	1.8	3.5	3.7	1.2	1.1	1.8	2.1
Wilkes-Barre—Hazleton <sup>11</sup> .....	4.2	3.5	1.3	1.7	2.3	1.4	4.9	3.6	1.0	1.1	3.2	1.8
Williamsport .....	2.7	2.7	1.5	1.8	1.1	.8	2.4	2.5	.8	1.0	1.2	1.1
York .....	3.9	4.4	2.7	3.5	1.1	.8	3.3	4.0	1.6	2.3	1.1	1.0
<b>RHODE ISLAND</b> .....	5.3	5.4	4.0	4.4	.9	.7	5.1	5.3	2.8	3.2	1.3	1.2
Providence—Warwick—Pawtucket .....	5.2	5.4	4.0	4.4	1.0	.7	5.0	5.2	2.7	3.1	1.4	1.1
<b>SOUTH CAROLINA</b> .....	3.9	4.1	3.2	3.3	.5	.5	3.9	4.0	2.5	2.6	.6	.5
Charleston—North Charleston .....	4.5	4.8	3.4	3.9	1.0	.7	4.7	4.1	2.3	2.5	1.2	.4
Columbia .....	4.5	4.2	3.9	3.7	.3	.3	3.9	3.9	2.5	2.6	.6	.5
Greenville—Spartanburg .....	4.0	4.5	3.5	3.9	.2	.4	4.2	4.4	2.7	2.9	.4	.4
<b>SOUTH DAKOTA</b> .....	4.3	4.9	3.2	4.3	.9	.4	4.3	4.1	2.5	3.0	1.1	.5
Sioux Falls .....	4.2	4.2	3.2	3.6	.9	.6	4.3	3.6	2.5	2.4	1.1	.6
<b>TENNESSEE:</b>												
Memphis .....	3.9	3.7	3.0	2.9	.6	.6	3.5	3.5	1.7	1.9	.8	.7
<b>TEXAS:</b>												
Dallas—Fort Worth .....	5.0	5.7	4.5	5.2	.4	.4	4.6	5.1	3.2	3.7	.5	.3
Houston .....	4.1	4.8	3.7	4.5	.2	.2	3.8	4.4	2.6	3.1	.3	.2
San Antonio .....	4.3	4.8	3.8	4.4	.4	.2	4.1	4.4	2.7	3.2	.5	.3
<b>UTAH</b> <sup>3</sup> .....	5.2	6.0	4.4	5.3	.5	.5	5.0	5.3	3.2	3.7	.9	.6
Salt Lake City—Ogden <sup>3</sup> .....	4.9	6.1	4.4	5.7	.3	.3	4.6	5.2	3.1	3.7	.5	.5
<b>VERMONT</b> .....	4.2	4.3	2.6	3.2	1.4	.9	3.7	3.6	1.5	1.9	1.6	1.0
Burlington .....	2.9	3.2	2.0	2.5	.6	.3	2.0	2.0	.6	.8	1.1	.8
Springfield .....	3.4	3.3	2.0	2.5	1.3	.7	2.8	2.6	.9	1.2	1.4	.7
<b>VIRGINIA</b> .....	3.5	3.6	2.7	2.7	.6	.6	3.3	3.6	1.9	2.0	.6	.7
Richmond .....	2.0	2.2	1.5	1.6	.3	.2	2.0	1.9	.9	.9	.4	.3
<b>WASHINGTON:</b>												
Seattle—Everett <sup>12</sup> .....	4.0	(*)	2.6	(*)	1.1	(*)	3.2	(*)	1.4	(*)	1.2	(*)
<b>WISCONSIN</b> .....	3.2	3.5	2.1	2.6	.7	.7	3.0	3.3	1.3	1.6	.9	.9
Milwaukee .....	2.9	3.1	1.8	2.2	.6	.5	2.6	2.9	1.0	1.2	.7	.7
<b>WYOMING</b> .....	7.3	8.0	6.2	6.7	1.1	1.3	7.3	8.0	4.4	4.7	1.6	1.8

<sup>1</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>2</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>3</sup> Excludes canning and preserving, and sugar.

<sup>4</sup> Excludes canning and preserving, and newspapers.

<sup>5</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>6</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>7</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>8</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>9</sup> Excludes new-hire rate for transportation equipment.

<sup>10</sup> Excludes canning and preserving.

<sup>11</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>12</sup> Excludes canning and preserving, printing and publishing.

p=preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

## Area Definitions

**ALABAMA**  
 Birmingham.....Jefferson, St. Clair, Shelby, and Walker Counties  
 Huntsville.....Limestone, Madison, and Marshall Counties  
 Mobile.....Baldwin and Mobile Counties  
 Montgomery.....Autauga, Elmore, and Montgomery Counties  
 Tuscaloosa.....Tuscaloosa County

**ARIZONA**  
 Phoenix.....Maricopa County  
 Tucson.....Pima County

**ARKANSAS**  
 Fayetteville-  
 Springdale.....Benton and Washington Counties  
 Fort Smith.....Crawford and Sebastian Counties, Ark.; Le Flore and Sequoyah Counties, Okla.

Little Rock-  
 N. Little Rock.....Pulaski and Saline Counties  
 Pine Bluff.....Jefferson County

**CALIFORNIA**  
 Anaheim-Santa Ana-  
 Garden Grove.....Orange County  
 Bakersfield.....Kern County  
 Fresno.....Fresno County  
 Los Angeles-  
 Long Beach.....Los Angeles County  
 Modesto.....Stanislaus County  
 Oxnard-Simi  
 Valley-Ventura.....Ventura County  
 Riverside-San  
 Bernardino-Ontario..San Bernardino and Riverside Counties  
 Sacramento.....Placer, Sacramento, and Yolo Counties  
 Salinas-Seaside-  
 Monterey.....Monterey County  
 San Diego.....San Diego County  
 San Francisco-  
 Oakland.....Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties  
 San Jose.....Santa Clara County  
 Santa Barbara-Santa  
 Maria-Lompoc.....Santa Barbara County  
 Santa Rosa.....Sonoma County  
 Stockton.....San Joaquin County  
 Vallejo-Fairfield-  
 Napa.....Napa and Solano Counties

**COLORADO**  
 Denver-Boulder.....Adams, Arapahoe, Boulder, Clear Creek, Denver, Douglas, Gilpin, and Jefferson Counties

**CONNECTICUT**  
 Bridgeport.....Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; Derby and Milford cities in New Haven County  
 Hartford.....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; Colchester town in New London County; Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Somers, Stafford, Tolland, Vernon, and Willington towns in Tolland County  
 New Britain.....New Britain city, and Berlin, Plainville, and Southington towns in Hartford County  
 New Haven-  
 West Haven.....New Haven and West Haven cities, and Bethany, Branford, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County; Clinton town in Middlesex County

**CONNECTICUT—Continued**  
 Stamford.....Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County  
 Waterbury.....Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County; Bethlehem, Thomaston, Watertown, and Woodbury towns in Litchfield County

**DELAWARE**  
 Wilmington.....New Castle County, Del.; Cecil County, Md.; Salem County, N.J.

**DISTRICT OF COLUMBIA**  
 Washington SMSA.....District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md.; Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Va.

**FLORIDA**  
 Daytona Beach.....Volusia County  
 Fort Lauderdale-  
 Hollywood.....Broward County  
 Gainesville.....Alachua County  
 Jacksonville.....Baker, Clay, Duval, Nassau, and St. Johns Counties  
 Miami.....Dade County  
 Orlando.....Orange, Osceola, and Seminole Counties  
 Pensacola.....Escambia and Santa Rosa Counties  
 Sarasota.....Sarasota County  
 Tallahassee.....Leon and Wakulla Counties  
 Tampa-  
 St. Petersburg.....Hillsborough, Pasco, and Pinellas Counties  
 West Palm Beach-  
 Boca Raton.....Palm Beach County

**GEORGIA**  
 Albany.....Dougherty and Lee Counties  
 Atlanta.....Butts, Cherokee, Clayton, Cobb, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties  
 Augusta.....Columbia and Richmond Counties, Ga.; Aiken County, S.C.  
 Columbus.....Columbus (consolidated government), and Chattahoochee County, Ga.; Russell County, Ala.  
 Macon.....Bibb, Houston, Jones, and Twiggs Counties  
 Savannah.....Bryan, Chatham, and Effingham Counties

**HAWAII**  
 Honolulu.....Honolulu County

**IDAHO**  
 Boise City.....Ada County

**ILLINOIS**  
 Bloomington-Normal...McLean County  
 Champaign-Urbana-  
 Rantoul.....Champaign County  
 Chicago-Gary.....A Standard Consolidated Statistical Area comprised of Chicago, Ill. SMSA and Gary-Hammond-East Chicago, Ind. SMSA  
 Chicago SMSA.....Cook, Du Page, Kane, Lake, McHenry, and Will Counties  
 Davenport-Rock  
 Island-Moline.....Henry and Rock Island Counties, Ill.; Scott County, Iowa  
 Decatur.....Macon County  
 Kankakee.....Kankakee County  
 Peoria.....Peoria, Tazewell, and Woodford Counties  
 Rockford.....Boone and Winnebago Counties  
 Springfield.....Menard and Sangamon Counties

**INDIANA**  
 Anderson.....Madison County

## Area Definitions--Continued

### INDIANA—Continued

Evansville.....Gibson, Posey, Vanderburgh, and Warrick Counties, Ind.; Henderson County, Ky.  
 Fort Wayne.....Adams, Allen, DeKalb, and Wells Counties  
 Gary-Hammond-  
 East Chicago.....Lake and Porter Counties  
 Indianapolis.....Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties  
 Lafayette-  
 West Lafayette.....Tippecanoe County  
 Muncie.....Delaware County  
 South Bend.....Marshall and St. Joseph Counties  
 Terre Haute.....Clay, Sullivan, Vermillion, and Vigo Counties

### IOWA

Cedar Rapids.....Linn County  
 Des Moines.....Polk and Warren Counties  
 Dubuque.....Dubuque County  
 Sioux City.....Woodbury County, Iowa; Dakota County, Neb.  
 Waterloo-Cedar Falls.....Black Hawk County

### KANSAS

Lawrence.....Douglas County  
 Topeka.....Jefferson, Osage, and Shawnee Counties  
 Wichita.....Butler and Sedgwick Counties

### KENTUCKY

Lexington-Fayette....Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties  
 Louisville.....Bullitt, Jefferson, and Oldham Counties, Ky.; Clark and Floyd Counties, Ind.  
 Owensboro.....Davies County

### LOUISIANA

Alexandria.....Avoyelles, Grant, and Rapides Parishes  
 Baton Rouge.....Ascension, East Baton Rouge, Livingston, and West Baton Rouge Parishes  
 Lafayette.....Lafayette Parish  
 Lake Charles.....Calcasieu Parish  
 Monroe.....Ouachita Parish  
 New Orleans.....Jefferson, Orleans, St. Bernard, and St. Tammany Parishes  
 Shreveport.....Bossier, Caddo, and Webster Parishes

### MAINE

Lewiston-Auburn.....Auburn and Lewiston cities, and Lisbon town in Androscoggin County  
 Portland.....Portland, South Portland, and Westbrook cities, and Cape Elizabeth, Cumberland, Falmouth, Freeport, Gorham, Scarborough, Windham, and Yarmouth towns in Cumberland County; Saco city, and Old Orchard Beach town in York County

### MARYLAND

Baltimore.....Baltimore city, and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties

### MASSACHUSETTS

Boston.....Suffolk County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Acton, Arlington, Ashland, Bedford, Belmont, Boxborough, Burlington, Carlisle, Concord, Framingham, Holliston, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Beverly, Lynn, Peabody, and Salem cities, and Boxford, Danvers, Hamilton, Lynnfield,

### MASSACHUSETTS—Continued

Boston—Continued  
 Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex 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; Abington, Duxbury, Hanover, Hanson, Hingham, Hull, Kingston, Marshfield, Norwell, Prembroke, Rockland, and Scituate towns in Plymouth County  
 Brockton.....Brockton city, and Bridgewater, East Bridgewater, Halifax, West Bridgewater, and Whitman towns in Plymouth County; Easton town in Bristol County; Avon town in Norfolk County  
 Fall River.....Fall River city, and Dighton, Somerset, Swansea, and Westport towns in Bristol County, Mass.; Little Compton and Tiverton towns in Newport County, R.I.  
 Lawrence-Haverhill...Lawrence and Haverhill cities, and Amesbury, Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, Salisbury, and West Newbury towns in Essex County, Mass.; Atkinson, Hampstead, Kingston, Newton, Plaistow, Salem, and Windham towns in Rockingham County, N.H.  
 Lowell.....Lowell city, and Billerica, Chelmsford, Dracut, Dunstable, Trewksbury, Tyngsborough, and Westford towns in Middlesex County  
 New Bedford.....New Bedford city, and Acushnet, Dartmouth, Fairhaven, and Free-town towns in Bristol County; Lakeville, Marion, Mattapoisett, and Rochester towns in Plymouth County  
 Springfield-  
 Chicopee-Holyoke....Chicopee, Holyoke, Springfield, and Westfield cities, and Agawam, Brimfield, East Longmeadow, Granville, Hampden, Longmeadow, Ludlow, Monson, Montgomery, Palmer, Russell, Southwick, Wales, West Springfield, and Wilbraham towns in Hampden County; Northampton city, and Amherst, Belchertown, Chesterfield, Easthampton, Granby, Hadley, Hatfield, Pelham, South Hadley, Southampton, Westhampton, and Williamsburg towns in Hampshire County; Warren town in Worcester County  
 Worcester.....Worcester city, and Auburn, Berlin, Boylston, Brookfield, Charlton, Douglas, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Rutland, Shrewsbury, Spencer, Sterling, Sutton, Upton, Uxbridge, Webster, Westborough, and West Boylston towns in Worcester County

MICHIGAN  
 Ann Arbor.....Washtenaw County  
 Battle Creek.....Barry and Calhoun Counties  
 Bay City.....Bay County  
 Detroit.....Lapeer, Livingston, Macomb, Oakland, St. Clair, and Wayne Counties  
 Flint.....Genesee and Shiawassee Counties  
 Grand Rapids.....Kent and Ottawa Counties  
 Jackson.....Jackson County  
 Kalamazoo-Portage....Kalamazoo and Van Buren Counties



## Area Definitions--Continued

### PENNSYLVANIA--Continued

Northeast-  
 Pennsylvania.....Lackawanna, Luzerne, and Monroe  
 Counties  
 Philadelphia SMSA....Bucks, Chester, Delaware, Montgo-  
 mery, and Philadelphia Counties,  
 Pa.; Burlington, Camden, and  
 Gloucester Counties, N. J.  
 Philadelphia City....Philadelphia County  
 Pittsburgh.....Allegheny, Beaver, Washington, and  
 Westmoreland Counties  
 Reading.....Berks County  
 Scranton.....Lackawanna County  
 Wilkes-Barre--  
 Hazleton.....Luzerne County  
 Williamsport.....Lycoming County  
 York.....Adams and York Counties

### RHODE ISLAND

Providence-Warwick-  
 Pawtucket.....Central Falls, Cranston, East  
 Providence, Pawtucket, Providence,  
 and Woonsocket cities, and Burril-  
 lville, Cumberland, Foster,  
 Glocester, Johnston, Lincoln,  
 North Providence, North Smith-  
 field, Scituate, and Smithfield  
 towns in Providence County, R. I.;  
 Exeter, Narragansett, North Kings-  
 town, Richmond, and South Kings-  
 town towns in Washington County,  
 R. I.; Warwick city, and Coventry,  
 East Greenwich, West Greenwich,  
 and West Warwick towns in Kent  
 County, R. I.; Jamestown and New  
 Shoreham towns in Newport County,  
 R. I.; Bristol County, R. I.;  
 Attleboro city, and North  
 Attleboro, Norton, Rehoboth, and  
 Seekonk towns in Bristol County,  
 Mass.; Plainville town in Norfolk  
 County, Mass.; Blackstone and  
 Millville towns in Worcester  
 County, Mass.

### SOUTH CAROLINA

Charleston-North  
 Charleston.....Berkeley, Charleston, and Dor-  
 chester Counties  
 Columbia.....Lexington and Richland Counties  
 Greenville-  
 Spartanburg.....Greenville, Pickens, and Spar-  
 tanburg Counties

### SOUTH DAKOTA

Rapid City.....Pennington County  
 Sioux Falls.....Minnehaha County

### TENNESSEE

Chattanooga.....Hamilton, Marion, and Sequatchie  
 Counties, Tenn.; Catoosa, Dade,  
 and Walker Counties, Ga.  
 Knoxville.....Anderson, Blount, Knox, and Union  
 Counties; portion of Oak Ridge in  
 Roane County  
 Memphis.....Shelby and Tipton Counties, Tenn.;  
 Crittenden County, Ark.  
 Nashville-Davidson...Cheatham, Davidson, Dickson,  
 Robertson, Rutherford, Sumner,  
 Williamson, and Wilson Counties

### TEXAS

Amarillo.....Potter and Randall Counties  
 Austin.....Hays, Travis, and Williamson  
 Counties  
 Beaumont-Port  
 Arthur-Orange.....Hardin, Jefferson, and Orange  
 Counties  
 Corpus Christi.....Nueces and San Patricio Counties  
 Dallas-Fort Worth....Collin, Dallas, Denton, Ellis,  
 Hood, Johnson, Kaufman, Parker,  
 Rockwall, Tarrant, and Wise  
 Counties  
 El Paso.....El Paso County  
 Galveston-  
 Texas City.....Galveston County  
 Houston.....Brazoria, Fort Bend, Harris,  
 Liberty, Montgomery, and Waller  
 Counties

### TEXAS--Continued

Lubbock.....Lubbock County  
 San Antonio.....Bexar, Comal, and Guadalupe  
 Counties  
 Waco.....McLennan County  
 Wichita Falls.....Clay and Wichita Counties

### UTAH

Salt Lake City-  
 Ogden.....Davis, Morgan, Salt Lake, Tooele,  
 and Weber Counties

### VERMONT

Burlington.....Chittenden County; Grand Isle and  
 South Hero towns in Grand Isle  
 County  
 Springfield.....Athens, Grafton, Londonderry,  
 Rockingham (includes Bellows  
 Falls), Westminster, and Windham  
 towns in Windham County; Andover,  
 Baltimore, Cavendish, Chester,  
 Ludlow, Reading, Springfield,  
 Weathersfield, Weston, West  
 Windsor, and Windsor towns in  
 Windsor County

### VIRGINIA

Bristol.....Bristol city, and Scott and Wash-  
 ington Counties  
 Lynchburg.....Lynchburg city, and Amherst,  
 Appomattox, and Campbell Counties  
 Newport News-  
 Hampton.....Hampton, Newport News, Poquoson,  
 and Williamsburg cities, and  
 Gloucester, James City, and York  
 Counties  
 Norfolk-Virginia  
 Beach-Portsmouth....Chesapeake, Norfolk, Portsmouth,  
 Suffolk, and Virginia Beach  
 cities, Va.; Currituck County,  
 N.C.  
 Northern Virginia....Alexandria, Fairfax, Falls Church,  
 Manassas, and Manassas Park  
 cities, and Arlington, Fairfax,  
 Loudoun, and Prince William  
 Counties  
 Petersburg-Colonial  
 Heights-Hopewell....Colonial Heights, Hopewell, and  
 Petersburg cities, and Dinwiddie  
 and Prince George Counties  
 Richmond.....Richmond city, and Charles City,  
 Chesterfield, Goochland, Hanover,  
 Henrico, New Kent, and Powhatan  
 Counties  
 Roanoke.....Roanoke and Salem cities, and  
 Botetourt, Craig, and Roanoke  
 Counties

### WASHINGTON

Seattle-Everett.....King and Snohomish Counties  
 Spokane.....Spokane County  
 Tacoma.....Pierce County

### WEST VIRGINIA

Charleston.....Kanawha and Putnam Counties  
 Huntington-Ashland...Cabell and Wayne Counties, W. Va.;  
 Boyd and Greenup Counties, Ky.;  
 Lawrence County, Ohio  
 Parkersburg-  
 Marietta.....Wirt and Wood Counties, W. Va.;  
 Washington County, Ohio  
 Wheeling.....Marshall and Ohio Counties, W. Va.;  
 Belmont County, Ohio

### WISCONSIN

Appleton-Oshkosh....Calumet, Outagamie, and Winnebago  
 Counties  
 Eau Claire.....Chippewa and Eau Claire Counties  
 Green Bay.....Brown County  
 Kenosha.....Kenosha County  
 La Crosse.....La Crosse County  
 Madison.....Dane County  
 Milwaukee.....Milwaukee, Ozaukee, Washington, and  
 Waukesha Counties  
 Racine.....Racine County

### WYOMING

Casper.....Natrona County  
 Cheyenne.....Laramie County

# Explanatory Notes

These explanatory notes provide information on the concepts, methodology, and scope of Household Data (A tables), Establishment Data (B, C, and D tables), and State and Area Unemployment Data (E table) published in *Employment and Earnings*.

## Introduction

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

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 56,000 households, representing 614 areas in 1,113 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 and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 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 of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire 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 definition 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 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, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of non-agricultural establishments.

*Multiple jobholding.* The household approach 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 records, 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 persons 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 dispute, 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. Reprints of this article are available upon request from the Bureau of Labor Statistics.

### 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, 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.

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, regardless of 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 (agriculture, domestic service, self-employment, unpaid family work, and religious organizations). 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*. Reprints of this article may be obtained upon request.

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Statistical Research Service (SRS) 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 impact on differences in level and trend of the two series.

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of the Census from its censuses or annual sample surveys of manufacturing establishments and the censuses of business establishments. The major reasons for some 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 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. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in BLS establishment statistics. 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.

## 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. This report is available from BLS upon request.

These monthly surveys of the population are conducted with 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. Separate statistics are also collected and published for 14 and 15 year olds. 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, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are obtained from the Department of Defense.

Each month, 56,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 4 percent. In addition to the 56,000 occupied units, there are 9,500 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

Beginning in September 1975, the sample was enlarged by 9,000

households in order to provide greater reliability for smaller States and thus permit the publication of annual statistics for all 50 States and the District of Columbia. These supplementary households were added to the national 47,000 household sample in January 1978.

## CONCEPTS

*Employed persons* comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or 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 dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

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, temporarily in the United States, who are not living on the premises of an Embassy.

Excluded are persons whose only activity consisted of work around the house (such as own home housework, and painting or repairing own home) or volunteer work for religious, charitable, and similar organizations.

*Unemployed persons* comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and 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 wage or salary job within 30 days.

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.

Unemployed persons by 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.

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 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 wage or salary job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to 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 pick-up point.

*The civilian labor force* comprises the total of all civilians classified as employed or unemployed in accordance with the criteria

described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

*The unemployment rate* 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, marital status, race, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

*Participation rates* represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published. The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate, which is the ratio of the civilian labor force and the civilian noninstitutional population. 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 total noninstitutional population that is employed. This measure can also be computed as a ratio of employment and the civilian noninstitutional population.

*Not in labor force* includes all civilians 16 years and over 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, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are compiled 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, the detailed not-in-labor force questions were asked of persons in the first and fifth months in the sample, 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 civilian job lasting 2 weeks or more. The occupation and industry groups used in data derived from the CPS household interviews are defined as in the 1970 Census of Population. 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 blood or marriage.

*Hours of work* statistics relate to the actual number of hours worked during the survey week. For example, a person who normally works 40 hours a week but who was off on the Columbus Day holiday would be reported as working 32 hours even though he was 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. However, all the hours are credited to the major job.

The distribution of employment by hours worked relate to persons "at work" during the survey week. At work data differ from data on total employment because the latter include persons in zero-hour worked category, "with a job but not at work." Included in this latter group are persons who were on vacation, ill, involved in a labor dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

Persons who worked 35 hours or more in 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 time or part time) and by their reason for working part time during the survey week (economic or other reasons). "Economic reasons" include: Slack work, material shortages, repairs to plant or equipment, start or termination of job during the week, and inability to find full-time work. "Other reasons" include: Labor dispute, bad weather, own illness, vacation, demands of home, housework, 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 1-34 hours for noneconomic reasons and usually work full time.

**Full- and part-time labor force.** The *full-time labor force* consists of persons working on full-time schedules, persons involuntarily working part time (part time for economic reasons), 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. Persons with a job but not at work during the survey week are classified according to whether they usually work full or part time.

**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: (1) That unemployed persons looking for full-time work lost an average of 37.5 hours, (2) that 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) that persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

**Race.** White and black and other are terms used to describe the race of workers. The black and other category, which until recently had been identified as "Negro and other races" and prior to 1969 as "nonwhite," includes all persons who identified themselves in the enumeration process to be other than white. At the time of the 1970 Census of Population, 89 percent of the black and other population group were black; the remainder were American Indians, Alaskan Natives, Asian and Pacific Islanders, and all other "non-white" groups. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

**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 other Hispanic origin or descent. According to the 1970 Census, approximately 96 percent of their population is white.

**Major activity:** *going to school* and major activity: *other* are terms used to describe whether the activity of young persons during the reference week are primarily one of going to school or not. Statistics on major activity are published every month in table A-7 for 16-21 year-olds by employment status, race, and sex, and, if unemployed, whether seeking full- or part-time work.

**Vietnam-era** veterans are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975.

Tables for veterans in this volume are limited to males in the civilian noninstitutional population; i.e., veterans in institutions and females are excluded.

**Nonveterans** are males who never served in the Armed Forces.

**Poverty areas** classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). 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 areas encompassed by Standard Metropolitan Statistical Areas (SMSA's). The metropolitan area total is based on the number of SMSA's as defined in the 1970 Decennial Census and does not include any subsequent additions or changes. Nonmetropolitan areas refer to the total of all areas outside SMSA's. The nonmetropolitan total is disaggregated into farm and nonfarm components.

## HISTORIC COMPARABILITY

### Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. At the same time, several definitions were sharpened to clear up ambiguities. The principal definitional changes were: (1) Counting as unemployed only persons who were currently available for work and who had engaged in some specific jobseeking activity within the past 4 weeks, an exception to the latter condition is made for persons waiting to start a new job in 30 days or waiting to be recalled from layoff; in the past, the current availability test was not applied and the time period for jobseeking was ambiguous; (2) counting as employed persons who were absent from their jobs in the survey week because of strikes, bad weather, etc. and were also looking for other jobs; previously, these persons had been classified as unemployed; (3) sharpening the questions on hours of work, duration of unemployment, and self-employment in order to increase their reliability.

These changes did not affect the unemployment rate by more than one-fifth of a percentage point in either direction, although the distribution of unemployment by sex was affected. The number of employed was reduced about 1 million because of the exclusion of 14- and 15-year-olds. For persons 16 years and over, the only employment series appreciably affected were those relating to hours of work and class of worker. A detailed discussion of the changes and their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints may be obtained upon request.

### Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 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 in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged.

In addition, beginning 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of 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. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment 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.

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 population estimates had its greatest impact on estimates of 20-24 year-old males—particularly those of the black and other population—but had little effect on 16 and over totals. 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 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 males and 46,000 females. 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 1978, the introduction of an expansion of the sample and revisions in the estimation procedures resulted in an increase of roughly a quarter of a million in the overall 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 determined by the interviewer as before. The purpose of this change is to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households has race determined by the household respondent and seven-eighths of the sample households has race determined by interviewer observation. The corresponding numbers are 2/8 and 6/8 in November 1978, 3/8 and 5/8 in December 1978, 4/8 and 4/8 from January 1979 through September 1979, 5/8 and 3/8 in October 1979, and so on, until the entire sample has race determined by the household respondent in January 1980. Although the impact of this change is presently unknown, it is possible that it will cause a break in the time series given for some racial statistics.

Beginning in 1979, the first stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. 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 issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan estimates, not for the total U.S.

#### Changes in occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS). These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the non-farm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

An additional major group was created by splitting the operatives category into two: operatives, except transport, and transport equipment operatives. Separate data for these two groups first became available in January 1972. At the same time, several changes in titles, as well as in order of presentation, were introduced; for example, the title of the managers, officials, and proprietors group was changed to "managers and administrators, except farm," since only proprietors performing managerial duties are included in the category.

Apart from the effects of revisions in the occupation classification system beginning in 1971, comparability of occupational employment data was further affected in December 1971, when a question eliciting information on major activities or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. This change resulted in several dramatic occupational shifts, particularly from managers and administrators to other groups. Thus, meaningful comparisons of occupational levels cannot always be made for 1972 and subsequent years with earlier periods. However, revisions in the occupational classification system as well as in the CPS questionnaire are believed to have had but a negligible impact on unemployment rates.

Additional information on changes in the occupational classification system of the CPS appears in "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*.

#### Changes in 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, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample 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 non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. A recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual

Time period	Number of sample areas <sup>1</sup>	Households eligible		Households visited not eligible <sup>2</sup>
		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 .....	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	333 <sup>3</sup>	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 present .....	614	53,500	2,500	9,500

<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> These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

<sup>3</sup> Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

average estimates for States, was incorporated with the existing design. A coverage improvement sample was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. This sample is composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units. These new construction units are composed of those units where building permits were issued prior to January 1970 and construction was not completed by the time of the 1970 Census (i.e., April 1970). The extent of other sources of housing undercoverage is unknown but believed to be small. The inclusion of this coverage improvement sample in the CPS does not have a significant effect on the estimates.

The following table provides a description of some aspects of the CPS sample design in use during the referenced data collection periods. For a more detailed account of the history of the CPS sample design, see *The Current Population Survey: Design and Methodology*, U.S. Department of Commerce, Bureau of the Census, Technical Paper No. 40, or *Concepts and Methods used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463.

#### 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. There are no subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 expansion, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, 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 respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, 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 latter 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 614 sample areas are 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 procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South and West), and secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by

metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. *Second-stage ratio estimate.* In this stage, the sample proportion in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done 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 for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40-age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

The independent 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 from the April 1, 1970 census through the latest available July 1 estimate, 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 640 of that series. Descriptions of the age estimates methodology are available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

Prior to January 1974, the independent national controls used for the age-sex-race groups in both the second and third steps of the second-stage ratio estimation procedure were prepared by carrying forward the most recent census data (1970) after taking account of subsequent aging of the population, births, deaths, and migration between the United States and other countries. Beginning in 1974, the "inflation-deflation" method of deriving independent population controls was introduced into the CPS estimation procedures. These independent controls are prepared by inflating the most recent census counts to include the estimated net census undercount 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. The actual percent change over time in the population in any age group is preserved.

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. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of levels 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. 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 errors.* The full extent of nonsampling error is unknown, but special studies have been conducted to qualify 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. U.S. Department of Commerce, Bureau of the Census.

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 vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys," by Barbara A. Bailer, *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. Overall undercoverage, as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race 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 group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

Additional information on nonsampling error in the CPS appear 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 paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, No. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, U.S. Department of Commerce, Bureau of the Census. This last document includes a comprehensive and up-to-date discussion of various sources of errors, and describes attempts to measure them in the CPS.

**Sampling error.** The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated standard error enables 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 the one standard error or below the estimate to one standard error above the estimate would include the average result of all possible sample.
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 were required. First, the standard errors in this report reflect the sample design and estimation procedure in effect prior to the expansion for annual average State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Secondly, instead of computing an individual standard error for each estimate, generalized sets of standard errors were 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 A and B show approximate standard errors for major employment status characteristics for both monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G 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 tables 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 two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates and percentages as pertaining to 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 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<b>(In thousands)</b>		
Total, 16 years and over:		
Civilian labor force . . . . .	223	171
Employed . . . . .	236	180
Unemployed . . . . .	107	111
Males, 20 years and over:		
Civilian labor force . . . . .	124	107
Employed . . . . .	135	118
Unemployed . . . . .	68	71
Females, 20 years and over:		
Civilian labor force . . . . .	168	129
Employed . . . . .	167	131
Unemployed . . . . .	64	67
Both sexes, 16-19 years:		
Civilian labor force . . . . .	80	85
Employed . . . . .	84	94
Unemployed . . . . .	56	69
Black and other, 16 years and over:		
Civilian labor force . . . . .	78	60
Employed . . . . .	85	65
Unemployed . . . . .	54	57
Males, 20 years and over:		
Civilian labor force . . . . .	44	38
Employed . . . . .	49	43
Unemployed . . . . .	33	35
Females, 20 years and over:		
Civilian labor force . . . . .	62	48
Employed . . . . .	62	49
Unemployed . . . . .	34	36
Both sexes, 16-19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	35
Unemployed . . . . .	29	32

*Standard errors for estimated totals.* Tables C and D 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 the tables showed that 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 C shows that the standard error on an estimate of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. 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 58 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 column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

*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 on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000 or the annual average base is less than 35,000.

Tables E and F shows 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 percentages can be obtained through the use of the standard errors in table G and the factors in table H. First obtain the standard error from table G for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table G by the appropriate factor from table H. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

*Illustration.* For example, assume that the tables show that 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table G (0.09 percent). The appropriate factor from table H for the numerator of the percentage, agriculture employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately  $0.09 \times 1.26 = 0.1$  percent.

*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 percentage 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 I 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 I to obtain the approximate standard error for the average or change.

*Illustration.* For an example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us assume that the tables show that for a certain month the unemployment rate is 6.9 percent based on a total of 95,676,000 in the civilian labor force, and that a year prior to this the unemployment rate was 6.1 percent based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table E (0.11 percent). The appropriate factor then from table I is 1.40. The approximate standard error on the change of 0.8 percent is then given by  $0.11 \times 1.40 = 0.15$  percent.

**Table B. Standard errors of unemployment rates for major characteristics**

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	.11	.11	<b>OCCUPATION—Continued</b>		
Males, 20 years and over . . . . .	.13	.13	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.35	.40
Both sexes, 16-19 years . . . . .	.55	.65	Transport equipment operatives . . . . .	.49	.55
White workers . . . . .	.11	.11	Nonfarm laborers . . . . .	.62	.71
Black (and other) workers . . . . .	.45	.47	Service workers . . . . .	.31	.34
Married men, spouse present . . . . .	.12	.13	Farm workers . . . . .	.55	.62
Married women, spouse present . . . . .	.21	.22	<b>INDUSTRY</b>		
Full-time workers . . . . .	.11	.12	Nonagricultural private wage and salary workers . . . . .	.12	.13
Part-time workers . . . . .	.32	.40	Construction . . . . .	.58	.66
Unemployed 15 weeks and over . . . . .	.06	.07	Manufacturing . . . . .	.22	.24
<b>OCCUPATION</b>			Durable goods . . . . .	.27	.30
White-collar workers . . . . .	.12	.13	Nondurable goods . . . . .	.36	.40
Professional and technical . . . . .	.18	.20	Transportation and public utilities . . . . .	.31	.35
Managers and administrators, except farm . . . . .	.19	.21	Wholesale and retail trade . . . . .	.25	.28
Sales workers . . . . .	.37	.41	Finance and service industries . . . . .	.17	.19
Clerical workers . . . . .	.23	.26	Government workers . . . . .	.21	.23
Blue-collar workers . . . . .	.20	.22	Agricultural wage and salary workers . . . . .	1.09	1.24
Craft and kindred workers . . . . .	.27	.30			

**Table C. Standard errors for estimates of monthly level (In thousands)**

Estimated monthly level	Characteristics <sup>1</sup>								
	Agricultural employment	Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white males only, or females only	Black and other males only, or females only	Total or white	Black and other
50 . . . . .	13	10	10	10	10	9	9	10	11
100 . . . . .	18	14	14	14	14	13	13	14	15
500 . . . . .	41	32	32	32	28	30	29	31	33
1,000 . . . . .	57	45	44	44	33	42	40	44	46
2,000 . . . . .	81	64	60	60	13	59	52	62	63
4,000 . . . . .	113	90	79	77	—	82	60	87	83
6,000 . . . . .	137	109	88	84	—	99	53	106	93
8,000 . . . . .	—	125	90	84	—	113	16	122	—
10,000 . . . . .	—	139	87	76	—	124	—	135	—
15,000 . . . . .	—	166	36	—	—	146	—	163	—
20,000 . . . . .	—	188	—	—	—	161	—	182	—
30,000 . . . . .	—	219	—	—	—	177	—	—	—
40,000 . . . . .	—	249	—	—	—	178	—	—	—
50,000 . . . . .	—	253	—	—	—	164	—	—	—
60,000 . . . . .	—	260	—	—	—	131	—	—	—
70,000 . . . . .	—	260	—	—	—	49	—	—	—
80,000 . . . . .	—	254	—	—	—	—	—	—	—
100,000 . . . . .	—	221	—	—	—	—	—	—	—
120,000 . . . . .	—	143	—	—	—	—	—	—	—

<sup>1</sup> When determining the standard error of an estimate for a group which is a subset of the age, sex, race groups listed, use the standard error for the next larger group, e.g., when determining the standard error on the estimated number of employed persons age 20 to 54 years use the column for total employed.

**Table D. Standard errors for estimates of month-to-month change**

(In thousands)

Estimated monthly level	Type of characteristic <sup>1</sup>							
	Labor force data other than unemployment and agriculture employment data							
	Total or white	Black and other	Total, or white, 16-19 years	Black and other, 16-19 years	Unemployment			
					Total or white	Both sexes 16-19 years, or part-time labor force <sup>2</sup>	Black and other	Black and other, 16-19 years
50 .....	8	8	12	12	11	12	12	12
100 .....	11	11	17	17	16	17	16	17
500 .....	24	23	37	33	35	39	36	34
1,000 .....	34	33	52	37	48	55	49	39
2,000 .....	47	45	70	—	68	77	65	—
4,000 .....	66	58	89	—	93	107	80	—
6,000 .....	81	65	96	—	110	129	—	—
8,000 .....	93	68	93	—	123	147	—	—
10,000 .....	103	65	78	—	132	162	—	—
15,000 .....	123	33	—	—	145	191	—	—
20,000 .....	130	—	—	—	146	211	—	—
30,000 .....	163	—	—	—	—	—	—	—
40,000 .....	179	—	—	—	—	—	—	—
50,000 .....	189	—	—	—	—	—	—	—
60,000 .....	194	—	—	—	—	—	—	—
70,000 .....	195	—	—	—	—	—	—	—
80,000 .....	191	—	—	—	—	—	—	—
100,000 .....	179	—	—	—	—	—	—	—
120,000 .....	119	—	—	—	—	—	—	—

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

<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.

**Table E. Standard errors of unemployment rates**

Monthly base of unemployment rate (In thousands)	Monthly unemployment rate									
	1	2	5	10	15	20	25	30	35	50
50 .....	2.05	2.88	4.49	6.18	7.36	8.25	8.93	9.46	9.85	10.36
100 .....	1.45	2.04	3.18	4.37	5.20	5.83	6.32	6.69	6.97	7.33
500 .....	.65	.91	1.42	1.96	2.33	2.61	2.82	2.99	3.12	3.28
1,000 .....	.46	.65	1.01	1.38	1.65	1.84	2.00	2.12	2.21	2.32
2,000 .....	.32	.46	.71	.98	1.17	1.31	1.42	1.50	1.56	1.64
4,000 .....	.23	.32	.50	.69	.83	.92	1.00	1.06	1.10	1.16
6,000 .....	.19	.26	.41	.57	.67	.75	.82	.86	.90	.94
10,000 .....	.15	.21	.32	.44	.52	.59	.63	.67	.70	.73
20,000 .....	.11	.15	.23	.31	.37	.41	.45	.47	.49	.51
60,000 .....	.06	.08	.12	.17	.20	.23	.25	.26	.27	.28
100,000 .....	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22



**Table F. Standard errors of month-to-month change in unemployment rates**

Monthly base of unemployment rate (In thousands)	Monthly unemployment rate									
	1	2	5	10	15	20	25	30	35	50
50 .....	2.32	3.28	5.12	7.10	8.52	9.64	10.05	11.39	11.97	12.55
100 .....	1.64	2.32	3.62	5.02	6.02	6.81	7.11	8.05	8.39	8.87
500 .....	.74	1.04	1.62	2.25	2.69	3.04	3.17	3.58	3.73	3.93
1,000 .....	.52	.73	1.15	1.59	1.90	2.15	2.24	2.52	2.62	2.74
2,000 .....	.37	.52	.81	1.12	1.34	1.51	1.57	1.76	1.83	1.89
4,000 .....	.26	.37	.57	.79	.94	1.06	1.10	1.22	1.26	1.26
6,000 .....	.21	.30	.47	.64	.76	.86	.89	.97	1.00	—
10,000 .....	.16	.13	.36	.49	.59	.65	.67	.72	—	—
20,000 .....	.11	.15	.24	.33	.39	.44	.48	.51	—	—
60,000 .....	.06	.09	.13	.18	.21	.22	.23	—	—	—
100,000 .....	.05	.07	.10	.13	.14	.14	—	—	—	—

**Table G. Standard errors of 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 .....	2.03	2.85	4.44	6.12	7.28	8.15	8.83	9.34	9.72	10.19
100 .....	1.43	2.02	3.14	4.32	5.15	5.77	6.24	6.61	6.88	7.21
500 .....	.64	.90	1.41	1.93	2.30	2.58	2.79	2.95	3.07	3.22
1,000 .....	.45	.64	.99	1.37	1.63	1.82	1.97	2.09	2.17	2.28
2,000 .....	.32	.45	.70	.97	1.15	1.29	1.40	1.48	1.54	1.61
4,000 .....	.23	.32	.50	.68	.81	.91	.99	1.04	1.09	1.14
6,000 .....	.19	.26	.41	.56	.66	.74	.81	.85	.89	.93
10,000 .....	.14	.20	.31	.43	.51	.58	.62	.66	.69	.73
20,000 .....	.10	.14	.22	.31	.36	.41	.44	.47	.49	.51
40,000 .....	.07	.10	.16	.22	.26	.29	.31	.33	.34	.36
60,000 .....	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
80,000 .....	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
100,000 .....	.05	.06	.10	.14	.16	.18	.20	.21	.22	.23
160,000 .....	.04	.05	.08	.11	.13	.14	.16	.17	.17	.18

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

**Table H. Factors to be used with Table G to compute approximate standard errors for percentages and month-to-month changes in percentages**

Type of characteristic	Factor		Type of 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 data and unemployment data:			Total or white:		
Total .....	1.00	.74	Total .....	.97	1.08
Males only .....	.93	.84	Both sexes, 16-19 years .....	.97	1.21
Females only .....	.86	.75	Black and other:		
Both sexes, 16-19 years .....	1.00	1.18	Total .....	1.04	1.13
Part-time labor force .....	1.00	1.18	Both sexes, 16-19 years .....	1.04	1.24

**Table I. Factors to be used with Tables C, E, G, H to compute the approximate standard errors of level, rates and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages**

Type of characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
<b>Agricultural employment:</b>					
Total or male .....	1.30	.89	.80	.72	.70
Female or teenagers (16-19 years) .....	1.30	.83	.80	.58	.70
Part time .....	1.40	.74	.80	.46	.70
<b>Labor force data other than agricultural employment data and unemployment data:</b>					
Total or white .....	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 years) .....	1.30	.82	.88	.57	.70
Part time .....	1.40	.74	.88	.46	.60
<b>Unemployment:</b>					
Total .....	1.40	.76	.88	.50	.65
Part time .....	1.40	.69	.88	.39	.54

# Establishment data

## (B, C, and D tables)

### COLLECTION

Payroll reports provide current information on wage and salary employment, hours, earnings, and labor turnover in nonagricultural establishments, by industry and geographic location.

#### Federal-State cooperation

Under cooperative arrangements with State agencies, the respondent fills out a single employment or labor turnover reporting form, which is then used for national, State, and area estimates. This eliminates duplicate reporting on the part of respondents, and together with the use of identical techniques at the national and State levels, insures maximum comparability of estimates.

State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the information to prepare State and area series and then send the establishment data to the BLS (Washington Office) for use in preparing the national series.

#### Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Report on Employment, Payroll, and Hours; and Form 1219—Monthly Report on Labor Turnover. 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 number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, payroll and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month.

### CONCEPTS

#### Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. This information is collected each year on a supplement to the monthly 790 or 1219 report. 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, earnings, and labor turnover for the Nation and for most States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget.

#### 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 in households. Salaried officers of corporations are included. Government employment covers only civilian employees, military personnel are excluded. Employees of the Central Intelligence and National Security Agencies are also excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday or 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 laid off, on leave without pay, or on strike for the entire period or who are hired but have not been paid during the period.

#### 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 the remaining private nonagricultural components. For Federal Government, hours and earnings relate to all employees, both supervisory and nonsupervisory. Terms are defined below. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

*Production and related workers* include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, product development, auxiliary production for plants own use (e.g., power plant), and record-keeping 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, laborers, etc., whether working at the site of construction or in shops or yards, at jobs (such as pre-cutting 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, vacations, 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 and 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 includes 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.

**Gross average hourly and weekly 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 does 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 the production worker, construction worker, or nonsupervisory employee definitions.

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

Long-term trends of gross 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.

**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.

**Average overtime hours.** The overtime hours represent that portion of the gross 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 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, gross 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 stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on gross hours.

**Hours and earnings for total private nonagricultural industries.** The series covers all nonagricultural industry divisions except government. The principal source of payroll data is Form BLS 790. Secondary source material such as the Bureau's *Employment and Wages, County Business Patterns* of the Bureau of the Census, and additional supporting information such as The Hospital Guide, Part II, of the American Hospital Association and special studies by the National Council of Churches supplement data for certain industry groups within the services division.

For a technical description of this series, see the article, "Hours and Earnings for Workers in Private Nonagricultural Industries," published in the May 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints are available upon request.

**Railroads 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. Gross 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. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

**Spendable average weekly earnings.** Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker, the worker's marital status, and level of gross income. To reflect these variables, the Bureau calculates two sets of spendable earnings series based on the assumptions that the worker earned the gross average weekly earnings and was taxed at the rates applicable to either (1) a worker with no dependents, or (2) a married worker with three dependents who files a joint return. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflects the spendable earnings of only those workers, with no dependents or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact have higher gross average earnings than workers with no dependents.

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two Measures of Purchasing Power Contrasted," in the *Monthly Labor Review* for April 1971. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"Real" earnings or earnings in constant dollars, are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical

Workers (CPI-W), and then multiplying by 100. "Real" earnings for months prior to January 1978 are deflated by the unrevised CPI-W, whereas those for January 1978 forward are deflated by the revised CPI-W. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar since the base period (1967).

**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. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

**Indexes of aggregate weekly payrolls and hours.** The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the monthly average for the 1967 period. The hour aggregates are the product of average weekly hours and production-worker or nonsupervisory-worker employment, and the payroll aggregates are the product of hour aggregates and average hourly earnings. At all higher levels of aggregation, hour and payroll aggregates are the sum of the component aggregates.

**Indexes of diffusion of changes in number of employees on non-agricultural payrolls.** These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December 1974 issue of *Employment and Earnings*.

#### Labor turnover

Labor turnover is the gross movement of wage and salary workers into and out of employed status with respect to individual establishments. This movement, which relates to a calendar month, is divided into two broad types: *Accessions* (new hires and rehires) and *separations* (terminations of employment initiated by either employer or employee). Each type of action is cumulated for a calendar month and expressed as a rate per 100 employees. The date relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. Transfers to another establishment of the company are included, beginning with January 1959.

*Accessions* are the total number of permanent and temporary additions to the employment roll, including both new and rehired employees.

*New hires* are temporary or permanent additions to the employment roll of persons who have never before been employed in the establishment (except employees transferring from another establishment of the same company) or of former employees not recalled by the employer.

*Recalls* are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting

more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

*Other accessions* are all additions to the employment roll which are not classified as new hires or recalls. These include transfers from other establishments of the company and former employees returning from military leave or other absences without pay who have been counted as separations. Data on other accessions are not published separately but are included in total accessions.

*Separations* are terminations of employment during the calendar month and are classified according to cause: Quits, layoffs, and other separations are defined as follows:

*Quits* are terminations of employment initiated by employees, failure to report after being hired (if counted as new hires previously), and unauthorized absences, if on the last day of the month the person has been absent more than 7 consecutive calendar days.

*Layoffs* are suspensions without pay lasting or expected to last more than 7 consecutive calendar days, initiated by the employer without prejudice to the worker.

*Other separations*, which are not published separately but are included in total separations, are terminations of employment because of discharge, permanent disability, death, retirement, transfers to another establishment of the company, and entrance into the Armed Forces for a period expected to last more than 30 consecutive calendar days.

#### Relationship of labor turnover to employment series

Month-to-month changes in total employment in manufacturing industries reflected by labor turnover rates are not comparable with the changes shown in the Bureau's employment series for the following reasons: (1) Accessions and separations are computed for the entire calendar month; the employment reports refer to the pay period which includes the 12th of the month; and (2) employees on strike are not counted as turnover actions although such employees are excluded from the employment estimates if the work stoppage extends through the report period.

#### ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the industry 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, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table J. Summary of methods for

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
<b>Monthly data</b>		
All employees .....	All-employees 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.
Gross 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.
Gross 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.
Gross average weekly earnings .....	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates .....	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
<b>Annual average data</b>		
All employees, women employees, and production or nonsupervisory workers .....	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross 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.

See footnotes at end of table.

**Table J. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover—Continued**

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Annual average data—Continued		
Gross 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.
Gross average weekly earnings .....	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates .....	Annual average aggregate (of each labor turnover action) divided by annual average employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

<sup>1</sup> The estimates result from multiplying the product shown by business birth adjustment factors to compensate for the under representation of newly formed enterprises 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 com-

pensate 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.

computing industry statistics on employment, hours, earnings, and labor turnover.

**Size and regional stratification**

A number of industries are stratified by size of establishment and/or by region, and the stratified production- or nonsupervisory worker-data are used to weight the hours and earnings 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, 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 comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1977 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 nearly nine-tenths of the total nonagricultural employment in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted at levels 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 1977 benchmark adjustment is shown in table K.

**Table K. Comparison of nonagricultural employment benchmarks based on 1972 SIC and estimates based on 1967 SIC for 1977**

Industry division	Benchmark (1972 SIC) March 1977	Estimate (1967 SIC) March 1977	Percent difference
Total .....	80,493	80,547	-0.1
Mining .....	805	827	-2.7
Construction .....	3,430	3,451	-.6
Manufacturing .....	19,253	19,183	.4
Transportation and public utilities .....	4,603	4,522	1.8
Wholesale and retail trade .....	17,891	17,799	.5
Finance, insurance, and real estate .....	4,377	4,422	-1.0
Services .....	14,935	15,028	-.6
Government .....	15,199	15,315	-.8

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data, the BLS publishes, as soon as possible after each benchmark revision, a summary volume of employment, hours, earnings, and labor turnover statistics, entitled *Employment and Earnings, United States*.

**THE SAMPLE**

**Design**

The sampling plan used in the current employment statistics program 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 large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for 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 fluctuations 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 employment and labor turnover statistics programs, with their 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 reports are mailed by respondents, 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 L 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 M shows the approximate coverage, in terms of employment, of the labor turnover sample.

#### Reliability of the employment estimates

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 cumulate 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 N presents the average percent revisions (based on the 1967 SIC) of the

**Table L. Approximate size and coverage of BLS employment and payrolls sample, March 1977<sup>1</sup>**

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total .....	164,300	32,152,000	40
Mining .....	2,100	313,000	39
Construction .....	16,300	686,000	20
Manufacturing .....	47,100	11,166,000	58
Transportation and public utilities:			
Railroad transportation (ICC) .....	77	508,000	95
Other transportation and public utilities ..	7,400	2,208,000	53
Wholesale and retail trade .....	40,600	3,242,000	18
Finance, insurance, and real estate .....	10,600	1,583,000	36
Services .....	24,300	2,896,000	19
Government:			
Federal (Civil Service Commission) <sup>2</sup> .....	3,700	2,714,000	100
State and local .....	12,100	6,836,000	55

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

<sup>2</sup> National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,700 reports covering about 55 percent of employment in Federal establishments.

**Table M. Approximate size and coverage of BLS labor turnover sample, March 1977**

Industry	Employees	
	Number reported	Percent of total
Total .....	10,070,140	49
Manufacturing .....	9,233,370	48
Mining .....	136,810	41
Telephone communication .....	699,960	72

six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors (based on the 1967 SIC) for major industries are presented in table N and for individual industries with the specified number of employees in table O. 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 experience of the last 6 years and the 1967 SIC) of differences between final estimates and benchmarks are presented in table O.

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 P 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

**Table N. Average benchmark percent revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry division<sup>1</sup>**

[In percent]

Industry division	Average benchmark revision in estimates of employment <sup>2</sup>	Relative errors <sup>3</sup> (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.2		
Total private	.1	0.1	0.2
Mining	1.2	.5	.5
Contract construction	1.2	.2	.3
Manufacturing	.3	.1	.1
Durable	.4	.1	.1
Nondurable goods	.3	.1	.1
Transportation and public utilities	.4	.7	.4
Trade	.3	.1	.2
Wholesale	1.0	.2	.3
Retail	.2	.2	.2
Finance, insurance, and real estate	.4	.2	.4
Services	.6	.4	.8
Government <sup>4</sup>	.6	—	—

<sup>1</sup> Based on 1967 SIC.

<sup>2</sup> The average percent revision in employment for the 1967-71 and 1974 benchmarks.

<sup>3</sup> Relative errors relate to March 1971 data.

<sup>4</sup> Estimates for government are based on a total count for Federal Government and samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

**Table O. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings<sup>1</sup>**

Size of employment estimate	Root-mean-square error of employment estimates <sup>2</sup>	Relative errors <sup>3</sup> (in percent)	
		Average weekly hours	Average hourly earnings
50,000	1,900	0.9	1.5
100,000	2,700	.7	1.1
200,000	4,100	.5	.9
500,000	9,600	.4	.8
1,000,000	13,000	.3	.5
2,000,000	16,800	.3	.5

<sup>1</sup> Based on 1967 SIC.

<sup>2</sup> Assuming 12-month intervals between benchmark revisions.

<sup>3</sup> Relative errors relate to March 1971 data.

**Table P. Errors of preliminary employment estimates<sup>1</sup>**

Size of employment estimate	Root-mean-square error of	
	Monthly level	Month-to-month change
50,000	600	600
100,000	800	700
200,000	1,400	1,200
500,000	3,300	3,200
1,000,000	4,200	4,200
2,000,000	6,500	6,300
10,000,000	27,000	23,000
Total nonagricultural employment	94,000	81,000
Mining	6,000	5,000
Contract construction	17,000	15,000
Manufacturing	35,000	33,000
Transportation and public utilities	14,000	12,000
Wholesale and retail trade	33,000	31,000
Finance, insurance, and real estate	6,000	6,000
Services	27,000	22,000
Government	45,000	39,000

<sup>1</sup> Based on 1967 SIC.

## STATISTICS FOR STATES AND AREAS

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

For the States and the areas shown in the B and C sections of this periodical, all the annual average data for the detailed industry statistics currently published by each cooperating State agency are presented (from the earliest date of availability of each series) in a summary volume published annually by the BLS.

## PRODUCTIVITY DATA

Tables C-10, C-11, and C-12 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.

### Definition

*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 labor input, or labor productivity, measure changes in the volume of goods and services produced per unit of labor.

*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 payment for the self-employed, except for non-financial 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 computed 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 private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less households and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate business.

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. 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 hour data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

## State and area unemployment data

(E 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 Comprehensive Employment and Training Act, the Public Work Employment Act and the Public Works and Economic Development Act.

### ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan area and New York City, are sufficiently

reliable to be used directly from the CPS. For a description of the CPS concepts see "Explanatory note A, Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 205 labor market areas are prepared in several stages.

1. *Preliminary estimate—Employment*: The total employment estimate is based primarily on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residence as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the major categories of employment by class of worker and industry on the basis of employment relationships which existed at the time of the 1970 Decennial Census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates.

2. *Preliminary estimate-Unemployment:* In the current month, the estimate of unemployment is an aggregate of the estimates for each of three building block 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 either entering the labor force of the first time or reentering after a period of separation. This is referred to below, as the UI-based estimate.

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

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

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of the experienced unemployed; (c) the level of the experienced labor force; and (d) proportion of the working age population that is considered "youth." The composite estimate of total entrants is defined as:

$U = A(X + E) + BX$ , Where

U = total entrant unemployment

E = total employment

X = total experienced unemployment

A, B = synthetic factors incorporating seasonal variation and an assumed relationship between the proportion of youths in the working population and the historical relationship of entrants to the experienced unemployed (B factor) or the experienced labor force (A factor).

3. *Correction factors for employment and unemployment* are then applied at the State level to the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the six month period ending in the current month (e.g. a 6-month moving average).

4. *Substate adjustment for additivity.* Independent estimates of employment and unemployment are prepared both for the State (obtained directly from the CPS in the 10 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total labor force included in the LMA's exhaust the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the substate estimates of employment and unemployment add to the independent State totals. In California and New York, which also have substate areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures.* Once each year monthly estimates prepared by State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 40 States for which monthly CPS estimates are not available. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS annual averages due to differences in State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

The benchmarked estimates are produced in three stages. First, the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the second-stage estimates are forced into agreement with CPS annual averages. In the 10 States which use CPS estimates monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

## Seasonal adjustment

Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, 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 in addition, are affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment data are published regularly in *Employment and Earnings*.

The seasonal adjustment programs used for these series are an adaptation of the standard ratio-to-moving average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the methods is given in the two publications, *BLS Seasonal Factor Method (1966)* and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Data for the household series are seasonally adjusted utilizing the Census Bureau's X-11 Method. Each January, seasonal adjustment factors for unemployment and other labor force series are revised to take into account data from the previous year. In January 1976, in addition to the routine annual revisions, the Bureau introduced a modification in the procedure for seasonally

adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. In January 1978, modifications were introduced in the procedure for seasonally adjusting teenage nonagricultural employment, a number of other teenage employment series, and adult male unemployment.

All civilian 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 (males and females under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. In order to provide seasonally adjusted total employment and civilian labor force estimates, the appropriate series are aggregated. The unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted sex-age components) by the civilian labor force (the sum of 12 seasonally adjusted sex-age components).

Revised seasonally adjusted series for major components of the labor force based on data through December 1978, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1979 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, women employees, production workers, hours, and earnings, are computed using the *BLS Seasonal Factor Method*. 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 weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted revised Consumer Price Index for Urban Wage Earners and Clerical Workers (revised 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 1967 base. For total private, total goods-producing, total private service-producing, 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 1967 base.

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Furthermore, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service. Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

For labor turnover rates, seasonal adjustment factors are applied directly to the component series. These series are then aggregated to obtain total levels (total accessions and total separations). These factors are derived by the *Census X-11 Method* using the trading day option. As a result, these series are adjusted for the number of times each day of the week occurs in a given month, as well as for the month of the year.

The revised seasonally adjusted series for the establishment data reflect experience through May 1978. Seasonal factors to be used for current adjustment appear in the October 1978 issue of *Employment and Earnings*.

Additional information concerning the preparation of the labor force, employment, hours, earnings, and labor turnover series—concepts and scope, survey methods, and limitations—is contained in the *Handbook of Methods, BLS Bulletin 1910*.

# U.S. Department of Labor

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*State and Local Area Unemployment Statistics Program (LAUS), Current Employment Statistics Program (CES), and Labor Turnover Statistics Program (LTS)*

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IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (LAUS and CES).
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