

# Employment and Earnings

## May 1978



U.S. Department of Labor  
Bureau of Labor Statistics

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In this issue:  
1975-77 annual averages  
for States and areas





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

**BUREAU OF LABOR STATISTICS**  
Julius Shiskin, Commissioner

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

<sup>1</sup> The issue that introduces new benchmark varies. The October 1975 issue marks the introduction of March 1974 benchmarks. Interim revisions of selected series

appear in the February 1977 issue.  
<sup>2</sup> Revised data introduced December 1977.

# Employment and Earnings

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Editors: Chester L. Green, Gloria P. Green, Marcy Freedman

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<sup>1</sup> Monthly data in February, May, August, and November issues; annual averages in March issue.

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# Employment and Unemployment Developments, April 1978

Employment rose sharply in April and unemployment declined. The Nation's unemployment rate was down to 6.0 percent, the lowest level in 3½ years.

Total employment—as measured by the monthly survey of households—advanced by more than half a million, to 93.8 million. As a result of this strong increase, the proportion of the working age population that is employed rose to a record high of 58.4 percent.

Nonfarm payroll employment—as measured by the monthly survey of establishments—posted a gain of 620,000; about 160,000 of this increase represented the return to work of striking coal miners.

## Unemployment

The April unemployment rate, 6.0 percent, and the number of unemployed persons, 6.0 million, were down slightly from the levels of the previous month. The unemployment rate was more than a percentage point below its year-ago level and nearly 2 points lower than a year and a half ago.

The over-the-month reduction in unemployment occurred exclusively among adult men, as women and teenagers showed little movement. Joblessness among persons seeking full-time jobs continued the decline evident since late last summer, and the number of people unemployed because of layoff dropped for the third consecutive month. Unemployment lessened considerably for craft and kindred workers and nonfarm laborers. This development was consistent with an improvement among workers in the construction industry, whose jobless rate fell to a 4-year low.

The unemployment rate for male Vietnam-era veterans declined slightly over the month, continuing a recent strong downtrend. In April 1977, the veterans' unemployment rate was about the same as that for nonveterans. However, it dropped by more than 3 percentage points over the past year to 4.5 percent—while the nonveterans' rate declined by only 1 point. Significant improvements were experienced by Vietnam veterans in all age groups.

The median duration of unemployment decreased from 6.2 to 5.8 weeks in April, due to an increased proportion of persons unemployed less than 5 weeks and a slight reduction in those unemployed 15 weeks or more. However, the mean duration of unemployment was unchanged from March at 12.3 weeks.

## Total employment and the labor force

The growth in the number of employed persons was particularly strong, increasing by 535,000 in April to 93.8 million. Blue-collar workers paced the over-the-month employment gains. Employment of adult men and women, and teenagers all rose over the month.

In line with recent trends, adult women led the increase in the labor force, which rose 370,000 over the month. The April total was thus only 220,000 below the 100-million milestone. In the past year, the labor force has grown by 2.8 million (after taking into account the effect of changes in sampling and estimating procedures in January). All major demographic groups have shown labor force gains, as well as gains in their labor force participation rates. Blacks and women have experienced the greatest rates of labor force growth over this period.

## Industry payroll employment

Nonagricultural payroll employment rose by 620,000 in April to 85.2 million, seasonally adjusted. A quarter of this increase, however, reflected the return to work of striking coal miners. Job gains were registered in more than two-thirds of the 172 industries that comprise the BLS diffusion index of private nonagricultural payrolls, with all of the major industry divisions posting increases over the month. Total nonfarm payroll employment has risen 3.5 million since April 1977; more than one-fourth of the rise (excluding the effect of the strike) took place during the past 2 months.

Primarily as a result of the strike settlement, employment in mining was up by nearly 170,000 in April to the highest level (just under 900,000) in a quarter of a century. The remainder of the March-April payroll job gain was about evenly distributed between the goods- and service-producing sectors. In the goods industries, there was an unusually sharp increase of 175,000 in contract construction. This was the second straight substantial monthly gain in the industry, pushing the employment level to an all-time high of 4.2 million. Manufacturing employment increased by 60,000 over the month, most of it in the durable goods industries.

In the service-producing sector, the bulk of the March-April job increase occurred in services (70,000) and trade (60,000). Employment in government rose by about 40,000, entirely at the State and local level.

## Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls was 36.2 hours, seasonally adjusted, slightly above the March level. The workweek had rebounded in March, following weather-related depressed levels in January and February.

Both the factory workweek and overtime were unchanged in April at 40.5 and 3.6 hours, respectively. Consistent with the strong employment upturn in the industry, hours of work in construction were up half an hour to 37.2 hours in April. The mining workweek, on the other hand, fell 0.6 hour, following a substantial rise in the previous month prior to settlement of the strike.

As a result of the sharp job advance, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls increased by

1.2 percent in April to 120.3 (1967=100), a new record. The factory index was up slightly over the month to its highest level in almost 4 years.

## Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls increased in April by 1.1 percent on a seasonally-adjusted basis, accounting for nearly all of the 1.4 percent advance in average weekly earnings. Since last April, both average hourly and weekly earnings have risen by 8.7 percent.

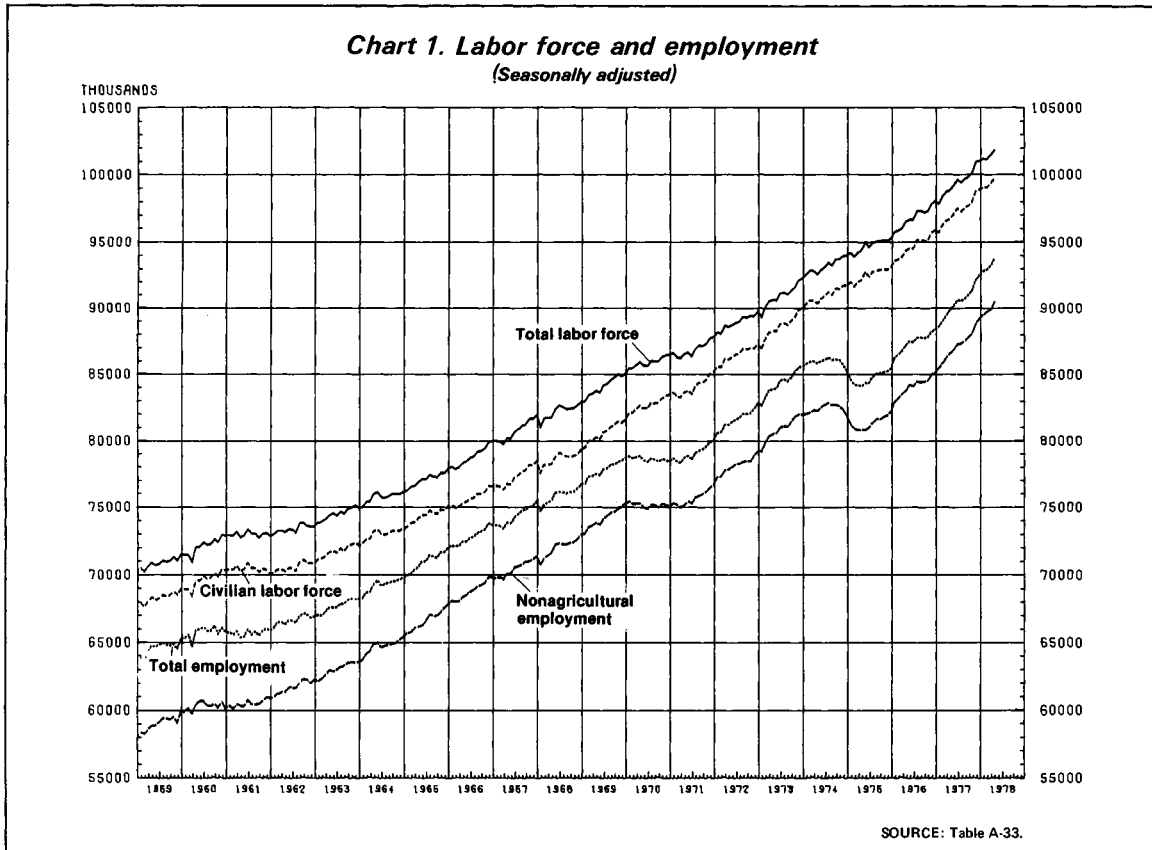
Before adjustment for seasonality, average hourly earnings were \$5.60, up 6 cents from March and 45 cents from a year earlier. Average weekly earnings increased by \$2.71 over the month to \$201.60 and have risen \$16.20 since April a year ago.



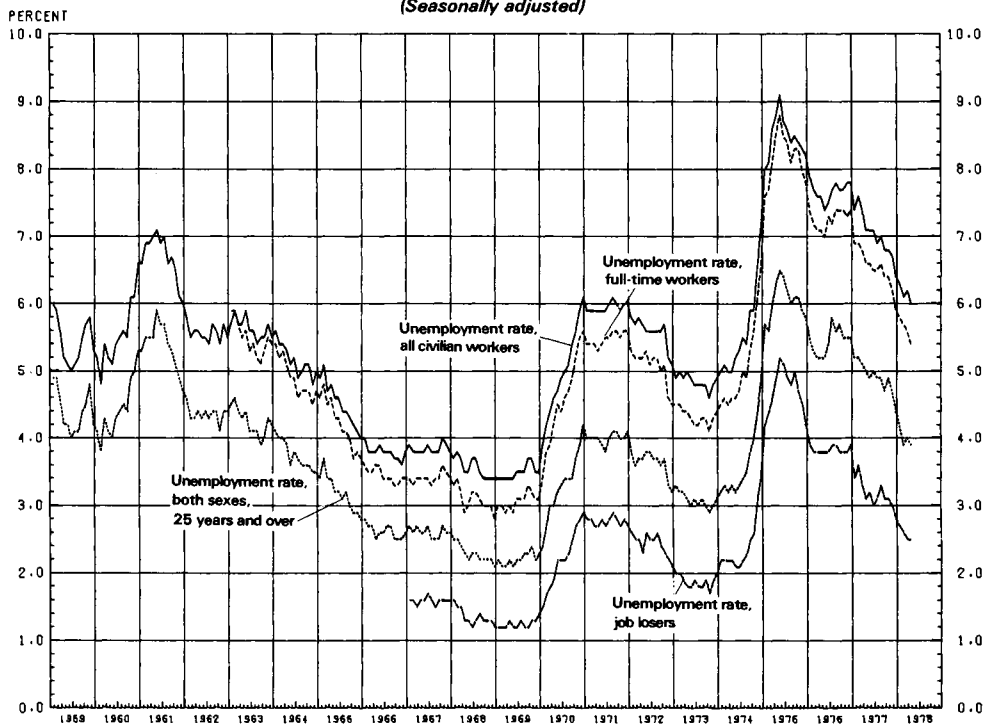
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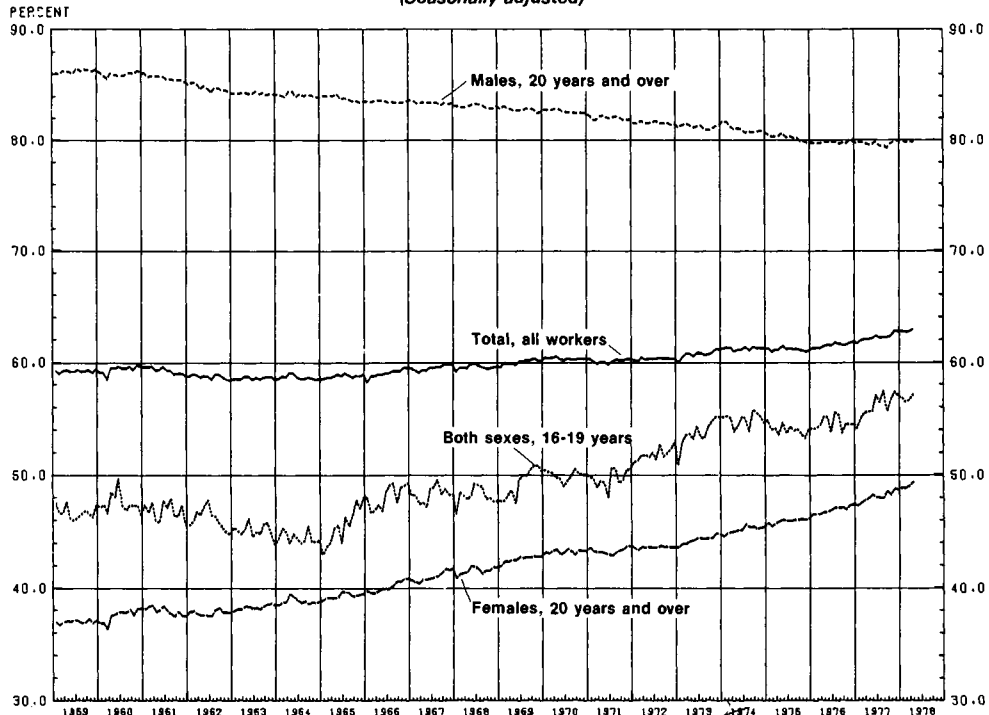


**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)



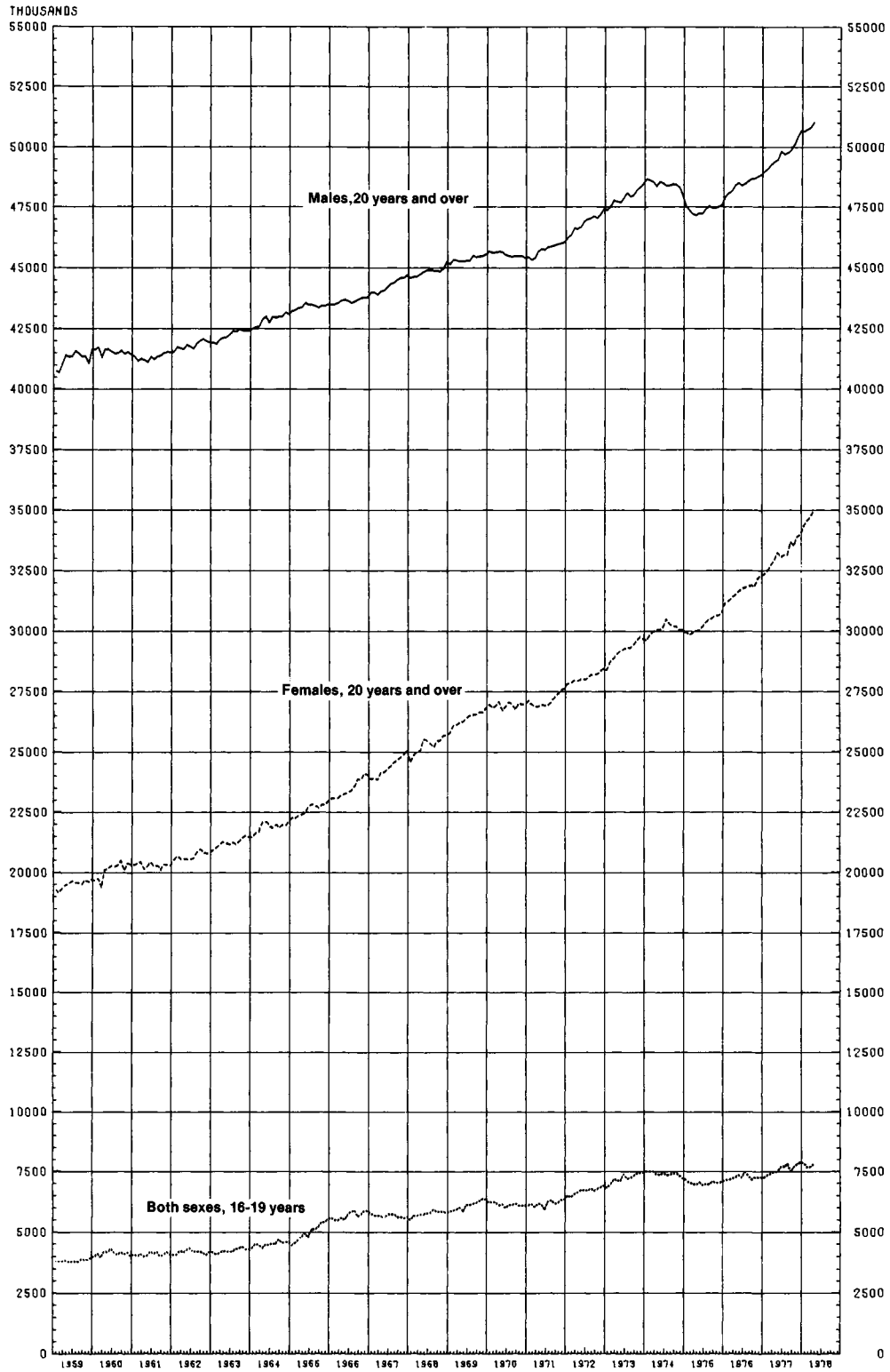
SOURCE: Tables A-36, A-38, and A-39.

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



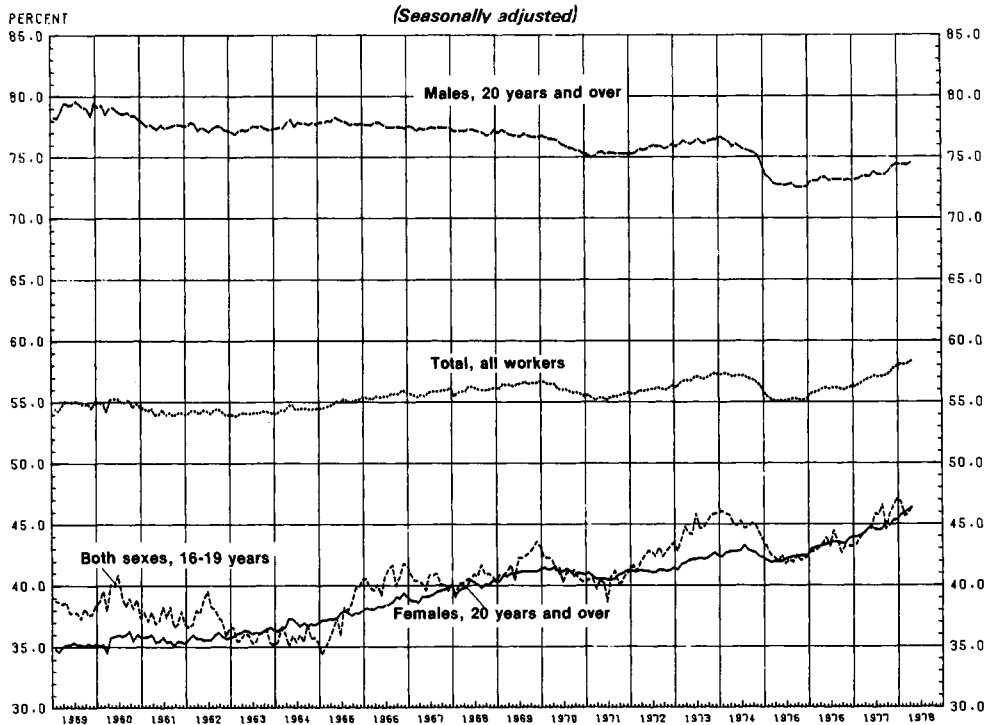
SOURCE: Table A-33.

**Chart 4. Total employment by sex and age**  
(Seasonally adjusted)



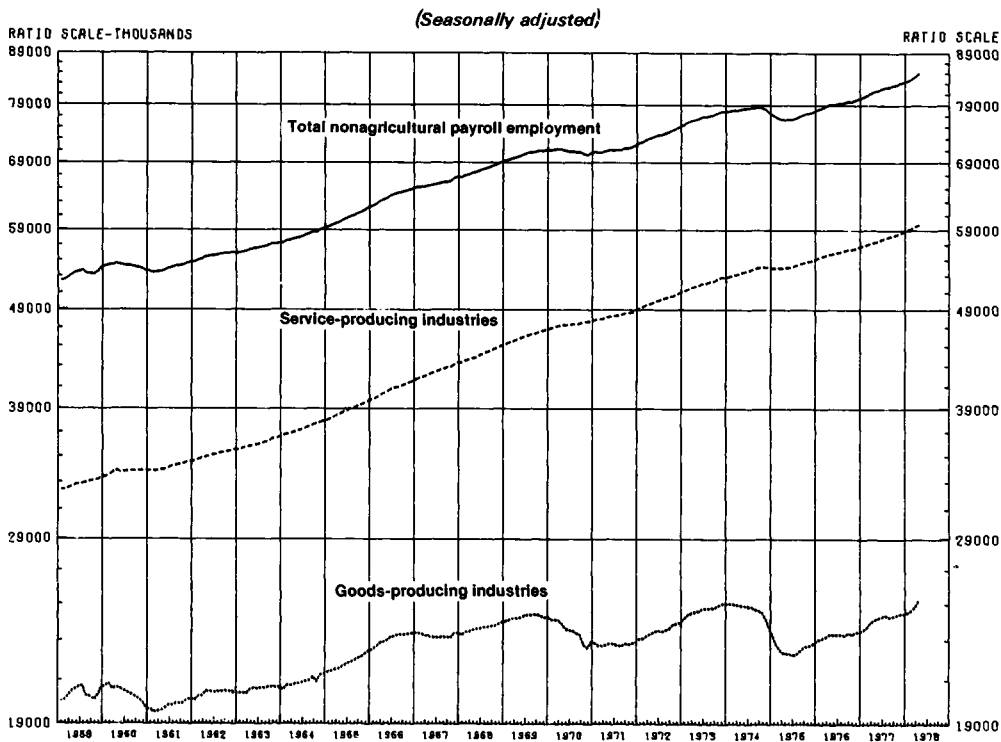
SOURCE: Table A-33.

**Chart 5. Employment—population ratios by sex and age**



SOURCE: Table A-33.

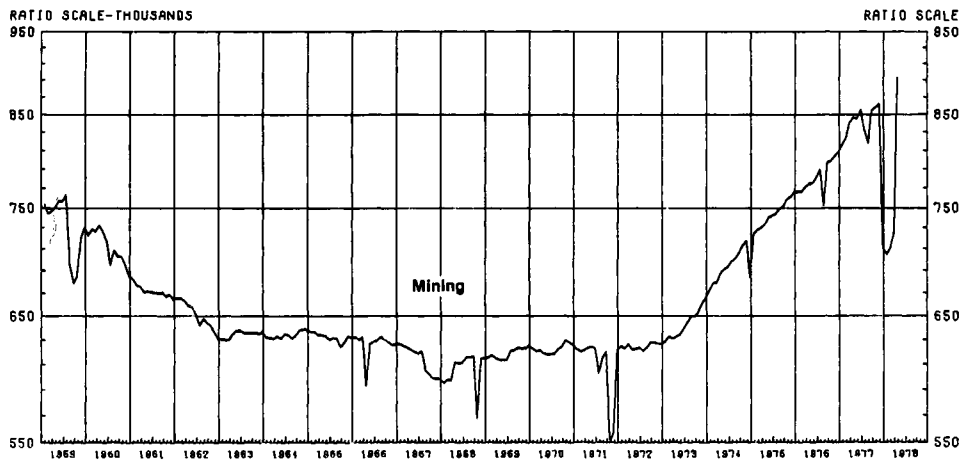
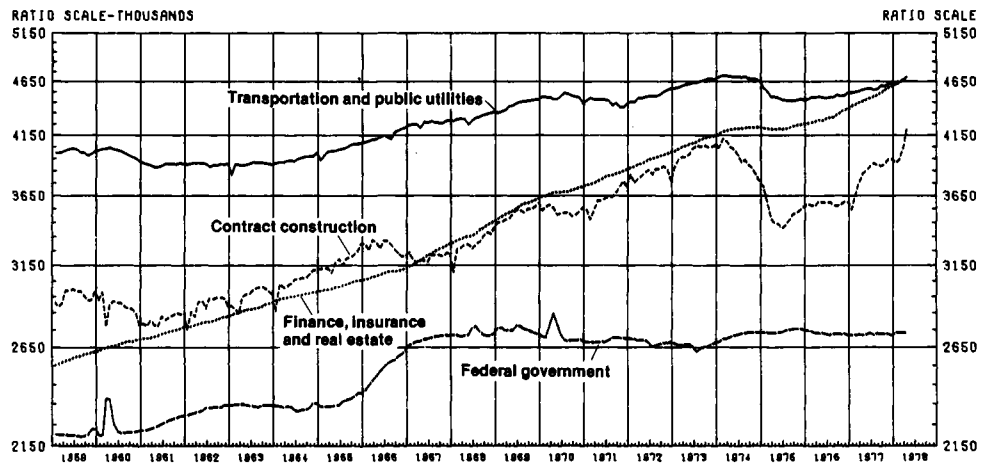
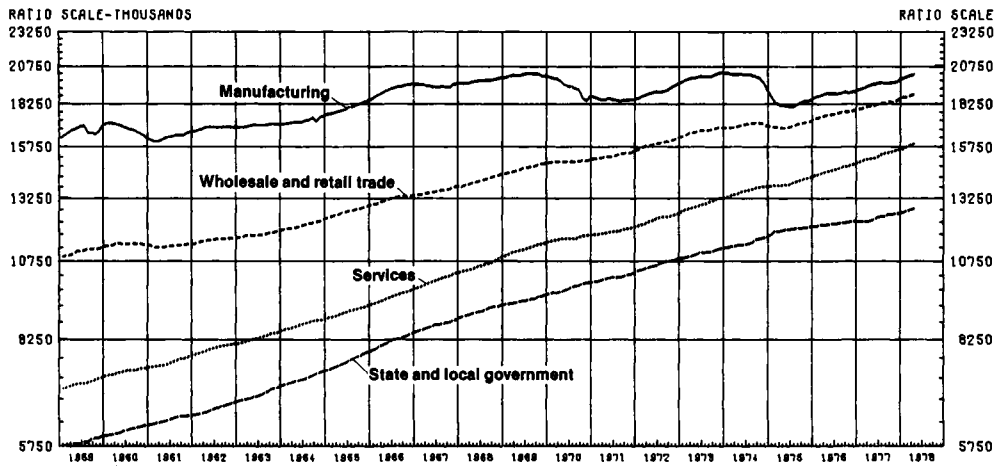
**Chart 6. Payroll employment in goods- and service-producing industries**



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

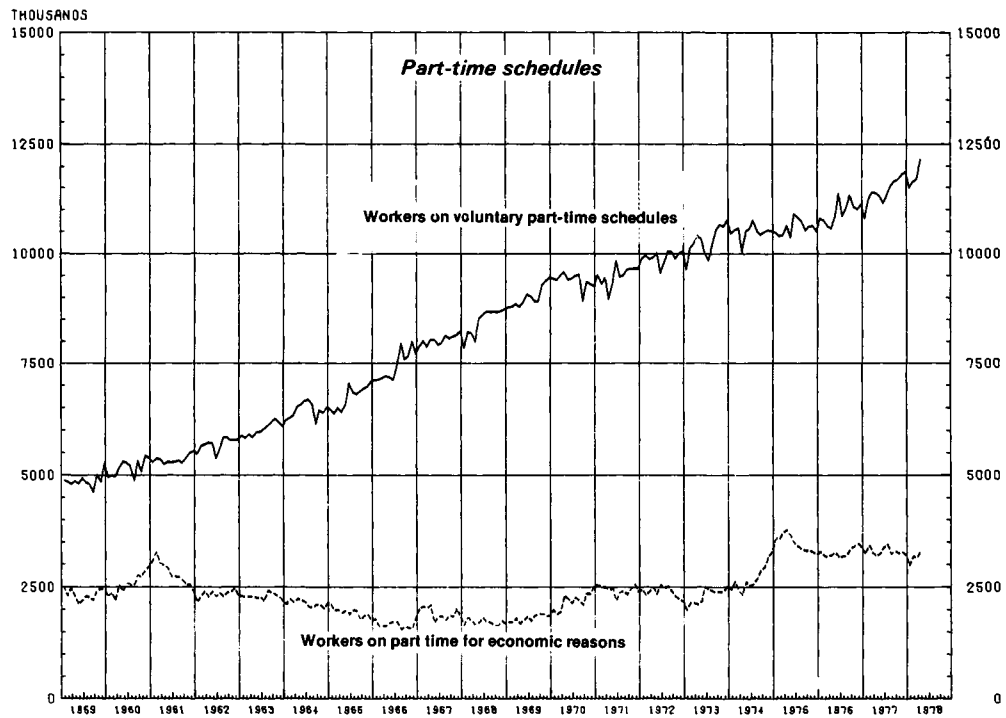
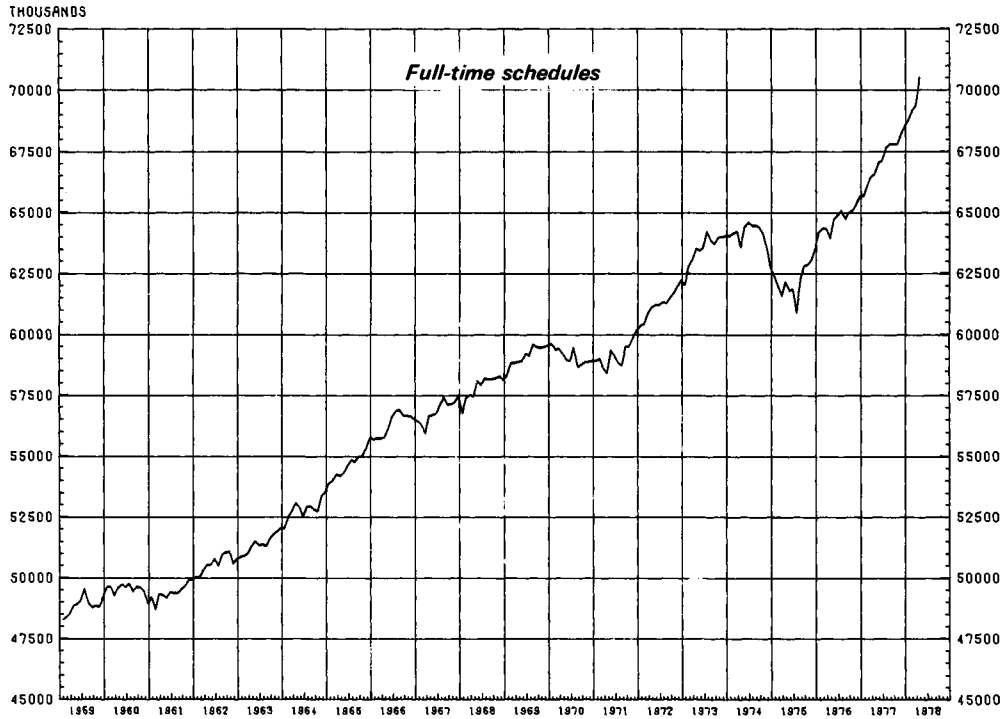
**Chart 7. Nonagricultural payroll employment by industry**  
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

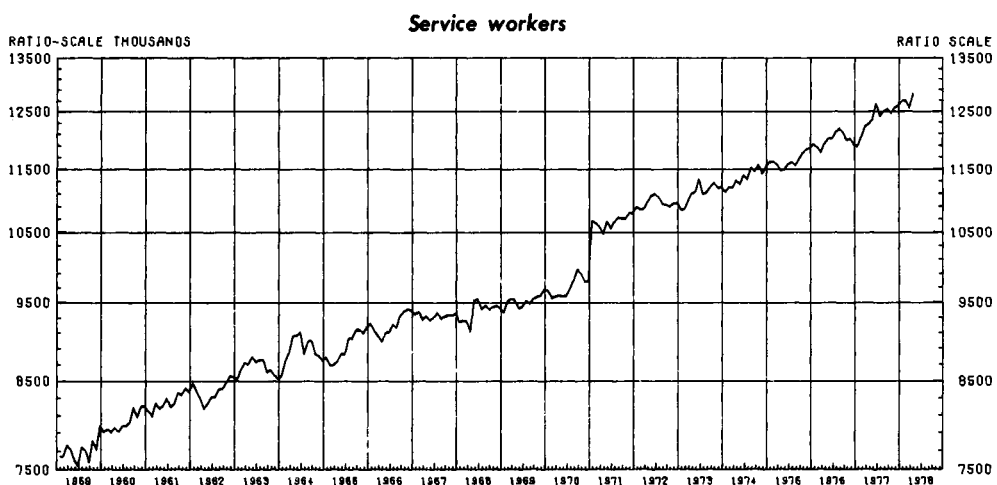
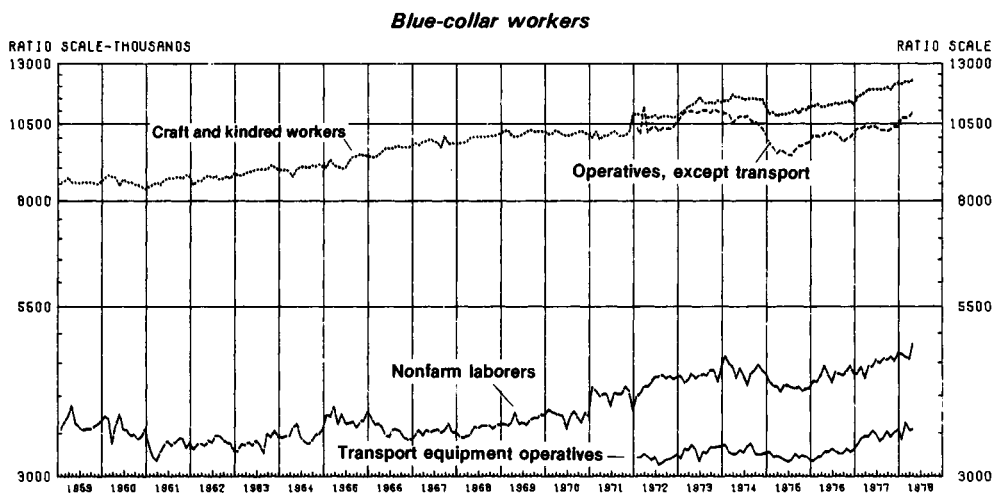
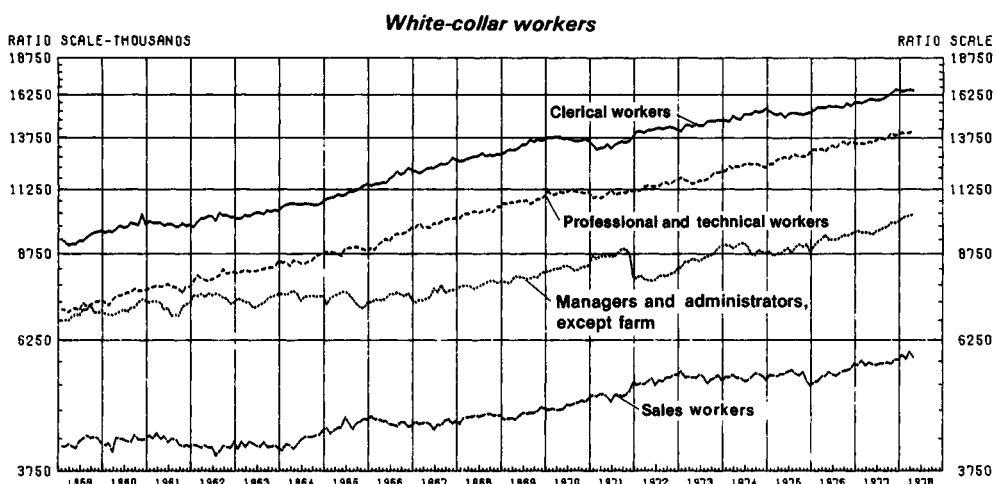
**Chart 8. Persons at work full and part time  
in nonagricultural industries**  
(Seasonally adjusted)



SOURCE: Table A-42.

### Chart 9. Employment in nonfarm occupations

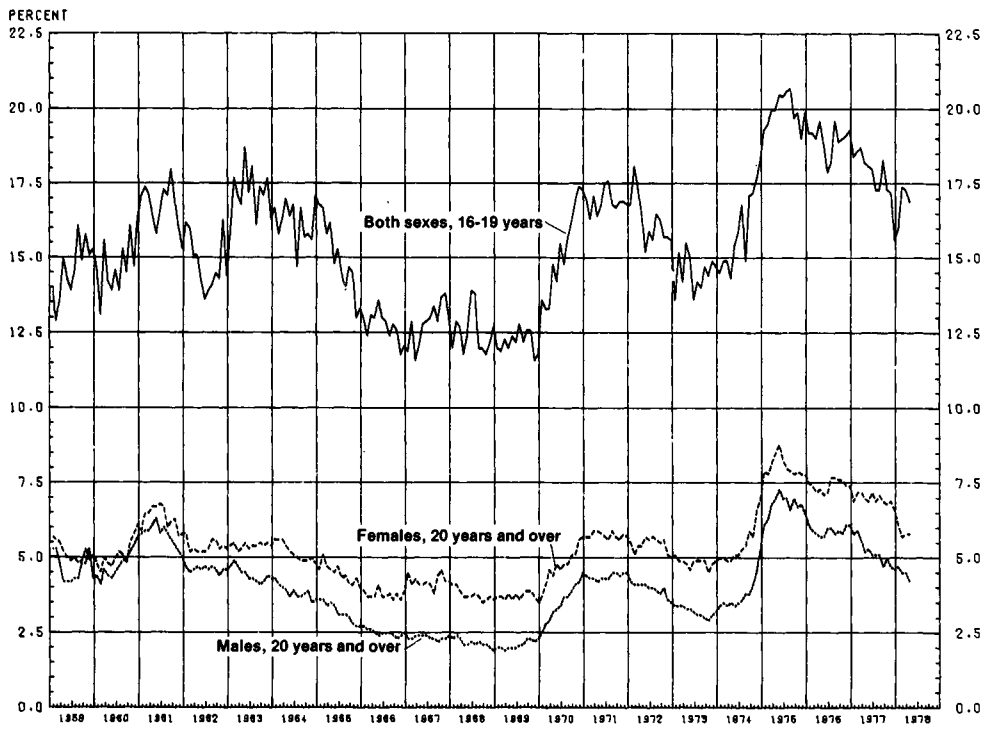
(Seasonally adjusted)



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.

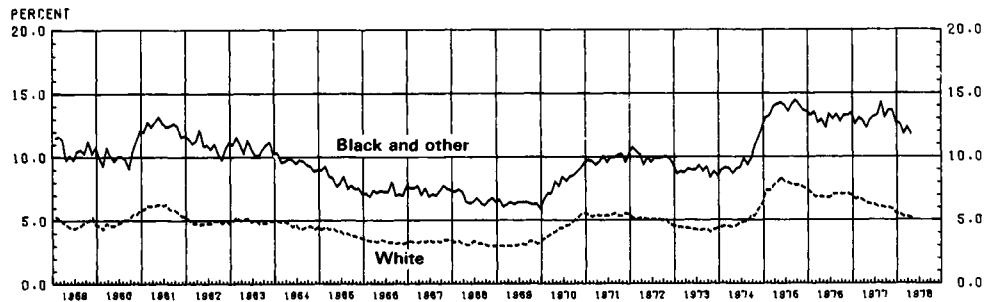
**Chart 10. Unemployment rates by sex and age**



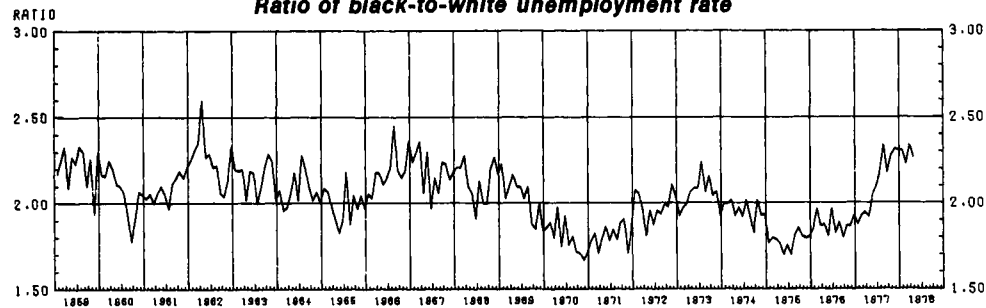
SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**

*(Seasonally adjusted)*



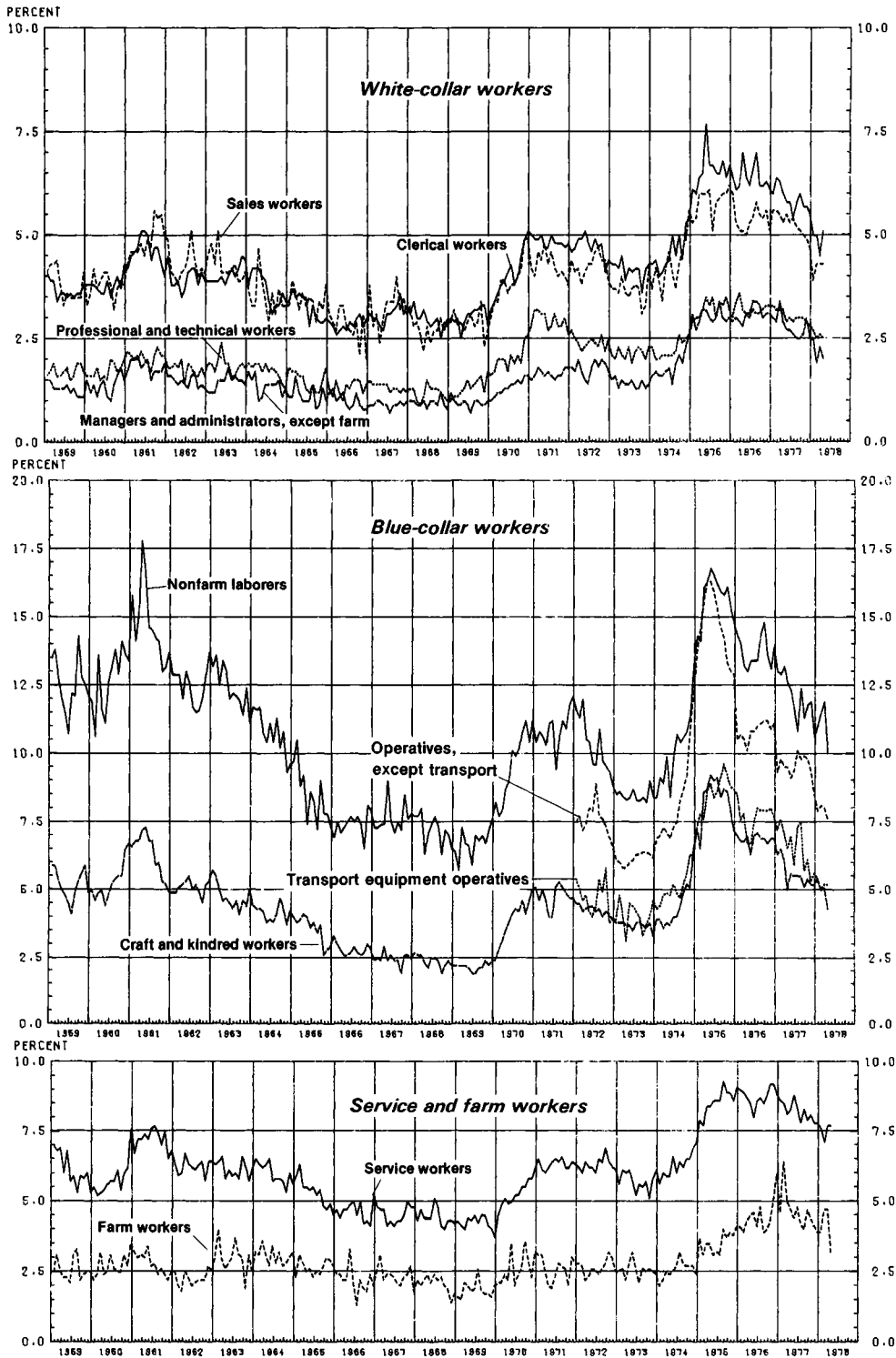
**Ratio of black-to-white unemployment rate**



SOURCE: Table A-35.

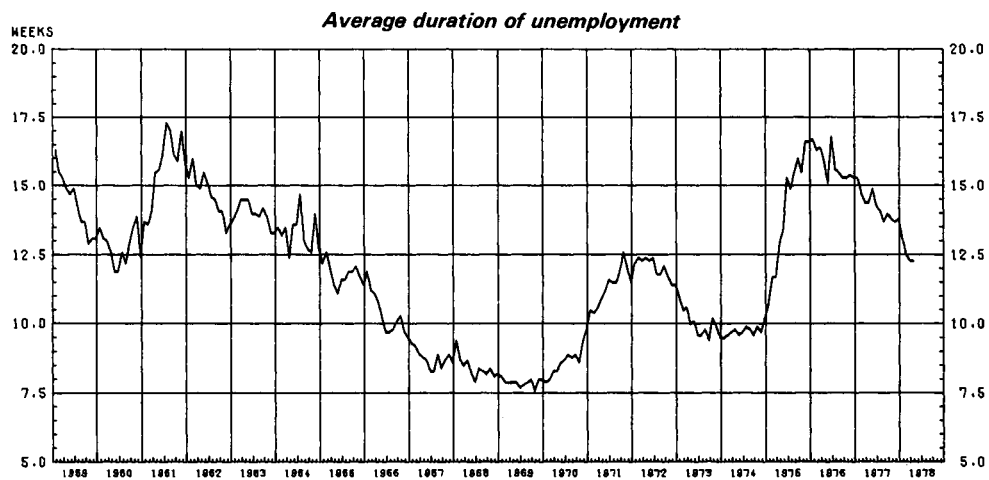
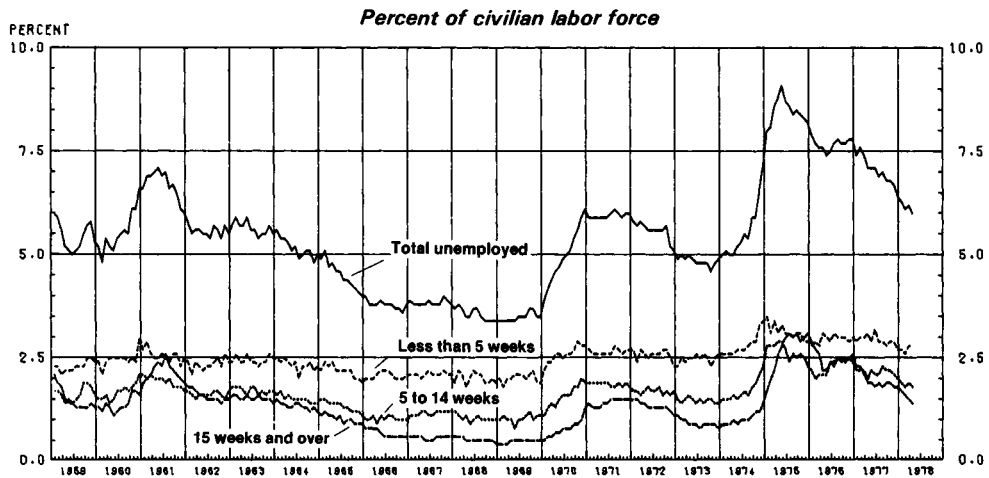
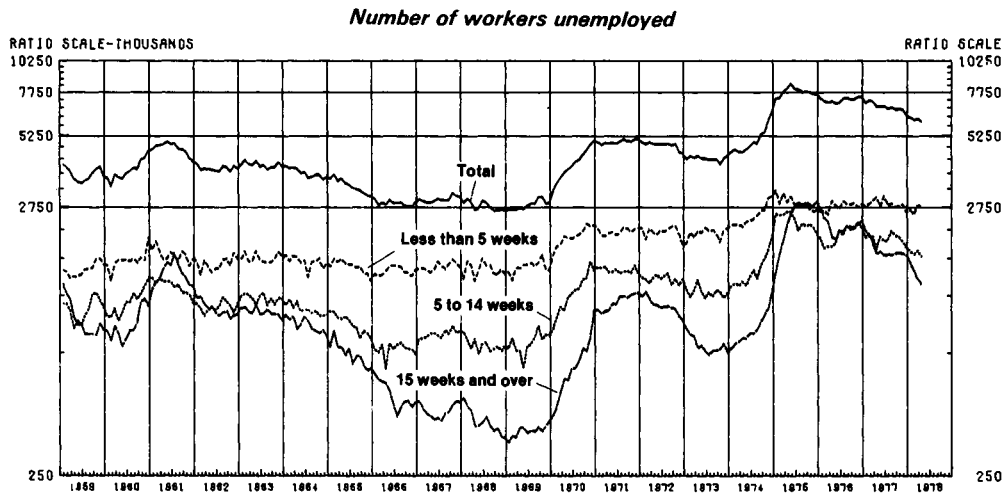


**Chart 12. Unemployment rates by major occupational groups**  
(Seasonally adjusted)



SOURCE: Table A-36.

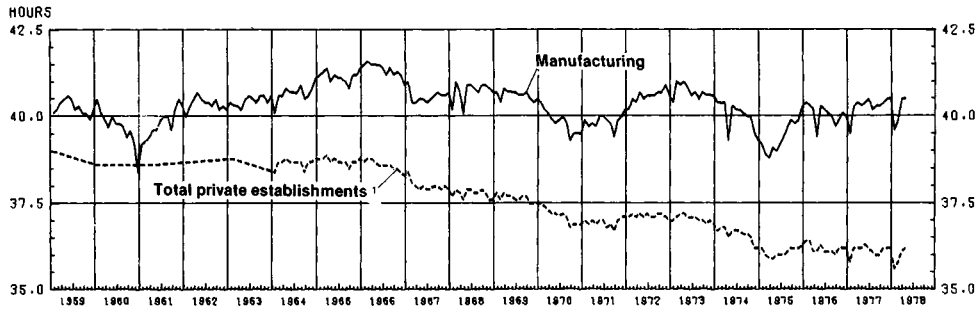
**Chart 13. Duration of unemployment**  
(Seasonally adjusted)



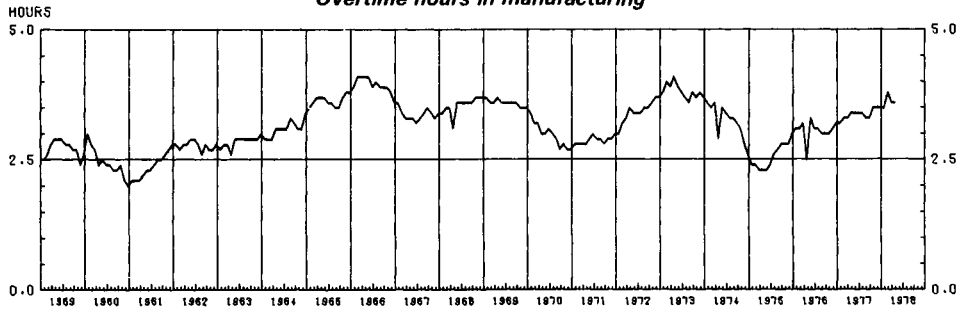
SOURCE: Table A-37.

**Chart 14. Average weekly hours in nonagricultural industries**

*(Seasonally adjusted)*



**Overtime hours in manufacturing**



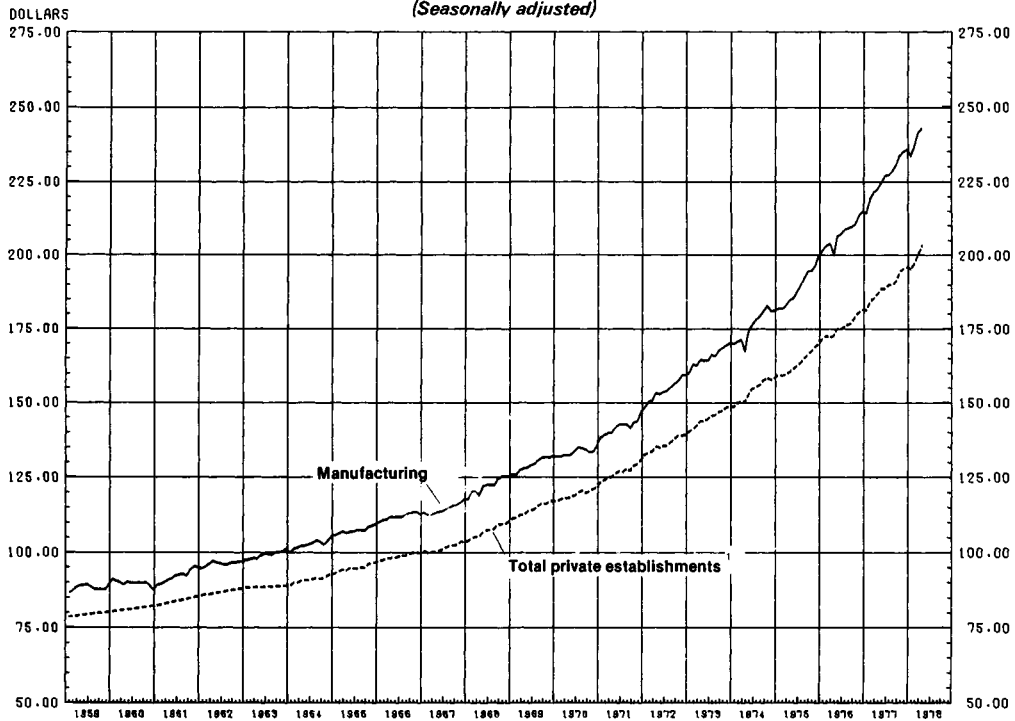
<sup>1</sup> Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

**Chart 15. Average weekly earnings in nonagricultural industries**

*(Seasonally adjusted)*

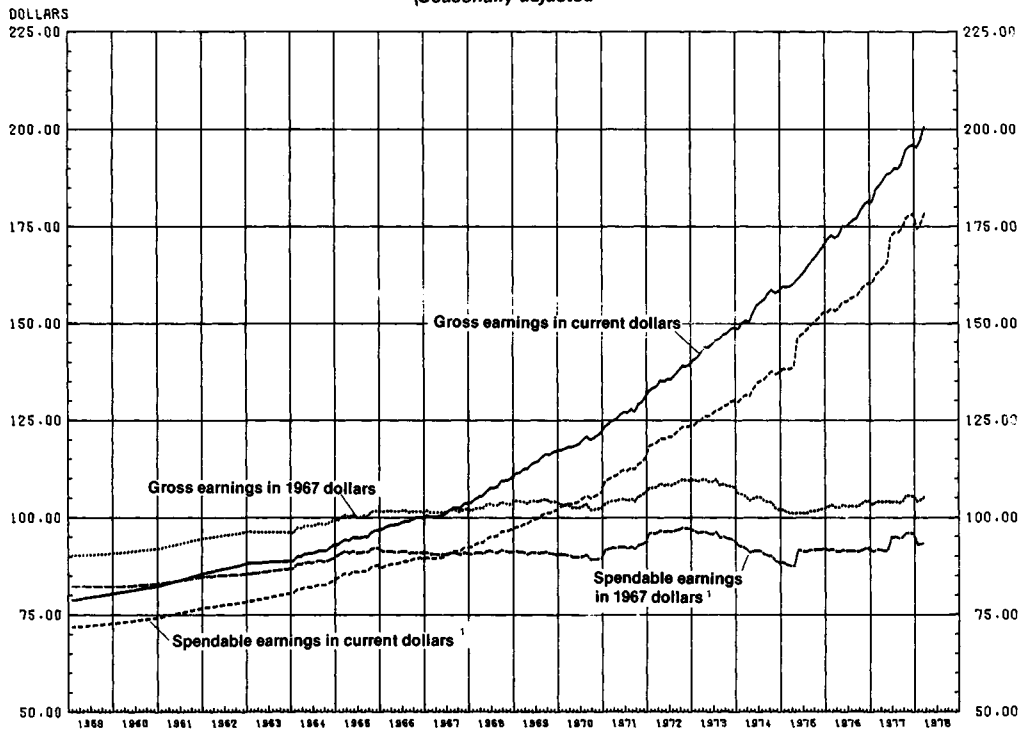


<sup>1</sup> Annual averages prior to 1964.

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)

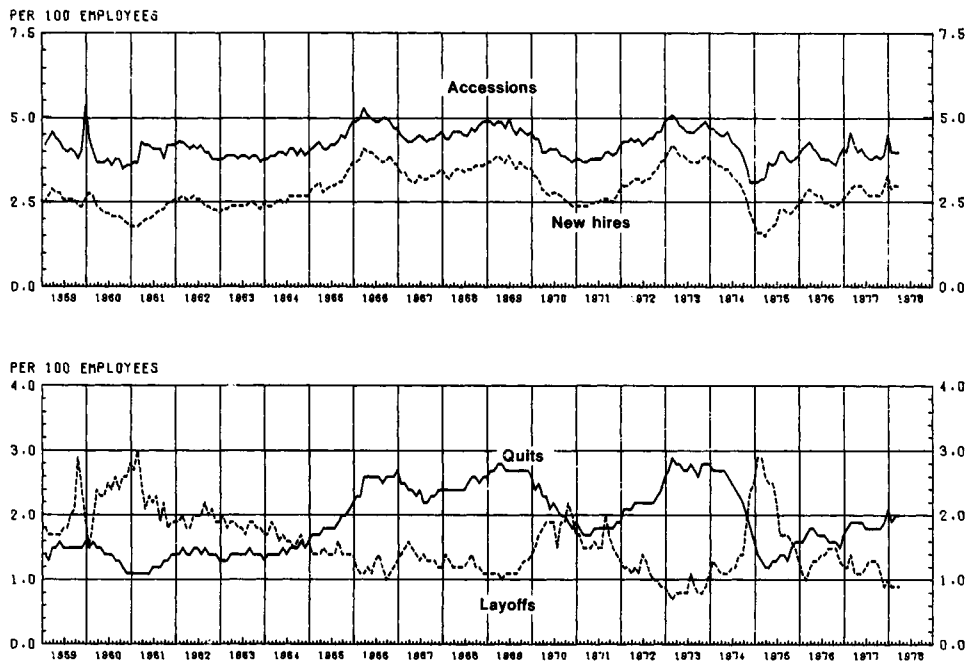


<sup>1</sup> Worker with three dependents.

NOTE: Data prior to 1964 are annual averages. Data for current month are preliminary.

SOURCE: Table C-8.

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



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

**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>TOTAL</b>										
<b>Annual averages</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 <sup>1</sup> .....	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 <sup>1</sup> .....	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 <sup>1</sup> .....	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
April.....	157,986	98,878	62.6	96,746	89,877	3,256	86,621	6,869	7.1	59,108
May.....	158,228	99,289	62.8	97,161	90,267	3,335	86,932	6,894	7.1	58,939
June.....	158,456	99,681	62.9	97,552	90,648	3,330	87,318	6,904	7.1	58,775
July.....	158,682	99,442	62.7	97,307	90,588	3,206	87,382	6,719	6.9	59,241
August.....	158,899	99,751	62.8	97,614	90,793	3,224	87,569	6,821	7.0	59,147
September.....	159,114	99,887	62.8	97,756	91,088	3,199	87,889	6,668	6.8	59,227
October.....	159,334	100,205	62.9	98,071	91,383	3,243	88,140	6,688	6.8	59,130
November.....	159,522	101,009	63.3	98,877	92,214	3,357	88,857	6,663	6.7	58,512
December.....	159,736	101,048	63.3	98,919	92,609	3,323	89,286	6,310	6.4	58,689
1978:										
January <sup>1</sup> .....	159,937	101,228	63.3	99,881	92,881	3,354	89,527	6,226	6.3	58,709
February.....	160,128	101,217	63.2	99,003	93,003	3,242	89,761	6,090	6.1	58,911
March.....	160,313	101,536	63.3	99,266	93,266	3,310	89,956	6,148	6.2	58,776
April.....	160,504	101,902	63.5	99,784	93,801	3,275	90,526	5,983	6.0	58,602

<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>										
<b>Annual averages</b>										
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	16,344
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
April.....	75,706	59,093	78.1	57,074	53,482	2,621	50,861	3,592	6.3	16,613
May.....	75,873	59,297	78.2	57,282	53,644	2,700	50,944	3,638	6.4	16,526
June.....	75,932	59,563	78.4	57,549	54,006	2,693	51,313	3,543	6.2	16,370
July.....	76,041	59,418	78.1	57,399	53,901	2,613	51,288	3,498	6.1	16,623
August.....	76,144	59,496	78.1	57,475	53,942	2,647	51,295	3,533	6.1	16,647
September.....	76,246	59,332	77.8	57,318	53,964	2,630	51,334	3,354	5.9	16,915
October.....	76,352	59,826	78.4	57,810	54,341	2,642	51,699	3,469	6.0	16,226
November.....	76,439	60,112	78.6	58,097	54,745	2,685	52,060	3,352	5.8	16,327
December.....	76,541	60,236	78.7	58,225	55,012	2,702	52,310	3,213	5.5	16,305
1978:										
January <sup>1</sup> .....	76,636	60,210	77.4	58,207	54,975	2,749	52,226	3,232	5.6	16,426
February.....	76,725	60,149	78.4	58,142	54,897	2,566	52,331	3,245	5.6	16,577
March.....	76,811	60,285	78.5	58,284	55,013	2,613	52,400	3,271	5.6	16,526
April.....	76,901	60,261	78.4	58,264	55,208	2,576	52,632	3,056	5.2	16,640
<b>FEMALES</b>										
<b>Annual averages</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	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
April.....	82,280	39,785	48.4	39,672	36,395	635	35,760	3,277	8.3	42,495
May.....	82,405	39,992	48.5	39,879	36,623	635	35,988	3,256	8.2	42,413
June.....	82,524	40,119	48.6	40,003	36,642	637	36,005	3,361	8.4	42,405
July.....	82,642	40,024	48.4	39,908	36,687	593	36,094	3,221	8.1	42,618
August.....	82,755	40,255	48.6	40,139	36,851	577	36,274	3,288	8.2	42,500
September.....	82,868	40,556	48.9	40,438	37,124	569	36,555	3,314	8.2	42,312
October.....	82,983	40,379	48.7	40,261	37,042	601	36,441	3,219	8.0	42,604
November.....	83,082	40,898	49.2	40,780	37,469	672	36,797	3,311	8.1	42,185
December.....	83,195	40,812	49.1	40,694	37,597	621	36,976	3,097	7.6	42,385
1978:										
January <sup>1</sup> .....	83,301	41,017	48.6	40,900	37,906	605	37,301	2,994	7.3	42,284
February.....	83,403	41,068	49.2	40,951	38,106	676	37,430	2,845	6.9	42,335
March.....	83,501	41,252	49.4	41,130	38,253	697	37,556	2,877	7.0	42,250
April.....	83,603	41,641	49.8	41,520	38,593	699	37,894	2,927	7.0	41,962

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

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

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	April 1978										
	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	59,669	77.6	57,672	54,674	2,998	5.2	17,232	286	4,781	1,713	10,451
16 to 21 years	8,394	65.8	7,702	6,664	1,039	13.5	4,361	26	3,919	32	384
16 to 19 years	4,987	58.8	4,669	3,950	720	15.4	3,495	23	3,229	13	230
16 to 17 years	1,994	47.0	1,975	1,594	382	19.3	2,246	15	2,115	6	110
18 to 19 years	2,993	70.6	2,694	2,356	338	12.6	1,249	8	1,114	7	120
20 to 64 years	52,761	89.3	51,082	48,891	2,191	4.3	6,316	122	1,547	1,302	3,346
20 to 24 years	8,570	85.0	7,830	7,110	721	9.2	1,517	11	1,148	56	302
25 to 54 years	37,118	94.3	36,180	34,934	1,246	3.4	2,255	55	396	690	1,114
25 to 29 years	8,329	94.4	7,956	7,533	423	5.3	489	3	258	44	184
30 to 34 years	7,442	96.3	7,198	6,963	235	3.3	284	10	64	69	141
35 to 39 years	6,007	96.4	5,814	5,624	190	3.3	226	6	31	76	113
40 to 44 years	5,165	94.8	5,076	4,938	138	2.7	285	7	19	113	147
45 to 49 years	5,115	92.9	5,083	4,956	128	2.5	389	17	15	152	206
50 to 54 years	5,059	89.7	5,053	4,920	132	2.6	581	12	9	235	325
55 to 64 years	7,072	73.5	7,071	6,847	224	3.2	2,545	56	3	556	1,929
55 to 59 years	4,401	83.4	4,400	4,263	137	3.1	874	27	2	275	570
60 to 64 years	2,671	61.5	2,671	2,585	86	3.2	1,670	29	--	281	1,360
65 years and over	1,921	20.6	1,921	1,834	87	4.6	7,421	141	6	399	6,875
65 to 69 years	1,101	29.7	1,101	1,048	53	4.8	2,610	44	--	164	2,403
70 years and over	821	14.6	821	786	35	4.2	4,811	98	6	234	4,472
<b>White</b>											
16 years and over	53,144	78.3	51,528	49,218	2,310	4.5	14,716	243	3,882	1,420	9,172
16 to 21 years	7,399	68.1	6,849	6,080	770	11.2	3,468	21	3,147	24	277
16 to 19 years	4,438	61.6	4,185	3,634	551	13.2	2,766	21	2,568	9	168
16 to 17 years	1,818	50.7	1,802	1,500	303	16.8	1,767	14	1,656	6	92
18 to 19 years	2,619	72.4	2,383	2,134	249	10.4	999	8	912	3	75
20 to 64 years	46,971	89.9	45,607	43,922	1,685	3.7	5,268	98	1,309	1,077	2,784
20 to 24 years	7,483	86.0	6,900	6,394	506	7.3	1,219	3	970	42	204
25 to 54 years	33,047	94.9	32,267	31,281	986	3.1	1,782	43	335	562	842
25 to 34 years	13,955	95.8	13,448	12,951	498	3.7	613	12	274	92	235
35 to 44 years	9,933	96.1	9,695	9,424	271	2.8	404	11	41	162	190
45 to 54 years	9,159	92.3	9,125	8,906	218	2.4	765	21	20	307	417
55 to 64 years	6,441	74.0	6,439	6,247	193	3.0	2,267	52	3	474	1,738
55 to 59 years	4,012	84.3	4,011	3,898	113	2.8	748	24	2	229	493
60 to 64 years	2,429	61.5	2,429	2,349	80	3.3	1,519	28	1	245	1,246
65 years and over	1,736	20.6	1,736	1,662	74	4.2	6,683	123	6	334	6,220
<b>Black and other</b>											
16 years and over	6,525	72.2	6,144	5,457	687	11.2	2,515	43	899	293	1,280
16 to 21 years	995	52.7	853	584	269	31.6	892	5	772	9	107
16 to 19 years	550	43.0	485	316	169	34.8	729	2	661	4	62
16 to 17 years	176	26.9	173	94	79	45.7	478	1	459	--	17
18 to 19 years	373	59.8	311	222	89	28.7	251	1	202	4	45
20 to 64 years	5,790	84.7	5,475	4,969	505	9.2	1,048	23	238	225	562
20 to 24 years	1,087	78.5	930	716	214	23.1	298	8	177	14	99
25 to 54 years	4,071	89.6	3,913	3,653	260	6.6	473	11	61	128	272
25 to 34 years	1,816	91.9	1,706	1,545	161	9.4	160	1	48	22	89
35 to 44 years	1,239	92.0	1,195	1,138	56	4.7	108	2	9	27	70
45 to 54 years	1,015	83.2	1,012	970	42	4.1	204	8	3	80	113
55 to 64 years	632	69.5	632	601	31	5.0	278	5	--	82	191
55 to 59 years	389	75.5	389	365	24	6.3	126	3	--	46	77
60 to 64 years	242	61.5	242	236	7	2.8	152	1	--	37	114
65 years and over	185	20.1	185	172	14	7.4	738	18	--	65	655

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	April 1978										
	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 .....	41,315	49.4	41,193	38,506	2,687	6.5	42,289	32,811	4,773	1,089	3,615
16 to 21 years .....	6,788	54.3	6,740	5,821	918	13.6	5,708	1,418	4,007	27	255
16 to 19 years .....	4,079	49.1	4,060	3,423	638	15.7	4,224	696	3,339	18	172
16 to 17 years .....	1,654	40.3	1,654	1,359	295	17.8	2,453	172	2,188	10	82
18 to 19 years .....	2,425	57.8	2,406	2,064	343	14.2	1,771	423	1,151	8	89
20 to 64 years .....	36,057	58.2	35,955	33,957	1,998	5.6	25,922	22,461	1,418	493	1,549
20 to 24 years .....	6,720	66.7	6,656	6,000	656	9.9	3,353	2,148	990	35	181
25 to 54 years .....	24,828	60.3	24,791	23,576	1,215	4.9	16,323	14,862	418	257	787
25 to 29 years .....	5,829	64.8	5,802	5,403	399	6.9	3,162	2,795	195	34	139
30 to 34 years .....	4,707	59.4	4,701	4,447	254	5.4	3,222	2,968	67	32	156
35 to 39 years .....	3,946	60.1	3,944	3,782	162	4.1	2,615	2,412	58	31	115
40 to 44 years .....	3,623	62.9	3,621	3,473	149	4.1	2,139	1,928	55	41	115
45 to 49 years .....	3,449	59.4	3,449	3,315	134	3.9	2,360	2,160	38	50	111
50 to 54 years .....	3,274	53.7	3,274	3,156	118	3.6	2,824	2,598	5	70	152
55 to 64 years .....	4,508	41.9	4,508	4,381	127	2.8	6,245	5,451	11	202	581
55 to 59 years .....	2,821	48.6	2,821	2,740	80	2.9	2,980	2,636	6	103	234
60 to 64 years .....	1,687	34.1	1,687	1,641	47	2.8	3,266	2,815	5	99	347
65 years and over .....	1,178	8.8	1,178	1,126	52	4.4	12,143	9,655	16	578	1,894
65 to 69 years .....	717	15.3	717	681	36	5.0	3,962	3,321	7	100	534
70 years and over .....	461	5.3	461	445	16	3.5	8,181	6,334	9	477	1,360
<b>White</b>											
16 years and over .....	35,767	49.0	35,670	33,630	2,040	5.7	37,235	29,525	3,776	862	3,072
16 to 21 years .....	6,011	56.9	5,971	5,289	682	11.4	4,544	1,158	3,166	23	197
16 to 19 years .....	3,669	52.4	3,653	3,164	489	13.4	3,330	565	2,614	16	135
16 to 17 years .....	1,525	44.2	1,525	1,276	248	16.3	1,927	145	1,702	9	72
18 to 19 years .....	2,144	60.5	2,129	1,888	241	11.3	1,403	420	912	7	63
20 to 64 years .....	31,059	57.6	30,978	29,469	1,508	4.9	22,858	20,056	1,150	366	1,286
20 to 24 years .....	5,757	67.3	5,706	5,236	470	8.2	2,794	1,807	816	30	142
25 to 54 years .....	21,266	59.6	21,236	20,308	928	4.4	14,420	13,267	323	181	648
25 to 34 years .....	8,914	61.3	8,888	8,411	477	5.4	5,634	5,152	197	44	242
35 to 44 years .....	6,457	60.6	6,454	6,219	234	3.6	4,200	3,871	95	57	177
45 to 54 years .....	5,895	56.2	5,894	5,678	216	3.7	4,586	4,245	32	81	229
55 to 64 years .....	4,036	41.7	4,036	3,926	110	2.7	5,643	4,982	11	155	496
55 to 59 years .....	2,532	48.7	2,532	2,461	71	2.8	2,671	2,397	6	74	194
60 to 64 years .....	1,504	33.6	1,504	1,465	39	2.6	2,972	2,585	5	81	302
65 years and over .....	1,039	8.6	1,039	997	43	4.1	11,047	8,904	12	480	1,651
<b>Black and other</b>											
16 years and over .....	5,547	52.3	5,523	4,876	647	11.7	5,054	3,286	998	227	543
16 to 21 years .....	777	40.1	769	532	237	30.8	1,164	261	842	4	58
16 to 19 years .....	410	31.4	407	259	148	36.4	894	131	725	2	37
16 to 17 years .....	129	19.7	129	83	47	36.1	526	28	487	1	10
18 to 19 years .....	281	43.2	278	176	102	36.5	369	103	239	1	27
20 to 64 years .....	4,998	62.0	4,977	4,487	489	9.8	3,065	2,404	268	129	263
20 to 24 years .....	963	63.3	950	765	185	19.5	449	341	175	5	39
25 to 54 years .....	3,564	65.2	3,556	3,268	288	8.1	1,903	1,593	94	76	138
25 to 34 years .....	1,622	68.4	1,615	1,440	176	10.9	751	611	65	22	52
35 to 44 years .....	1,112	66.7	1,112	1,035	77	6.9	554	469	18	15	52
45 to 54 years .....	829	58.1	829	793	36	4.3	598	513	11	40	34
55 to 64 years .....	472	43.9	472	455	17	3.5	602	469	--	47	86
55 to 59 years .....	288	48.3	288	279	9	3.1	309	240	--	29	41
60 to 64 years .....	183	38.4	183	176	8	4.1	293	230	--	18	45
65 years and over .....	139	11.3	139	130	10	6.9	1,095	751	4	97	243



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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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>MALES</b>								
16 years and over . . . . .	58,521	59,669	77.3	77.6	56,502	57,672	76.7	77.0
16 to 19 years . . . . .	4,926	4,987	58.0	58.8	4,593	4,669	56.3	57.2
16 to 17 years . . . . .	1,920	1,994	45.3	47.0	1,893	1,975	44.9	46.8
18 to 19 years . . . . .	3,006	2,993	70.6	70.6	2,700	2,694	68.4	68.3
20 to 24 years . . . . .	8,320	8,570	84.0	85.0	7,578	7,830	82.8	83.8
25 to 54 years . . . . .	36,436	37,118	94.2	94.3	35,493	36,180	94.1	94.1
25 to 34 years . . . . .	15,367	15,771	95.3	95.3	14,752	15,154	95.1	95.1
35 to 44 years . . . . .	10,831	11,172	95.7	95.6	10,543	10,889	95.6	95.5
45 to 54 years . . . . .	10,238	10,174	91.1	91.3	10,199	10,136	91.1	91.3
55 to 64 years . . . . .	7,060	7,072	74.4	73.5	7,058	7,071	74.4	73.5
55 to 59 years . . . . .	4,305	4,401	83.2	83.4	4,304	4,400	83.2	83.4
60 to 64 years . . . . .	2,755	2,671	63.9	61.5	2,755	2,671	63.9	61.5
65 years and over . . . . .	1,779	1,921	19.5	20.6	1,779	1,921	19.5	20.6
<b>White</b>								
16 years and over . . . . .	52,344	53,144	78.2	78.3	50,681	51,528	77.7	77.8
16 to 19 years . . . . .	4,477	4,438	61.9	61.6	4,203	4,185	60.4	60.2
16 to 17 years . . . . .	1,774	1,818	49.3	50.7	1,752	1,802	49.0	50.5
18 to 19 years . . . . .	2,703	2,619	74.2	72.4	2,451	2,383	72.3	70.5
20 to 24 years . . . . .	7,294	7,483	85.2	86.0	6,700	6,900	84.0	85.0
25 to 54 years . . . . .	32,503	33,047	94.8	94.9	31,709	32,267	94.7	94.8
25 to 34 years . . . . .	13,641	13,955	95.9	95.8	13,127	13,448	95.7	95.6
35 to 44 years . . . . .	9,632	9,933	96.3	96.1	9,388	9,695	96.2	96.0
45 to 54 years . . . . .	9,229	9,159	92.0	92.3	9,194	9,125	92.0	92.3
55 to 64 years . . . . .	6,461	6,441	75.1	74.0	6,460	6,439	75.1	74.0
55 to 59 years . . . . .	3,935	4,012	84.1	84.3	3,934	4,011	84.1	84.3
60 to 64 years . . . . .	2,526	2,429	64.5	61.5	2,526	2,429	64.5	61.5
65 years and over . . . . .	1,609	1,736	19.5	20.6	1,609	1,736	19.5	20.6
<b>Black and other</b>								
16 years and over . . . . .	6,178	6,525	70.3	72.2	5,822	6,144	69.0	71.0
16 to 19 years . . . . .	449	550	35.6	43.0	391	485	32.5	39.9
16 to 17 years . . . . .	145	176	22.5	26.9	142	173	22.1	26.6
18 to 19 years . . . . .	303	373	49.3	59.8	249	311	44.5	55.4
20 to 24 years . . . . .	1,026	1,087	76.9	78.5	877	930	74.0	75.7
25 to 54 years . . . . .	3,933	4,071	89.2	89.6	3,784	3,913	88.8	89.3
25 to 34 years . . . . .	1,726	1,816	91.2	91.9	1,625	1,706	90.7	91.4
35 to 44 years . . . . .	1,198	1,239	91.3	92.0	1,155	1,195	91.0	91.7
45 to 54 years . . . . .	1,009	1,015	83.7	83.2	1,005	1,012	83.6	83.2
55 to 64 years . . . . .	599	632	67.4	69.5	599	632	67.4	69.4
55 to 59 years . . . . .	370	389	74.7	75.5	370	389	74.7	75.5
60 to 64 years . . . . .	229	242	58.2	61.5	229	242	58.2	61.5
65 years and over . . . . .	171	185	19.0	20.1	171	185	19.0	20.1

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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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>FEMALES</b>								
16 years and over . . . . .	39,436	41,315	47.9	49.4	39,323	41,193	47.9	49.3
16 to 19 years . . . . .	3,924	4,079	47.2	49.1	3,906	4,060	47.0	49.0
16 to 17 years . . . . .	1,523	1,654	37.0	40.3	1,523	1,654	37.0	40.3
18 to 19 years . . . . .	2,401	2,425	57.1	57.8	2,383	2,406	56.9	57.6
20 to 24 years . . . . .	6,379	6,720	64.5	66.7	6,316	6,656	64.3	66.5
25 to 54 years . . . . .	23,580	24,828	58.3	60.3	23,548	24,791	58.2	60.3
25 to 34 years . . . . .	9,770	10,536	59.2	62.3	9,742	10,503	59.2	62.2
35 to 44 years . . . . .	7,114	7,569	59.6	61.4	7,111	7,565	59.6	61.4
45 to 54 years . . . . .	6,695	6,724	55.6	56.5	6,694	6,723	55.6	56.5
55 to 64 years . . . . .	4,395	4,508	41.4	41.9	4,395	4,508	41.4	41.9
55 to 59 years . . . . .	2,751	2,821	48.4	48.6	2,751	2,821	48.4	48.6
60 to 64 years . . . . .	1,644	1,687	33.4	34.1	1,644	1,687	33.4	34.1
65 years and over . . . . .	1,159	1,178	8.9	8.8	1,159	1,178	8.9	8.8
<b>White</b>								
16 years and over . . . . .	34,302	35,767	47.7	49.0	34,209	35,670	47.6	48.9
16 to 19 years . . . . .	3,559	3,669	50.6	52.4	3,543	3,653	50.5	52.3
16 to 17 years . . . . .	1,407	1,525	40.6	44.2	1,406	1,525	40.6	44.2
18 to 19 years . . . . .	2,152	2,144	60.3	60.5	2,137	2,129	60.1	60.3
20 to 24 years . . . . .	5,557	5,757	66.1	67.3	5,507	5,706	65.9	67.1
25 to 54 years . . . . .	20,192	21,266	57.4	59.6	20,166	21,236	57.4	59.6
25 to 34 years . . . . .	8,225	8,914	57.8	61.3	8,202	8,888	57.8	61.2
35 to 44 years . . . . .	6,093	6,457	59.0	60.6	6,090	6,454	59.0	60.6
45 to 54 years . . . . .	5,874	5,895	55.3	56.2	5,873	5,894	55.3	56.2
55 to 64 years . . . . .	3,952	4,036	41.3	41.7	3,952	4,036	41.3	41.7
55 to 59 years . . . . .	2,473	2,532	48.3	48.7	2,473	2,532	48.3	48.7
60 to 64 years . . . . .	1,479	1,504	33.2	33.6	1,479	1,504	33.2	33.6
65 years and over . . . . .	1,042	1,039	8.8	8.6	1,042	1,039	8.8	8.6
<b>Black and other</b>								
16 years and over . . . . .	5,135	5,547	49.8	52.3	5,114	5,523	49.7	52.2
16 to 19 years . . . . .	365	410	28.3	31.4	362	407	28.2	31.3
16 to 17 years . . . . .	116	129	17.9	19.7	116	129	17.9	19.7
18 to 19 years . . . . .	249	281	38.9	43.2	246	278	38.6	43.0
20 to 24 years . . . . .	822	963	55.8	63.3	809	950	55.5	62.9
25 to 54 years . . . . .	3,388	3,564	63.9	65.2	3,382	3,556	63.8	65.1
25 to 34 years . . . . .	1,545	1,622	68.0	68.4	1,539	1,615	67.9	68.3
35 to 44 years . . . . .	1,022	1,112	63.0	66.7	1,021	1,112	63.0	66.7
45 to 54 years . . . . .	821	829	58.2	58.1	821	829	58.2	58.1
55 to 64 years . . . . .	443	472	42.3	43.9	443	472	42.3	43.9
55 to 59 years . . . . .	278	288	48.6	48.3	278	288	48.6	48.3
60 to 64 years . . . . .	165	183	34.7	38.4	165	183	34.7	38.4
65 years and over . . . . .	117	139	9.9	11.3	117	139	9.9	11.3

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

[Numbers in thousands]

Sex and age	April 1978						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agriculture	Nonagricultural industries	Number			
<b>Total</b>								
16 years and over .....	9,976	8,764	221	8,543	1,212	12.1	6,576	
16 to 19 years .....	770	471	14	457	299	38.8	1,452	
16 to 17 years .....	255	133	6	127	122	47.8	900	
18 to 19 years .....	516	338	8	331	178	34.4	552	
20 to 24 years .....	1,614	1,261	24	1,237	353	21.9	734	
25 to 54 years .....	6,331	5,835	99	5,735	495	7.8	1,973	
25 to 34 years .....	2,798	2,490	43	2,447	308	11.0	714	
35 to 44 years .....	1,972	1,852	20	1,832	120	6.1	560	
45 to 54 years .....	1,561	1,493	37	1,456	68	4.4	700	
55 to 64 years .....	965	921	52	869	44	4.6	800	
55 to 59 years .....	587	556	25	531	32	5.4	394	
60 to 64 years .....	378	366	27	338	12	3.3	406	
65 years and over .....	296	276	31	245	19	6.6	1,617	
<b>Males</b>								
16 years and over .....	5,239	4,619	189	4,430	620	11.8	2,186	
16 to 19 years .....	419	256	10	246	162	38.8	645	
16 to 17 years .....	149	71	4	67	78	52.2	426	
18 to 19 years .....	270	185	6	179	85	31.4	219	
20 to 24 years .....	800	615	20	595	185	23.1	249	
25 to 54 years .....	3,307	3,073	84	2,989	234	7.1	404	
25 to 34 years .....	1,419	1,269	38	1,231	150	10.6	132	
35 to 44 years .....	1,025	975	18	957	49	4.8	90	
45 to 54 years .....	863	829	28	802	34	3.9	181	
55 to 64 years .....	549	520	46	474	29	5.3	254	
55 to 59 years .....	337	314	20	294	23	6.9	115	
60 to 64 years .....	212	206	26	181	6	2.8	139	
65 years and over .....	164	154	29	125	10	6.0	633	
<b>Females</b>								
16 years and over .....	4,737	4,145	32	4,113	592	12.5	4,391	
16 to 19 years .....	352	215	4	211	137	38.9	807	
16 to 17 years .....	106	62	2	60	44	41.7	474	
18 to 19 years .....	246	153	2	151	93	37.7	332	
20 to 24 years .....	815	646	4	642	169	20.7	485	
25 to 54 years .....	3,023	2,761	15	2,746	262	8.7	1,570	
25 to 34 years .....	1,378	1,221	5	1,216	157	11.4	582	
35 to 44 years .....	947	877	2	875	71	7.5	470	
45 to 54 years .....	698	663	9	654	34	4.9	519	
55 to 64 years .....	417	401	6	395	15	3.6	546	
55 to 59 years .....	251	242	5	237	9	3.4	279	
60 to 64 years .....	166	159	1	158	7	4.0	267	
65 years and over .....	131	122	2	120	10	7.3	984	

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

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>TOTAL</b>								
Total noninstitutional population	157,986	160,504	67,209	68,419	73,958	75,300	16,819	16,785
Total labor force	97,958	100,984	53,595	54,682	35,512	37,235	8,850	9,066
Percent of population	62.0	62.9	79.7	79.9	48.0	49.4	52.6	54.0
Civilian labor force	95,826	98,866	51,909	53,003	35,418	37,133	8,499	8,730
Employed	89,258	93,180	49,114	50,725	33,080	35,083	7,063	7,372
Agriculture	3,140	3,151	2,259	2,274	511	552	370	326
Nonagricultural industries	86,118	90,029	46,855	48,451	32,570	34,531	6,693	7,047
Unemployed	6,568	5,685	2,795	2,278	2,337	2,050	1,436	1,357
Percent of labor force	6.9	5.8	5.4	4.3	6.6	5.5	16.9	15.5
Not in labor force	60,028	59,520	13,614	13,737	38,446	38,065	7,969	7,719
<b>White</b>								
Total noninstitutional population	138,894	140,863	59,679	60,657	64,945	66,003	14,270	14,202
Total labor force	86,645	88,912	47,867	48,707	30,743	32,098	8,036	8,107
Percent of population	62.4	63.1	80.2	80.3	47.3	48.6	56.3	57.1
Civilian labor force	84,890	87,198	46,478	47,343	30,666	32,017	7,746	7,838
Employed	79,618	82,848	44,167	45,584	28,867	30,466	6,583	6,797
Agriculture	2,894	2,875	2,079	2,054	472	511	343	311
Nonagricultural industries	76,724	79,973	42,088	43,530	28,395	29,955	6,240	6,487
Unemployed	5,273	4,351	2,311	1,759	1,799	1,551	1,163	1,041
Percent of labor force	6.2	5.0	5.0	3.7	5.9	4.8	15.0	13.3
Not in labor force	52,249	51,951	11,813	11,951	34,203	33,905	6,234	6,096
<b>Black and other</b>								
Total noninstitutional population	19,091	19,641	7,530	7,761	9,013	9,297	2,549	2,583
Total labor force	11,312	12,072	5,729	5,975	4,770	5,137	814	960
Percent of population	59.3	61.5	76.1	77.0	52.9	55.3	31.9	37.2
Civilian labor force	10,935	11,667	5,431	5,660	4,751	5,116	753	891
Employed	9,640	10,333	4,497	5,141	4,213	4,617	480	575
Agriculture	246	276	180	220	39	41	27	15
Nonagricultural industries	9,395	10,056	4,768	4,920	4,174	4,576	453	560
Unemployed	1,295	1,335	483	519	538	499	273	317
Percent of labor force	11.8	11.4	8.9	9.2	11.3	9.8	36.3	35.5
Not in labor force	7,779	7,569	1,801	1,786	4,243	4,160	1,735	1,623

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

[Numbers in thousands]

Employment status	April 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,251	12,755	12,496	21,423	10,868	10,555	3,828	1,887	1,941
Total labor force	15,182	8,394	6,788	13,410	7,399	6,011	1,772	995	777
Percent of population	60.1	65.8	54.3	62.6	68.1	56.9	46.3	52.7	40.1
Civilian labor force	14,442	7,702	6,740	12,820	6,849	5,971	1,622	853	769
Employed	12,485	6,664	5,821	11,369	6,080	5,289	1,116	584	532
Agriculture	470	386	84	443	364	78	27	21	6
Nonagricultural industries	12,015	6,278	5,737	10,926	5,715	5,211	1,089	563	526
Unemployed	1,957	1,039	918	1,451	770	682	506	269	237
Percent of labor force	13.6	13.5	13.6	11.3	11.2	11.4	31.2	31.6	30.8
Looking for full-time work	1,179	647	532	829	458	371	350	189	161
Looking for part-time work	778	392	386	622	311	311	156	80	76
Not in labor force	10,069	4,361	5,708	8,013	3,468	4,544	2,056	892	1,164
<b>MAJOR ACTIVITY: GOING TO SCHOOL</b>									
Civilian labor force	4,719	2,505	2,214	4,291	2,271	2,019	428	234	194
Employed	3,918	2,072	1,864	3,658	1,939	1,719	261	133	128
Agriculture	190	160	30	183	154	30	7	6	--
Nonagricultural industries	3,728	1,912	1,816	3,474	1,785	1,689	254	126	128
Unemployed	800	433	367	633	332	301	167	101	66
Percent of labor force	17.0	17.3	16.6	14.8	14.6	14.9	39.1	43.2	34.2
Looking for full-time work	153	88	66	106	57	49	47	31	16
Looking for part-time work	647	345	301	527	275	251	120	70	50
Not in labor force	7,926	3,919	4,007	6,312	3,147	3,166	1,614	772	842
<b>MAJOR ACTIVITY: OTHER</b>									
Civilian labor force	9,724	5,198	4,526	8,530	4,578	3,951	1,194	619	575
Employed	8,567	4,592	3,975	7,711	4,141	3,571	855	451	404
Agriculture	280	226	54	259	211	48	21	15	6
Nonagricultural industries	8,287	4,366	3,921	7,452	3,930	3,522	835	436	398
Unemployed	1,157	606	551	818	437	381	339	168	170
Percent of labor force	11.9	11.7	12.2	9.6	9.6	9.6	28.4	27.2	29.6
Looking for full-time work	1,026	559	466	723	401	321	303	158	145
Looking for part-time work	131	46	85	95	36	59	36	10	26
Not in labor force	2,143	442	1,701	1,700	322	1,379	442	120	322

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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 1978								
	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	82,990	75,388	3,210	4,392	5.3	15,875	14,582	1,294	8.1
16 to 21 years	8,425	6,493	753	1,179	14.0	6,017	5,239	778	12.9
16 to 19 years	3,895	2,750	467	679	17.4	4,834	4,155	679	14.0
16 to 17 years	706	409	114	183	25.9	2,924	2,430	494	16.9
18 to 19 years	3,190	2,341	353	496	15.5	1,911	1,726	185	9.7
20 years and over	79,095	72,638	2,743	3,713	4.7	11,041	10,426	615	5.6
20 to 24 years	12,305	10,460	659	1,186	9.6	2,181	1,991	190	8.7
25 years and over	66,790	62,179	2,084	2,526	3.8	8,860	8,436	424	4.8
25 to 54 years	55,153	51,325	1,669	2,158	3.9	5,818	5,516	302	5.2
55 years and over	11,637	10,854	415	369	3.2	3,042	2,920	121	4.0
<b>Males, 16 years and over</b>	<b>52,342</b>	<b>48,397</b>	<b>1,495</b>	<b>2,450</b>	<b>4.7</b>	<b>5,330</b>	<b>4,782</b>	<b>548</b>	<b>10.3</b>
16 to 21 years	4,732	3,736	349	647	13.7	2,970	2,579	392	13.2
16 to 19 years	2,196	1,618	218	360	16.4	2,474	2,114	360	14.6
20 years and over	50,146	46,779	1,277	2,090	4.2	2,857	2,668	188	6.6
20 to 24 years	6,955	5,959	340	655	9.4	875	810	65	7.5
25 years and over	43,191	40,820	937	1,434	3.3	1,981	1,858	123	6.2
25 to 54 years	35,436	33,529	727	1,181	3.3	743	679	64	8.6
55 years and over	7,754	7,292	210	252	3.2	1,238	1,179	58	4.7
<b>Females, 16 years and over</b>	<b>30,649</b>	<b>26,991</b>	<b>1,715</b>	<b>1,942</b>	<b>6.3</b>	<b>10,545</b>	<b>9,800</b>	<b>745</b>	<b>7.1</b>
16 to 21 years	3,693	2,757	404	532	14.4	3,047	2,661	386	12.7
16 to 19 years	1,700	1,132	249	319	18.8	2,360	2,042	319	13.5
20 years and over	28,949	25,859	1,466	1,623	5.6	8,184	7,758	427	5.2
20 to 24 years	5,350	4,501	319	531	9.9	1,305	1,180	125	9.6
25 years and over	23,599	21,358	1,147	1,093	4.6	6,879	6,578	301	4.4
25 to 54 years	19,716	17,796	943	976	5.0	5,075	4,837	238	4.7
55 years and over	3,883	3,562	205	116	3.0	1,804	1,741	63	3.5
<b>White</b>									
<b>Males, 16 years and over</b>	<b>46,736</b>	<b>43,651</b>	<b>1,212</b>	<b>1,873</b>	<b>4.0</b>	<b>4,792</b>	<b>4,355</b>	<b>437</b>	<b>9.1</b>
16 to 21 years	4,145	3,404	283	458	11.1	2,704	2,393	311	11.5
16 to 19 years	1,927	1,487	179	261	13.6	2,258	1,968	290	12.8
20 years and over	44,809	42,164	1,033	1,612	3.6	2,534	2,387	147	5.8
20 to 24 years	6,103	5,368	277	457	7.5	798	749	49	6.1
25 years and over	38,707	36,796	755	1,155	3.0	1,736	1,638	98	5.6
25 to 54 years	31,648	30,123	587	938	3.0	619	570	48	7.8
55 years and over	7,059	6,673	168	217	3.1	1,117	1,067	49	4.4
<b>Females, 16 years and over</b>	<b>26,060</b>	<b>23,246</b>	<b>1,396</b>	<b>1,419</b>	<b>5.4</b>	<b>9,610</b>	<b>8,989</b>	<b>621</b>	<b>6.5</b>
16 to 21 years	3,186	2,474	341	371	11.6	2,785	2,474	311	11.2
16 to 19 years	1,475	1,025	222	228	15.5	2,178	1,917	261	12.0
20 years and over	24,585	22,221	1,174	1,191	4.8	7,431	7,071	360	4.8
20 to 24 years	4,558	3,935	249	373	8.2	1,148	1,051	97	8.4
25 years and over	20,027	18,285	925	817	4.1	6,284	6,020	264	4.2
25 to 54 years	16,525	15,046	763	716	4.3	4,710	4,498	212	4.5
55 years and over	3,501	3,239	162	102	2.9	1,574	1,522	52	3.3
<b>Black and other</b>									
<b>Males, 16 years and over</b>	<b>5,606</b>	<b>4,746</b>	<b>284</b>	<b>576</b>	<b>10.3</b>	<b>538</b>	<b>427</b>	<b>111</b>	<b>20.7</b>
16 to 21 years	587	332	66	189	32.2	266	186	80	30.2
16 to 19 years	269	131	40	98	36.6	216	146	70	32.5
20 years and over	5,337	4,615	244	478	9.0	322	281	41	12.8
20 to 24 years	852	591	63	198	23.2	78	61	16	21.1
25 years and over	4,485	4,023	182	280	6.2	245	220	26	10.6
25 to 54 years	3,788	3,405	140	244	6.4	124	109	16	12.9
55 years and over	697	619	42	36	5.2	121	112	10	8.3
<b>Females, 16 years and over</b>	<b>4,588</b>	<b>3,746</b>	<b>319</b>	<b>523</b>	<b>11.4</b>	<b>935</b>	<b>811</b>	<b>124</b>	<b>13.3</b>
16 to 21 years	507	283	63	161	31.8	262	187	76	28.8
16 to 19 years	225	107	27	90	40.2	182	124	58	31.7
20 years and over	4,363	3,638	292	433	9.9	753	686	66	8.8
20 to 24 years	792	565	70	157	19.9	158	130	28	17.7
25 years and over	3,571	3,073	222	275	7.7	595	557	39	6.6
25 to 54 years	3,191	2,750	179	261	8.2	365	339	27	7.4
55 years and over	380	323	43	15	3.9	230	218	12	5.2

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

# HOUSEHOLD DATA

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

[Numbers in thousands]

Family relationship	April 1978									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
<b>Total, 16 years and over</b> .....	98,866	62.4	93,180	5,685	5.8	59,520	33,097	9,557	2,803	14,066
<b>Husbands</b> <sup>1</sup> .....	40,254	81.7	39,085	1,169	2.9	9,019	100	258	1,152	7,511
With employed wife .....	19,880	91.9	19,409	471	2.4	1,760	27	146	357	1,231
With unemployed wife .....	919	91.7	846	72	7.8	83	1	3	29	50
With wife not in labor force .....	18,045	72.9	17,505	540	3.0	6,697	44	84	689	5,880
<b>Wives</b> .....	22,643	47.8	21,641	1,002	4.4	24,742	22,873	353	251	1,266
With employed husband .....	20,257	53.6	19,411	847	4.2	17,506	16,466	314	83	643
With unemployed husband .....	543	50.1	471	72	13.3	540	502	6	10	22
With husband not in labor force .....	1,843	21.6	1,760	83	4.5	6,697	5,904	33	159	601
<b>Relatives in husband-wife families</b> .....	13,664	58.3	12,000	1,664	12.2	9,741	1,350	6,633	439	1,319
16-19 years .....	6,299	52.9	5,400	899	14.3	5,600	176	5,151	24	249
20-24 years .....	4,823	72.7	4,279	545	11.3	1,810	177	1,364	44	225
25 years and over .....	2,542	52.2	2,321	220	8.7	2,331	997	118	371	845
<b>Women who head families</b> .....	4,812	58.6	4,371	442	9.2	3,394	2,750	138	129	378
<b>Relatives in female-headed families</b> .....	3,819	54.5	3,182	637	16.7	3,190	755	1,508	275	651
16-19 years .....	1,246	46.5	941	305	24.5	1,431	94	1,210	4	122
20-24 years .....	1,131	70.1	941	191	16.9	481	91	260	27	104
25 years and over .....	1,442	33.6	1,300	141	9.8	1,278	570	38	244	425
<b>Persons not living in families</b> <sup>2</sup> .....	13,674	59.2	12,901	771	5.6	9,434	5,269	664	557	2,941

<sup>1</sup> Includes a small number of single, separated, widowed, or divorced men who head 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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>Total, 16 years and over</b> .....	3,548	2,998	6.3	5.2	3,020	2,687	7.7	6.5
Married, spouse present .....	1,552	1,165	3.9	2.9	1,393	1,070	6.2	4.7
Widowed, divorced, or separated .....	332	274	8.4	6.2	581	535	7.9	6.9
Single (never married) .....	1,664	1,560	13.1	11.4	1,046	1,082	11.1	10.4
<b>White, 16 years and over</b> .....	2,924	2,310	5.8	4.5	2,349	2,040	6.9	5.7
Married, spouse present .....	1,362	985	3.7	2.7	1,172	900	5.8	4.4
Widowed, divorced, or separated .....	259	188	8.1	5.4	412	383	6.9	6.1
Single (never married) .....	1,303	1,138	11.7	9.6	765	757	9.4	8.5
<b>Black and other, 16 years and over</b> .....	624	687	10.7	11.2	671	647	13.1	11.7
Married, spouse present .....	191	180	5.4	5.2	221	170	9.3	7.1
Widowed, divorced, or separated .....	72	86	9.9	9.6	169	152	12.1	9.9
Single (never married) .....	361	422	22.9	23.7	281	325	21.2	20.4
<b>Total, 20 to 64 years of age</b> .....	2,714	2,191	5.4	4.3	2,276	1,998	6.6	5.6
Married, spouse present .....	1,450	1,090	3.8	2.9	1,293	995	6.0	4.5
Widowed, divorced, or separated .....	318	257	8.6	6.2	519	490	7.8	7.0
Single (never married) .....	946	844	11.4	9.2	465	513	7.8	7.7
<b>White, 20 to 64 years of age</b> .....	2,242	1,685	5.0	3.7	1,746	1,508	5.9	4.9
Married, spouse present .....	1,272	920	3.7	2.7	1,077	837	5.6	4.2
Widowed, divorced, or separated .....	247	177	8.2	5.4	363	347	6.8	6.2
Single (never married) .....	722	588	10.2	7.5	306	324	6.2	5.9
<b>Black and other, 20 to 64 years of age</b> .....	471	505	9.0	9.2	529	489	11.4	9.8
Married, spouse present .....	179	169	5.3	5.1	215	156	9.3	6.7
Widowed, divorced, or separated .....	70	81	10.0	9.5	156	143	11.9	9.9
Single (never married) .....	223	255	18.8	19.6	158	189	15.8	15.6

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
Total	6,568	5,685	6.9	5.8	6.3	5.2	7.7	6.5
White-collar workers	1,867	1,553	4.0	3.2	2.9	2.3	5.0	4.1
Professional and technical	384	313	2.7	2.2	2.2	1.9	3.4	2.5
Managers and administrators, except farm	264	190	2.8	1.9	2.4	1.6	3.9	2.6
Sales workers	309	253	5.1	4.1	3.9	2.8	6.6	5.6
Clerical workers	910	796	5.4	4.6	4.6	4.1	5.6	4.7
Blue-collar workers	2,704	2,298	8.4	6.9	7.8	6.2	11.0	9.9
Craft and kindred workers	684	608	5.5	4.8	5.5	4.7	5.7	5.4
Carpenters and other construction craft	350	322	9.2	8.1	9.2	8.1	(1)	(1)
All other	334	286	3.9	3.3	3.8	3.1	5.5	5.1
Operatives, except transport	1,132	951	10.0	8.1	8.6	6.3	12.1	10.7
Transport equipment operatives	248	203	6.7	5.4	6.8	5.3	5.3	6.9
Nonfarm laborers	639	536	13.2	10.5	13.5	10.5	10.2	10.9
Construction laborers	208	152	23.0	15.4	23.3	15.2	--	(1)
All other	431	384	10.9	9.3	11.0	9.2	10.5	10.2
Service workers	1,005	960	7.6	7.0	6.7	7.4	8.1	6.7
Private household	54	49	4.6	3.9	(1)	(1)	4.5	3.7
All other	951	911	7.9	7.3	6.7	7.4	8.7	7.2
Farm workers	147	93	5.2	3.4	4.1	2.7	10.5	6.7
No previous work experience	845	782	--	--	--	--	--	--
16 to 19 years	599	575	--	--	--	--	--	--
20 to 24 years	145	129	--	--	--	--	--	--
25 years and over	100	79	--	--	--	--	--	--

<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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
Total	100.0	100.0	6.9	5.8	6.3	5.2	7.7	6.5
Nonagricultural private wage and salary workers	74.7	74.3	7.1	5.9	6.6 <sup>c</sup>	5.4	7.7	6.6
Mining	.6	.8	4.7	5.6	4.7	5.3	(1)	7.9
Construction	9.4	9.1	14.0	10.9	14.4	11.0	8.1	9.3
Manufacturing	22.9	21.0	7.0	5.5	5.6	4.2	10.1	8.2
Durable goods	12.3	10.6	6.3	4.7	5.5	4.0	9.1	6.5
Lumber and wood products	1.1	.8	10.8	6.9	11.3	6.8	(1)	7.6
Furniture and fixtures	.7	.5	7.9	5.3	6.1	3.1	12.2	9.7
Stone, clay, and glass products	.6	.7	5.5	6.0	5.1	4.7	7.2	11.1
Primary metal industries	1.3	1.0	6.1	4.6	6.0	4.8	7.6	3.0
Fabricated metal products	1.6	1.6	6.7	5.9	6.4	5.4	7.8	7.5
Machinery, except electrical equipment	1.4	1.2	3.9	2.7	3.4	2.6	5.6	3.2
Electrical equipment	2.6	1.7	7.8	4.4	5.2	2.7	11.2	6.6
Transportation equipment	1.8	1.6	5.5	4.1	4.8	4.0	9.6	4.7
Automobiles	.7	.7	4.2	3.4	3.5	2.9	8.7	6.0
Other transportation equipment	1.0	.9	7.1	5.0	6.4	5.2	11.0	2.9
Instruments and related products	.4	.3	4.5	2.9	3.5	1.3	5.9	5.1
Other durable goods industries	1.0	1.2	9.1	8.6	6.7	7.2	11.7	10.4
Nondurable goods	10.6	10.4	8.0	6.7	5.9	4.6	11.0	9.6
Food and kindred products	3.0	2.9	10.6	8.5	7.4	5.5	18.4	15.2
Textile mill products	1.3	.8	8.7	5.1	7.6	4.5	9.9	5.7
Apparel and other textile products	2.1	2.3	10.0	9.5	6.6	9.1	10.8	9.6
Paper and allied products	.5	.6	4.3	4.5	2.8	4.0	9.0	6.3
Printing and publishing	.9	1.4	4.7	5.9	4.8	6.3	4.5	5.3
Chemicals and allied products	.7	.5	4.1	2.2	3.1	1.7	7.4	3.7
Rubber and plastics products	1.0	1.0	9.0	7.7	7.0	4.1	12.8	14.0
Other nondurable goods industries	1.0	1.0	11.2	8.4	9.4	3.1	14.0	15.8
Transportation and public utilities	3.4	3.5	4.5	3.8	4.7	3.9	4.0	3.6
Railroads and railway express	.4	.3	4.5	2.5	4.6	2.5	(1)	(1)
Other transportation	2.5	2.6	6.8	5.9	7.0	6.1	5.8	5.1
Communication and other public utilities	.5	.6	1.8	1.7	1.2	1.3	2.9	2.6
Wholesale and retail trade	20.6	21.8	7.6	6.9	6.6	5.6	8.9	8.4
Finance, insurance, and real estate	2.9	2.8	4.2	3.1	3.4	3.3	4.8	3.0
Service industries	14.9	15.3	6.3	5.4	6.2	5.4	6.4	5.3
Professional services	6.4	6.5	4.8	4.0	3.7	3.5	5.3	4.2
All other service industries	8.4	8.8	8.3	7.1	8.4	7.1	8.1	7.1
Agricultural wage and salary workers	2.8	2.1	12.8 <sup>c</sup>	8.2	10.4	6.6	23.0	13.5
All other classes of workers	9.6 <sup>c</sup>	9.9	2.6	2.3	2.3	2.1	3.1	2.5
No previous work experience	12.9	13.8	--	--	--	--	--	--

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

<sup>c</sup>corrected.

# HOUSEHOLD DATA

## 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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands .....	6,568	5,685	2,795	2,278	2,337	2,050	1,436	1,357	5,273	4,351	1,295	1,335
Job losers .....	3,216	2,616	1,930	1,478	995	860	292	279	2,679	2,059	537	557
On layoff .....	844	631	511	347	279	235	54	48	743	562	101	68
Other job losers .....	2,372	1,986	1,419	1,131	716	624	238	230	1,936	1,497	436	489
Job leavers .....	774	778	279	319	378	333	117	126	662	659	112	119
Reentrants .....	1,735	1,509	479	397	826	734	430	378	1,302	1,098	433	410
New entrants .....	842	782	107	85	138	123	597	574	629	534	213	248
Total unemployed, percent distribution .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	49.0	46.0	69.1	64.9	42.5	42.0	20.4	20.6	50.8	47.3	41.5	41.7
On layoff .....	12.9	11.1	18.3	15.2	11.9	11.5	3.8	3.6	14.1	12.9	7.8	5.1
Other job losers .....	36.1	34.9	50.8	49.7	30.6	30.5	16.6	17.0	36.7	34.4	33.7	36.6
Job leavers .....	11.8	13.7	10.0	14.0	16.2	16.3	8.1	9.3	12.6	15.1	8.6	8.9
Reentrants .....	26.4	26.5	17.1	17.4	35.3	35.8	29.9	27.9	24.7	25.2	33.4	30.7
New entrants .....	12.8	13.8	3.8	3.7	5.9	6.0	41.6	42.3	11.9	12.3	16.5	18.6
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate .....	6.9	5.8	5.4	4.3	6.6	5.5	16.9	15.5	6.2	5.0	11.8	11.4
Job loser rate <sup>1</sup> .....	3.4	2.6	3.7	2.8	2.8	2.3	3.4	3.2	3.2	2.3	4.9	4.8
Job leaver rate <sup>1</sup> .....	.8	.8	.5	.6	1.1	.9	1.4	1.4	.8	.8	1.0	1.0
Reentrant rate <sup>1</sup> .....	1.8	1.5	.9	.7	2.3	2.0	5.1	4.3	1.5	1.3	4.0	3.5
New entrant rate <sup>1</sup> .....	.9	.8	.2	.2	.4	.3	7.0	6.6	.7	.6	2.0	2.1

<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 1978						
	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
Total, 16 years and over .....	5,685	100.0	41.1	27.5	31.4	18.5	21.9
Job losers .....	2,616	100.0	33.1	27.9	39.0	24.1	14.9
On layoff .....	631	100.0	42.6	29.6	27.7	20.6	7.1
Other job losers .....	1,986	100.0	30.1	27.3	42.6	25.2	17.4
Job leavers .....	778	100.0	43.5	30.2	26.3	14.7	11.6
Reentrants .....	1,509	100.0	48.9	26.4	24.7	13.3	11.4
New entrants .....	782	100.0	50.3	25.6	24.2	13.8	10.4
Males, 20 years and over .....	2,278	100.0	32.4	26.0	41.5	24.4	17.2
Job losers .....	1,478	100.0	28.8	26.0	45.3	27.4	17.9
On layoff .....	347	100.0	37.6	27.2	35.3	28.6	6.6
Other job losers .....	1,131	100.0	26.0	25.6	48.4	27.1	21.3
Job leavers .....	319	100.0	41.7	29.2	29.2	17.2	11.9
Reentrants .....	397	100.0	40.4	26.0	33.6	15.9	17.7
New entrants .....	85	100.0	25.9	14.1	60.0	37.6	22.4
Females, 20 years and over ..	2,050	100.0	43.0	28.6	28.4	17.0	11.4
Job losers .....	860	100.0	36.4	30.3	33.3	20.8	12.5
On layoff .....	235	100.0	47.7	32.8	19.6	10.6	8.9
Other job losers .....	624	100.0	32.1	29.3	38.6	24.8	13.8
Job leavers .....	333	100.0	41.4	30.6	27.9	15.0	12.9
Reentrants .....	734	100.0	51.3	25.5	23.2	13.0	10.2
New entrants .....	123	100.0	43.5	29.8	26.6	19.4	7.3
Both sexes, 16 to 19 years ...	1,357	100.0	52.7	28.4	18.9	11.0	8.0
Job losers .....	279	100.0	46.4	30.6	23.0	16.2	6.8
On layoff .....	48	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers .....	230	100.0	44.6	30.3	25.1	16.9	8.2
Job leavers .....	126	100.0	53.2	32.5	14.3	7.1	7.1
Reentrants .....	378	100.0	53.4	28.6	18.0	11.1	6.9
New entrants .....	574	100.0	55.1	26.6	18.3	9.0	9.2

<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 1978								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	5,685	4,945	27.5	6.1	70.7	27.5	14.2	6.8	1.53
16 to 19 years .....	1,357	1,289	15.0	2.4	79.9	22.7	12.5	4.7	1.37
20 to 24 years .....	1,376	1,208	31.7	6.9	70.9	30.9	14.2	4.6	1.59
25 to 34 years .....	1,311	1,107	32.2	6.5	69.0	30.2	14.5	8.5	1.61
35 to 44 years .....	638	533	34.5	9.4	62.3	25.9	15.6	7.3	1.55
45 to 54 years .....	512	408	30.9	10.3	64.2	30.9	15.2	11.3	1.63
55 to 64 years .....	351	280	30.7	7.1	64.6	22.1	13.2	11.8	1.50
65 years and over .....	140	121	25.6	5.0	58.7	29.8	23.1	8.3	1.50
<b>Males, 16 years and over</b> .....	2,998	2,542	28.6	6.8	72.6	24.0	15.6	8.6	1.56
16 to 19 years .....	720	673	13.4	1.6	79.5	18.9	14.7	5.5	1.34
20 to 24 years .....	721	624	32.9	9.0	72.6	28.7	15.1	5.0	1.63
25 to 34 years .....	659	528	36.0	8.7	75.0	23.3	16.9	8.7	1.69
35 to 44 years .....	327	269	39.4	9.7	62.1	22.3	15.6	11.9	1.61
45 to 54 years .....	260	200	32.5	9.5	68.0	30.5	15.5	18.0	1.74
55 to 64 years .....	224	173	30.1	8.7	64.7	18.5	11.6	17.9	1.52
65 years and over .....	87	76	22.4	1.3	61.8	36.8	27.6	5.3	1.55
<b>Females, 16 years and over</b> .....	2,687	2,403	26.3	5.5	68.7	31.2	12.8	4.9	1.49
16 to 19 years .....	638	616	16.6	3.2	80.4	26.8	9.9	3.7	1.41
20 to 24 years .....	656	585	30.4	4.8	69.1	33.2	13.3	4.1	1.55
25 to 34 years .....	652	579	28.7	4.7	63.6	36.4	12.4	8.5	1.54
35 to 44 years .....	311	264	29.5	9.1	62.5	29.5	15.5	2.7	1.49
45 to 54 years .....	252	208	28.8	10.6	60.6	31.3	15.4	4.8	1.52
55 to 64 years .....	127	107	31.8	4.7	64.5	28.0	15.9	1.9	1.47
65 years and over .....	52	45	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White</b> .....	4,351	3,691	26.3	6.0	72.2	28.7	13.6	6.7	1.54
<b>Males</b> .....	2,310	1,900	27.7	6.2	73.7	23.8	15.2	8.8	1.55
<b>Females</b> .....	2,040	1,791	24.7	5.9	70.6	33.8	11.9	4.4	1.51
<b>Black and other</b> .....	1,335	1,255	31.1	6.5	66.2	24.1	16.0	7.1	1.51
<b>Males</b> .....	687	642	31.2	8.9	69.5	24.5	16.8	7.8	1.59
<b>Females</b> .....	647	612	31.0	4.2	62.9	23.7	15.2	6.4	1.43

<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 1978								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	5,685	4,945	27.5	6.1	70.7	27.5	14.2	6.8	1.53
Job losers .....	2,616	1,963	36.5	7.3	68.8	28.0	15.1	8.0	1.64
Job leavers .....	778	783	25.3	8.7	75.6	29.8	11.6	4.9	1.56
Reentrants .....	1,509	1,426	23.4	4.6	68.0	26.9	15.1	7.1	1.45
New entrants .....	782	774	14.2	3.6	75.7	25.1	13.0	5.2	1.37
<b>Males, 16 years and over</b> .....	2,998	2,542	28.6	6.8	72.6	24.0	15.6	8.6	1.56
Job losers .....	1,650	1,246	36.0	7.1	70.1	25.4	15.3	10.4	1.64
Job leavers .....	385	391	23.8	10.5	76.0	22.5	13.6	5.6	1.52
Reentrants .....	594	539	25.2	5.4	72.4	25.2	18.2	8.0	1.54
New entrants .....	368	365	13.4	4.1	78.6	19.2	15.1	6.3	1.37
<b>Females, 16 years and over</b> .....	2,687	2,403	26.3	5.5	68.7	31.2	12.8	4.9	1.49
Job losers .....	966	717	37.5	7.4	66.5	32.6	14.9	3.9	1.63
Job leavers .....	393	392	26.8	6.6	75.5	37.0	9.7	4.1	1.60
Reentrants .....	914	884	22.3	4.4	65.4	28.1	13.3	6.7	1.40
New entrants .....	414	409	14.9	2.9	73.1	30.3	11.0	3.9	1.36

NOTE: See note, table A-15.

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## 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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
Total, 16 years and over .....	6,568	5,685	100.0	100.0	5,270	4,392	100.0	100.0
Less than 5 weeks .....	2,545	2,335	38.7	41.1	1,822	1,608	34.6	36.6
5 to 14 weeks .....	1,666	1,565	25.4	27.5	1,365	1,210	25.9	27.6
5 to 10 weeks .....	1,117	1,076	17.0	18.9	891	833	16.9	19.0
11 to 14 weeks .....	550	488	8.4	8.6	474	378	9.0	8.6
15 weeks and over .....	2,357	1,785	35.9	31.4	2,083	1,573	39.5	35.8
15 to 26 weeks .....	1,140	1,052	17.4	18.5	1,001	915	19.0	20.8
27 weeks and over .....	1,217	733	18.5	12.9	1,082	658	20.5	15.0
27 to 51 weeks .....	683	400	10.4	7.0	604	364	11.5	8.3
52 weeks and over .....	534	333	8.1	5.9	478	294	9.1	6.7
Average (mean) duration, in weeks .....	16.3	13.9	--	--	17.7	15.3	--	--
Median duration, in weeks .....	8.9	7.3	--	--	10.5	8.9	--	--

## 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 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
	April 1978								Apr. 1977	Apr. 1978	Apr. 1977
Total, 16 years and over .....	5,685	2,335	1,565	1,052	733	13.9	7.3	38.7	41.1	35.9	31.4
16 to 21 years .....	1,957	945	573	265	175	10.3	5.5	47.4	48.3	25.8	22.4
16 to 19 years .....	1,357	715	385	149	108	9.5	4.7	51.2	52.7	22.8	18.9
20 to 24 years .....	1,376	548	384	290	154	12.8	7.7	38.9	39.8	33.0	32.3
25 to 34 years .....	1,311	524	353	265	169	13.7	7.5	36.1	40.0	39.0	33.1
35 to 44 years .....	638	216	178	143	102	16.2	9.8	36.9	33.8	39.0	38.3
45 to 54 years .....	512	163	139	123	87	18.1	10.9	28.8	31.9	46.3	41.0
55 to 64 years .....	351	123	81	62	84	23.1	10.9	24.5	35.1	52.0	41.8
65 years and over .....	140	45	45	19	30	19.1	9.9	47.6	32.6	41.2	35.0
<b>Males, 16 years and over</b> .....	2,998	1,095	815	640	448	15.5	9.3	34.8	36.5	39.8	36.3
16 to 21 years .....	1,039	460	323	154	102	10.8	6.6	44.9	44.3	28.2	24.6
16 to 19 years .....	720	356	222	86	56	9.6	5.1	51.7	49.5	23.6	19.7
20 to 24 years .....	721	248	190	186	96	14.3	10.2	33.6	34.4	35.5	39.2
25 to 34 years .....	659	225	190	142	102	15.6	9.9	32.1	34.2	44.2	37.0
35 to 44 years .....	327	99	77	87	64	19.1	12.4	29.9	30.2	44.7	46.3
45 to 54 years .....	260	64	64	81	51	20.8	15.3	24.0	24.5	52.3	50.8
55 to 64 years .....	224	74	50	42	57	24.7	12.0	19.8	33.2	58.1	44.3
65 years and over .....	87	29	21	16	21	19.3	10.1	44.1	33.0	44.7	42.6
<b>Females, 16 years and over</b> .....	2,687	1,240	750	412	285	12.0	5.9	43.3	46.2	31.3	25.9
16 to 21 years .....	918	486	249	111	72	9.7	4.7	50.2	52.9	23.0	20.0
16 to 19 years .....	638	359	163	63	51	9.5	4.4	50.6	56.4	21.9	18.0
20 to 24 years .....	656	300	194	104	58	11.0	5.9	45.8	45.7	29.7	24.7
25 to 34 years .....	652	299	163	123	67	11.7	5.9	40.7	45.9	33.1	29.1
35 to 44 years .....	311	117	101	56	37	13.2	7.9	44.2	37.6	33.1	30.0
45 to 54 years .....	252	100	74	42	36	15.2	7.6	34.4	39.6	39.2	30.9
55 to 64 years .....	127	49	31	21	27	20.2	9.7	30.9	38.4	43.7	37.4
65 years and over .....	52	17	24	3	9	18.6	9.6	(1)	(1)	(1)	(1)
<b>White</b> .....	4,351	1,859	1,194	776	522	13.4	6.8	39.2	42.7	36.2	29.8
Males .....	2,310	893	624	471	322	14.9	8.5	35.5	38.6	39.3	34.3
Females .....	2,040	967	570	305	199	11.6	5.6	43.8	47.4	32.5	24.7
<b>Black and other</b> .....	1,335	476	371	276	212	15.5	9.3	37.0	35.7	34.4	36.5
Males .....	687	202	190	169	126	17.5	12.1	31.9	29.4	42.4	42.9
Females .....	647	274	181	107	86	13.3	6.9	41.8	42.3	27.0	29.8
<b>Males:</b>											
Married, spouse present .....	1,165	372	308	291	193	17.1	11.1	29.0	31.9	45.5	41.6
Widowed, divorced, or separated .....	274	85	71	55	63	22.1	10.7	30.6	31.1	47.2	43.1
Single (never married) .....	1,560	638	436	294	192	13.2	7.7	41.1	40.9	33.0	31.2
<b>Females:</b>											
Married, spouse present .....	1,070	468	322	181	99	11.7	6.2	45.4	43.7	32.6	26.2
Widowed, divorced, or separated .....	535	220	145	91	79	14.8	7.8	38.2	41.0	34.4	31.8
Single (never married) .....	1,082	553	283	139	107	11.0	4.9	43.5	51.1	27.8	22.7

<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		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
	April 1978										
<b>OCCUPATION</b>											
White-collar workers .....	1,553	643	425	261	224	14.2	7.0	38.0	41.4	38.0	31.2
Professional and managerial .....	503	190	115	78	121	18.6	10.8	34.7	37.8	41.5	39.6
Sales workers .....	253	106	72	46	29	13.7	7.0	44.3	41.8	29.8	29.9
Clerical workers .....	796	348	238	137	73	11.5	6.2	38.3	43.7	38.3	26.4
Blue-collar workers .....	2,298	799	672	517	311	14.9	9.4	34.7	34.7	39.9	36.0
Craft and kindred workers .....	608	205	158	163	83	15.1	10.3	31.4	33.7	43.8	40.4
Operatives, except transport .....	951	332	298	181	140	15.2	9.0	36.5	34.9	37.7	33.8
Transport equipment operatives .....	203	64	65	47	26	14.4	9.6	29.3	31.7	42.3	36.1
Nonfarm laborers .....	536	198	150	127	61	14.3	9.3	37.1	36.8	38.8	35.1
Service workers .....	960	445	256	149	110	13.1	5.8	41.0	46.4	30.8	27.0
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	120	73	19	19	9	9.5	4.1	45.1	60.8	28.1	23.1
Construction .....	533	161	146	164	62	15.5	11.8	29.6	30.3	45.6	42.3
Manufacturing .....	1,198	414	356	252	176	15.4	9.3	34.8	34.6	40.6	35.7
Durable goods .....	607	199	169	132	106	16.6	9.9	30.4	32.9	42.9	39.2
Nondurable goods .....	592	215	187	120	70	14.2	8.9	39.8	36.3	37.9	32.1
Transportation and public utilities .....	226	89	52	56	30	14.2	8.4	32.1	39.3	38.0	37.9
Wholesale and retail trade .....	1,244	548	373	200	123	12.2	6.2	41.1	44.0	32.1	26.0
Finance and service industries .....	1,274	543	319	210	200	14.8	6.8	40.3	42.6	34.2	32.3
Public administration .....	178	61	72	23	23	13.0	8.1	26.0	34.3	58.2	25.4
No previous work experience .....	782	393	201	108	81	11.6	5.0	48.4	50.2	25.9	24.1

<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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>All industries</b> .....	89,258	93,180	52,955	54,674	36,303	38,506
16 to 19 years .....	7,063	7,372	3,840	3,950	3,223	3,423
16 to 17 years .....	2,788	2,953	1,556	1,594	1,232	1,359
18 to 19 years .....	4,275	4,420	2,285	2,356	1,991	2,064
20 to 24 years .....	12,431	13,110	6,752	7,110	5,679	6,000
25 to 54 years .....	55,993	58,510	33,879	34,934	22,113	23,576
25 to 34 years .....	22,896	24,346	13,897	14,496	8,999	9,850
35 to 44 years .....	16,898	17,817	10,159	10,562	6,738	7,255
45 to 54 years .....	16,198	16,347	9,823	9,876	6,375	6,471
55 to 64 years .....	10,975	11,228	6,785	6,847	4,191	4,381
55 to 59 years .....	6,785	7,003	4,154	4,263	2,632	2,740
60 to 64 years .....	4,190	4,225	2,631	2,585	1,559	1,641
65 years and over .....	2,797	2,960	1,699	1,834	1,098	1,126
<b>Nonagricultural industries</b> .....	86,118	90,029	50,368	52,130	35,751	37,899
16 to 19 years .....	6,693	7,047	3,512	3,679	3,181	3,367
16 to 17 years .....	2,584	2,781	1,382	1,451	1,202	1,330
18 to 19 years .....	4,109	4,266	2,130	2,229	1,979	2,037
20 to 24 years .....	12,090	12,732	6,468	6,811	5,622	5,921
25 to 54 years .....	54,411	56,942	32,638	33,724	21,773	23,218
25 to 34 years .....	22,351	23,757	13,477	14,028	8,874	9,729
35 to 44 years .....	16,399	17,349	9,769	10,205	6,631	7,144
45 to 54 years .....	15,660	15,836	9,392	9,491	6,288	6,345
55 to 64 years .....	10,472	10,710	6,366	6,408	4,106	4,302
55 to 59 years .....	6,510	6,710	3,935	4,031	2,575	2,679
60 to 64 years .....	3,962	4,000	2,431	2,377	1,531	1,623
65 years and over .....	2,452	2,598	1,383	1,507	1,069	1,091
<b>Agriculture</b> .....	3,140	3,151	2,587	2,544	553	607
16 to 19 years .....	370	326	328	270	42	55
16 to 17 years .....	204	172	174	143	30	29
18 to 19 years .....	166	154	155	127	12	27
20 to 24 years .....	341	378	284	298	57	80
25 to 54 years .....	1,581	1,568	1,241	1,210	340	358
25 to 34 years .....	545	589	420	468	125	121
35 to 44 years .....	498	468	390	357	108	111
45 to 54 years .....	538	511	431	385	107	126
55 to 64 years .....	504	518	418	439	85	79
55 to 59 years .....	276	293	219	232	57	61
60 to 64 years .....	228	225	200	207	28	18
65 years and over .....	344	362	315	327	29	35

# HOUSEHOLD DATA

## 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. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>TOTAL</b> .....	89,258	93,180	49,114	50,725	33,080	35,083	3,840	3,950	3,223	3,423
<b>White-collar workers</b> .....	44,791	46,766	21,101	21,826	21,496	22,641	591	622	1,603	1,677
Professional and technical .....	13,659	14,257	7,751	8,013	5,744	6,083	69	75	95	87
Health workers .....	2,421	2,547	863	903	1,537	1,629	5	--	16	15
Teachers, except college .....	3,182	3,208	964	950	2,185	2,233	3	2	29	22
Other professional and technical .....	8,056	8,502	5,924	6,160	2,002	2,221	61	73	50	50
Managers and administrators, except farm .....	9,292	9,987	7,175	7,648	2,047	2,254	41	58	29	27
Salaries workers .....	7,548	8,042	5,827	6,163	1,656	1,800	41	51	25	27
Self-employed workers in retail trade .....	885	942	632	630	248	311	1	--	4	--
Self-employed workers, except retail trade .....	860	1,004	717	855	143	143	--	6	--	--
Sales workers .....	5,794	5,914	3,089	3,008	2,082	2,248	270	271	354	387
Retail trade .....	3,184	3,182	1,013	977	1,624	1,626	218	218	329	361
Other industries .....	2,610	2,732	2,075	2,031	458	622	52	54	25	26
Clerical workers .....	16,045	16,608	3,086	3,158	11,622	12,056	211	219	1,125	1,176
Stenographers, typists, and secretaries .....	4,512	4,696	83	63	4,114	4,281	8	--	307	351
Other clerical workers .....	11,533	11,912	3,003	3,095	7,508	7,775	203	219	818	825
<b>Blue-collar workers</b> .....	29,521	30,996	22,208	23,169	4,877	5,274	2,078	2,157	358	396
Craft and kindred workers .....	11,670	12,093	10,669	10,992	554	637	405	415	43	50
Carpenters .....	1,113	1,187	1,035	1,096	9	11	66	75	3	4
Construction craft, except carpenters .....	2,362	2,467	2,226	2,328	27	38	102	99	6	2
Mechanics and repairers .....	3,063	3,305	2,892	3,102	29	49	136	153	7	2
Metal craft .....	1,264	1,167	1,200	1,104	42	33	24	28	--	2
Blue-collar worker supervisors, not elsewhere classified .....	1,551	1,633	1,396	1,463	128	163	20	6	7	1
All other .....	2,317	2,335	1,920	1,899	319	343	56	54	22	39
Operatives, except transport .....	10,207	10,809	5,617	5,895	3,760	4,009	597	642	233	263
Durable goods manufacturing .....	4,523	4,925	2,847	3,025	1,426	1,582	177	213	73	105
Nondurable goods manufacturing .....	3,378	3,351	1,327	1,330	1,839	1,810	98	101	115	110
Other industries .....	2,305	2,534	1,443	1,540	495	618	322	328	46	48
Transport equipment operatives .....	3,440	3,539	3,034	3,101	234	241	156	183	17	14
Drivers, motor vehicles .....	2,861	3,004	2,503	2,603	220	232	127	156	11	12
All other .....	579	535	530	498	14	8	29	27	6	2
Nonfarm laborers .....	4,204	4,554	2,889	3,181	330	387	921	917	65	69
Construction .....	696	831	547	672	7	14	137	144	4	2
Manufacturing .....	1,016	1,035	779	779	114	138	119	113	4	15
Other industries .....	2,492	2,688	1,563	1,739	209	235	664	660	56	53
<b>Service workers</b> .....	12,252	12,786	3,820	3,805	6,305	6,748	897	929	1,230	1,305
Private household workers .....	1,100	1,210	13	20	865	924	14	10	207	257
Service workers, except private household .....	11,152	11,576	3,808	3,785	5,439	5,824	882	919	1,023	1,048
Food service workers .....	4,094	4,272	723	734	2,103	2,193	551	593	715	753
Protective service workers .....	1,321	1,329	1,203	1,189	87	123	25	17	6	--
All other .....	5,737	5,975	1,882	1,862	3,249	3,508	306	309	302	295
<b>Farm workers</b> .....	2,694	2,632	1,985	1,924	403	420	274	242	33	46
Farmers and farm managers .....	1,437	1,407	1,338	1,292	89	106	8	9	2	--
Farm laborers and supervisors .....	1,258	1,225	647	632	314	313	266	233	31	46
Paid workers .....	919	960	607	602	111	141	184	181	17	36
Unpaid family workers .....	338	265	40	31	203	172	82	52	14	10

## HOUSEHOLD DATA

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978	Apr. 1977	Apr. 1978
<b>TOTAL</b>						
Total employed (thousands) . . . . .	89,258	93,180	52,955	54,674	36,303	38,506
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	50.2	50.2	41.0	41.1	63.6	63.2
Professional and technical . . . . .	15.3	15.3	14.8	14.8	16.1	16.0
Managers and administrators, except farm . . . . .	10.4	10.7	13.6	14.1	5.7	5.9
Sales workers . . . . .	6.5	6.3	6.3	6.0	6.7	6.8
Clerical workers . . . . .	18.0	17.8	6.2	6.2	35.1	34.4
Blue-collar workers . . . . .	33.1	33.3	45.9	46.3	14.4	14.7
Craft and kindred workers . . . . .	13.1	13.0	20.9	20.9	1.6	1.8
Operatives, except transport . . . . .	11.4	11.6	11.7	12.0	11.0	11.1
Transport equipment operatives . . . . .	3.9	3.8	6.0	6.0	.7	.7
Nonfarm laborers . . . . .	4.7	4.9	7.2	7.5	1.1	1.2
Service workers . . . . .	13.7	13.7	8.9	8.7	20.8	20.9
Private household workers . . . . .	1.2	1.3	.1	.1	3.0	3.1
Other service workers . . . . .	12.5	12.4	8.9	8.6	17.8	17.8
Farm workers . . . . .	3.0	2.8	4.3	4.0	1.2	1.2
Farmers and farm managers . . . . .	1.6	1.5	2.5	2.4	.3	.3
Farm laborers and supervisors . . . . .	1.4	1.3	1.7	1.6	1.0	.9
<b>White</b>						
Total employed (thousands) . . . . .	79,618	82,848	47,757	49,218	31,861	33,630
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	52.0	52.0	42.6	42.8	66.1	65.6
Professional and technical . . . . .	15.7	15.8	15.3	15.4	16.2	16.3
Managers and administrators, except farm . . . . .	11.1	11.5	14.4	15.0	6.1	6.4
Sales workers . . . . .	7.0	6.8	6.8	6.4	7.3	7.5
Clerical workers . . . . .	18.3	17.9	6.1	6.0	36.4	35.4
Blue-collar workers . . . . .	32.5	32.7	45.0	45.3	13.9	14.1
Craft and kindred workers . . . . .	13.6	13.5	21.6	21.5	1.7	1.8
Operatives, except transport . . . . .	11.0	11.0	11.4	11.5	10.4	10.4
Transport equipment operatives . . . . .	3.7	3.6	5.6	5.6	.7	.7
Nonfarm laborers . . . . .	4.2	4.5	6.4	6.7	1.1	1.2
Service workers . . . . .	12.4	12.4	8.1	7.9	18.8	19.0
Private household workers . . . . .	.9	1.0	.1	(1)	2.2	2.4
Other service workers . . . . .	11.5	11.4	8.0	7.9	16.6	16.6
Farm workers . . . . .	3.1	2.9	4.4	4.0	1.2	1.3
Farmers and farm managers . . . . .	1.7	1.6	2.7	2.5	.3	.3
Farm laborers and supervisors . . . . .	1.4	1.3	1.7	1.5	1.0	1.0
<b>Black and other</b>						
Total employed (thousands) . . . . .	9,640	10,333	5,198	5,457	4,443	4,876
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	35.4	35.4	26.3	25.7	46.1	46.4
Professional and technical . . . . .	12.2	11.5	9.9	9.3	14.9	14.0
Managers and administrators, except farm . . . . .	5.1	4.5	7.0	6.2	2.9	2.6
Sales workers . . . . .	2.4	2.6	2.2	2.6	2.6	2.6
Clerical workers . . . . .	15.7	16.8	7.2	7.6	25.6	27.2
Blue-collar workers . . . . .	37.4	38.1	53.8	55.4	18.3	18.9
Craft and kindred workers . . . . .	8.4	8.6	14.7	15.1	1.1	1.4
Operatives, except transport . . . . .	15.1	16.1	14.9	16.4	15.4	15.7
Transport equipment operatives . . . . .	5.3	5.3	9.5	9.5	.5	.5
Nonfarm laborers . . . . .	8.5	8.2	14.7	14.3	1.3	1.3
Service workers . . . . .	25.0	24.1	16.8	15.5	34.7	33.9
Private household workers . . . . .	4.0	3.6	.1	.1	8.6	7.5
Other service workers . . . . .	21.0	20.5	16.7	15.3	26.1	26.4
Farm workers . . . . .	2.1	2.3	3.2	3.5	.9	.9
Farmers and farm managers . . . . .	.5	.5	.9	.9	.1	.1
Farm laborers and supervisors . . . . .	1.6	1.8	2.3	2.6	.8	.8

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

# HOUSEHOLD DATA

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

[In thousands]

Age and sex	April 1978								
	Nonagricultural 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					
<b>Total, 16 years and over</b> .....	83,147	1,378	15,473	66,296	6,365	517	1,353	1,521	278
16 to 19 years .....	6,915	344	551	6,020	101	30	247	15	64
16 to 17 years .....	2,708	267	178	2,263	57	16	127	4	41
18 to 19 years .....	4,207	77	373	3,757	44	14	120	12	23
20 to 24 years .....	12,375	110	1,616	10,649	331	26	255	100	22
25 to 34 years .....	22,253	157	4,523	17,573	1,404	100	316	229	44
35 to 44 years .....	15,787	143	3,361	12,283	1,423	139	159	269	40
45 to 54 years .....	14,281	186	3,123	10,972	1,426	130	147	300	63
55 to 64 years .....	9,490	246	2,002	7,242	1,153	67	146	344	28
55 to 59 years .....	5,982	118	1,317	4,547	680	48	88	183	22
60 to 64 years .....	3,507	127	685	2,695	473	20	57	161	6
65 years and over .....	2,046	192	297	1,557	527	25	82	262	17
<b>Males, 16 years and over</b> .....	47,537	156	7,828	39,553	4,551	43	1,071	1,390	83
16 to 19 years .....	3,603	80	248	3,276	58	18	203	15	52
16 to 17 years .....	1,401	55	83	1,263	38	12	103	4	37
18 to 19 years .....	2,203	25	165	2,012	20	6	100	11	16
20 to 24 years .....	6,572	11	689	5,872	232	7	196	91	11
25 to 34 years .....	13,051	10	2,298	10,743	972	5	252	207	8
35 to 44 years .....	9,178	7	1,706	7,465	1,025	2	118	240	--
45 to 54 years .....	8,433	19	1,639	6,776	1,057	1	114	270	--
55 to 64 years .....	5,579	9	1,083	4,487	829	--	113	324	3
55 to 59 years .....	3,541	4	712	2,825	489	1	63	167	2
60 to 64 years .....	2,039	6	371	1,662	340	--	50	156	1
65 years and over .....	1,120	19	166	934	378	9	76	243	8
<b>Females, 16 years and over</b> .....	35,610	1,222	7,645	26,743	1,813	475	282	131	195
16 to 19 years .....	3,312	264	303	2,744	43	12	44	--	11
16 to 17 years .....	1,307	213	95	999	18	4	24	--	4
18 to 19 years .....	2,005	52	208	1,745	24	8	20	--	7
20 to 24 years .....	5,803	99	927	4,778	99	19	59	9	11
25 to 34 years .....	9,202	147	2,225	6,830	432	95	64	22	35
35 to 44 years .....	6,609	136	1,655	4,818	398	137	42	29	40
45 to 54 years .....	5,847	167	1,484	4,196	369	129	33	30	63
55 to 64 years .....	3,910	236	920	2,754	324	67	33	21	25
55 to 59 years .....	2,441	115	605	1,722	191	47	25	16	20
60 to 64 years .....	1,469	122	314	1,033	133	21	8	5	5
65 years and over .....	927	173	131	623	148	16	7	20	9

## A-24. Employed persons by industry and occupation

[In thousands]

Industry	April 1978											
	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	
Agriculture .....	3,151	65	37	5	70	58	18	36	221	--	8	2,632
Mining .....	808	90	70	19	94	219	229	55	26	--	6	--
Construction .....	5,848	162	731	27	403	3,196	288	176	831	--	33	--
Manufacturing .....	21,099	2,054	1,558	470	2,462	4,024	8,275	810	1,035	--	410	--
Durable goods .....	12,624	1,383	922	170	1,393	2,606	4,925	410	589	--	225	--
Nondurable goods .....	8,475	671	636	300	1,069	1,418	3,351	399	446	--	185	--
Transportation and public utilities .....	6,120	507	569	48	1,331	1,300	180	1,484	521	--	181	--
Wholesale and retail trade .....	18,924	358	3,577	3,971	3,199	1,444	1,073	737	1,151	--	3,415	--
Wholesale trade .....	3,579	113	751	789	762	312	215	356	259	--	23	--
Retail trade .....	15,345	245	2,826	3,182	2,437	1,132	858	381	892	--	3,391	--
Finance, insurance, and real estate .....	5,379	308	1,030	1,206	2,398	102	12	9	86	--	227	--
Services .....	26,871	9,762	1,773	167	4,874	1,431	683	188	536	1,210	6,246	--
Private households .....	1,419	9	--	--	7	3	1	--	130	1,210	58	--
Other service industries .....	25,452	9,753	1,773	167	4,867	1,428	682	188	406	--	6,188	--
Public administration .....	4,981	951	641	1	1,779	318	51	44	147	--	1,050	--

**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. 1977				Apr. 1978		Paid absences <sup>2</sup>	
			Apr. 1977	Apr. 1978			Apr. 1977	Apr. 1978
Total .....	4,400	3,449	4,330	3,377	2,224	1,560	1,687	1,432
Vacation .....	2,160	1,167	2,147	1,158	1,485	867	527	215
Illness .....	1,421	1,313	1,390	1,290	589	525	668	663
Bad weather .....	65	100	55	81	--	--	--	--
Industrial dispute .....	90	58	90	58	--	--	--	--
All other reasons .....	664	811	648	789	150	167	492	554
<b>Males</b> .....	2,277	1,889	2,221	1,832	1,296	946	698	668
Vacation .....	1,075	660	1,064	655	846	528	163	79
Illness .....	813	734	791	716	372	329	325	332
All other reasons <sup>3</sup> .....	388	494	366	461	78	90	209	257
<b>Females</b> .....	2,123	1,561	2,109	1,545	927	614	990	766
Vacation .....	1,084	507	1,083	503	640	340	363	136
Illness .....	608	579	598	574	216	197	344	332
All other reasons <sup>3</sup> .....	431	475	427	468	71	78	283	299

<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 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work .....	89,731	86,652	3,079	100.0	100.0	100.0
1-34 hours .....	21,287	20,346	939	23.7	23.5	30.5
1-4 hours .....	871	812	58	1.0	.9	1.9
5-14 hours .....	4,439	4,215	224	4.9	4.9	7.3
15-29 hours .....	10,498	9,994	504	11.7	11.5	16.4
30-34 hours .....	5,479	5,325	153	6.1	6.1	5.0
35 hours and over .....	68,444	66,306	2,139	76.3	76.5	69.5
35-39 hours .....	6,387	6,241	146	7.1	7.2	4.7
40 hours .....	37,804	37,336	468	42.1	43.1	15.2
41 hours and over .....	24,253	22,729	1,525	27.0	26.2	49.5
41 to 48 hours .....	9,712	9,497	215	10.8	11.0	7.0
49 to 59 hours .....	8,140	7,712	429	9.1	8.9	13.9
60 hours and over .....	6,401	5,520	881	7.1	6.4	28.6
Average hours, total at work .....	38.8	38.5	44.3	--	--	--
Average hours, workers on full-time schedules .....	43.4	43.1	53.2	--	--	--

# HOUSEHOLD DATA

## 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 1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
<b>Total</b>	21,287	5,520	15,766	20,346	5,255	15,091
<b>Economic reasons</b>	3,210	1,320	1,890	3,017	1,223	1,794
Slack work	1,461	935	526	1,333	856	477
Material shortages or repairs to plant and equipment	71	71	--	70	70	--
New job started during week	233	233	--	222	222	--
Job terminated during week	82	82	--	76	76	--
Could find only part-time work	1,364	--	1,364	1,317	--	1,317
<b>Other reasons</b>	18,077	4,201	13,876	17,329	4,032	13,297
Does not want, or unavailable for, full-time work	12,015	--	12,015	11,554	--	11,554
Vacation	602	602	--	597	597	--
Illness	1,797	1,630	167	1,737	1,603	134
Bad weather	462	462	--	368	368	--
Industrial dispute	22	22	--	21	21	--
Legal or religious holiday	62	62	--	62	62	--
Full time for this job	1,243	--	1,243	1,209	--	1,209
All other reasons	1,872	1,421	451	1,780	1,381	399
<b>Average hours:</b>						
Economic reasons	21.7	23.7	20.3	21.8	23.7	20.5
Other reasons	20.1	26.5	18.2	20.2	26.7	18.3
<b>Worked 30 to 34 hours:</b>						
Economic reasons	934	505	429	890	474	416
Other reasons	4,545	2,370	2,175	4,435	2,318	2,117

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

[Numbers in thousands]

Industry	April 1978								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		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		
<b>Total<sup>1</sup></b>	86,652	3,017	13,297	70,338	47,609	9,497	13,232	38.5	43.1
<b>Wage and salary workers</b>	80,112	2,686	12,096	65,330	45,520	8,855	10,955	38.3	42.6
Construction	4,587	279	263	4,045	3,013	445	587	39.1	41.5
Manufacturing	19,882	491	719	18,672	12,721	3,159	2,792	41.2	42.5
Durable goods	11,890	172	288	11,430	7,682	1,974	1,774	41.9	42.7
Nondurable goods	7,992	319	430	7,243	5,040	1,185	1,018	40.3	42.2
Transportation and public utilities	5,575	156	387	5,032	3,502	632	898	40.9	43.1
Wholesale and retail trade	16,346	727	4,409	11,210	6,961	1,896	2,353	36.1	43.7
Finance, insurance, and real estate	4,754	46	506	4,202	3,102	477	623	39.1	41.8
Service industries	23,417	921	5,510	16,986	12,280	1,720	2,986	35.7	42.4
Private households	1,336	152	822	362	241	50	71	21.4	43.9
All other industries	22,081	769	4,688	16,624	12,039	1,670	2,915	36.6	42.4
Public administration	4,796	57	296	4,443	3,522	416	505	40.0	41.7
Self-employed workers	6,023	316	974	4,733	1,958	596	2,179	42.3	49.2
Unpaid family workers	517	14	227	276	133	46	97	35.6	47.3

<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 1978							Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 hours or more			
<b>TOTAL</b>									
Both sexes, 16 years and over	86,652	3,017	13,297	70,338	47,609	22,729	38.5	43.1	
16 to 21 years	11,690	732	4,882	6,076	4,659	1,417	29.4	40.9	
16 to 19 years	6,865	454	3,854	2,557	1,983	574	25.5	40.6	
16 to 17 years	2,709	104	2,248	357	287	70	18.4	38.5	
18 to 19 years	4,156	350	1,606	2,200	1,696	504	30.2	41.0	
20 years and over	79,787	2,563	9,443	67,781	45,626	22,155	39.7	43.2	
20 to 24 years	12,319	632	1,870	9,817	7,287	2,530	36.9	41.5	
25 years and over	67,468	1,931	7,573	57,964	38,342	19,622	40.2	43.5	
25 to 44 years	39,719	1,151	3,708	34,860	22,801	12,059	40.8	43.7	
45 to 64 years	25,319	671	2,616	22,032	14,816	7,216	40.4	43.3	
65 years and over	2,431	109	1,248	1,074	726	348	28.2	42.8	
<b>Males, 16 years and over</b>	50,299	1,360	4,212	44,727	27,004	17,723	41.7	44.5	
16 to 21 years	6,133	337	2,373	3,423	2,438	985	31.0	41.8	
16 to 19 years	3,606	211	1,928	1,467	1,069	398	27.0	41.4	
16 to 17 years	1,413	49	1,133	231	188	43	20.1	39.4	
18 to 19 years	2,193	162	795	1,236	881	355	31.5	41.8	
20 years and over	46,693	1,149	2,284	43,260	25,934	17,326	42.8	44.7	
20 to 24 years	6,605	323	766	5,516	3,751	1,765	38.8	42.7	
25 years and over	40,087	827	1,517	37,743	22,182	15,561	43.5	44.9	
25 to 44 years	23,513	520	481	22,512	12,843	9,669	44.3	45.3	
45 to 64 years	15,165	244	394	14,527	8,880	5,647	43.5	44.5	
65 years and over	1,408	63	644	701	455	246	30.0	43.0	
<b>Females, 16 years and over</b>	36,354	1,657	9,085	25,612	20,607	5,005	34.2	40.6	
16 to 21 years	5,557	394	2,509	2,654	2,222	432	27.6	39.7	
16 to 19 years	3,259	243	1,926	1,090	913	177	23.9	39.6	
16 to 17 years	1,296	56	1,116	124	97	27	16.5	36.9	
18 to 19 years	1,962	187	810	965	815	150	28.7	39.9	
20 years and over	33,095	1,414	7,159	24,522	19,693	4,829	35.2	40.6	
20 to 24 years	5,714	309	1,104	4,301	3,535	766	34.8	39.9	
25 years and over	27,381	1,105	6,055	20,221	16,158	4,063	35.3	40.8	
25 to 44 years	16,206	631	3,227	12,348	9,957	2,391	35.7	40.6	
45 to 64 years	10,152	428	2,224	7,500	5,930	1,570	35.6	41.0	
65 years and over	1,023	46	604	373	270	103	25.7	42.2	
<b>RACE</b>									
White	77,028	2,462	12,169	62,397	41,133	21,264	38.7	43.4	
Males	45,288	1,108	3,842	40,338	23,668	16,670	42.0	44.8	
Females	31,740	1,353	8,326	22,061	17,467	4,594	34.1	40.8	
Black and other	9,625	555	1,129	7,941	6,476	1,465	37.2	41.0	
Males	5,011	251	370	4,390	3,337	1,053	39.4	42.3	
Females	4,614	304	759	3,551	3,139	412	34.8	39.5	
<b>MARITAL STATUS</b>									
<b>Males:</b>									
Married, spouse present	35,371	656	1,164	33,551	19,334	14,217	43.8	45.1	
Widowed, divorced, or separated	3,765	153	198	3,414	2,150	1,264	42.0	44.2	
Single (never married)	11,163	551	2,851	7,761	5,518	2,243	35.0	42.5	
<b>Females:</b>									
Married, spouse present	20,508	838	5,163	14,507	11,808	2,699	34.4	40.4	
Widowed, divorced, or separated	6,881	345	1,106	5,430	4,182	1,248	36.8	41.2	
Single (never married)	8,965	475	2,816	5,674	4,617	1,057	31.7	40.4	

# HOUSEHOLD DATA

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

Numbers in thousands

Occupational group and sex	April 1978								
	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</b>									
White-collar workers	45,215	939	6,794	37,482	24,449	4,642	8,391	39.5	43.7
Professional and technical	13,868	263	1,746	11,859	7,492	1,408	2,959	40.4	44.2
Managers and administrators, except farm	9,655	82	390	9,183	4,279	1,397	3,507	46.2	47.5
Sales workers	5,679	179	1,546	3,954	2,255	586	1,113	36.5	44.5
Clerical workers	16,013	415	3,112	12,486	10,422	1,251	813	35.6	40.2
Blue-collar workers	29,640	1,315	2,279	26,046	17,835	4,128	4,083	39.9	42.6
Craft and kindred workers	11,613	376	461	10,776	7,130	1,748	1,898	41.4	43.0
Operatives, except transport	10,285	498	653	9,134	6,562	1,510	1,062	39.6	41.8
Transport equipment operatives	3,371	144	319	2,908	1,613	457	838	42.3	45.8
Nonfarm laborers	4,371	297	845	3,229	2,530	414	285	35.1	41.1
Service workers	12,314	801	4,337	7,176	5,540	766	870	31.8	41.8
Private household	1,169	121	710	338	232	39	67	22.1	43.7
Other service workers	11,144	680	3,627	6,837	5,306	728	803	32.8	41.7
<b>Males</b>									
White-collar workers	21,848	275	1,504	20,069	10,564	2,788	6,717	44.0	46.2
Professional and technical	7,906	103	513	7,290	4,157	848	2,285	43.7	45.8
Managers and administrators, except farm	7,466	57	178	7,231	3,023	1,127	3,081	47.5	48.3
Sales workers	3,195	43	429	2,723	1,344	429	950	41.9	46.2
Clerical workers	3,281	71	383	2,827	2,041	384	402	38.8	42.1
Blue-collar workers	24,267	957	1,630	21,680	14,304	3,541	3,835	40.6	43.1
Craft and kindred workers	10,949	369	341	10,239	6,735	1,662	1,842	41.6	43.1
Operatives, except transport	6,256	195	355	5,706	3,739	1,060	907	41.0	42.9
Transport equipment operatives	3,122	123	181	2,818	1,544	447	827	43.4	45.9
Nonfarm laborers	3,940	271	752	2,917	2,286	372	259	35.1	41.1
Service workers	4,561	156	1,133	3,272	2,304	406	562	36.2	43.6
Private household	29	7	9	13	11	2	--	23.4	42.8
Other service workers	4,532	149	1,123	3,260	2,294	404	562	36.3	43.6
<b>Females</b>									
White-collar workers	23,367	665	5,291	17,411	13,883	1,854	1,674	35.2	40.8
Professional and technical	5,962	161	1,233	4,568	3,334	559	675	36.1	41.6
Managers and administrators, except farm	2,189	25	212	1,952	1,256	270	426	41.8	44.5
Sales workers	2,484	134	1,117	1,233	913	157	163	29.6	40.9
Clerical workers	12,732	345	2,729	9,658	8,381	867	410	34.8	39.6
Blue-collar workers	5,373	358	648	4,367	3,532	587	248	36.7	40.1
Craft and kindred workers	664	7	120	537	396	85	56	37.2	40.9
Operatives, except transport	4,029	304	298	3,427	2,822	450	155	37.4	39.9
Transport equipment operatives	249	21	138	90	69	10	11	28.2	41.8
Nonfarm laborers	431	26	93	312	244	42	26	34.6	41.2
Service workers	7,752	645	3,205	3,902	3,234	360	308	29.2	40.3
Private household	1,140	112	701	327	224	36	67	22.0	43.7
Other service workers	6,612	532	2,504	3,576	3,012	324	240	30.5	40.0

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

[Numbers in thousands]

Employment status	April 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population . . . . .	8,188	4,169	4,019	6,872	3,507	3,365	1,316	661	654
Civilian labor force . . . . .	1,495	813	682	1,391	743	648	104	70	34
Employed . . . . .	1,282	705	577	1,211	652	559	71	53	18
Agriculture . . . . .	139	114	25	135	109	26	4	4	--
Nonagricultural industries . . . . .	1,143	591	551	1,076	543	534	66	49	18
Unemployed . . . . .	213	108	105	180	92	89	33	17	16
Unemployment rate . . . . .	14.3	13.3	15.4	12.9	12.4	13.7	31.7	(1)	(1)
Not in labor force . . . . .	6,693	3,355	3,337	5,481	2,764	2,717	1,212	591	620
Keeping house . . . . .	53	9	44	45	9	36	8	--	8
Going to school . . . . .	6,525	3,287	3,238	5,341	2,706	2,635	1,184	581	603
Unable to work . . . . .	10	6	4	8	6	2	2	--	2
All other reasons . . . . .	103	53	51	86	42	44	17	10	7

<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 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
Total . . . . .	1,282	705	577	100.0	100.0	100.0
Nonagricultural industries . . . . .	1,143	591	551	89.2	84.1	95.3
Wage and salary workers . . . . .	1,027	499	528	80.2	71.0	91.3
Private household workers . . . . .	442	105	336	34.5	14.9	58.1
Government workers . . . . .	38	24	14	3.0	3.4	2.4
Other wage and salary workers . . . . .	547	369	178	42.7	52.5	30.8
Self-employed workers . . . . .	101	78	23	7.9	11.1	4.0
Unpaid family workers . . . . .	15	14	1	1.2	2.0	.2
Agriculture . . . . .	139	114	25	10.9	16.2	4.3
Wage and salary workers . . . . .	88	71	18	6.9	10.1	3.1
Self-employed workers . . . . .	15	11	4	1.2	1.6	.7
Unpaid family workers . . . . .	35	31	4	2.7	4.4	.7
<b>OCCUPATION</b>						
Total . . . . .	1,282	705	577	100.0	100.0	100.0
White-collar workers . . . . .	308	224	83	24.0	31.9	14.4
Professional and technical . . . . .	7	1	6	.5	.1	1.0
Managers and administrators, except farm . . . . .	4	2	2	.3	.3	.3
Sales workers . . . . .	249	195	54	19.4	27.7	9.3
Clerical workers . . . . .	48	26	22	3.7	3.7	3.8
Blue-collar workers . . . . .	231	209	23	18.0	29.7	4.0
Craft and kindred workers . . . . .	15	13	2	1.2	1.8	.3
Operatives, except transport . . . . .	40	27	13	3.1	3.8	2.2
Transport equipment operatives . . . . .	7	7	--	.5	1.0	--
Nonfarm laborers . . . . .	170	161	8	13.3	22.9	1.4
Service workers . . . . .	613	168	445	47.8	23.9	77.0
Private household workers . . . . .	364	28	336	28.4	4.0	58.1
Other service workers . . . . .	249	140	109	19.4	19.9	18.9
Farm workers . . . . .	129	104	26	10.1	14.8	4.5
Farmers and farm managers . . . . .	8	4	4	.6	.6	.7
Farm laborers and supervisors . . . . .	121	99	22	9.4	14.1	3.8

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Numbers in thousands]

Employment status	1977										1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>TOTAL</b>														
Total noninstitutional population <sup>1</sup> .....	157,986	158,228	158,456	158,682	158,899	159,114	159,334	159,522	159,736	159,937	160,128	160,313	160,504	
Armed Forces <sup>1</sup> .....	2,132	2,128	2,129	2,135	2,137	2,131	2,134	2,132	2,129	2,121	2,124	2,122	2,118	
Civilian noninstitutional population <sup>1</sup> .....	155,854	156,101	156,327	156,547	156,761	156,982	157,201	157,389	157,608	157,816	158,004	158,190	158,386	
Civilian labor force .....	96,746	97,161	97,552	97,307	97,614	97,756	98,071	98,877	98,919	99,107	99,093	99,414	99,784	
Percent of civilian population .....	62.1	62.2	62.4	62.2	62.3	62.3	62.4	62.8	62.8	62.8	62.7	62.8	63.0	
Employed .....	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	
Percent of total population .....	56.9	57.0	57.2	57.1	57.1	57.2	57.4	57.8	58.0	58.1	58.1	58.2	58.4	
Agriculture .....	3,256	3,335	3,330	3,206	3,224	3,199	3,243	3,357	3,323	3,354	3,242	3,310	3,275	
Nonagricultural industries .....	86,621	86,932	87,318	87,382	87,569	87,889	88,140	88,857	89,286	89,527	89,761	89,956	90,526	
Unemployed .....	6,869	6,894	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	5,983	
Unemployment rate .....	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	
Not in labor force .....	59,108	58,940	58,775	59,240	59,147	59,226	59,130	58,512	58,689	58,709	58,911	58,776	58,602	
<b>Males, 20 years and over</b>														
Total noninstitutional population <sup>1</sup> .....	67,209	67,324	67,431	67,537	67,642	67,745	67,852	67,948	68,052	68,148	68,240	68,327	68,419	
Civilian noninstitutional population <sup>1</sup> .....	65,522	65,641	65,743	65,845	65,947	66,056	66,161	66,257	66,364	66,467	66,556	66,645	66,740	
Civilian labor force .....	52,147	52,273	52,511	52,375	52,445	52,366	52,739	52,971	53,122	53,153	53,142	53,242	53,263	
Percent of civilian population .....	79.6	79.6	79.9	79.5	79.5	79.3	79.7	79.9	80.0	80.0	79.8	79.9	79.8	
Employed .....	49,419	49,505	49,850	49,728	49,787	49,888	50,118	50,459	50,688	50,673	50,759	50,833	51,038	
Percent of total population .....	73.5	73.5	73.9	73.6	73.6	73.6	73.9	74.3	74.5	74.4	74.4	74.4	74.6	
Agriculture .....	2,280	2,356	2,362	2,295	2,327	2,320	2,326	2,330	2,346	2,394	2,283	2,289	2,295	
Nonagricultural industries .....	47,139	47,149	47,488	47,433	47,460	47,568	47,792	48,129	48,342	48,279	48,476	48,544	48,743	
Unemployed .....	2,728	2,768	2,661	2,647	2,658	2,478	2,621	2,512	2,434	2,480	2,383	2,409	2,225	
Unemployment rate .....	5.2	5.3	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	4.2	
Not in labor force .....	13,375	13,368	13,232	13,470	13,502	13,690	13,422	13,286	13,242	13,314	13,414	13,403	13,477	
<b>Females, 20 years and over</b>														
Total noninstitutional population <sup>1</sup> .....	73,958	74,081	74,198	74,315	74,429	74,543	74,660	74,768	74,883	74,991	75,095	75,196	75,300	
Civilian noninstitutional population <sup>1</sup> .....	73,863	73,987	74,101	74,217	74,332	74,444	74,561	74,669	74,783	74,892	74,996	75,093	75,198	
Civilian labor force .....	35,428	35,711	35,629	35,619	35,686	36,203	35,984	36,451	36,418	36,595	36,654	36,849	37,117	
Percent of civilian population .....	48.0	48.3	48.1	48.0	48.0	48.6	48.3	48.8	48.7	48.9	48.9	49.1	49.4	
Employed .....	32,954	33,249	33,079	33,160	33,163	33,690	33,537	33,923	34,009	34,348	34,569	34,722	34,948	
Percent of total population .....	44.6	44.9	44.6	44.6	44.6	45.2	44.9	45.4	45.4	45.8	46.0	46.2	46.4	
Agriculture .....	577	572	564	529	511	496	525	589	543	517	604	628	623	
Nonagricultural industries .....	32,377	32,677	32,515	32,631	32,652	33,194	33,012	33,334	33,466	33,831	33,965	34,094	34,325	
Unemployed .....	2,474	2,462	2,550	2,459	2,523	2,513	2,447	2,528	2,409	2,247	2,085	2,127	2,169	
Unemployment rate .....	7.0	6.9	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	5.8	
Not in labor force .....	38,435	38,276	38,472	38,598	38,646	38,241	38,577	38,218	38,365	38,297	38,342	38,244	38,081	
<b>Both sexes, 16-19 years</b>														
Total noninstitutional population <sup>1</sup> .....	16,819	16,823	16,827	16,830	16,828	16,825	16,822	16,806	16,802	16,798	16,794	16,790	16,785	
Civilian noninstitutional population <sup>1</sup> .....	16,468	16,473	16,483	16,485	16,483	16,483	16,480	16,463	16,460	16,457	16,453	16,452	16,449	
Civilian labor force .....	9,171	9,177	9,412	9,313	9,483	9,187	9,348	9,455	9,379	9,359	9,297	9,323	9,404	
Percent of civilian population .....	55.7	55.7	57.1	56.5	57.5	55.7	56.7	57.4	57.0	56.9	56.5	56.7	57.2	
Employed .....	7,504	7,513	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	7,815	
Percent of total population .....	44.6	44.7	45.9	45.8	46.6	44.6	45.9	46.6	47.1	46.8	45.7	45.9	46.6	
Agriculture .....	399	407	404	382	386	383	392	438	434	443	355	393	357	
Nonagricultural industries .....	7,105	7,106	7,315	7,318	7,457	7,127	7,336	7,394	7,478	7,417	7,320	7,318	7,458	
Unemployed .....	1,667	1,664	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	1,589	
Unemployment rate .....	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	
Not in labor force .....	7,297	7,296	7,071	7,172	7,000	7,296	7,132	7,008	7,081	7,098	7,156	7,129	7,045	

<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-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

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

[Numbers in thousands]

Full- and part-time employment status	1977										1978			
	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 .....	82,217	82,658	83,328	83,155	83,324	83,229	83,534	83,908	83,996	84,375	84,449	84,537	84,819	
Employed .....	76,790	77,208	77,885	77,754	77,789	77,893	78,147	78,693	79,058	79,484	79,658	79,818	80,261	
Unemployed .....	5,427	5,450	5,443	5,401	5,535	5,336	5,387	5,215	4,938	4,891	4,791	4,719	4,558	
Unemployment rate .....	6.6	6.6	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	5.4	
<b>PART TIME</b>														
Total, 16 years and over:														
Civilian labor force .....	14,510	14,439	14,133	14,170	14,432	14,512	14,665	14,900	14,870	14,762	14,705	14,824	14,974	
Employed .....	13,067	13,005	12,644	12,847	13,126	13,105	13,253	13,470	13,541	13,443	13,446	13,402	13,536	
Unemployed .....	1,443	1,434	1,489	1,323	1,306	1,407	1,412	1,430	1,329	1,319	1,259	1,422	1,438	
Unemployment rate .....	9.9	9.9	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	9.6	

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.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Characteristics	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>WHITE</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force	85,625	85,899	86,258	85,962	86,298	86,407	86,812	87,292	87,193	87,425	87,360	87,532	87,945
Employed	80,149	80,512	80,816	80,758	81,032	81,203	81,614	82,181	82,391	82,650	82,697	82,880	83,386
Unemployed	5,476	5,387	5,442	5,204	5,266	5,204	5,198	5,111	4,802	4,775	4,663	4,652	4,559
Unemployment rate	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3	5.2
<b>Males, 20 years and over:</b>													
Civilian labor force	46,663	46,775	47,002	46,906	47,003	47,008	47,278	47,417	47,507	47,440	47,441	47,528	47,555
Employed	44,435	44,554	44,869	44,796	44,925	45,033	45,220	45,452	45,592	45,546	45,599	45,643	45,859
Unemployed	2,228	2,221	2,133	2,110	2,078	1,975	2,058	1,965	1,915	1,894	1,842	1,885	1,696
Unemployment rate	4.8	4.7	4.5	4.5	4.4	4.2	4.4	4.1	4.0	4.0	3.9	4.0	3.6
<b>Females, 20 years and over:</b>													
Civilian labor force	30,648	30,841	30,843	30,827	30,844	31,171	31,162	31,445	31,381	31,612	31,615	31,701	31,985
Employed	28,746	28,993	28,852	28,912	28,895	29,244	29,268	29,536	29,545	29,875	30,021	30,149	30,345
Unemployed	1,902	1,848	1,991	1,915	1,949	1,927	1,894	1,909	1,836	1,737	1,594	1,552	1,640
Unemployment rate	6.2	6.0	6.5	6.2	6.3	6.2	6.1	6.1	5.9	5.5	5.0	4.9	5.1
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force	8,314	8,283	8,413	8,229	8,451	8,228	8,372	8,430	8,305	8,373	8,304	8,303	8,405
Employed	6,968	6,965	7,095	7,050	7,212	6,926	7,126	7,193	7,254	7,229	7,077	7,088	7,182
Unemployed	1,346	1,318	1,318	1,179	1,239	1,302	1,246	1,237	1,051	1,144	1,227	1,215	1,223
Unemployment rate	16.2	15.9	15.7	14.3	14.7	15.8	14.9	14.7	12.7	13.7	14.8	14.6	14.6
<b>BLACK AND OTHER</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force	11,086	11,175	11,325	11,241	11,375	11,344	11,398	11,551	11,761	11,725	11,785	11,871	11,816
Employed	9,725	9,732	9,834	9,746	9,752	9,854	9,842	9,966	10,271	10,238	10,391	10,402	10,418
Unemployed	1,361	1,443	1,491	1,495	1,623	1,490	1,556	1,585	1,490	1,487	1,394	1,469	1,398
Unemployment rate	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4	11.8
<b>Males, 20 years and over:</b>													
Civilian labor force	5,443	5,504	5,552	5,482	5,500	5,405	5,522	5,541	5,649	5,678	5,662	5,699	5,673
Employed	4,977	4,954	5,020	4,921	4,856	4,837	4,898	4,985	5,137	5,124	5,173	5,216	5,172
Unemployed	466	550	532	561	644	568	624	556	512	554	489	483	501
Unemployment rate	8.6	10.0	9.6	10.2	11.7	10.5	11.3	10.0	9.1	9.8	8.6	8.5	8.8
<b>Females, 20 years and over:</b>													
Civilian labor force	4,767	4,794	4,782	4,763	4,839	4,966	4,883	4,988	5,065	5,051	5,088	5,145	5,128
Employed	4,186	4,238	4,219	4,235	4,268	4,408	4,328	4,358	4,485	4,503	4,576	4,560	4,589
Unemployed	581	556	563	528	571	558	555	630	580	548	512	585	539
Unemployment rate	12.2	11.6	11.8	11.1	11.8	11.2	11.4	12.6	11.5	10.8	10.1	11.4	10.5
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force	876	877	991	996	1,036	973	993	1,022	1,047	996	1,035	1,027	1,015
Employed	562	540	595	590	628	609	616	623	649	611	642	626	657
Unemployed	314	337	396	406	408	364	377	399	398	385	393	401	358
Unemployment rate	35.8	38.4	40.0	40.8	39.4	37.4	38.0	39.0	38.0	38.7	38.0	39.0	35.3

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Unemployment rates]

Selected categories	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0
Males, 20 years and over .....	5.2	5.3	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	4.2
Females, 20 years and over .....	7.0	6.9	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	5.8
Both sexes, 16-19 years .....	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9
White .....	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3	5.2
Black and other .....	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4	11.8
Married men, spouse present .....	3.7	3.6	3.4	3.4	3.5	3.3	3.6	3.3	3.2	2.9	2.9	3.0	2.8
Married women, spouse present .....	6.6	6.5	6.8	6.5	6.5	6.4	6.3	6.5	6.2	5.6	5.2	5.1	5.0
Women who head families .....	9.4	9.1	9.4	9.3	10.0	10.0	9.3	9.3	8.1	7.9	7.6	8.6	10.1
Full-time workers .....	6.6	6.6	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	5.4
Part-time workers .....	9.9	9.9	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	9.6
Unemployed 15 weeks and over <sup>1</sup> .....	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4
Labor force time lost <sup>2</sup> .....	7.4	7.6	7.6	7.5	7.6	7.4	7.4	7.3	7.0	6.8	6.6	6.6	6.3
<b>OCCUPATION</b>													
White-collar workers .....	4.4	4.3	4.2	4.1	4.2	4.2	4.1	4.2	4.0	3.6	3.5	3.4	3.5
Professional and technical .....	3.2	2.9	3.0	2.9	3.0	3.0	3.0	2.9	2.8	2.7	2.5	2.6	2.5
Managers and administrators, except farm .....	2.9	2.7	2.7	2.6	2.5	2.5	2.6	3.0	2.5	2.5	1.9	2.3	2.0
Sales workers .....	5.3	5.5	5.3	5.4	5.2	5.1	5.0	4.9	4.7	3.9	4.3	4.3	4.3
Clerical workers .....	6.0	5.8	5.8	5.4	5.8	6.0	5.7	5.7	5.5	5.0	5.0	4.5	5.1
Blue-collar workers .....	7.9	8.0	7.8	8.1	8.3	7.8	8.0	7.6	7.2	7.1	7.1	7.1	6.5
Craft and kindred workers .....	5.0	5.6	5.5	5.5	5.5	5.1	5.4	5.2	5.2	5.4	5.0	5.1	4.3
Operatives, except transport .....	9.5	9.1	9.4	10.1	9.8	9.9	9.8	9.3	8.5	7.9	8.1	8.0	7.6
Transport equipment operatives .....	6.5	7.0	5.9	7.3	7.5	5.7	6.1	5.3	5.6	5.4	5.0	5.2	5.2
Nonfarm laborers .....	12.6	12.3	11.6	10.8	12.4	11.3	11.8	11.9	10.6	11.0	11.5	11.9	10.0
Service workers .....	8.3	8.8	8.3	7.8	8.3	7.9	8.1	7.8	7.8	7.6	7.1	7.7	7.7
Farm workers .....	4.7	4.4	4.8	4.2	4.0	4.7	4.4	4.1	3.9	3.9	4.7	4.7	3.1
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	7.1	7.2	6.9	6.9	7.0	6.8	6.9	6.7	6.3	6.2	6.1	6.0	5.9
Construction .....	12.2	12.8	12.3	11.8	11.4	10.4	12.1	11.2	10.8	11.7	11.5	11.3	9.5
Manufacturing .....	6.7	6.5	6.4	6.7	6.9	7.0	6.8	6.5	5.7	5.6	5.7	5.4	5.3
Durable goods .....	6.1	5.9	5.7	6.1	6.3	6.4	6.1	6.0	5.6	5.2	5.0	4.8	4.4
Nondurable goods .....	7.7	7.2	7.4	7.5	7.7	7.9	7.8	7.2	5.9	6.1	6.5	6.2	6.5
Transportation .....	4.5	4.4	4.3	4.7	4.8	4.8	4.8	4.7	4.9	4.3	3.2	3.7	3.7
Wholesale and retail trade .....	7.9	8.3	8.0	7.9	8.1	7.6	7.9	7.4	7.3	7.1	7.1	7.3	7.2
Finance and service industries .....	6.2	6.5	6.0	5.7	5.7	5.7	5.7	6.0	5.5	5.3	5.1	5.1	5.2
Government workers .....	4.1	4.0	4.2	3.9	4.3	4.1	4.1	4.3	4.3	4.2	3.5	3.7	3.8
Agricultural wage and salary workers .....	12.1	11.5	10.9	10.2	9.8	10.4	10.3	9.3	9.6	9.0	10.1	10.0	7.7

<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	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>Duration</b>													
Less than 5 weeks .....	3,041	2,789	3,076	2,820	2,865	2,784	2,804	2,851	2,628	2,700	2,586	2,820	2,790
5 to 14 weeks .....	1,899	2,128	2,050	2,050	2,237	2,152	2,117	2,037	1,937	1,861	1,820	1,877	1,784
15 weeks and over .....	1,828	1,869	1,788	1,824	1,800	1,834	1,848	1,829	1,797	1,688	1,568	1,463	1,384
15 to 26 weeks .....	720	812	826	881	933	908	920	936	941	864	897	766	716
27 weeks and over .....	1,108	1,057	962	943	867	926	928	893	856	824	671	697	668
Average (mean) duration, in weeks .....	14.4	14.9	14.3	14.1	13.7	14.0	13.8	13.7	13.8	13.1	12.5	12.3	12.3
Median duration, in weeks .....	7.0	7.3	6.1	7.2	7.2	6.9	7.1	7.0	7.1	6.6	7.0	6.2	5.8
<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 .....	44.9	41.1	44.5	42.1	41.5	41.1	41.4	42.4	41.3	43.2	43.3	45.8	46.8
5 to 14 weeks .....	28.1	31.4	29.6	30.6	32.4	31.8	31.3	30.3	30.4	29.8	30.5	30.5	29.9
15 weeks and over .....	27.0	27.5	25.9	27.2	26.1	27.1	27.3	27.2	28.2	27.0	26.2	23.8	23.2
15 to 26 weeks .....	10.6	12.0	11.9	13.2	13.5	13.4	13.6	13.9	14.8	13.8	15.0	12.4	12.0
27 weeks and over .....	16.4	15.6	13.9	14.1	12.6	13.7	13.7	13.3	13.5	13.2	11.2	11.3	11.2

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1977										1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Total, 16 years and over</b> .....	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	
16 to 19 years .....	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	
16 to 17 years .....	19.7	20.6	21.2	19.8	20.1	19.8	18.8	19.0	17.8	18.2	20.8	20.4	19.9	
18 to 19 years .....	16.8	16.4	16.3	15.7	15.5	16.7	16.2	15.9	13.7	14.5	15.0	15.2	14.4	
20 to 24 years .....	11.0	10.9	10.7	10.7	11.2	10.7	10.4	10.4	10.2	10.5	10.1	10.3	10.0	
25 years and over .....	5.0	4.9	5.0	4.9	4.9	4.7	4.9	4.7	4.4	4.2	3.9	4.0	3.9	
25 to 54 years .....	5.2	5.2	5.2	5.1	5.2	4.8	5.1	4.8	4.6	4.3	4.1	4.2	4.1	
55 years and over .....	4.1	4.1	3.8	3.9	3.9	4.1	4.2	4.1	4.0	3.5	3.3	3.1	3.2	
<b>Males, 16 years and over</b> .....	6.3	6.4	6.2	6.1	6.1	5.9	6.0	5.8	5.5	5.6	5.6	5.6	5.2	
16 to 19 years .....	17.5	17.4	17.5	16.9	17.4	17.7	16.7	16.4	15.3	14.9	17.2	17.1	16.6	
16 to 17 years .....	18.5	19.2	22.4	20.0	20.8	19.2	18.6	18.2	16.7	17.2	21.1	21.0	19.9	
18 to 19 years .....	16.1	16.1	15.3	14.8	14.9	15.8	15.1	15.0	13.9	13.4	14.3	14.3	13.4	
20 to 24 years .....	10.8	10.8	10.3	10.6	11.4	10.4	9.9	9.8	9.8	10.5	10.3	10.1	9.1	
25 years and over .....	4.3	4.3	4.1	4.2	4.1	3.9	4.3	3.8	3.6	3.5	3.4	3.5	3.3	
25 to 54 years .....	4.4	4.4	4.3	4.3	4.3	3.8	4.3	3.9	3.6	3.6	3.4	3.5	3.3	
55 years and over .....	3.8	3.9	3.3	3.7	3.5	3.9	4.1	3.7	3.7	3.2	3.2	3.2	3.3	
<b>Females, 16 years and over</b> .....	8.3	8.2	8.4	8.1	8.2	8.2	8.0	8.1	7.6	7.3	6.9	7.0	7.0	
16 to 19 years .....	18.9	19.0	18.5	17.8	17.2	18.9	18.0	18.1	16.1	17.4	17.7	17.5	17.2	
16 to 17 years .....	21.2	22.2	19.8	19.6	19.3	20.6	19.1	20.1	19.2	19.5	20.4	19.6	19.9	
18 to 19 years .....	17.7	16.8	17.5	16.6	16.2	17.7	17.4	16.8	13.5	15.8	15.7	16.1	15.6	
20 to 24 years .....	11.3	11.1	11.2	10.9	11.0	11.0	11.0	11.1	10.8	10.5	9.8	10.4	11.0	
25 years and over .....	6.1	5.9	6.2	6.2	6.2	6.0	5.8	6.0	5.7	5.2	4.7	4.7	4.8	
25 to 54 years .....	6.5	6.2	6.6	6.4	6.5	6.4	6.2	6.3	6.0	5.5	5.1	5.2	5.2	
55 years and over .....	4.5	4.4	4.5	4.4	4.5	4.5	4.5	4.8	4.4	3.8	3.3	3.0	3.0	

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

[Numbers in thousands]

Reason for unemployment	1977										1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>NUMBER OF UNEMPLOYED</b>														
Job losers .....	3,043	3,080	2,972	3,042	3,197	3,055	3,035	2,969	2,748	2,698	2,540	2,493	2,475	
On layoff .....	793	803	822	879	963	847	840	780	687	768	709	660	593	
Other job losers .....	2,250	2,277	2,150	2,163	2,234	2,208	2,195	2,189	2,061	1,930	1,831	1,833	1,882	
Job leavers .....	868	913	938	842	891	869	876	881	877	856	898	862	872	
Reentrants .....	1,993	1,961	1,917	1,860	1,872	1,879	1,906	1,891	1,886	1,821	1,796	1,911	1,734	
New entrants .....	985	890	1,087	973	947	935	857	901	820	914	868	923	925	
<b>PERCENT DISTRIBUTION</b>														
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Job losers .....	44.2	45.0	43.0	45.3	46.3	45.3	45.5	44.7	43.4	42.9	41.6	40.3	41.2	
On layoff .....	11.5	11.7	11.9	13.1	13.9	12.6	12.6	11.7	10.9	12.2	11.6	10.7	9.9	
Other job losers .....	32.7	33.3	31.1	32.2	32.3	32.8	32.9	33.0	32.6	30.7	30.0	29.6	31.3	
Job leavers .....	12.6	13.3	13.6	12.5	12.9	12.9	13.1	13.3	13.9	13.6	14.7	13.9	14.5	
Reentrants .....	28.9	28.7	27.7	27.7	27.1	27.9	28.6	28.5	29.8	29.0	29.4	30.9	28.9	
New entrants .....	14.3	13.0	15.7	14.5	13.7	13.9	12.8	13.6	13.0	14.5	14.2	14.9	15.4	
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>														
Job losers .....	3.1	3.2	3.0	3.1	3.3	3.1	3.1	3.0	2.8	2.7	2.6	2.5	2.5	
On layoff .....	.9	.9	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	
Reentrants .....	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.7	
New entrants .....	1.0	.9	1.1	1.0	1.0	1.0	.9	.9	.8	.9	.9	.9	.9	

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1977										1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Total, 16 years and over</b>	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	
16 to 19 years	7,504	7,513	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	7,815	
16 to 17 years	3,048	3,026	3,073	3,074	3,146	3,119	3,170	3,215	3,237	3,213	3,133	3,126	3,213	
18 to 19 years	4,492	4,479	4,605	4,551	4,666	4,445	4,563	4,610	4,664	4,657	4,585	4,575	4,636	
20 to 24 years	12,707	12,716	12,904	12,879	12,866	13,023	13,018	13,055	13,139	13,183	13,201	13,220	13,403	
25 years and over	69,660	70,021	70,004	70,039	70,006	70,559	70,691	71,309	71,551	71,914	72,176	72,315	72,561	
25 to 54 years	55,963	56,168	56,329	56,403	56,465	56,770	56,831	57,255	57,530	57,910	58,222	58,325	58,477	
55 years and over	13,696	13,768	13,694	13,606	13,620	13,779	13,905	14,006	14,039	14,003	13,984	13,984	14,108	
<b>Males, 16 years and over</b>	53,482	53,644	54,006	53,901	53,942	53,964	54,341	54,745	55,012	54,975	54,897	55,013	55,208	
16 to 19 years	4,063	4,139	4,156	4,173	4,155	4,076	4,223	4,286	4,324	4,302	4,138	4,180	4,170	
16 to 17 years	1,689	1,721	1,654	1,687	1,728	1,721	1,767	1,809	1,825	1,788	1,709	1,746	1,727	
18 to 19 years	2,412	2,401	2,462	2,438	2,421	2,392	2,455	2,473	2,492	2,514	2,461	2,436	2,483	
20 to 24 years	6,955	6,910	7,048	7,041	7,037	7,057	7,139	7,142	7,172	7,135	7,139	7,207	7,324	
25 years and over	42,472	42,598	42,785	42,679	42,687	42,843	43,004	43,320	43,530	43,557	43,649	43,611	43,708	
25 to 54 years	33,997	34,022	34,177	34,135	34,184	34,336	34,394	34,617	34,828	34,931	34,996	34,982	35,060	
55 years and over	8,465	8,539	8,588	8,535	8,515	8,500	8,633	8,698	8,734	8,649	8,637	8,653	8,663	
<b>Females, 16 years and over</b>	36,395	36,623	36,642	36,687	36,851	37,124	37,042	37,469	37,597	37,906	38,106	38,253	38,593	
16 to 19 years	3,441	3,374	3,563	3,527	3,688	3,434	3,505	3,546	3,588	3,558	3,537	3,531	3,645	
16 to 17 years	1,359	1,305	1,419	1,387	1,418	1,398	1,403	1,406	1,412	1,425	1,424	1,380	1,486	
18 to 19 years	2,080	2,078	2,143	2,113	2,245	2,053	2,108	2,137	2,172	2,143	2,124	2,139	2,153	
20 to 24 years	5,752	5,806	5,856	5,838	5,829	5,966	5,879	5,913	5,967	6,048	6,062	6,013	6,079	
25 years and over	27,188	27,423	27,219	27,360	27,319	27,716	27,687	27,989	28,021	28,357	28,527	28,704	28,853	
25 to 54 years	21,966	22,146	22,152	22,268	22,281	22,434	22,437	22,638	22,702	22,979	23,226	23,343	23,417	
55 years and over	5,231	5,229	5,106	5,071	5,105	5,259	5,272	5,308	5,305	5,354	5,347	5,331	5,445	

C=corrected.

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

[In thousands]

Sex and age	1977										1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Total, 16 years and over</b>	6,869	6,894	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	5,983	
16 to 19 years	1,667	1,664	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	1,589	
16 to 17 years	749	783	828	760	792	771	736	756	701	717	821	799	798	
18 to 19 years	909	881	898	847	858	892	879	871	740	791	806	817	782	
20 to 24 years	1,574	1,560	1,547	1,545	1,620	1,553	1,515	1,519	1,499	1,547	1,477	1,513	1,488	
25 years and over	3,646	3,628	3,655	3,643	3,621	3,502	3,641	3,493	3,319	3,155	2,941	2,987	2,933	
25 to 54 years	3,075	3,053	3,099	3,032	3,074	2,887	3,037	2,909	2,772	2,632	2,476	2,561	2,490	
55 years and over	580	586	538	557	555	588	615	605	585	503	470	449	463	
<b>Males, 16 years and over</b>	3,592	3,638	3,543	3,498	3,533	3,354	3,469	3,352	3,213	3,232	3,245	3,271	3,056	
16 to 19 years	864	870	882	851	875	876	848	840	779	752	862	862	831	
16 to 17 years	384	410	477	422	453	408	404	403	365	371	457	463	429	
18 to 19 years	462	460	444	425	424	450	435	438	401	389	410	408	384	
20 to 24 years	843	836	810	834	902	819	788	777	775	840	816	812	736	
25 years and over	1,887	1,916	1,846	1,849	1,829	1,724	1,929	1,714	1,640	1,601	1,519	1,562	1,491	
25 to 54 years	1,550	1,578	1,541	1,519	1,518	1,360	1,556	1,392	1,315	1,297	1,238	1,283	1,196	
55 years and over	335	343	296	325	312	342	369	337	339	289	285	284	297	
<b>Females, 16 years and over</b>	3,277	3,256	3,361	3,221	3,288	3,314	3,219	3,311	3,097	2,994	2,845	2,877	2,927	
16 to 19 years	803	794	811	762	765	801	772	783	688	747	760	750	758	
16 to 17 years	365	373	351	338	339	363	332	353	336	346	364	336	369	
18 to 19 years	447	421	454	422	434	442	444	433	339	402	396	409	398	
20 to 24 years	731	724	737	711	718	734	727	742	724	707	661	701	752	
25 years and over	1,759	1,712	1,809	1,794	1,792	1,778	1,712	1,779	1,679	1,554	1,422	1,425	1,442	
25 to 54 years	1,525	1,475	1,558	1,513	1,556	1,527	1,481	1,517	1,457	1,335	1,238	1,278	1,294	
55 years and over	245	243	242	232	243	246	246	268	246	214	185	165	166	

C=corrected.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801
Married men, spouse present .....	38,450	38,430	38,565	38,380	38,292	38,338	38,425	38,531	38,682	38,645	38,666	38,465	38,628
Married women, spouse present .....	21,053	20,928	20,825	20,824	20,810	21,185	21,119	21,278	21,416	21,638	21,738	21,674	21,847
<b>OCCUPATION</b>													
White-collar workers .....	44,804	44,655	44,840	45,057	45,198	45,493	46,083	46,251	46,316	46,547	46,555	46,835	46,789
Professional and technical .....	13,568	13,520	13,648	13,758	13,706	13,778	14,042	13,918	13,981	14,057	14,016	14,060	14,158
Managers and administrators, except farm .....	9,498	9,449	9,577	9,614	9,699	9,747	9,911	9,894	9,939	10,067	10,134	10,169	10,212
Sales workers .....	5,744	5,686	5,682	5,715	5,726	5,741	5,718	5,804	5,796	5,913	5,811	5,985	5,861
Clerical workers .....	15,994	16,000	15,933	15,970	16,067	16,227	16,412	16,635	16,600	16,510	16,594	16,621	16,558
Blue-collar workers .....	30,139	30,318	30,301	30,086	30,229	30,324	30,247	30,603	30,807	30,942	31,198	31,039	31,655
Craft and kindred workers .....	11,869	11,884	11,887	11,884	11,903	11,992	11,860	12,116	12,153	12,111	12,220	12,169	12,302
Operatives, except transport Transport equipment operatives .....	10,357	10,455	10,364	10,285	10,295	10,239	10,320	10,423	10,424	10,755	10,738	10,766	10,974
Nonfarm laborers .....	4,451	4,442	4,555	4,504	4,578	4,560	4,610	4,539	4,675	4,644	4,594	4,563	4,819
Service workers .....	12,294	12,372	12,660	12,426	12,520	12,556	12,473	12,590	12,617	12,704	12,703	12,572	12,830
Farm workers .....	2,752	2,861	2,815	2,725	2,741	2,695	2,755	2,809	2,805	2,872	2,769	2,788	2,687
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,302	1,318	1,382	1,276	1,314	1,339	1,387	1,405	1,405	1,387	1,345	1,389	1,408
Self-employed workers .....	1,553	1,646	1,578	1,552	1,578	1,572	1,577	1,590	1,605	1,604	1,587	1,527	1,539
Unpaid family workers .....	361	378	373	357	318	272	305	368	346	342	314	389	283
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	80,221	80,353	80,704	80,773	80,918	81,363	81,727	82,281	82,692	82,915	83,078	83,124	83,648
Government .....	14,980	15,078	15,003	15,130	15,210	15,304	15,463	15,415	15,422	15,267	15,237	15,154	15,305
Private industries .....	65,241	65,275	65,701	65,643	65,708	66,059	66,264	66,866	67,270	67,648	67,841	67,970	68,343
Private households .....	1,341	1,324	1,375	1,419	1,388	1,403	1,358	1,403	1,436	1,421	1,383	1,293	1,388
Other industries .....	63,900	63,951	64,326	64,224	64,320	64,656	64,906	65,463	65,834	66,227	66,458	66,677	66,955
Self-employed workers .....	5,946	6,017	6,005	5,899	6,140	6,084	6,080	6,082	6,182	6,259	6,268	6,427	6,467
Unpaid family workers .....	500	539	520	527	483	505	460	467	442	439	488	500	506
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	81,188	81,666	81,714	82,479	82,642	82,783	82,788	83,347	83,662	83,304	84,054	84,285	86,043
Full-time schedules .....	66,603	67,083	67,172	67,693	67,839	67,817	67,827	68,240	68,574	68,812	69,215	69,417	70,550
Part-time for economic reasons .....	3,192	3,268	3,390	3,464	3,253	3,306	3,263	3,285	3,220	2,986	3,193	3,164	3,327
Usually work full time .....	1,188	1,270	1,327	1,446	1,220	1,244	1,237	1,255	1,247	1,043	1,128	1,226	1,224
Usually work part time .....	2,004	1,998	2,063	2,018	2,033	2,062	2,026	2,030	1,973	1,943	2,065	1,938	2,103
Part time for noneconomic reasons .....	11,393	11,315	11,152	11,322	11,550	11,660	11,698	11,822	11,868	11,506	11,646	11,704	12,166

<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 20 to 39 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted				Seasonally adjusted				
	Apr. 1977	Mar. 1978	Apr. 1978	Apr. 1977	Dec. 1977	Jan. 1978	Feb. 1978	Mar. 1978	Apr. 1978
<b>VETERANS<sup>1</sup></b>									
<b>Total, 20 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	6,861	6,572	6,551	6,861	6,620	6,609	6,595	6,572	6,551
Civilian labor force	6,472	6,257	6,222	6,496	6,331	6,281	6,272	6,295	6,247
Employed	5,962	5,880	5,930	6,003	5,976	5,926	5,944	5,978	5,968
Unemployed	510	377	292	493	355	355	328	317	279
Unemployment rate	7.9	6.0	4.7	7.6	5.6	5.7	5.2	5.0	4.5
<b>20 to 24 years:</b>									
Civilian noninstitutional population <sup>2</sup>	1,077	813	800	1,077	844	838	829	813	800
Civilian labor force	929	713	711	949	748	751	736	725	723
Employed	794	606	640	802	660	654	644	629	646
Unemployed	135	107	71	147	88	97	92	96	77
Unemployment rate	14.5	15.0	10.0	15.5	11.8	12.9	12.5	13.2	10.7
<b>25 to 29 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,044	2,499	2,458	3,044	2,618	2,579	2,540	2,499	2,458
Civilian labor force	2,894	2,365	2,320	2,901	2,499	2,431	2,398	2,371	2,332
Employed	2,650	2,232	2,208	2,673	2,346	2,282	2,268	2,261	2,228
Unemployed	244	133	112	228	153	149	130	110	104
Unemployment rate	8.4	5.6	4.8	7.9	6.1	6.1	5.4	4.6	4.5
<b>30 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	2,740	3,260	3,293	2,740	3,158	3,192	3,226	3,260	3,293
Civilian labor force	2,649	3,179	3,191	2,646	3,084	3,099	3,138	3,199	3,192
Employed	2,518	3,042	3,082	2,528	2,970	2,990	3,032	3,088	3,094
Unemployed	131	137	109	118	114	109	106	111	98
Unemployment rate	4.9	4.3	3.4	4.5	3.7	3.5	3.4	3.5	3.1
<b>35 to 39 years:</b>									
Civilian noninstitutional population <sup>2</sup>	629	1,010	1,041	629	914	947	988	1,010	1,041
Civilian labor force	609	980	1,009	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	580	948	976	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	29	32	33	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	4.8	3.3	3.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>NONVETERANS</b>									
<b>Total, 20 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	17,347	18,234	18,308	17,347	18,218	18,100	18,162	18,234	18,308
Civilian labor force	15,417 <sup>c</sup>	16,297	16,383	15,662	16,479	16,417	16,527	16,566	16,655
Employed	14,264	15,030	15,328	14,485	15,347	15,248	15,412	15,430	15,569
Unemployed	1,153	1,267	1,055	1,177	1,132	1,169	1,115	1,136	1,086
Unemployment rate	7.5 <sup>c</sup>	7.8	6.4	7.5	6.9	7.1	6.7	6.9	6.5
<b>20 to 24 years:</b>									
Civilian noninstitutional population <sup>2</sup>	8,080	8,334	8,356	8,080	8,437	8,293	8,308	8,334	8,356
Civilian labor force	6,649	6,963	6,958	6,858	7,190	7,090	7,105	7,162	7,182
Employed	5,958	6,210	6,334	6,158	6,511	6,371	6,413	6,482	6,550
Unemployed	691	753	624	700	679	719	692	680	632
Unemployment rate	10.4	10.8	9.0	10.2	9.4	10.1	9.7	9.5	8.8
<b>25 to 29 years:</b>									
Civilian noninstitutional population <sup>2</sup>	5,298	5,910	5,962	5,298	5,781	5,811	5,860	5,910	5,962
Civilian labor force	4,961	5,528	5,613	4,985	5,471	5,518	5,600	5,582	5,642
Employed	4,677	5,176	5,303	4,670	5,188	5,222	5,322	5,260	5,298
Unemployed	284	352	310	315	283	296	278	322	344
Unemployment rate	5.7	6.4	5.5	6.3	5.2	5.4	5.0	5.8	6.1
<b>30 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,969	3,990	3,990	3,969	4,000	3,996	3,994	3,990	3,990
Civilian labor force	3,807	3,806	3,812	3,819	3,818	3,809	3,822	3,822	3,831
Employed	3,629	3,644	3,691	3,657	3,648	3,655	3,677	3,688	3,721
Unemployed	178	162	121	162	170	154	145	134	110
Unemployment rate	4.7	4.3	3.2	4.2	4.5	4.0	3.8	3.5	2.9
<b>35 to 39 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,426	3,546	3,566	3,426	3,491	3,510	3,529	3,546	3,566
Civilian labor force	3,266	3,388	3,409	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,161	3,259	3,303	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	105	129	106	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.2	3.8	3.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

<sup>1</sup> Vietnam-Era veterans are those who served between August 5, 1964, and May 7, 1975.

<sup>2</sup> Since seasonal variations are not present in the population figures, identical numbers

C = corrected.

appear in the unadjusted and seasonally adjusted columns.

N.A. = not available.

ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT

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

[In thousands]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract 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.....	27,088	12,813	1,133	1,021	10,659	14,275	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	12,745	1,239	848	10,658	14,605	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1925.....	28,778	12,474	1,089	1,446	9,939	16,304	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	12,896	1,185	1,555	10,156	16,923	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	12,723	1,114	1,608	10,001	17,253	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	12,603	1,050	1,606	9,947	17,397	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	13,286	1,087	1,497	10,702	18,053	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	11,943	1,009	1,372	9,562	17,481	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	10,257	873	1,214	8,170	16,392	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	8,632	731	970	6,931	14,996	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	8,950	744	809	7,397	14,761	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	10,246	883	862	8,501	15,707	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	10,878	897	912	9,069	16,175	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	11,918	946	1,145	9,827	17,164	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	12,921	1,015	1,112	10,794	18,105	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	11,386	891	1,055	9,440	17,823	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	12,282	854	1,150	10,278	18,336	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	13,204	925	1,294	10,985	19,173	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	15,939	957	1,790	13,192	20,614	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	18,442	992	2,170	15,280	21,683	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	20,094	925	1,567	17,602	22,359	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	19,314	892	1,094	17,328	22,569	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	17,492	836	1,132	15,524	22,902	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	17,226	862	1,661	14,703	24,448	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	18,482	955	1,982	15,545	25,399	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	18,745	994	2,169	15,582	26,146	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	17,536	930	2,165	14,441	26,242	4,001	9,264	2,487	6,778	1,857	5,264	5,856	1,908	3,948
1950.....	45,222	18,475	901	2,333	15,241	26,747	4,034	9,386	2,518	6,868	1,919	5,382	6,026	1,928	4,098
1951.....	47,849	19,925	929	2,603	16,393	27,924	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	20,164	898	2,634	16,632	28,660	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	21,038	866	2,623	17,549	29,195	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	19,717	791	2,612	16,314	29,306	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	20,476	792	2,802	16,882	30,199	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	21,064	822	2,999	17,243	31,344	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	20,925	828	2,923	17,174	31,969	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	19,474	751	2,778	15,945	31,890	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	20,367	732	2,960	16,675	32,945	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	20,393	712	2,885	16,796	33,840	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	19,814	672	2,816	16,326	34,229	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	20,405	650	2,902	16,853	35,190	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	20,593	635	2,963	16,995	36,108	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	20,958	634	3,050	17,274	37,373	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	21,880	632	3,186	18,062	38,936	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	23,116	627	3,275	19,214	40,839	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	23,268	613	3,208	19,447	42,589	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,951	23,693	606	3,306	19,781	44,258	4,311	14,099	3,611	10,488	3,381	10,622	11,845	2,737	9,109
1969.....	70,442	24,311	619	3,525	20,167	46,130	4,435	14,704	3,733	10,971	3,562	11,228	12,202	2,758	9,444
1970.....	70,920	23,507	623	3,536	19,349	47,412	4,504	15,040	3,816	11,225	3,687	11,621	12,561	2,731	9,830
1971.....	71,222	22,820	609	3,639	18,572	48,401	4,457	15,352	3,823	11,529	3,802	11,903	12,887	2,696	10,192
1972.....	73,714	23,546	625	3,831	19,090	50,167	4,517	15,975	3,943	12,032	3,943	12,392	13,340	2,684	10,656
1973.....	76,896	24,727	644	4,015	20,068	52,169	4,644	16,674	4,107	12,568	4,091	13,021	13,739	2,663	11,075
1974.....	78,413	24,697	694	3,957	20,046	53,715	4,696	17,017	4,223	12,794	4,208	13,617	14,177	2,724	11,453
1975.....	77,051	22,603	745	3,512	18,347	54,448	4,498	17,000	4,177	12,824	4,223	14,006	14,720	2,748	11,973
1976.....	79,443	23,332	783	3,594	18,956	56,111	4,509	17,694	4,263	13,431	4,316	14,644	14,948	2,733	12,215
1977.....	82,142	24,229	831	3,844	19,554	57,912	4,589	18,292	4,389	13,903	4,508	15,333	15,190	2,727	12,463
Apr.....	81,332	23,846	838	3,681	19,327	57,486	4,538	18,026	4,332	13,694	4,450	15,182	15,290	2,716	12,574
May.....	82,029	24,167	844	3,853	19,470	57,862	4,577	18,176	4,353	13,823	4,476	15,288	15,345	2,728	12,617
June.....	82,930	24,679	870	4,047	19,762	58,251	4,629	18,342	4,409	13,933	4,534	15,458	15,288	2,765	12,523
July.....	82,167	24,551	848	4,148	19,555	57,616	4,604	18,306	4,420	13,886	4,565	15,541	14,600	2,773	11,827
Aug.....	82,397	24,800	833	4,204	19,763	57,597	4,604	18,352	4,429	13,923	4,578	15,587	14,476	2,757	11,719
Sept.....	83,146	24,960	862	4,157	19,941	58,186	4,653	18,463	4,428	14,035	4,554	15,513	15,003	2,717	12,286
Oct.....	83,672	24,907	863	4,161	19,883	58,765	4,638	18,533	4,450	14,083	4,567	15,580	15,447	2,714	12,733
Nov.....	84,092	24,840	865	4,096	19,879	59,252	4,657	18,796	4,469	14,327	4,583	15,608	15,608	2,716	12,892
Dec.....	84,181	24,472	707	3,884	19,881	59,709	4,657	19,269	4,482	14,787	4,597	15,585	15,601	2,724	12,877
1978:															
Jan.....	82,554	23,972	695	3,528	19,749	58,582	4,582	18,532	4,455	14,077	4,588	15,411	15,469	2,711	12,758
Feb.....	82,852	23,992	697	3,505	19,790	58,860	4,591	18,343	4,465	13,878	4,605	15,602	15,719	2,720	12,999
Mar. P.....	83,716	24,349	713	3,712	19,924	59,367	4,632	18,512	4,494	14,018	4,639	15,755	15,829	2,725	13,104
Apr. P.....	84,852	24,986	884	4,053	20,049	59,866	4,662	18,746	4,511	14,235	4,682	15,953	15,823	2,732	13,091

p = preliminary.

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

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
-	<b>TOTAL</b> .....	80,547	81,332	82,852	83,716	84,852	-	-	-	-	-
	<b>PRIVATE SECTOR</b> .....	65,232	66,042	67,133	67,887	69,029	53,481	54,222	54,796	55,467	56,499
	<b>MINING</b> .....	827	838	697	713	884	623	632	504	518	667
	<b>METAL MINING</b> .....	96.2	96.9	94.1	94.9	-	74.2	74.8	72.4	73.9	-
101	Iron ores .....	25.7	25.5	23.5	24.7	-	20.7	20.5	18.5	20.1	-
102	Copper ores .....	36.3	36.5	36.2	36.0	-	27.9	28.1	28.3	28.0	-
11,12	<b>COAL MINING</b> .....	232.2	233.3	64.9	70.3	-	191.4	192.4	48.2	53.1	-
12	Bituminous coal and lignite mining .....	228.4	229.3	61.0	66.5	-	188.1	189.0	44.8	49.9	-
13	<b>OIL AND GAS EXTRACTION</b> .....	386.9	390.2	427.8	433.9	-	269.3	271.4	297.8	302.0	-
131,2	Crude petroleum and natural gas fields .....	168.7	170.1	180.9	182.0	-	84.3	84.5	88.7	89.5	-
138	Oil and gas field services .....	218.2	220.1	246.9	251.9	-	185.0	186.9	209.1	212.5	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	112.1	117.6	110.4	113.8	-	88.1	93.0	85.5	89.0	-
142	Crushed and broken stone .....	38.3	40.8	37.1	38.8	-	31.1	33.7	30.1	31.7	-
144	Sand and gravel .....	33.6	36.3	32.7	34.1	-	-	-	-	-	-
-	<b>CONTRACT CONSTRUCTION</b> .....	3,451	3,681	3,505	3,712	4,053	2,688	2,912	2,697	2,899	3,228
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,044.3	1,101.9	1,051.4	1,106.8	-	803.0	861.0	790.8	847.5	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	633.3	728.0	622.5	682.7	-	493.9	586.9	489.6	546.3	-
161	Highway and street construction .....	241.9	309.2	229.4	257.4	-	189.0	254.0	174.7	201.9	-
162	Heavy construction, nec .....	391.4	418.8	393.1	425.3	-	304.9	332.9	314.9	344.4	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	1,773.4	1,850.9	1,831.1	1,922.8	-	1,391.1	1,463.7	1,416.4	1,505.4	-
171	Plumbing, heating, air conditioning .....	426.9	436.5	450.0	457.8	-	318.4	328.2	334.9	343.0	-
172	Painting, paper hanging, decorating .....	126.3	138.1	135.0	142.6	-	105.5	114.6	109.0	116.2	-
173	Electrical work .....	315.0	319.4	323.0	326.3	-	244.4	248.4	248.6	251.5	-
174	Masonry, stonework, and plastering .....	199.6	214.8	201.6	231.2	-	171.9	186.7	169.1	198.0	-
176	Roofing and sheet metal work .....	125.1	132.0	130.1	145.8	-	98.9	105.7	101.4	116.7	-
	<b>MANUFACTURING</b> .....	19,183	19,327	19,790	19,924	20,049	13,763	13,893	14,228	14,339	14,426
19,24,25,32-39	<b>DURABLE GOODS</b> .....	11,246	11,348	11,746	11,829	11,942	8,025	8,118	8,427	8,495	8,578
20-23,26-31	<b>NONDURABLE GOODS</b> .....	7,937	7,979	8,044	8,095	8,107	5,738	5,775	5,801	5,844	5,848
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	155.4	155.5	156.8	156.9	157.6	69.4	70.8	72.6	73.0	73.1
192	Ammunition, except for small arms .....	100.4	99.9	99.8	99.6	99.7	34.9	35.5	36.6	36.6	36.4
1925	Complete guided missiles .....	82.8	82.0	80.9	80.7	-	22.1	22.5	22.9	23.0	-
1929	Ammunition, exc. for small arms, nec .....	17.6	17.9	18.9	18.9	-	12.8	13.0	13.7	13.6	-
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	614.0	626.1	641.8	649.2	660.4	520.0	532.0	545.1	552.3	562.9
241	Logging camps and logging contractors .....	68.8	69.3	70.4	70.1	(*)	-	-	-	-	-
242	Sawmills and planing mills .....	212.3	214.2	212.7	215.3	216.2	189.0	190.7	189.3	192.3	192.9
2421	Sawmills and planing mills, general .....	180.5	182.0	178.7	181.6	-	160.6	162.1	159.1	162.4	-
243	Millwork, plywood and related products .....	211.7	218.3	232.8	237.3	243.0	175.7	181.8	193.0	196.7	201.8
2431	Millwork .....	97.1	99.3	108.3	110.2	-	79.2	81.1	89.1	90.1	-
2432	Veneer and plywood .....	75.5	76.3	80.5	80.9	-	67.6	68.3	71.3	72.1	-
244	Wooden containers .....	21.2	21.7	20.5	20.2	20.6	18.6	19.1	17.9	17.6	18.1
2441,2	Wooden boxes, shooks, and crates .....	17.0	17.4	16.3	16.0	-	15.0	15.4	14.4	14.1	-
249	Miscellaneous wood products .....	100.0	102.6	105.4	106.3	107.1	81.7	84.4	88.6	89.6	90.3

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
<b>DURABLE GOODS—Continued</b>											
25	<b>FURNITURE AND FIXTURES</b> .....	498.4	501.0	531.9	535.1	535.5	409.2	411.7	438.3	441.7	441.9
251	Household furniture .....	360.7	363.6	386.4	388.5	387.6	305.1	307.6	327.2	329.3	328.3
2511	Wood household furniture .....	182.4	184.1	196.9	197.7	—	159.8	160.9	172.6	173.1	—
2512	Upholstered household furniture .....	104.9	105.3	112.9	113.1	—	86.1	86.7	93.2	93.6	—
2515	Mattresses and bedsprings .....	32.4	32.7	34.6	35.0	—	24.9	25.2	27.1	27.4	—
252	Office furniture .....	41.3	41.0	44.2	44.4	—	33.3	33.3	35.9	36.3	—
254	Partitions and fixtures .....	52.7	52.8	56.3	56.5	—	39.3	39.3	42.4	42.5	—
253,9	Other furniture and fixtures .....	43.7	43.6	45.0	45.7	46.5	31.5	31.5	32.8	33.6	34.3
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	625.9	643.6	649.2	661.5	682.6	495.1	512.2	512.4	523.2	542.8
321	Flat glass .....	15.6	15.8	16.8	16.9	—	12.4	12.7	13.6	13.6	—
322	Glass and glassware, pressed or blown .....	135.2	136.6	136.1	136.4	136.9	117.6	118.6	117.2	117.2	117.8
3221	Glass containers .....	78.4	78.8	78.3	78.6	—	70.2	70.1	69.3	69.4	—
3229	Pressed and blown glass, nec .....	56.8	57.8	57.8	57.8	—	47.4	48.5	47.9	47.8	—
324	Cement, hydraulic .....	28.9	29.5	30.0	30.1	30.1	22.7	23.3	23.6	23.7	23.8
325	Structural clay products .....	47.1	49.6	50.8	50.6	52.1	37.3	39.7	40.2	40.2	41.4
3251	Brick and structural clay tile .....	20.8	22.2	22.8	22.8	—	17.1	18.4	18.8	19.0	—
326	Pottery and related products .....	40.2	40.3	41.8	42.2	—	33.6	33.6	35.4	35.6	—
327	Concrete, gypsum, and plaster products .....	185.2	195.6	193.4	202.6	217.3	142.3	152.0	147.6	156.5	170.2
328,9	Other stone and nonmetallic mineral products .....	134.7	136.7	138.4	141.1	144.0	101.3	103.5	104.8	107.1	109.7
3291	Abrasive products .....	23.9	23.8	25.7	25.9	—	16.8	16.7	18.3	18.3	—
33	<b>PRIMARY METAL INDUSTRIES</b> .....	1,190.8	1,205.4	1,207.5	1,205.0	1,214.4	930.5	943.5	948.2	946.3	954.5
331	Blast furnace and basic steel products .....	539.9	549.9	533.4	528.1	(*)	420.3	429.1	417.5	413.4	(*)
3312	Blast furnaces and steel mills .....	467.4	477.1	462.2	456.0	—	365.5	373.9	363.4	358.3	—
332	Iron and steel foundries .....	216.6	217.1	225.1	225.0	(*)	176.5	177.6	185.0	184.9	(*)
3321	Gray iron foundries .....	140.1	141.5	144.9	144.9	—	116.0	117.7	121.0	121.0	—
3322	Malleable iron foundries .....	20.0	19.0	20.3	20.7	—	16.1	15.3	16.2	16.7	—
3323	Steel foundries .....	56.5	56.6	59.9	59.4	—	44.4	44.6	47.8	47.2	—
333,4	Nonferrous metals .....	85.2	85.1	87.5	87.8	(*)	64.6	64.3	67.0	67.4	(*)
3334	Primary aluminum .....	33.7	34.0	35.5	35.9	—	27.1	27.4	28.6	29.0	—
335	Nonferrous rolling and drawing .....	197.9	199.6	197.2	199.0	201.6	146.3	147.7	144.3	145.8	148.0
3351	Copper rolling and drawing .....	36.3	36.7	35.0	35.7	—	27.7	28.2	27.1	27.4	—
3352	Aluminum rolling and drawing .....	63.0	63.5	65.4	65.6	—	45.3	45.6	46.7	47.1	—
3357	Nonferrous wire drawing and insulating .....	78.8	79.5	77.2	77.7	—	59.4	59.9	57.2	57.6	—
336	Nonferrous foundries .....	81.4	81.5	87.8	87.9	88.0	67.6	67.6	73.3	73.2	73.3
3361	Aluminum castings .....	45.4	45.6	49.6	49.6	—	38.4	38.5	41.8	41.8	—
3362,9	Other nonferrous castings .....	36.0	35.9	38.2	38.3	—	29.2	29.1	31.5	31.4	—
339	Miscellaneous primary metal products .....	69.8	72.2	76.5	77.2	(*)	55.2	57.2	61.1	61.6	(*)
3391	Iron and steel forgings .....	43.9	46.0	48.6	48.6	—	34.9	36.7	39.0	38.9	—
34	<b>FABRICATED METAL PRODUCTS</b> .....	1,415.9	1,423.4	1,491.1	1,498.9	1,511.7	1,069.2	1,076.5	1,133.0	1,139.2	1,149.7
341	Metal cans .....	61.8	60.6	60.0	61.0	61.8	53.1	51.6	50.8	51.7	52.1
342	Cutlery, hand tools, and hardware .....	172.7	173.3	185.4	186.5	187.2	134.8	135.1	146.3	146.9	147.6
3421,3,5	Cutlery and hand tools, including saws .....	70.5	70.0	75.7	76.9	—	54.6	53.9	59.2	60.1	—
3429	Hardware, nec .....	102.2	103.3	109.7	109.6	—	80.2	81.2	87.1	86.8	—
343	Plumbing and heating, except electric .....	73.1	73.8	79.0	78.9	79.2	54.4	55.1	58.9	58.9	59.0
3431,2	Sanitary ware and plumbers' brass goods .....	32.9	33.3	35.3	35.5	—	25.5	25.8	27.4	27.5	—
3433	Heating equipment, except electric .....	40.2	40.5	43.7	43.4	—	28.9	29.3	31.5	31.4	—
344	Fabricated structural metal products .....	450.1	454.9	479.5	481.0	486.5	311.7	316.6	336.5	337.5	341.8
3441	Fabricated structural steel .....	94.5	94.1	96.1	96.7	—	66.5	66.1	68.3	68.9	—
3442	Metal doors, sash, and trim .....	71.5	74.5	81.0	79.9	—	52.5	55.5	60.8	59.7	—
3443	Fabricated plate work (boiler shops) .....	136.4	136.6	141.0	141.3	—	87.9	88.3	91.9	92.1	—
3444	Sheet metal work .....	89.9	91.5	98.8	99.5	—	65.4	66.9	72.2	72.5	—
3446,9	Architectural and miscellaneous metal work .....	57.8	58.2	62.6	63.6	—	39.4	39.8	43.3	44.3	—
345	Screw machine products, bolts, etc .....	103.9	104.2	111.1	111.7	111.6	81.1	82.2	87.3	88.2	88.3
3451	Screw machine products .....	49.8	50.3	55.3	55.5	—	41.0	41.3	45.5	46.2	—
3452	Bolts, nuts, rivets, and washers .....	54.1	53.9	55.8	56.2	—	40.1	40.9	41.8	42.0	—
346	Metal stampings .....	230.8	232.2	237.6	238.6	242.2	188.1	189.2	193.8	194.2	197.5
347	Metal services, nec .....	93.6	94.1	99.4	100.9	101.9	76.5	76.9	82.0	83.3	84.1
348	Miscellaneous fabricated wire products .....	60.2	60.4	62.0	62.4	62.7	46.5	46.8	48.7	48.9	49.4
349	Miscellaneous fabricated metal products .....	169.7	169.9	177.1	177.9	178.6	123.0	123.0	128.7	129.6	129.9
3494,8	Valves, pipe, and pipe fittings .....	111.7	111.4	116.9	117.5	—	77.0	76.5	80.9	81.7	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2, 148.1	2, 152.1	2, 285.6	2, 299.5	2, 316.3	1, 391.4	1, 392.6	1, 502.3	1, 513.6	1, 521.4
351	Engines and turbines	115.3	114.6	120.8	120.3	120.6	74.9	74.0	78.0	77.7	77.7
3511	Steam engines and turbines	42.7	42.5	42.4	42.1	—	22.6	22.3	22.0	21.9	—
3519	Internal combustion engines, nec.	72.6	72.1	78.4	78.2	—	52.3	51.7	56.0	55.8	—
352	Farm machinery	149.3	147.6	146.2	146.1	—	105.0	103.3	101.1	101.8	—
353	Construction and related machinery	338.3	340.3	368.1	371.7	(*)	218.3	219.4	244.7	246.9	(*)
3531,2	Construction and mining machinery	175.2	176.5	187.5	189.3	—	112.7	113.4	124.9	126.1	—
3533	Oil field machinery	69.7	70.1	77.7	78.8	—	48.9	49.2	54.7	55.4	—
3535,6	Conveyors, hoists, cranes, monorails	48.6	49.2	51.9	51.9	—	28.4	28.8	31.2	31.2	—
3537	Industrial trucks and tractors	32.8	32.8	38.2	38.8	—	21.8	21.7	26.6	26.9	—
354	Metal working machinery	323.7	325.1	345.1	348.4	350.0	238.0	239.1	256.6	258.9	259.4
3541	Machine tools, metal cutting types	62.3	61.7	66.9	67.6	—	40.8	40.1	44.8	45.2	—
3544	Special dies, tools, jigs, and fixtures	130.9	131.7	140.3	140.6	—	105.4	106.2	114.1	114.3	—
3545	Machine tool accessories	56.3	56.6	60.4	60.9	—	40.2	40.4	43.1	43.5	—
3542,8	Miscellaneous metal working machinery	74.2	75.1	77.5	79.3	—	51.6	52.4	54.6	55.9	—
355	Special industry machinery	177.3	176.3	182.5	182.8	183.6	112.9	112.1	116.9	116.8	117.4
3551	Food products machinery	41.8	41.6	43.0	43.2	—	27.1	26.6	27.5	27.6	—
3552	Textile machinery	30.2	30.2	30.3	30.4	—	21.7	21.7	21.9	22.1	—
3555	Printing trades machinery	26.0	26.2	28.3	28.2	—	15.3	15.4	17.1	17.0	—
356	General industrial machinery	294.3	295.1	307.1	309.2	309.7	193.5	192.5	204.2	205.3	206.6
3561	Pumps and compressors	84.4	84.1	86.9	87.8	—	51.0	50.5	53.2	53.2	—
3562	Ball and roller bearings	54.9	56.9	60.0	60.3	—	41.9	42.1	45.7	46.0	—
3564	Blowers and fans	35.4	34.8	36.3	36.4	—	22.7	22.4	23.3	23.5	—
3566	Power transmission equipment	47.3	47.3	48.6	48.7	—	33.2	33.1	34.8	34.9	—
357	Office and computing machines	310.8	312.9	347.2	348.8	(*)	124.4	127.6	148.5	150.1	(*)
3573	Electronic computing equipment	237.5	238.6	271.4	272.8	—	82.5	84.9	103.9	105.7	—
358	Service industry machines	172.0	173.1	183.7	184.8	185.9	119.8	120.7	131.1	131.9	132.9
3585	Refrigeration machinery	121.5	122.6	131.0	131.9	—	86.3	87.3	95.2	95.8	—
359	Miscellaneous machinery, except electrical	267.1	267.1	284.9	287.4	289.2	204.6	203.9	221.2	224.2	225.2
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	1, 886.6	1, 901.8	2, 004.7	2, 014.2	2, 028.0	1, 248.8	1, 263.4	1, 334.2	1, 341.7	1, 348.0
361	Electric test and distributing equipment	198.8	201.1	216.2	217.9	219.2	134.2	136.3	147.5	149.2	148.2
3611	Electric measuring instruments	74.3	74.6	84.1	85.3	—	45.2	45.5	51.2	52.4	—
3612	Transformers	48.5	50.3	52.7	52.9	—	35.0	36.8	38.9	38.9	—
3613	Switchgear and switchboard apparatus	76.0	76.2	79.4	79.7	—	54.0	54.0	57.4	57.9	—
362	Electrical industrial apparatus	220.6	222.0	230.9	230.9	232.7	157.5	159.0	164.7	165.2	167.5
3621	Motors and generators	107.7	107.8	113.7	113.1	—	80.5	81.1	86.4	86.1	—
3622	Industrial controls	70.1	70.7	72.7	73.0	—	46.3	46.6	46.6	47.1	—
363	Household appliances	169.8	176.1	181.5	184.8	189.0	132.8	139.0	142.9	146.0	149.7
3632	Household refrigerators and freezers	38.0	38.0	41.3	43.0	—	29.3	29.5	32.5	34.1	—
3633	Household laundry equipment	26.3	27.7	27.0	27.3	—	20.7	22.0	21.1	21.4	—
3634	Electric housewares and fans	51.5	52.3	51.8	52.5	—	41.0	41.6	41.3	42.1	—
364	Electric lighting and wiring equipment	204.3	205.8	213.9	215.8	216.8	156.3	157.7	163.6	165.0	166.1
3641	Electric lamps	37.2	37.6	38.0	37.8	—	33.0	33.5	33.7	33.4	—
3642	Lighting fixtures	66.3	66.3	68.9	69.0	—	51.2	50.9	53.5	53.2	—
3643,4	Wiring devices	100.8	101.9	107.0	109.0	—	72.1	73.3	76.4	78.4	—
365	Radio and TV receiving equipment	128.1	129.9	136.4	135.1	136.4	90.4	92.7	100.1	98.9	97.2
366	Communication equipment	429.9	430.3	457.7	458.5	459.5	214.1	214.3	230.3	230.3	229.7
3661	Telephone and telegraph apparatus	141.1	141.8	150.2	149.9	—	93.8	94.5	103.8	103.5	—
3662	Radio and TV communication equipment	288.8	288.5	307.5	308.6	—	120.3	119.8	126.5	126.8	—
367	Electronic components and accessories	383.9	384.6	403.0	405.7	406.8	245.7	246.2	257.9	259.7	260.4
3671,3	Electron tubes	42.0	42.2	43.5	43.6	—	26.9	26.9	28.6	28.8	—
3674,9	Other electronic components	341.9	342.4	359.5	362.1	—	218.8	219.3	229.3	230.9	—
369	Miscellaneous electrical equipment and supplies	151.2	152.0	165.1	165.5	167.6	117.8	118.2	127.2	127.4	129.2
3694	Engine electrical equipment	78.8	79.1	85.2	85.4	—	63.6	63.5	68.3	68.2	—
37	<b>TRANSPORTATION EQUIPMENT</b>	1, 775.4	1, 800.5	1, 826.3	1, 848.2	1, 871.1	1, 256.9	1, 277.9	1, 299.1	1, 314.5	1, 332.2
371	Motor vehicles and equipment	871.2	879.8	904.5	915.0	(*)	677.8	685.8	704.7	711.6	(*)
3711	Motor vehicles	356.1	364.1	372.2	377.7	—	265.0	273.2	276.4	280.5	—
3712	Passenger car bodies	47.1	47.6	40.8	46.4	—	36.2	36.7	31.2	34.7	—
3713	Truck and bus bodies	40.7	40.7	45.2	45.4	—	31.6	31.4	36.0	36.3	—
3714	Motor vehicle parts and accessories	402.6	402.1	417.9	416.8	—	325.8	324.6	338.9	337.7	—
3715	Truck trailers	24.7	25.3	28.4	28.7	—	19.2	19.9	22.2	22.4	—
372	Aircraft and parts	476.2	484.8	490.7	496.9	501.0	241.4	247.9	254.9	258.7	260.4
3721	Aircraft	260.2	260.4	255.8	259.9	—	122.7	122.9	120.4	122.3	—
3722	Aircraft engines and engine parts	125.3	133.2	138.6	140.1	—	64.1	69.9	75.7	77.2	—
3723,9	Other aircraft parts and equipment	90.7	91.2	96.3	96.9	—	54.6	55.1	58.8	59.2	—
373	Ship and boat building and repairing	227.3	227.6	226.7	227.1	(*)	180.3	180.0	179.5	180.1	(*)
3731	Ship building and repairing	175.5	175.4	177.7	177.0	—	137.4	136.8	139.6	139.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
3732	Boat building and repairing .....	51.8	52.2	49.0	50.1	—	42.9	43.2	39.9	41.0	—
374	Railroad equipment .....	45.9	45.9	41.7	42.3	—	33.9	33.8	30.0	30.4	—
375,9	Other transportation equipment .....	154.8	162.4	162.7	166.9	—	123.5	130.4	130.0	133.7	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> ..	521.8	522.2	538.9	542.3	543.4	319.2	319.3	329.3	331.0	330.5
381	Engineering and scientific instruments ..	58.5	58.9	62.1	62.4	—	27.5	27.6	29.7	29.9	—
382	Mechanical measuring and control devices ..	120.1	119.4	127.8	128.5	(*)	77.4	77.2	82.7	82.9	(*)
3821	Mechanical measuring devices .....	79.6	80.2	84.0	84.4	—	48.7	49.3	51.4	51.4	—
3822	Automatic temperature controls .....	40.5	39.2	43.8	44.1	—	28.7	27.9	31.3	31.5	—
383,5	Optical and ophthalmic goods .....	68.1	68.3	71.4	71.7	72.8	45.7	45.8	48.0	47.9	48.3
385	Ophthalmic goods .....	43.9	44.2	44.9	45.0	—	31.5	31.9	32.8	32.9	—
384	Medical instruments and supplies .....	114.3	115.0	120.7	121.9	123.6	77.9	78.3	80.7	81.6	82.4
386	Photographic equipment and supplies .....	130.5	130.1	128.3	129.0	(*)	66.9	66.6	66.2	66.5	(*)
387	Watches, clocks, and watchcases .....	30.3	30.5	28.6	28.8	—	23.8	23.8	22.0	22.2	—
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....											
39	Jewelry, silverware, and plated ware .....	413.5	416.5	411.7	418.0	421.0	315.1	317.9	312.2	318.2	321.1
391	Toys and sporting goods .....	54.2	54.7	56.0	57.1	57.3	39.5	39.7	40.9	42.1	41.8
394	Games, toys, dolls, and play vehicles .....	115.6	117.8	107.0	109.1	—	88.5	90.6	79.8	81.9	—
3941,3	Sporting and athletic goods, nec .....	58.4	59.4	52.3	54.6	—	42.7	43.6	37.1	39.2	—
3949	Pens, pencils, office, and art supplies .....	57.2	58.4	54.7	54.5	—	45.8	47.0	42.7	42.7	—
395	Costume jewelry and notions .....	33.4	33.5	33.4	33.6	—	23.8	24.0	24.1	24.3	—
396	Other manufacturing industries .....	50.9	50.7	51.6	52.5	—	41.0	40.7	41.6	42.5	—
393,9	Musical instruments and parts .....	159.4	159.8	163.7	165.7	165.4	122.3	122.9	125.8	127.4	127.3
393	.....	23.7	23.7	24.3	24.5	—	19.2	19.3	19.9	20.1	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	1,661.4	1,664.5	1,654.2	1,671.4	1,664.4	1,114.0	1,114.9	1,107.2	1,119.2	1,111.0
201	Meat products .....	353.8	355.0	362.8	363.0	362.3	290.1	291.6	298.9	299.2	298.2
2011	Meat packing plants .....	169.7	169.9	172.4	172.1	—	135.6	135.8	138.0	138.0	—
2013	Sausages and other prepared meats .....	66.9	67.3	67.5	67.6	—	47.7	48.4	49.5	49.5	—
2015	Poultry dressing plants .....	117.2	117.8	122.9	123.3	—	106.8	107.4	111.4	111.7	—
202	Dairy products .....	190.4	191.7	189.4	191.5	192.5	98.9	99.9	98.2	100.1	100.8
2024	Ice cream and frozen desserts .....	21.4	22.4	21.4	22.1	—	11.7	12.1	11.7	12.2	—
2026	Fluid milk .....	122.8	123.4	123.0	123.7	—	52.0	52.7	52.7	53.5	—
203	Canned, cured, and frozen foods .....	255.6	257.5	236.6	243.9	—	206.9	207.0	186.0	192.9	—
2031,6	Canned, cured, and frozen sea foods .....	43.0	43.8	39.2	40.1	—	37.8	37.9	33.9	34.6	—
2032,3	Canned food, except sea foods .....	107.7	107.9	103.2	106.3	—	82.1	82.0	75.4	78.3	—
2037	Frozen fruits and vegetables .....	65.0	65.7	56.0	59.5	—	56.7	56.7	48.2	51.6	—
204	Grain mill products .....	146.9	145.9	146.3	147.1	146.6	101.5	100.5	101.0	101.3	100.8
2041	Flour and other grain mill products .....	28.2	28.3	29.2	29.3	—	19.0	19.2	19.7	19.6	—
2042	Prepared feeds for animals and fowls .....	74.5	73.3	73.5	73.9	—	49.4	48.2	48.6	48.9	—
205	Bakery products .....	237.9	238.4	234.5	241.0	241.2	136.9	137.4	136.7	140.0	140.1
2051	Bread, cake, and related products .....	197.8	198.4	195.8	201.7	—	104.6	105.3	105.3	108.3	—
2052	Cookies and crackers .....	40.1	40.0	38.7	39.3	—	32.3	32.1	31.4	31.7	—
206	Sugar .....	27.7	26.1	28.5	27.2	—	20.3	19.0	20.4	19.4	—
207	Confectionery and related products .....	77.9	76.0	77.9	76.0	73.5	59.4	57.8	60.6	58.4	56.3
2071	Confectionery products .....	55.8	54.5	57.1	55.7	—	43.7	42.7	45.7	43.9	—
208	Beverages .....	224.3	227.5	229.2	232.2	(*)	105.1	107.5	107.8	109.4	(*)
2082	Malt liquors .....	48.7	50.1	47.8	48.8	—	34.4	35.7	33.0	34.0	—
2086	Bottled and canned soft drinks .....	131.2	132.8	136.4	138.8	—	46.2	47.6	48.5	49.5	—
209	Miscellaneous foods and kindred products ..	146.9	146.4	149.0	149.5	148.6	94.9	94.2	97.6	98.5	97.6
21	<b>TOBACCO MANUFACTURES</b> .....	63.9	66.8	67.6	65.3	61.9	51.3	53.2	53.8	51.6	48.2
211	Cigarettes .....	39.5	44.7	44.0	43.7	—	31.5	35.7	34.1	33.8	—
212	Cigars .....	9.8	9.4	9.4	9.5	—	8.5	8.1	8.2	8.3	—
22	<b>TEXTILE MILL PRODUCTS</b> .....	969.8	978.4	990.6	991.4	990.8	845.8	853.9	862.6	864.6	864.1
221	Weaving mills, cotton .....	173.0	172.8	168.2	167.7	166.2	156.5	156.4	151.3	151.0	149.9
222	Weaving mills, synthetics .....	120.6	121.0	118.8	118.1	117.7	108.2	108.5	106.4	105.9	105.4
223	Weaving and finishing mills, wool .....	23.4	23.5	22.4	22.9	22.9	19.7	19.7	18.8	19.2	19.3
224	Narrow fabric mills .....	25.8	26.1	27.6	27.5	27.8	22.5	22.8	24.3	24.3	24.3
225	Knitting mills .....	263.3	266.7	277.0	279.1	281.3	226.7	229.7	238.9	241.0	243.1
2251	Women's hosiery, except socks .....	38.2	37.9	39.8	40.0	—	33.9	33.5	35.5	35.7	—
2252	Hosiery, nec .....	35.1	35.5	37.9	38.0	—	31.3	31.6	34.4	34.5	—
2253	Knit outerwear mills .....	78.6	80.2	81.3	82.8	—	66.9	68.5	69.1	70.5	—
2254	Knit underwear mills .....	40.4	40.7	44.4	44.7	—	35.0	35.2	37.8	38.2	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. P 1978	Apr. P 1978	Mar. 1977	Apr. 1977	Feb. 1978	Mar. P 1978	Apr. P 1978
	<b>NONDURABLE GOODS—Continued</b>										
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
226	Textile finishing, except wool .....	79.9	81.6	81.4	81.4	80.6	67.7	69.3	68.9	69.1	68.3
227	Floor covering mills .....	62.9	63.4	65.2	65.0	—	49.7	50.5	51.7	51.4	—
228	Yarn and thread mills .....	154.1	156.0	162.2	162.2	161.2	141.0	142.8	147.9	148.1	147.4
229	Miscellaneous textile goods .....	66.8	67.3	67.8	67.5	67.2	53.8	54.2	54.4	54.6	54.2
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,286.9	1,286.2	1,279.5	1,293.9	1,293.2	1,104.9	1,103.4	1,098.4	1,111.3	1,111.9
231	Men's and boys' suits and coats .....	87.6	87.5	87.0	85.6	86.1	77.4	76.8	76.0	75.0	75.3
232	Men's and boys' furnishings .....	380.5	381.3	381.4	380.5	380.2	325.4	326.7	329.1	327.7	328.1
2321	Men's and boys' shirts and nightwear .....	114.3	114.0	108.6	108.8	—	99.1	98.9	93.7	94.1	—
2327	Men's and boys' separate trousers .....	86.6	86.4	85.8	84.7	—	75.4	75.7	75.3	73.7	—
2328	Men's and boys' work clothing .....	96.2	96.6	100.0	98.8	—	79.1	79.3	84.8	83.5	—
233	Women's and misses' outerwear .....	382.7	378.0	364.4	373.2	(*)	334.4	329.4	316.3	324.8	(*)
2331	Women's and misses' blouses and waists .....	48.6	48.6	47.6	48.3	—	42.6	42.6	41.6	42.2	—
2335	Women's and misses' dresses .....	170.8	170.0	155.1	161.6	—	152.1	151.1	137.5	143.8	—
2337	Women's and misses' suits and coats .....	50.4	47.7	47.0	48.0	—	41.9	39.0	39.1	40.1	—
2339	Women's and misses' outerwear, nec .....	112.9	111.7	114.7	115.3	—	97.8	96.7	98.1	98.7	—
234	Women's and children's undergarments .....	100.5	100.6	101.0	102.8	102.4	85.4	85.6	85.9	87.2	87.2
2341	Women's and children's underwear .....	76.6	76.9	77.8	78.7	—	66.3	66.7	67.2	67.8	—
2342	Corsets and allied garments .....	23.9	23.7	23.2	24.1	—	19.1	18.9	18.7	19.4	—
235	Hats, caps, and millinery .....	16.4	16.5	16.7	16.8	—	14.4	14.5	14.8	14.9	—
236	Children's outerwear .....	75.5	75.6	75.8	76.2	76.3	64.5	64.5	65.0	64.7	65.0
2361	Children's dresses and blouses .....	30.5	30.5	29.3	29.3	—	27.5	27.4	26.7	26.5	—
237,8	Fur goods and miscellaneous apparel .....	67.2	67.7	67.8	69.7	—	57.8	58.1	57.6	59.5	—
239	Miscellaneous fabricated textile products .....	176.5	179.0	185.4	189.1	190.9	145.6	147.8	153.7	157.5	159.0
2391,2	Housefurnishings .....	74.7	75.3	81.5	81.5	—	62.1	62.9	68.8	69.1	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	682.9	689.4	703.0	707.7	712.8	512.3	517.6	525.6	530.0	531.8
261,2,6	Paper and pulp mills .....	198.8	200.9	200.0	200.0	201.3	151.8	153.6	152.1	152.0	151.5
263	Paperboard mills .....	70.7	70.9	70.4	70.6	70.5	55.2	55.6	55.7	55.8	55.8
264	Miscellaneous converted paper products .....	203.2	205.6	212.4	215.6	(*)	143.2	144.8	147.4	151.1	(*)
2643	Bags, except textile bags .....	44.4	44.5	47.4	47.8	—	35.4	35.5	37.4	37.8	—
265	Paperboard containers and boxes .....	210.2	212.0	220.2	221.5	222.9	162.1	163.6	170.4	171.1	172.6
2651,2	Folding and setup paperboard boxes .....	58.6	59.3	58.9	59.0	—	46.9	47.6	47.1	47.0	—
2653	Corrugated and solid fiber boxes .....	103.0	103.5	108.0	108.8	—	75.5	75.8	79.6	80.2	—
2654	Sanitary food containers .....	31.1	31.7	35.2	35.6	—	25.5	26.1	29.4	29.6	—
27	<b>PRINTING AND PUBLISHING</b>	1,096.4	1,100.5	1,127.1	1,130.7	1,134.9	634.7	638.8	642.9	646.4	648.8
271	Newspapers .....	388.6	389.1	397.4	397.8	398.1	165.2	165.9	160.7	160.2	160.1
272	Periodicals .....	71.6	71.3	74.9	74.0	—	20.0	20.1	20.3	20.9	—
273	Books .....	90.9	91.3	91.4	93.1	—	48.7	49.1	48.5	50.1	—
275	Commercial printing .....	362.2	364.7	371.2	371.5	374.2	271.2	273.5	277.3	277.5	279.1
2751	Commercial printing, except lithographic .....	205.0	204.8	207.3	206.6	—	155.9	155.4	156.7	156.0	—
2752	Commercial printing, lithographic .....	146.3	149.1	152.5	153.5	—	106.6	109.6	111.4	112.2	—
278	Blankbooks and bookbinding .....	50.7	51.0	52.9	53.6	53.6	41.2	41.5	43.3	43.9	44.1
274,6,7,9	Other publishing and printing ind .....	132.4	123.1	139.3	140.7	141.1	88.4	88.7	92.8	93.8	93.9
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,047.5	1,053.2	1,061.9	1,066.4	1,070.8	600.5	605.7	611.4	615.4	616.9
281	Industrial chemicals .....	341.1	342.5	348.8	348.4	348.6	183.0	184.6	190.4	190.5	190.7
2812	Alkalies and chlorine .....	20.6	20.6	21.0	20.8	—	15.3	15.1	15.2	15.0	—
2818	Industrial organic chemicals, nec .....	140.3	140.9	142.4	142.4	—	64.2	64.9	68.9	69.5	—
2819	Industrial inorganic chemicals, nec .....	113.1	113.7	117.8	117.7	—	61.3	62.0	63.9	63.9	—
282	Plastics materials and synthetics .....	203.4	205.3	202.3	201.9	201.4	136.5	138.4	137.7	136.2	135.4
2821	Plastics materials and resins .....	88.7	89.1	89.4	89.6	—	55.7	56.0	55.8	56.0	—
2823,4	Synthetic fibers .....	101.4	102.6	99.0	98.4	—	70.7	72.0	71.5	69.8	—
283	Drugs .....	172.9	173.6	176.2	176.5	176.6	87.4	87.9	86.2	86.3	86.1
2834	Pharmaceutical preparations .....	138.5	138.6	140.9	141.2	—	68.0	67.9	66.6	66.7	—
284	Soap, cleaners, and toilet goods .....	122.7	122.2	125.9	128.3	(*)	72.9	72.2	76.1	78.9	(*)
2841	Soap and other detergents .....	39.9	39.9	40.3	41.1	—	26.1	26.0	26.5	27.4	—
2844	Toilet preparations .....	49.2	48.6	51.1	52.5	—	29.3	28.6	31.1	32.7	—
285	Paints and allied products .....	69.0	69.4	70.3	70.7	71.3	36.3	36.7	36.7	37.0	36.5
287	Agricultural chemicals .....	59.8	60.8	58.2	60.0	62.6	38.3	39.0	36.6	38.2	40.6
2871,2	Fertilizers, complete and mixing only .....	36.2	37.1	34.7	36.3	—	25.5	26.1	23.2	24.7	—
286,9	Other chemical products .....	78.6	79.4	80.2	80.6	81.4	46.1	46.9	47.7	48.3	48.7
2892	Explosives .....	13.5	13.8	13.5	13.5	—	8.7	9.1	9.2	9.3	—
29	<b>PETROLEUM AND COAL PRODUCTS</b>	202.0	206.4	210.1	211.5	213.1	129.8	134.5	137.6	138.6	139.6
291	Petroleum refining .....	156.5	158.5	161.7	162.0	161.5	96.7	99.1	102.2	102.4	101.6
295,9	Other petroleum and coal products .....	45.5	47.9	48.4	49.5	51.6	33.1	35.4	35.4	36.2	38.0

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
<b>NONDURABLE GOODS—Continued</b>											
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC...</b>	661.4	667.7	690.0	694.4	700.4	518.2	524.5	539.5	543.6	549.8
301	Tires and inner tubes .....	121.8	122.3	119.2	118.3	118.4	90.3	90.9	86.8	85.9	86.0
302,3,6	Other rubber products .....	171.1	172.3	172.7	172.4	172.8	134.3	135.4	135.5	135.4	136.0
302	Rubber footwear .....	20.9	21.1	19.6	19.6	—	18.0	18.3	17.0	17.0	—
307	Miscellaneous plastics products .....	368.5	373.1	398.1	403.7	409.2	293.6	298.2	317.2	322.3	327.8
31	<b>LEATHER AND LEATHER PRODUCTS .....</b>	264.8	266.3	260.4	262.3	264.3	226.9	228.1	221.7	223.6	225.8
311	Leather tanning and finishing .....	23.5	23.5	23.1	23.1	23.3	20.1	20.1	19.7	19.7	19.9
314	Footwear, except rubber .....	163.1	165.4	162.3	162.8	164.7	142.0	144.2	141.6	142.2	144.1
312,3,5-7,9	Other leather products .....	78.2	77.4	75.0	76.4	76.3	64.8	63.8	60.4	61.7	61.8
316	Luggage .....	18.3	18.5	17.1	17.6	—	14.7	14.8	13.0	13.6	—
317	Handbags and personal leather goods .....	36.1	34.4	33.2	34.1	—	30.1	28.2	27.0	28.0	—
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>											
.....											
		4,522	4,538	4,591	4,632	4,662	3,851	3,862	3,867	3,902	3,927
40	<b>RAILROAD TRANSPORTATION .....</b>	523.4	531.0	503.3	505.1	—	—	—	—	—	—
4011	Class I railroads <sup>2</sup> .....	486.7	493.7	460.9	462.6	—	—	—	—	—	—
<b>LOCAL AND INTERURBAN PASSENGER</b>											
.....											
41	<b>TRANSIT .....</b>	274.3	266.7	265.3	265.2	—	—	—	—	—	—
411	Local and suburban transportation .....	70.3	68.5	71.5	71.7	—	65.7	63.7	65.6	65.8	—
412	Taxicabs .....	75.7	74.2	70.0	69.6	—	—	—	—	—	—
413	Intercity highway transportation .....	37.3	38.4	35.3	35.6	—	33.7	34.8	32.0	32.4	—
42	<b>TRUCKING AND WAREHOUSING .....</b>	1,101.9	1,108.0	1,126.6	1,150.9	—	975.6	980.0	994.1	1,016.4	—
421,3	Trucking and trucking terminals .....	1,009.3	1,017.0	1,032.2	1,055.8	—	896.0	902.4	912.9	935.0	—
422	Public warehousing .....	92.6	91.0	94.4	95.1	—	79.6	77.6	81.2	81.4	—
45	<b>TRANSPORTATION BY AIR .....</b>	372.9	375.6	385.8	387.5	—	—	—	—	—	—
451,2	Air transportation .....	337.3	339.9	348.1	349.7	—	—	—	—	—	—
46	<b>PIPELINE TRANSPORTATION .....</b>	16.5	16.4	15.9	15.8	—	12.1	12.0	11.6	11.5	—
44,47	<b>OTHER TRANSPORTATION AND SERVICES .....</b>	344.4	346.5	355.7	363.3	—	—	—	—	—	—
44	<b>WATER TRANSPORTATION .....</b>	191.6	192.5	191.3	197.4	—	—	—	—	—	—
47	<b>TRANSPORTATION SERVICES .....</b>	152.8	154.0	164.4	165.9	—	—	—	—	—	—
48	<b>COMMUNICATION .....</b>	1,153.1	1,156.5	1,185.8	1,188.4	—	883.3	885.2	898.8	900.8	—
481	Telephone communication .....	939.8	942.5	964.7	966.2	—	710.3	711.9	720.7	721.3	—
482	Telegraph communication <sup>3</sup> .....	17.6	17.9	(*)	(*)	—	14.4	14.9	(*)	(*)	—
483	Radio and television broadcasting .....	160.3	160.5	164.9	165.9	—	127.9	127.6	130.5	131.0	—
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES .....</b>	735.0	737.5	752.3	755.6	—	607.3	608.9	616.6	618.7	—
491	Electric companies and systems .....	315.5	316.1	325.9	327.3	—	258.7	259.0	265.3	266.2	—
492	Gas companies and systems .....	155.7	155.8	157.6	158.0	—	127.9	128.0	129.1	129.7	—
493	Combination companies and systems .....	194.2	194.4	196.0	196.5	—	160.9	160.8	160.1	160.0	—
494-7	Water, steam, and sanitary systems .....	69.6	71.2	72.8	73.8	—	59.8	61.1	62.1	62.8	—
—	<b>WHOLESALE AND RETAIL TRADE .....</b>	17,799	18,026	18,343	18,512	18,746	15,694	15,900	16,113	16,258	16,480
50	<b>WHOLESALE TRADE .....</b>	4,310	4,332	4,465	4,494	4,511	3,562	3,578	3,669	3,693	3,708
501	Motor vehicles and automotive equipment .....	384.9	389.5	400.4	403.9	—	315.3	318.4	326.4	330.1	—
502	Drugs, chemicals, and allied products .....	243.4	243.6	250.1	252.0	—	192.3	193.1	198.8	200.7	—
503	Dry goods and apparel .....	159.6	159.3	157.4	159.0	—	122.7	122.6	121.3	123.0	—
504	Groceries and related products .....	610.2	613.5	627.1	628.3	—	528.9	528.6	542.9	543.9	—
506	Electrical goods .....	322.3	323.1	341.5	344.9	—	273.9	274.6	280.6	283.5	—
507	Hardware, plumbing and heating equipment .....	188.7	191.9	199.1	200.5	—	156.5	159.1	164.8	165.7	—
508	Machinery, equipment, and supplies .....	911.6	918.7	957.7	964.8	—	753.5	759.0	786.6	793.1	—
509	Miscellaneous wholesalers .....	1,376.7	1,382.2	1,414.5	1,423.6	—	1,127.2	1,132.5	1,151.8	1,157.3	—
52-59	<b>RETAIL TRADE .....</b>	13,489	13,694	13,878	14,018	14,235	12,132	12,322	12,444	12,565	12,772
53	<b>Retail General Merchandise .....</b>	2,424.1	2,449.5	2,505.6	2,512.1	—	2,226.1	2,252.0	2,312.7	2,316.0	—
531	Department stores .....	1,655.1	1,672.9	1,738.1	1,737.0	—	1,532.1	1,550.9	1,621.0	1,617.6	—
532	Mail order houses .....	106.9	105.8	107.2	109.2	—	101.2	100.3	102.2	104.1	—
533	Variety stores .....	298.1	302.5	291.7	291.7	—	277.5	281.4	271.5	271.4	—
54	<b>FOOD STORES .....</b>	2,099.6	2,087.8	2,157.6	2,172.0	—	1,940.8	1,928.5	1,992.0	2,004.7	—
541-3	Grocery, meat, and vegetable stores .....	1,909.6	1,894.2	1,964.4	1,974.9	—	1,765.2	1,749.2	1,815.2	1,824.6	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. p 1978	Apr. p 1978	Mar. 1977	Apr. 1977	Feb. 1978	Mar. p 1978	Apr. p 1978
	<b>WHOLESALE AND RETAIL TRADE—Continued</b>										
56	<b>APPAREL AND ACCESSORY STORES</b>	798.7	808.8	799.2	807.2	—	690.5	699.3	687.0	695.6	—
561	Men's and boys' clothing and furnishings	139.0	139.6	140.9	141.1	—	119.9	120.6	120.6	120.7	—
562	Women's ready-to-wear stores	292.9	292.4	286.3	289.4	—	255.2	253.8	249.1	251.2	—
565	Family clothing stores	124.7	125.1	123.7	124.4	—	111.5	111.6	107.6	109.8	—
566	Shoe stores	167.5	176.6	173.3	175.9	—	139.0	148.0	143.6	146.0	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b>	541.1	540.5	559.3	558.6	—	455.0	453.9	469.3	468.7	—
571	Furniture and home furnishings	323.1	323.1	333.6	334.1	—	274.1	273.3	281.9	282.6	—
58	<b>EATING AND DRINKING PLACES</b>	3,692.0	3,828.0	3,835.1	3,923.7	—	3,446.0	3,573.6	3,544.3	3,621.8	—
52,55,59	<b>OTHER RETAIL TRADE</b>	3,933.4	3,979.7	4,021.3	4,044.6	—	3,373.4	3,414.9	3,439.0	3,458.2	—
52	Building materials and farm equipment	625.2	639.7	646.1	654.8	—	531.3	544.4	546.6	554.8	—
55	Automotive dealers and service stations	1,753.5	1,765.4	1,772.5	1,785.5	—	—	—	—	—	—
551,2	Motor vehicle dealers	802.1	805.5	820.4	824.7	—	668.2	670.6	681.2	684.8	—
553,9	Other automotive and accessory dealers	327.1	339.2	336.0	340.7	—	275.9	286.0	281.8	285.6	—
554	Gasoline service stations	624.3	620.7	616.1	620.1	—	—	—	—	—	—
59	Miscellaneous retail stores	1,554.7	1,574.6	1,602.7	1,604.3	—	—	—	—	—	—
591	Drug stores and proprietary stores	476.0	476.0	491.5	493.3	—	422.5	422.7	434.9	437.5	—
594	Book and stationery stores	82.4	82.8	81.3	81.5	—	69.8	70.2	68.8	69.0	—
596	Farm and garden supply stores	145.6	151.4	141.0	147.2	—	—	—	—	—	—
598	Fuel and ice dealers	102.8	98.6	107.3	105.5	—	87.2	83.3	92.3	90.4	—
—	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>4</sup></b>	4,422	4,450	4,605	4,639	4,682	3,362	3,385	3,493	3,520	3,559
60	Banking	1,321.9	1,323.1	1,371.4	1,377.4	—	1,031.6	1,032.1	1,062.6	1,067.2	—
61	Credit agencies other than banks	486.0	488.7	523.4	528.3	—	374.4	376.6	402.7	406.2	—
612	Savings and loan associations	199.7	200.7	199.0	221.1	—	159.3	160.2	173.3	175.0	—
614	Personal credit institutions	200.8	202.1	211.3	213.6	—	—	—	—	—	—
62	Security, commodity brokers and services	180.7	182.4	179.8	179.4	—	147.4	148.8	147.1	146.8	—
63	Insurance carriers	1,133.6	1,138.1	1,170.2	1,174.8	—	768.6	771.7	792.2	795.0	—
631	Life insurance	517.0	517.9	519.3	520.0	—	294.5	294.2	294.5	294.4	—
632	Accident and health insurance	123.7	123.8	125.0	125.1	—	101.5	101.6	101.2	101.1	—
633	Fire, marine, and casualty insurance	427.8	430.1	455.3	458.4	—	318.8	321.1	338.9	341.3	—
64	Insurance agents, brokers, and service	357.4	358.7	380.9	383.8	—	—	—	—	—	—
65	Real estate	828.0	844.7	860.3	875.6	—	—	—	—	—	—
655	Subdividers and developers	109.8	116.8	108.8	111.5	—	—	—	—	—	—
656	Operative builders	61.3	63.3	63.9	66.9	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate	114.6	114.5	118.6	119.5	—	—	—	—	—	—
	<b>SERVICES</b>	15,028	15,182	15,602	15,755	15,953	13,500	13,638	13,894	14,031	14,212
70	Hotels and other lodging places	1,031.6	1,050.8	1,002.2	1,023.4	—	—	—	—	—	—
701	Hotels, tourist courts, and motels	828.9	848.7	832.5	854.5	—	766.1	784.3	764.7	785.2	—
72	Personal services	801.6	805.4	790.9	794.7	—	—	—	—	—	—
721	Laundries and dry cleaning plants	345.6	347.4	341.1	342.2	—	308.6	310.6	305.2	305.7	—
722	Photographic studios	39.1	38.9	39.1	39.1	—	35.0	34.7	35.1	35.2	—
73	Miscellaneous business services	2,193.7	2,206.0	2,318.3	2,339.2	—	—	—	—	—	—
731	Advertising	131.5	132.8	139.2	140.5	—	—	—	—	—	—
732	Credit reporting and collection	85.4	86.1	89.6	90.7	—	—	—	—	—	—
734	Services to buildings	421.9	423.8	438.1	444.2	—	—	—	—	—	—
76	Miscellaneous repair services	226.8	226.8	233.4	236.2	—	—	—	—	—	—
78	Motion pictures	197.7	198.0	189.6	196.9	—	—	—	—	—	—
781	Motion picture filming and distributing	65.3	59.1	66.1	66.2	—	51.6	48.3	55.1	55.6	—
782,3	Motion picture theaters and services	132.4	138.9	123.5	130.7	—	—	—	—	—	—
80	Medical and other health services	4,624.3	4,648.3	4,910.7	4,934.6	—	—	—	—	—	—
806	Hospitals	2,460.7	2,466.0	2,565.5	2,577.9	—	2,246.3	2,244.8	2,275.4	2,282.5	—
81	Legal services	389.6	391.4	423.7	426.1	—	—	—	—	—	—
82	Educational services	1,371.6	1,364.0	1,421.9	1,434.6	—	—	—	—	—	—
821	Elementary and secondary schools	443.5	443.0	465.2	466.3	—	—	—	—	—	—
822	Colleges and universities	738.5	731.0	746.8	752.7	—	—	—	—	—	—
89	Miscellaneous services	954.6	952.9	1,033.9	1,043.8	—	—	—	—	—	—
891	Engineering and architectural services	432.0	433.2	459.8	464.8	—	—	—	—	—	—
892	Nonprofit research agencies	160.8	160.6	171.3	174.0	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
—	<b>GOVERNMENT</b> .....	15,315	15,290	15,719	15,829	15,823	—	—	—	—	—
91	<b>FEDERAL GOVERNMENT</b> <sup>5</sup> .....	2,714	2,716	2,720	2,725	2,732	—	—	—	—	—
	Executive .....	2,662.8	2,664.0	2,668.2	2,672.9	—	—	—	—	—	—
	Department of Defense .....	918.4	917.4	906.0	905.6	—	—	—	—	—	—
	Postal Service .....	652.3	650.7	646.9	647.6	—	—	—	—	—	—
	Other agencies .....	1,092.1	1,095.9	1,115.3	1,119.7	—	—	—	—	—	—
	Legislative .....	39.0	39.4	38.8	39.5	—	—	—	—	—	—
	Judicial .....	12.1	12.3	12.7	12.7	—	—	—	—	—	—
92,93	<b>STATE AND LOCAL GOVERNMENT</b> .....	12,601	12,574	12,999	13,104	13,091	—	—	—	—	—
92	State government .....	3,382.7	3,385.9	3,428.0	3,442.4	—	—	—	—	—	—
	State education .....	1,474.6	1,473.6	1,454.4	1,453.7	—	—	—	—	—	—
	Other State government .....	1,908.1	1,912.3	1,973.6	1,988.7	—	—	—	—	—	—
93	Local government .....	9,218.4	9,187.8	9,570.5	9,661.6	—	—	—	—	—	—
	Local education .....	5,322.4	5,300.6	5,466.7	5,520.6	—	—	—	—	—	—
	Other local government .....	3,896.0	3,887.2	4,103.8	4,141.0	—	—	—	—	—	—

<sup>1</sup> Data relate to production and related workers in mining and manufacturing; to construction workers in contract 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 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

<sup>3</sup> Data for nonsupervisory workers exclude messengers.

<sup>4</sup> Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

<sup>5</sup> Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

\* Not available.

<sup>p</sup>=preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<b>TOTAL</b> .....	31,970	40	33,758	40	33,710	41
	<b>PRIVATE SECTOR</b> .....	25,092	39	26,574	39	26,477	39
	<b>MINING</b> .....	61	8	68	8	66	9
10	<b>METAL MINING</b> .....	5.3	6	5.6	7	6.0	6
11,12	<b>COAL MINING</b> .....	5.0	2	6.1	3	2.9	4
13	<b>OIL AND GAS EXTRACTION</b> .....	43.3	11	48.1	12	49.9	12
131,2	Crude petroleum and natural gas fields .....	27.8	17	31.7	18	32.8	18
138	Oil and gas field services .....	15.5	7	16.4	7	17.1	7
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	6.9	7	7.8	6	7.6	7
142	Crushed and broken stone .....	2.1	6	2.5	6	2.4	6
144	Sand and gravel .....	2.1	7	2.5	6	2.3	7
	<b>CONTRACT CONSTRUCTION</b> .....	255	8	278	7	280	8
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	81.6	8	88.0	7	89.4	8
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	42.6	8	48.6	6	44.8	7
161	Highway and street construction .....	15.1	7	19.8	5	17.1	8
162	Heavy construction, nec .....	27.5	8	28.8	6	27.7	7
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	130.9	8	141.8	7	145.5	8
171	Plumbing, heating, air conditioning .....	37.2	9	40.1	8	41.2	9
172	Painting, paper hanging, decorating .....	9.3	8	10.4	7	11.2	8
173	Electrical work .....	21.8	7	23.7	7	24.7	7
174	Masonry, stonework, and plastering .....	10.7	6	11.5	5	12.4	6
176	Roofing and sheet metal work .....	9.4	9	10.6	7	10.6	8
	<b>MANUFACTURING</b> .....	5,571	29	5,977	30	5,880	30
19,24,25,32-39	<b>DURABLE GOODS</b> .....	2,495	22	2,693	23	2,704	23
20-23,26-31	<b>NONDURABLE GOODS</b> .....	3,076	39	3,284	40	3,176	40
	<b>DURABLE GOODS</b>						
19	<b>ORDNANCE AND ACCESSORIES</b> .....	35.7	23	33.8	23	34.9	22
192	Ammunition, except for small arms .....	23.8	23	21.6	23	22.6	23
1925	Complete guided missiles .....	17.7	21	15.4	20	16.2	20
1929	Ammunition, except for small arms, nec .....	6.1	24	6.2	34	6.4	34
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	78.9	13	87.9	13	87.9	14
241	Logging camps, and logging contractors .....	3.7	5	3.7	5	3.7	5
242	Sawmills and planing mills .....	17.2	8	18.6	8	18.3	9
2421	Sawmills and planing mills, general .....	12.6	7	13.4	7	13.2	7
243	Millwork, plywood and related products .....	30.1	15	36.1	15	36.5	16
2431	Millwork .....	16.6	18	20.5	19	20.7	19
2432	Veneer and plywood .....	10.1	13	10.9	14	11.2	14
244	Wooden containers .....	4.2	21	4.5	21	4.4	21
2441,2	Wooden boxes, shooks, and crates .....	3.3	20	3.6	21	3.5	21
249	Miscellaneous wood products .....	23.7	24	25.0	24	25.0	24
25	<b>FURNITURE AND FIXTURES</b> .....	139.2	28	150.9	29	153.0	29
251	Household furniture .....	110.8	31	120.8	32	121.9	32
2511	Wood household furniture .....	53.6	29	60.6	31	60.0	31
2512	Upholstered household furniture .....	36.2	35	38.7	35	39.4	35
2515	Mattresses and bedsprings .....	8.9	28	9.5	28	9.5	28
252	Office furniture .....	7.8	19	8.9	21	9.3	21
254	Partitions and fixtures .....	8.2	16	8.9	16	9.0	16
253,9	Other furniture and fixtures .....	12.4	28	12.3	27	12.8	28
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	112.9	19	119.5	18	119.8	18
321	Flat glass .....	1.3	8	1.6	10	1.5	9
322	Glass and glassware, pressed or blown .....	45.1	34	46.6	35	46.4	34
3221	Glass containers .....	27.9	36	27.9	36	28.1	36
3229	Pressed and blown glass nec .....	17.2	32	18.7	32	18.3	32
324	Cement, hydraulic .....	1.3	5	1.4	5	1.5	5
325	Structural clay products .....	6.0	13	6.3	12	6.5	13
3251	Brick and structural clay tile .....	1.2	6	1.4	6	1.4	6
326	Pottery and related products .....	13.7	34	14.2	34	14.0	34
327	Concrete, gypsum, and plaster products .....	12.2	7	13.9	7	13.9	7
328,9	Other stone and nonmetallic mineral products .....	22.8	17	25.0	18	25.5	18
3291	Abrasives products .....	5.4	22	5.7	23	5.8	23

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>DURABLE GOODS—Continued</b>							
33	<b>PRIMARY METAL INDUSTRIES</b>	102.2	9	110.7	9	112.0	9
331	Blast furnace and basic steel products	29.1	5	33.1	6	33.0	6
3312	Blast furnaces and steel mills	22.9	5	26.6	6	26.5	6
332	Iron and steel foundries	13.3	6	15.7	7	16.0	7
3321	Gray iron foundries	6.9	5	8.4	6	8.5	6
3322	Malleable iron foundries	1.4	7	1.4	6	1.3	7
3323	Steel foundries	5.0	9	5.9	10	6.2	10
333,4	Nonferrous metals	4.8	6	5.3	6	5.3	6
3334	Primary aluminum	1.4	4	1.5	4	1.5	4
335	Nonferrous rolling and drawing	36.5	19	36.1	18	37.2	19
3351	Copper rolling and drawing	3.2	9	3.3	10	3.4	10
3352	Aluminum rolling and drawing	7.1	11	8.3	13	8.7	13
3357	Nonferrous wire drawing and insulating	22.3	29	21.4	27	22.3	28
336	Nonferrous foundries	12.3	15	13.6	16	13.5	15
3361	Aluminum castings	5.8	13	6.7	14	6.6	13
3362,9	Other nonferrous castings	6.5	18	6.9	18	6.9	18
339	Miscellaneous primary metal products	6.2	9	6.9	9	7.0	9
3391	Iron and steel forgings	3.2	7	3.3	7	3.4	7
34	<b>FABRICATED METAL PRODUCTS</b>	280.1	20	303.2	20	302.6	20
341	Metal cans	10.2	17	10.5	17	9.9	17
342	Cutlery, hand tools, and hardware	58.1	34	62.1	34	61.9	34
3421,3,5	Cutlery and hand tools, including saws	21.6	30	23.0	32	23.1	31
3429	Hardware, nec	36.5	36	39.1	36	38.8	35
343	Plumbing and heating, except electric	13.8	19	16.3	21	16.8	22
3431,2	Sanitary ware and plumbers' brass goods	6.7	21	7.7	23	7.8	23
3433	Heating equipment, except electric	7.1	18	8.6	20	9.0	21
344	Fabricated structural metal products	60.5	13	67.5	14	67.4	14
3441	Fabricated structural steel	6.6	7	6.8	7	6.8	7
3442	Metal doors, sash, and trim	21.2	30	25.0	29	23.6	29
3443	Fabricated plate work (boiler shops)	13.2	10	13.9	10	14.3	10
3444	Sheet metal work	12.8	14	13.7	14	14.4	15
3446,9	Architectural and miscellaneous metal work	6.7	12	8.1	13	8.3	13
345	Screw machine products, bolts, etc.	21.7	21	23.2	22	23.6	22
3451	Screw machine products	11.7	24	12.6	24	13.0	24
3452	Bolts, nuts, rivets, and washers	10.0	19	10.6	19	10.6	19
346	Metal stampings	47.9	21	50.3	21	49.1	20
347	Metal services, nec	19.9	22	22.0	23	22.2	23
348	Misc. fabricated wire products	14.9	25	15.9	26	16.0	26
349	Misc. fabricated metal products	33.1	20	35.4	20	35.7	20
3494,8	Valves, pipe, and pipe fittings	21.0	19	22.3	19	22.8	19
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	359.9	17	390.5	18	404.6	18
351	Engines and turbines	18.1	16	18.8	16	19.8	16
3511	Steam engines and turbines	5.4	12	5.5	13	5.6	13
3519	Internal combustion engines, nec	12.7	18	13.3	18	14.2	18
352	Farm machinery	18.4	12	18.5	13	19.4	14
353	Construction and related machinery	35.1	10	36.1	10	36.9	10
3531,2	Construction and mining machinery	16.1	9	15.4	8	15.5	8
3533	Oil field machinery	7.8	11	8.4	11	8.7	11
3535,6	Conveyors, hoists, cranes, monorails	5.5	11	5.7	11	5.8	11
3537	Industrial trucks and tractors	3.5	11	4.5	13	4.7	12
354	Metal working machinery	44.8	14	48.6	15	49.9	15
3541	Machine tools, metal cutting types	6.6	11	7.1	11	7.4	11
3544	Special dies, tools, jigs and fixtures	12.0	9	13.3	10	13.9	10
3545	Machine tool accessories	10.6	19	11.6	20	11.8	20
3542,8	Miscellaneous metal working machinery	15.6	21	16.6	22	16.8	22
355	Special industry machinery	24.2	14	25.6	14	25.8	14
3551	Food products machinery	4.9	12	5.3	12	5.5	13
3552	Textile machinery	5.4	18	6.0	20	5.8	19
3555	Printing trades machinery	3.8	15	4.2	15	4.3	15
356	General industrial machinery	52.1	18	55.1	18	56.1	18
3561	Pumps and compressors	12.9	15	13.7	16	13.5	16
3562	Ball and roller bearings	12.8	23	13.4	23	13.9	23
3564	Blowers and fans	6.9	19	7.5	21	7.9	22
3566	Power transmission equipment	7.2	15	7.8	16	7.9	16
357	Office and computing machines	91.9	30	105.7	32	111.4	32
3573	Electronic computing equipment	68.4	29	80.4	31	85.2	32
358	Service industry machines	31.8	19	34.1	19	36.0	20
3585	Refrigeration machinery	21.1	18	22.4	18	24.3	19
359	Miscellaneous machinery, except electrical	43.5	17	48.0	17	49.3	17

**ESTABLISHMENT DATA .  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>DURABLE GOODS - CONTINUED</b>							
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b> . . . . .	770.0	41	832.2	42	837.2	42
361	Electrical test and distributing equipment . . . . .	72.4	37	78.7	37	80.4	38
3611	Electric measuring instruments . . . . .	32.1	44	35.2	44	37.0	45
3612	Transformers . . . . .	14.7	31	15.9	31	16.4	31
3613	Switchgear and switchboard apparatus . . . . .	25.6	34	27.6	35	27.0	34
362	Electrical industrial apparatus . . . . .	80.4	37	86.3	38	88.4	38
3621	Motors and generators . . . . .	38.7	36	41.7	38	43.4	39
3622	Industrial controls . . . . .	30.6	44	32.4	44	32.0	44
363	Household appliances . . . . .	54.3	32	63.9	35	62.0	34
3632	Household refrigerators and freezers . . . . .	8.3	24	9.2	25	10.5	26
3633	Household laundry equipment . . . . .	5.0	21	5.5	21	5.7	21
3634	Electric housewares and fans . . . . .	26.9	53	31.7	54	28.2	54
364	Electric lighting and wiring equipment . . . . .	89.5	45	95.3	45	96.4	45
3641	Electric lamps . . . . .	24.3	64	24.5	64	24.8	65
3642	Lighting fixtures . . . . .	23.3	36	25.3	37	25.1	36
3643,4	Wiring devices . . . . .	41.9	43	45.5	44	46.5	44
365	Radio and TV receiving equipment . . . . .	65.7	51	74.8	53	71.8	52
366	Communication equipment . . . . .	154.0	36	164.8	37	167.1	37
3661	Telephone and telegraph apparatus . . . . .	64.3	46	70.7	47	71.3	48
3662	Radio and TV communication equipment . . . . .	89.7	31	94.1	32	95.8	31
367	Electronic components and accessories . . . . .	203.1	53	213.5	53	214.1	53
3671-3	Electron tubes . . . . .	15.7	38	16.4	38	16.5	38
3674,9	Other electronic components . . . . .	187.4	55	197.1	55	197.6	55
369	Miscellaneous electrical equipment and supplies . . . . .	50.6	33	54.9	34	57.0	34
3694	Engine electrical equipment . . . . .	27.8	35	28.4	34	30.4	35
37	<b>TRANSPORTATION EQUIPMENT</b> . . . . .	227.4	13	248.4	14	252.3	14
371	Motor vehicles and equipment . . . . .	100.4	11	118.3	13	117.4	13
3711	Motor vehicles . . . . .	33.1	9	42.0	11	41.4	11
3712	Passenger car bodies . . . . .	5.5	11	5.9	13	6.1	13
3713	Truck and bus bodies . . . . .	4.2	11	5.1	11	5.1	11
3714	Motor vehicle parts and accessories . . . . .	56.1	14	63.5	15	63.0	15
3715	Truck trailers . . . . .	1.5	6	1.8	7	1.8	7
372	Aircraft and parts . . . . .	76.4	16	74.6	16	81.8	17
3721	Aircraft . . . . .	42.9	16	38.8	17	44.5	17
3722	Aircraft engines and engine parts . . . . .	18.4	14	19.8	15	20.5	15
3723,9	Other aircraft parts and equipment . . . . .	15.1	17	16.0	17	16.8	18
373	Ship and boat building and repairing . . . . .	21.3	10	23.3	10	21.9	10
3731	Ship building and repairing . . . . .	13.4	8	15.2	8	14.3	8
3732	Boat building and repairing . . . . .	7.9	16	8.1	17	7.6	16
374	Railroad equipment . . . . .	4.6	10	3.8	9	3.9	9
375,9	Other transportation equipment . . . . .	24.7	18	28.4	18	27.3	17
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> . . . . .	205.7	40	216.0	41	218.4	41
381	Engineering and scientific instruments . . . . .	16.8	29	17.0	28	17.8	29
382	Mechanical measuring and control devices . . . . .	47.5	40	50.2	40	51.9	41
3821	Mechanical measuring devices . . . . .	27.8	35	29.5	36	29.8	35
3822	Automatic temperature controls . . . . .	19.7	48	20.7	49	22.1	51
383,5	Optical and ophthalmic goods . . . . .	30.3	45	33.4	47	33.2	47
385	Ophthalmic goods . . . . .	22.1	50	24.6	54	24.3	54
384	Medical instruments and supplies . . . . .	57.5	51	60.8	52	62.2	52
386	Photographic equipment and supplies . . . . .	34.6	27	35.2	27	35.0	27
387	Watches, clocks, and watchcases . . . . .	19.0	64	19.4	65	18.3	64
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> . . . . .	182.9	45	199.5	46	181.3	45
391	Jewelry, silverware, and plated ware . . . . .	23.4	43	25.5	44	24.8	44
394	Toys and sporting goods . . . . .	56.7	52	65.7	54	51.4	50
3941-3	Games, toys, dolls, and play vehicles . . . . .	29.2	54	39.6	58	25.6	53
3949	Sporting and athletic goods, n e c . . . . .	27.5	50	26.1	48	25.8	48
395	Pens, pencils, office and art supplies . . . . .	18.7	57	19.8	57	18.8	56
396	Costume jewelry and notions . . . . .	27.3	54	28.4	56	27.6	55
393,9	Other manufacturing industries . . . . .	56.8	36	60.1	37	58.7	36
393	Musical instruments and parts . . . . .	9.6	41	10.4	44	10.4	43
<b>NONDURABLE GOODS</b>							
20	<b>FOOD AND KINDRED PRODUCTS</b> . . . . .	438.9	26	503.3	29	450.0	27
201	Meat products . . . . .	106.1	30	114.0	31	110.1	30
2011	Meat packing plants . . . . .	26.2	15	26.3	15	26.1	15
2013	Sausages and other prepared meats . . . . .	18.9	28	20.0	29	19.4	28
2015	Poultry dressing plants . . . . .	61.0	53	67.7	53	64.6	53
202	Dairy products . . . . .	35.9	19	37.8	20	35.8	19
2024	Ice cream and frozen desserts . . . . .	4.8	24	5.5	25	4.9	23

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>NONDURABLE GOODS - CONTINUED</b>							
<b>FOOD AND KINDRED PRODUCTS - Continued</b>							
2026	Fluid milk	19.5	16	20.3	16	19.4	16
203	Canned, cured, and frozen foods	97.9	40	135.1	44	97.0	41
2031.6	Canned, cured, and frozen sea foods	21.1	54	25.2	58	21.8	56
2032.3	Canned food, except sea foods	31.9	30	56.5	38	34.4	33
2037	Frozen fruits and vegetables	28.1	47	32.4	50	25.5	47
204	Grain mill products	25.5	17	26.9	18	26.2	18
2041	Flour and other grain mill products	4.1	15	4.8	17	4.3	15
2042	Prepared feeds for animals and fowls	12.2	16	12.4	17	12.5	17
205	Bakery products	60.4	25	64.5	27	63.0	26
2051	Bread, cake, and related products	41.5	21	44.8	22	44.2	22
2052	Cookies and crackers	18.9	47	19.7	50	18.8	49
206	Sugar	4.3	12	6.2	16	4.1	13
207	Confectionery and related products	35.8	46	39.0	47	36.3	46
2071	Confectionery products	27.4	48	30.9	50	28.6	50
208	Beverages	33.7	15	37.1	16	35.5	15
2082	Malt liquors	4.8	10	5.4	11	5.2	11
2086	Bottled and canned soft drinks	14.6	11	16.0	12	15.9	12
209	Miscellaneous foods and kindred products	39.3	27	42.7	28	42.0	28
21	<b>TOBACCO MANUFACTURES</b>	28.1	38	29.6	39	26.3	38
211	Cigarettes	14.2	32	13.9	31	14.0	32
212	Cigars	6.6	67	6.7	70	6.6	70
22	<b>TEXTILE MILL PRODUCTS</b>	445.5	47	471.1	48	466.1	47
221	Weaving mills, cotton	73.5	42	72.1	43	71.8	42
222	Weaving mills, synthetics	48.8	40	48.4	40	48.2	40
223	Weaving and finishing mills, wool	8.8	38	8.4	38	8.7	39
224	Narrow fabric mills	14.9	58	15.6	58	16.0	58
225	Knitting mills	161.0	63	180.5	65	174.9	64
2251	Women's hosiery, except socks	29.3	76	29.9	77	30.5	77
2252	Hosiery, n e c	24.0	72	26.9	72	26.8	72
2253	Knit outerwear mills	52.7	72	64.1	74	57.8	73
2254	Knit underwear mills	27.6	70	29.6	71	30.4	69
226	Textile finishing, except wool	23.1	29	24.1	30	24.0	29
227	Floor covering mills	22.5	37	25.0	38	25.3	38
228	Yarn and thread mills	73.2	48	77.2	48	77.2	48
229	Miscellaneous textile goods	19.7	30	19.8	29	20.0	29
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,007.8	81	1,052.1	81	1,016.9	81
231	Men's and boys' suits and coats	67.6	77	68.9	78	68.4	78
232	Men's and boys' furnishings	313.1	84	324.7	84	315.1	84
2321	Men's and boys' shirts and nightwear	99.6	88	99.2	87	94.2	87
2327	Men's and boys' separate trousers	69.3	82	70.0	81	69.1	82
2328	Men's and boys' work clothing	77.7	82	83.5	83	83.0	84
233	Women's and misses' outerwear	310.6	86	318.7	85	303.6	85
2331	Women's and misses' blouses and waists	40.4	87	42.2	88	41.5	88
2335	Women's and misses' dresses	134.9	87	138.4	87	130.5	87
2337	Women's and misses' suits and coats	40.0	79	43.6	79	36.0	81
2339	Women's and misses' outerwear, n e c	95.3	86	94.5	85	95.6	85
234	Women's and children's undergarments	83.6	86	89.0	86	85.7	86
2341	Women's and children's underwear	64.4	87	69.6	88	66.3	87
2342	Corsets and allied garments	19.2	81	19.4	80	19.4	81
235	Hats, caps, and millinery	11.8	75	12.0	76	12.2	76
236	Children's outerwear	64.2	86	64.1	86	64.3	86
2361	Children's dresses and blouses	27.1	89	26.0	89	26.2	89
237.8	Fur goods and miscellaneous apparel	47.7	74	53.4	75	50.2	75
239	Miscellaneous fabricated textile products	109.2	63	121.3	64	117.4	63
2391.2	Housefurnishings	51.2	69	58.2	70	57.1	70
26	<b>PAPER AND ALLIED PRODUCTS</b>	142.1	21	154.5	22	152.6	22
261,2,6	Paper and pulp mills	23.0	12	24.5	12	24.4	12
263	Paperboard mills	5.5	8	5.6	8	5.6	8
264	Miscellaneous converted paper products	65.3	33	71.2	34	70.4	33
2643	Bags, except textile bags	14.5	33	15.5	33	15.3	32
265	Paperboard containers and boxes	48.3	23	53.2	24	52.2	24
2651,2	Folding and setup paperboard boxes	17.9	31	18.7	31	17.9	30
2653	Corrugated and solid fiber boxes	15.0	15	16.5	15	16.8	16
2654	Sanitary food containers	10.0	33	12.5	36	12.2	35

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>NONDURABLE GOODS — CONTINUED</b>							
27	<b>PRINTING AND PUBLISHING</b> . . . . .	386.1	35	409.3	37	409.5	36
271	Newspapers . . . . .	127.3	33	131.8	33	133.0	34
272	Periodicals . . . . .	37.1	52	39.3	53	39.8	53
273	Books . . . . .	44.0	50	45.0	51	47.5	53
275	Commercial printing . . . . .	103.7	29	113.0	30	110.1	30
2751	Commercial printing, ex. lithographic . . . . .	59.1	29	64.2	31	62.8	30
2752	Commercial printing, lithographic . . . . .	41.3	29	45.1	30	43.5	29
278	Blankbooks and bookbinding . . . . .	25.3	51	27.7	52	27.3	52
274,6,7,9	Other publishing and printing ind. . . . .	48.7	37	52.5	38	51.8	37
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> . . . . .	228.1	22	241.3	23	238.7	23
281	Industrial chemicals . . . . .	46.3	14	49.0	14	49.2	14
2812	Alkalies and chlorines . . . . .	2.1	10	2.0	9	2.0	9
2818	Industrial organic chemicals, n e c . . . . .	21.2	15	22.0	15	22.1	15
2819	Industrial inorganic chemicals, n e c . . . . .	15.6	14	16.8	14	17.0	15
282	Plastics materials and synthetics . . . . .	36.2	18	38.5	19	38.1	19
2821	Plastics materials and resins . . . . .	9.0	10	10.7	12	10.7	12
2823,4	Synthetic fibers . . . . .	26.2	26	26.6	27	26.1	27
283	Drugs . . . . .	68.1	40	71.1	40	70.3	40
2834	Pharmaceutical preparations . . . . .	56.6	41	59.6	42	58.8	42
284	Soap, cleaners, and toilet goods . . . . .	45.3	37	49.0	38	47.5	38
2841	Soap and other detergents . . . . .	8.4	21	8.6	21	8.5	21
2844	Toilet preparations . . . . .	26.9	56	30.1	58	28.9	57
285	Paints and allied products . . . . .	11.0	17	12.1	17	11.8	17
287	Agricultural chemicals . . . . .	6.8	12	6.8	12	6.9	12
2871,2	Fertilizers, complete and mixing only . . . . .	3.0	9	3.3	10	3.2	9
286,9	Other chemical products . . . . .	14.4	18	14.8	18	14.9	19
2892	Explosives . . . . .	2.2	17	2.2	16	2.3	17
29	<b>PETROLEUM AND COAL PRODUCTS</b> . . . . .	21.5	11	24.4	11	24.5	12
291	Petroleum refining . . . . .	16.2	10	18.6	12	18.8	12
295,9	Other petroleum and coal products . . . . .	5.3	12	5.8	11	5.7	12
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> . . . . .	221.0	34	237.2	34	237.5	34
301	Tires and inner tubes . . . . .	10.8	9	11.1	9	11.0	9
302,3,6	Other rubber products . . . . .	63.2	37	62.9	36	62.4	36
302	Rubber footwear . . . . .	13.6	62	11.9	60	12.1	61
307	Miscellaneous plastics products . . . . .	147.0	41	163.2	42	164.1	42
31	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	157.3	60	160.7	61	154.0	60
311	Leather tanning and finishing . . . . .	3.3	14	3.3	14	3.2	14
314	Footwear, except rubber . . . . .	106.9	66	106.8	66	105.5	66
312,3,5-7,9	Other leather products . . . . .	47.1	63	50.6	63	45.3	62
316	Luggage . . . . .	9.6	59	10.4	56	8.6	53
317	Handbags and personal leather goods . . . . .	24.9	71	26.6	72	23.2	71
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> . . . . .		1,006	22	1,040	22	1,049	23
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> . . . . .	56.8	20	52.6	20	55.3	21
411	Local and suburban transportation . . . . .	9.2	13	8.2	12	10.4	15
412	Taxicabs . . . . .	5.8	8	6.3	9	6.5	9
413	Intercity highway transportation . . . . .	4.6	12	4.4	12	4.2	11
42	<b>TRUCKING AND WAREHOUSING</b> . . . . .	114.7	11	123.2	11	121.7	11
421,3	Trucking and trucking terminals . . . . .	99.5	10	104.7	10	105.2	10
422	Public warehousing . . . . .	15.2	17	18.5	19	16.5	18
45	<b>TRANSPORTATION BY AIR</b> . . . . .	106.7	29	115.4	30	117.6	31
451,2	Air transportation . . . . .	101.1	30	110.0	32	112.1	32
46	<b>PIPE LINE TRANSPORTATION</b> . . . . .	1.4	9	1.5	9	1.5	9
44	<b>WATER TRANSPORTATION</b> . . . . .	17.9	9	19.8	10	18.2	9
47	<b>TRANSPORTATION SERVICES</b> . . . . .	41.1	27	52.3	32	54.2	33
48	<b>COMMUNICATION</b> . . . . .	517.2	45	531.2	45	534.4	45
481	Telephone communication . . . . .	457.5	49	469.6	49	471.9	49
483	Radio and television broadcasting . . . . .	46.6	29	48.3	29	49.6	30
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> . . . . .	122.3	17	125.7	17	128.8	17
491	Electric companies and systems . . . . .	51.4	16	53.1	17	54.4	17
492	Gas companies and systems . . . . .	30.6	19	30.4	20	31.2	20



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>NONDURABLE GOODS – CONTINUED</b>							
<b>ELECTRIC, GAS, AND SANITARY SERVICES – Cont'd</b>							
493	Combination companies and systems	30.7	16	31.8	16	32.2	16
494-7	Water, steam, and sanitary systems	9.6	14	10.4	14	11.0	15
	<b>WHOLESALE AND RETAIL TRADE</b>	<b>7,459</b>	<b>42</b>	<b>7,811</b>	<b>42</b>	<b>7,817</b>	<b>42</b>
	<b>WHOLESALE TRADE</b>	<b>1,058</b>	<b>25</b>	<b>1,101</b>	<b>25</b>	<b>1,105</b>	<b>25</b>
501	Motor vehicles and automotive equipment	83.0	21	86.3	22	86.6	22
502	Drugs, chemicals, and allied products	82.4	34	86.6	34	86.1	34
503	Dry goods and apparel	77.2	49	79.2	49	76.6	49
504	Groceries and related products	138.4	22	137.7	22	133.6	21
506	Electrical goods	87.7	27	92.4	27	95.0	28
507	Hardware; plumbing and heating equipment	49.4	26	51.8	26	52.5	26
508	Machinery, equipment, and supplies	191.5	21	205.5	22	210.0	22
509	Miscellaneous wholesalers	317.1	23	331.0	23	333.1	24
	<b>RETAIL TRADE</b>	<b>6,401</b>	<b>47</b>	<b>6,710</b>	<b>48</b>	<b>6,712</b>	<b>48</b>
	<b>Retail general merchandise</b>	<b>1,714.3</b>	<b>68</b>	<b>1,720.5</b>	<b>67</b>	<b>1,779.5</b>	<b>67</b>
531	Department stores	1,189.4	68	1,188.1	67	1,241.6	67
532	Mail order houses	70.9	64	73.0	60	69.1	59
533	Variety stores	226.1	73	227.8	76	235.6	76
54	<b>Food stores</b>	<b>830.0</b>	<b>40</b>	<b>867.1</b>	<b>41</b>	<b>867.1</b>	<b>40</b>
541-3	Grocery, meat, and vegetable stores	714.6	37	747.4	39	754.8	38
56	<b>Apparel and accessory stores</b>	<b>548.2</b>	<b>67</b>	<b>551.0</b>	<b>67</b>	<b>559.0</b>	<b>66</b>
561	Men's and boys' clothing and furnishings	64.5	44	61.3	43	64.5	43
562	Women's ready-to-wear stores	264.1	88	260.4	88	261.5	87
565	Family clothing stores	92.6	71	96.9	74	98.2	75
566	Shoe stores	64.5	38	68.8	39	72.2	39
57	<b>Furniture and home furnishings stores</b>	<b>165.2</b>	<b>30</b>	<b>171.1</b>	<b>31</b>	<b>172.5</b>	<b>31</b>
571	Furniture and home furnishings	107.0	33	111.3	33	111.5	33
58	<b>Eating and drinking places</b>	<b>2,024.5</b>	<b>57</b>	<b>2,242.4</b>	<b>57</b>	<b>2,164.3</b>	<b>57</b>
52,55,59	<b>Other retail trade</b>	<b>1,119.1</b>	<b>28</b>	<b>1,157.5</b>	<b>29</b>	<b>1,169.2</b>	<b>29</b>
52	Building materials and farm equipment	122.2	20	131.1	20	130.8	20
55	Automotive dealers and service stations	258.0	15	268.5	15	271.3	15
551,2	Motor vehicle dealers	101.5	13	106.3	13	107.3	13
553,9	Other automotive and accessory dealers	53.0	16	56.2	16	57.8	17
59	Miscellaneous retail stores	738.9	47	757.9	48	767.1	48
591	Drug stores and proprietary stores	299.2	61	299.5	61	306.8	61
594	Book and stationery stores	41.8	49	40.5	50	40.1	50
596	Farm and garden supply stores	29.5	22	32.8	23	33.4	24
598	Fuel and ice dealers	21.3	19	20.6	21	21.6	20
	<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>2,439</b>	<b>56</b>	<b>2,568</b>	<b>56</b>	<b>2,598</b>	<b>57</b>
60	Banking	893.3	68	931.3	69	944.7	69
61	Credit agencies other than banks	296.7	62	323.7	63	331.2	64
612	Savings and loan associations	139.2	71	152.9	72	156.8	72
614	Personal credit institutions	104.9	53	113.9	55	116.6	56
62	Security, commodity brokers and services	62.8	35	65.3	36	66.6	37
63	Insurance carriers	631.3	56	655.0	57	663.1	57
631	Life insurance	246.6	48	248.2	48	249.6	48
632	Accident and health insurance	88.2	72	89.3	72	89.9	72
633	Fire, marine, and casualty insurance	255.3	60	271.2	61	276.7	61
64	Insurance agents, brokers, and service	201.8	58	216.6	58	219.2	58
65	Real estate	295.0	36	315.1	36	313.5	36
655	Subdividers and developers	28.2	26	30.9	26	30.0	28
656	Operative builders	11.8	21	14.2	22	14.7	23
66,67	Other finance, insurance, and real estate	58.1	51	61.3	52	60.1	51
	<b>SERVICES</b>	<b>8,301</b>	<b>56</b>	<b>8,832</b>	<b>57</b>	<b>8,787</b>	<b>57</b>
	<b>Hotels and other lodging places:</b>						
701	Hotels, tourist courts, and motels	426.7	53	468.7	54	433.5	53
72	Personal services	500.4	62	510.1	63	499.5	63
721	Laundries and dry cleaning plants	214.6	62	216.4	62	212.5	62
722	Photographic studios	23.7	60	27.6	64	23.0	59
73	Miscellaneous business services	807.4	37	882.5	38	876.3	38
731	Advertising	59.0	46	63.9	47	65.2	47
732	Credit reporting and collection	58.9	70	62.7	70	62.5	70
734	Services to buildings	166.6	40	168.5	39	166.8	38
76	Miscellaneous repair services	37.9	17	42.8	18	43.1	18
78	Motion pictures	72.2	38	74.8	36	69.6	36
781	Motion picture filming and distributing	23.7	39	24.8	34	22.6	34
782,3	Motion picture theaters and services	48.5	37	50.0	38	47.0	38

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Jan. 1977		Oct. 1977		Jan. 1978	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<b>SERVICES — Continued</b>						
80	Medical and other health services . . . . .	3,701.6	81	3,925.6	81	3,970.2	81
806	Hospitals . . . . .	1,955.8	80	2,036.6	80	2,055.9	80
81	Legal services . . . . .	247.1	64	270.6	65	275.0	65
82	Educational services . . . . .	671.4	52	743.1	53	726.3	53
821	Elementary and secondary schools . . . . .	272.9	63	287.5	63	294.5	64
822	Colleges and universities . . . . .	305.7	45	349.6	47	324.3	47
89	Miscellaneous services . . . . .	270.8	29	292.7	30	308.2	30
891	Engineering and architectural services . . . . .	74.9	18	85.7	19	87.9	19
892	Nonprofit research agencies . . . . .	56.7	36	61.3	37	63.8	38
	<b>GOVERNMENT . . . . .</b>	6,878	46	7,184	47	7,233	47
91	<b>FEDERAL GOVERNMENT . . . . .</b>	846	31	844	31	849	31
92,93	<b>STATE AND LOCAL GOVERNMENT . . . . .</b>	6,032	49	6,340	50	6,384	50
92	State government . . . . .	1,472.6	45	1,514.9	45	1,485.8	45
	State education . . . . .	621.6	44	626.5	44	605.5	44
	Other State government . . . . .	851.0	45	888.4	45	880.3	45
93	Local government . . . . .	4,559.8	50	4,825.2	52	4,898.5	52
	Local education . . . . .	3,170.3	61	3,345.6	63	3,384.9	63
	Other local government . . . . .	1,389.5	36	1,479.6	37	1,513.6	37

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOYMENT**

**B-4. Indexes of employment on nonagricultural payrolls, by industry division,  
1919 to date, monthly data seasonally adjusted**

[1967 = 100]

Year and month	Total	Goods-producing				Service-producing							Government		
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Total	Federal	State and local
								Total	Wholesale trade	Retail trade					
1919.....	41.1	55.1	184.8	31.8	54.8	33.5	87.1	33.2	-	-	34.4	22.4	23.5	-	-
1920.....	41.5	54.8	202.1	26.4	54.8	34.3	93.8	32.8	-	-	36.4	23.4	22.8	-	-
1925.....	43.7	53.6	177.7	45.1	51.1	38.3	89.8	41.0	-	-	38.2	28.4	24.6	-	-
1926.....	45.3	55.4	193.3	48.5	52.2	39.7	92.5	42.5	-	-	40.5	30.2	25.0	-	-
1927.....	45.5	54.7	181.7	50.1	51.4	40.5	91.4	43.4	-	-	42.4	31.4	25.6	-	-
1928.....	45.6	54.2	171.3	50.1	51.1	40.8	89.8	43.2	-	-	44.5	32.3	26.3	-	-
1929.....	47.6	57.1	177.3	46.7	55.0	42.4	91.9	45.0	-	-	46.8	34.1	26.9	19.6	29.2
1930.....	44.7	51.3	164.6	42.8	49.2	41.0	86.5	42.6	-	-	45.7	33.4	27.6	19.3	30.2
1931.....	40.5	44.1	142.4	37.8	42.0	38.5	76.4	38.8	-	-	43.6	31.5	28.6	20.6	31.2
1932.....	35.9	37.1	119.2	30.2	35.6	35.2	66.1	34.4	-	-	41.6	29.0	28.3	20.6	30.7
1933.....	36.0	38.5	121.4	25.2	38.0	34.7	62.7	34.9	-	-	40.2	28.4	27.8	20.8	30.0
1934.....	39.4	44.0	144.0	26.9	43.7	36.9	64.5	38.8	-	-	40.9	30.3	28.9	24.0	30.5
1935.....	41.1	46.8	146.3	28.4	46.6	38.0	65.4	39.9	-	-	41.4	31.1	30.5	27.7	31.4
1936.....	44.2	51.2	154.3	35.7	50.5	40.3	69.8	42.7	-	-	43.0	32.9	32.2	30.4	32.7
1937.....	47.1	55.5	165.6	34.7	55.5	42.5	73.6	46.0	-	-	44.4	34.8	33.0	30.6	33.7
1938.....	44.4	48.9	145.4	32.9	48.5	41.8	67.2	45.4	-	-	44.2	34.4	34.1	30.5	35.2
1939.....	46.5	52.8	139.3	35.8	52.9	43.1	68.9	47.2	47.8	47.0	45.3	34.8	35.1	33.3	35.6
1940.....	49.2	56.7	150.9	40.3	56.5	45.0	71.3	49.6	49.8	49.6	46.6	36.4	36.9	36.6	36.9
1941.....	55.5	68.5	156.1	55.8	67.8	48.4	76.8	53.0	53.1	53.0	48.0	38.8	40.9	49.3	38.3
1942.....	60.9	79.3	161.8	67.6	78.6	50.9	81.2	52.3	51.7	52.5	47.7	40.4	48.1	81.4	37.7
1943.....	64.5	86.4	150.9	48.8	90.5	52.5	85.6	51.3	49.4	52.0	46.6	41.1	53.3	106.8	36.6
1944.....	63.6	83.0	145.5	34.1	89.1	53.0	89.9	51.9	50.0	52.5	45.8	41.2	53.0	107.7	35.9
1945.....	61.3	75.2	136.4	35.3	79.8	53.8	91.7	53.8	52.8	54.1	46.4	42.0	52.1	103.3	36.1
1946.....	63.3	74.0	140.6	51.8	75.6	57.4	95.3	61.6	62.1	61.4	52.6	46.7	49.1	82.9	38.5
1947.....	66.6	79.4	155.8	61.8	79.9	59.6	97.8	65.8	67.0	65.4	54.4	50.0	48.0	69.6	41.3
1948.....	68.2	80.6	162.2	67.6	80.1	61.4	98.3	68.1	70.6	67.3	56.7	51.5	49.6	68.5	43.6
1949.....	66.5	75.4	151.7	67.5	74.3	61.6	93.9	68.1	70.6	67.2	57.6	52.1	51.4	70.2	45.5
1950.....	68.7	79.4	147.0	72.7	78.4	62.8	94.7	69.0	71.4	68.1	59.5	53.3	52.9	70.9	47.2
1951.....	72.7	85.6	151.5	81.1	84.3	65.6	99.2	71.6	73.9	70.8	61.7	55.2	56.1	84.7	47.1
1952.....	74.1	86.7	146.5	82.1	85.5	67.3	99.7	73.5	76.2	72.6	64.2	56.7	58.0	89.0	48.3
1953.....	76.3	90.4	141.3	81.8	90.2	68.6	100.7	75.3	77.4	74.6	66.5	58.1	58.3	84.8	50.0
1954.....	74.4	84.7	129.0	81.4	83.9	68.8	95.8	75.2	77.7	74.4	69.3	59.4	59.2	80.5	52.6
1955.....	76.9	88.0	129.2	87.3	86.8	70.9	97.2	77.4	79.3	76.8	72.4	62.1	60.7	80.4	54.5
1956.....	79.6	90.5	134.1	93.5	88.7	73.6	99.6	79.8	81.8	79.1	75.3	64.7	63.8	81.2	58.4
1957.....	80.3	89.9	135.1	91.1	88.3	75.1	99.5	80.0	82.1	79.3	76.8	66.8	66.8	81.5	62.2
1958.....	78.0	83.7	122.5	86.6	82.0	74.9	93.3	79.0	80.8	78.4	78.1	67.4	68.8	80.6	65.1
1959.....	81.0	87.5	119.4	92.3	85.7	77.4	94.1	81.8	83.6	81.2	80.4	70.6	70.9	82.1	67.4
1960.....	82.4	87.6	116.2	89.9	86.4	79.5	94.0	83.7	85.2	83.2	82.8	73.5	73.3	83.5	70.1
1961.....	82.1	85.2	109.6	87.8	84.0	80.4	91.6	83.3	84.9	82.8	84.7	75.9	75.4	83.8	72.8
1962.....	84.4	87.7	106.0	90.5	86.7	82.6	91.7	85.0	86.7	84.4	86.8	79.5	78.0	86.1	75.5
1963.....	86.1	88.5	103.6	92.4	87.4	84.8	91.6	86.6	88.1	86.1	89.2	82.4	80.9	86.7	79.1
1964.....	88.6	90.1	103.4	95.1	88.8	87.8	92.7	89.4	90.5	89.0	91.7	86.2	84.2	86.4	83.5
1965.....	92.3	94.0	103.1	99.3	92.9	91.4	94.7	93.5	94.0	93.3	93.7	90.0	88.4	87.5	88.7
1966.....	97.1	99.3	102.3	102.1	98.8	95.9	97.4	97.3	97.5	97.3	96.1	94.6	94.7	94.3	94.8
1967.....	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	100.0	100.0
1968.....	103.2	101.8	98.9	103.1	101.7	103.9	101.2	103.6	102.4	104.0	104.8	105.2	103.9	100.7	105.0
1969.....	107.0	104.5	101.0	109.9	103.7	108.3	104.1	108.1	105.9	108.8	110.4	111.2	107.1	101.4	108.8
1970.....	107.7	101.0	101.6	110.2	99.5	111.3	105.7	110.5	108.3	111.3	114.3	115.1	110.2	100.4	113.3
1971.....	108.1	98.1	99.3	113.4	95.5	113.6	104.6	112.8	108.5	114.4	117.9	117.9	113.1	99.2	117.4
1972.....	111.9	101.2	102.0	119.4	98.2	117.8	106.0	117.4	111.9	119.4	122.3	122.7	117.0	98.7	122.8
1973.....	116.8	106.3	105.1	125.2	103.2	122.5	109.0	122.5	116.5	124.7	126.9	128.9	120.5	97.9	127.6
1974.....	119.1	106.1	113.2	123.3	103.1	126.1	110.2	125.1	119.8	126.9	130.5	134.8	124.4	100.2	132.0
1975.....	117.0	97.1	121.5	109.5	94.3	127.8	105.6	124.9	118.5	127.2	130.9	138.7	129.1	101.1	138.0
1976.....	120.6	100.3	127.7	112.0	97.5	131.7	105.8	130.0	120.9	133.2	133.8	145.0	131.1	100.5	140.7
1977.....	124.7	104.1	135.6	119.8	100.6	136.0	107.7	134.4	124.5	137.9	139.8	151.8	133.3	100.3	143.6
Apr.....	123.9	103.9	138.2	119.4	100.3	134.9	107.4	133.6	124.0	136.9	138.4	150.3	132.0	100.1	142.0
May.....	124.3	104.3	137.8	120.1	100.6	135.2	107.6	133.8	124.2	137.1	138.9	150.5	132.5	100.2	142.7
June.....	124.8	104.7	139.6	121.2	100.8	135.7	107.7	134.2	124.5	137.7	139.3	151.1	133.3	100.6	143.6
July.....	125.1	104.9	135.9	122.0	101.1	136.2	107.3	134.7	124.7	138.2	139.7	152.2	133.6	100.1	144.0
Aug.....	125.2	104.5	133.4	121.4	100.8	136.6	107.5	135.1	124.8	138.7	140.3	153.0	133.7	100.5	144.1
Sept.....	125.7	104.7	139.6	121.3	100.8	137.1	108.3	135.5	125.1	139.1	140.9	153.3	134.5	100.3	145.2
Oct.....	125.9	105.0	140.1	121.9	101.1	137.3	108.2	135.3	125.2	138.9	141.8	153.8	134.6	100.4	145.3
Nov.....	126.4	105.4	140.8	123.1	101.4	137.9	108.8	136.1	125.9	139.6	142.5	154.5	134.8	100.3	145.6
Dec.....	126.7	105.4	116.0	123.0	102.2	138.3	109.2	136.8	126.5	140.4	143.0	155.1	134.8	100.0	145.7
1978:															
Jan.....	127.1	105.7	115.0	122.1	102.7	138.8	108.6	137.8	127.1	141.5	143.6	155.4	135.4	100.6	146.3
Feb.....	127.6	106.3	116.0	123.0	103.2	139.3	109.2	137.8	127.9	141.2	144.1	156.4	135.8	100.6	146.8
Mar.....	128.4	107.2	118.3	126.1	103.7	140.0	109.7	138.5	128.8	141.9	144.9	157.3	136.3	100.6	147.4
Apr.....	129.3	108.9	145.7	131.5	104.0	140.5	110.3	138.9	129.1	142.3	145.6	158.0	136.6	100.7	147.9

p = preliminary.

NOTE: Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an

increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

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

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

(In thousands)

Industry division and group	1977										1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>F</sup>	
<b>TOTAL</b> .....	81,620	81,837	82,157	82,407	82,474	82,763	82,902	83,245	83,429	83,719	84,046	84,537	85,156	
<b>GOODS-PRODUCING</b> .....	24,176	24,264	24,355	24,412	24,305	24,360	24,436	24,528	24,526	24,593	24,733	24,933	25,334	
<b>MINING</b> .....	847	845	856	833	818	856	859	863	711	705	711	725	893	
<b>CONTRACT CONSTRUCTION</b> .....	3,830	3,853	3,888	3,913	3,893	3,892	3,911	3,950	3,947	3,916	3,947	4,044	4,217	
<b>MANUFACTURING</b> .....	19,499	19,566	19,611	19,666	19,594	19,612	19,666	19,715	19,868	19,972	20,075	20,164	20,224	
<b>DURABLE GOODS</b> .....	11,404	11,451	11,484	11,548	11,527	11,545	11,604	11,625	11,748	11,828	11,909	11,961	12,001	
Ordnance and accessories .....	156	156	157	156	156	155	150	152	155	156	157	157	158	
Lumber and wood products .....	635	638	638	640	642	648	653	662	666	667	664	669	670	
Furniture and fixtures .....	506	508	510	515	508	510	517	521	530	532	537	540	540	
Stone, clay, and glass products .....	650	653	659	659	656	658	657	667	671	675	676	680	689	
Primary metal industries .....	1,208	1,215	1,218	1,204	1,202	1,211	1,208	1,206	1,204	1,212	1,217	1,215	1,217	
Fabricated metal products .....	1,433	1,444	1,452	1,459	1,460	1,456	1,473	1,479	1,492	1,499	1,515	1,516	1,522	
Machinery, except electrical .....	2,150	2,165	2,170	2,202	2,210	2,217	2,243	2,237	2,257	2,265	2,279	2,293	2,314	
Electrical equipment and supplies .....	1,915	1,925	1,931	1,959	1,951	1,944	1,961	1,974	1,987	1,998	2,017	2,035	2,042	
Transportation equipment .....	1,802	1,797	1,802	1,813	1,802	1,809	1,801	1,782	1,830	1,862	1,879	1,882	1,873	
Instruments and related products .....	525	528	527	527	526	528	530	532	536	539	541	546	547	
Miscellaneous manufacturing .....	424	422	420	414	414	409	411	413	420	423	427	428	429	
<b>NONDURABLE GOODS</b> .....	8,095	8,115	8,127	8,118	8,067	8,067	8,062	8,090	8,120	8,144	8,166	8,203	8,223	
Food and kindred products .....	1,741	1,733	1,736	1,728	1,710	1,711	1,696	1,703	1,714	1,728	1,729	1,743	1,741	
Tobacco manufactures .....	74	72	72	72	68	67	67	66	69	69	69	70	68	
Textile mill products .....	979	986	986	992	982	985	987	993	990	991	995	995	992	
Apparel and other textile products .....	1,290	1,292	1,301	1,292	1,286	1,285	1,285	1,291	1,291	1,289	1,283	1,291	1,297	
Paper and allied products .....	695	701	703	705	704	702	702	700	705	707	710	714	719	
Printing and publishing .....	1,103	1,108	1,113	1,114	1,114	1,116	1,117	1,120	1,123	1,125	1,129	1,133	1,137	
Chemicals and allied products .....	1,057	1,062	1,061	1,064	1,061	1,058	1,058	1,059	1,064	1,066	1,070	1,071	1,075	
Petroleum and coal products .....	209	210	210	210	210	210	211	212	212	214	217	217	216	
Rubber and plastics products, nec .....	681	684	680	683	671	671	673	681	689	693	701	706	714	
Leather and leather products .....	266	267	265	258	261	262	266	265	263	262	263	263	264	
<b>SERVICE-PRODUCING</b> .....	57,444	57,573	57,802	57,995	58,169	58,403	58,466	58,717	58,903	59,126	59,313	59,604	59,822	
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,575	4,586	4,588	4,572	4,581	4,616	4,610	4,634	4,652	4,628	4,651	4,674	4,700	
<b>WHOLESALE AND RETAIL TRADE</b> ..	18,175	18,202	18,264	18,322	18,377	18,431	18,414	18,512	18,610	18,744	18,744	18,843	18,902	
<b>WHOLESALE TRADE</b> .....	4,371	4,379	4,387	4,394	4,398	4,410	4,415	4,438	4,460	4,482	4,510	4,539	4,552	
<b>RETAIL TRADE</b> .....	13,804	13,823	13,877	13,928	13,979	14,021	13,999	14,074	14,150	14,262	14,234	14,304	14,350	
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,463	4,481	4,494	4,506	4,524	4,545	4,572	4,597	4,611	4,630	4,647	4,672	4,696	
<b>SERVICES</b> .....	15,182	15,197	15,260	15,372	15,448	15,482	15,533	15,608	15,663	15,693	15,791	15,882	15,953	
Hotels and other lodging places .....	1,092	1,073	1,066	1,082	1,081	1,073	1,074	1,077	1,058	1,053	1,059	1,081	-	
Personal services .....	809	805	806	802	803	801	799	800	799	801	801	802	-	
Medical and other health services .....	4,662	4,681	4,723	4,747	4,778	4,801	4,827	4,850	4,877	4,898	4,925	4,944	-	
Educational services .....	1,287	1,289	1,285	1,314	1,327	1,356	1,342	1,346	1,338	1,342	1,345	1,345	-	
<b>GOVERNMENT</b> .....	15,049	15,107	15,196	15,223	15,239	15,329	15,337	15,366	15,367	15,431	15,480	15,533	15,571	
<b>FEDERAL</b> .....	2,721	2,725	2,735	2,721	2,732	2,728	2,730	2,727	2,718	2,736	2,736	2,736	2,737	
<b>STATE AND LOCAL</b> .....	12,328	12,382	12,461	12,502	12,507	12,601	12,607	12,639	12,649	12,695	12,744	12,797	12,834	

p = preliminary.

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

**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	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>TOTAL</b> .....	54,693	54,823	54,968	55,122	55,117	55,267	55,337	55,644	55,790	55,928	56,132	56,490	56,996
<b>GOODS-PRODUCING</b> .....	17,739	17,806	17,877	17,888	17,784	17,829	17,890	17,985	17,970	18,002	18,118	18,302	18,642
<b>MINING</b> .....	639	637	645	624	609	643	645	649	518	512	516	529	674
<b>CONTRACT CONSTRUCTION</b> .....	3,056	3,067	3,100	3,119	3,097	3,095	3,113	3,152	3,146	3,087	3,114	3,218	3,387
<b>MANUFACTURING</b> .....	14,044	14,102	14,132	14,145	14,078	14,091	14,132	14,184	14,306	14,403	14,488	14,555	14,581
<b>DURABLE GOODS</b> .....	8,167	8,211	8,236	8,271	8,252	8,266	8,313	8,337	8,438	8,512	8,575	8,611	8,630
Ordnance and accessories .....	71	72	73	73	71	70	68	69	71	72	73	73	73
Lumber and wood products .....	540	543	544	544	548	553	556	567	570	570	566	571	571
Furniture and fixtures .....	417	419	420	423	416	418	424	429	436	439	443	446	447
Stone, clay, and glass products .....	518	521	527	527	523	524	522	531	535	538	536	540	549
Primary metal industries .....	944	952	954	943	937	948	946	944	943	951	957	955	955
Fabricated metal products .....	1,085	1,096	1,103	1,106	1,104	1,102	1,117	1,124	1,134	1,142	1,156	1,155	1,159
Machinery, except electrical .....	1,390	1,404	1,409	1,438	1,443	1,444	1,464	1,459	1,474	1,482	1,495	1,506	1,518
Electrical equipment and supplies .....	1,276	1,285	1,287	1,299	1,296	1,289	1,303	1,314	1,324	1,331	1,346	1,361	1,362
Transportation equipment .....	1,279	1,272	1,275	1,281	1,279	1,285	1,278	1,261	1,300	332	11,345	1,343	1,334
Instruments and related products .....	322	323	323	322	321	324	324	326	329	331	331	333	333
Miscellaneous manufacturing .....	325	324	321	315	314	309	311	313	322	324	327	328	329
<b>NONDURABLE GOODS</b> .....	5,877	5,891	5,896	5,874	5,826	5,825	5,819	5,847	5,868	5,891	5,913	5,944	5,951
Food and kindred products .....	1,187	1,181	1,181	1,170	1,156	1,157	1,141	1,149	1,157	1,172	1,177	1,187	1,183
Tobacco manufactures .....	60	58	59	57	54	54	54	53	55	55	55	56	54
Textile mill products .....	855	860	860	866	855	857	860	866	863	863	866	868	865
Apparel and other textile products .....	1,107	1,109	1,117	1,105	1,102	1,100	1,099	1,105	1,107	1,107	1,103	1,108	1,115
Paper and allied products .....	522	527	528	529	528	526	527	525	529	530	532	536	537
Printing and publishing .....	639	642	642	642	640	639	641	642	642	642	645	648	649
Chemicals and allied products .....	606	610	610	612	609	608	607	608	611	614	617	617	618
Petroleum and coal products .....	137	137	138	137	137	138	139	141	140	142	144	144	142
Rubber and plastics products, nec .....	536	538	534	536	522	522	524	532	540	542	550	556	562
Leather and leather products .....	228	229	227	220	223	224	227	226	224	224	224	224	226
<b>SERVICE-PRODUCING</b> .....	36,954	37,017	37,091	37,234	37,333	37,438	37,447	37,659	37,820	37,926	38,014	38,188	38,354
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	3,893	3,903	3,903	3,885	3,890	3,918	3,899	3,922	3,951	3,909	3,922	3,937	3,959
<b>WHOLESALE AND RETAIL TRADE</b> .....	16,035	16,064	16,114	16,165	16,208	16,234	16,202	16,293	16,383	16,511	16,490	16,569	16,620
<b>WHOLESALE TRADE</b> .....	3,614	3,622	3,623	3,627	3,629	3,639	3,637	3,659	3,673	3,692	3,714	3,734	3,745
<b>RETAIL TRADE</b> .....	12,421	12,442	12,491	12,538	12,579	12,595	12,565	12,634	12,710	12,819	12,776	12,835	12,875
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,402	3,410	3,420	3,427	3,439	3,459	3,476	3,496	3,505	3,527	3,539	3,552	3,577
<b>SERVICES</b> .....	13,624	13,640	13,654	13,747	13,796	13,827	13,870	13,948	13,981	13,979	14,063	14,130	14,198

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

p=preliminary.

**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
<b>1975</b>				
January .....	15.1	12.8	12.8	16.6
February .....	15.7	12.8	11.9	17.4
March .....	25.6	18.6	17.7	17.7
April .....	39.0	32.3	28.2	20.6
May .....	51.2	43.9	41.6	27.0
June .....	40.7	52.3	56.7	40.7
July .....	58.1	57.0	67.2	50.6
August .....	73.0	76.2	70.1	63.1
September .....	80.8	81.7	75.3	72.4
October .....	66.9	74.1	82.3	77.3
November .....	62.2	72.4	83.4	80.2
December .....	74.1	74.7	81.7	82.6
<b>1976</b>				
January .....	78.5	82.0	83.1	86.0
February .....	77.9	84.3	81.7	84.6
March .....	74.1	85.2	79.9	81.1
April .....	79.4	77.9	79.4	74.4
May .....	66.6	71.5	70.9	79.7
June .....	54.1	61.0	68.6	79.1
July .....	57.3	52.9	57.0	74.1
August .....	47.1	62.5	57.3	74.7
September .....	69.8	56.7	63.7	78.5
October .....	42.4	62.8	69.8	76.5
November .....	69.5	58.7	73.5	75.0
December .....	73.0	79.9	78.5	74.7
<b>1977</b>				
January .....	75.0	79.7	89.0	75.9
February .....	73.5	86.0	86.6	75.6
March .....	82.3	85.8	83.1	78.2
April .....	77.6	84.0	80.5	78.2
May .....	68.6	73.3	71.5	79.1
June .....	63.7	70.1	68.0	77.6
July .....	65.7	56.1	68.3	78.8
August .....	50.0	62.5	68.3	78.8
September .....	61.3	57.0	72.1	77.3p
October .....	59.9	73.3	75.0	77.0p
November .....	75.9	76.2	80.5	
December .....	73.8	77.9	85.8p	
<b>1978</b>				
January .....	66.9	80.5	83.4p	
February .....	70.1	82.8p		
March .....	75.3p	78.8p		
April .....	68.6p			
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**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
1 ALABAMA	1,231.9	1,264.6	1,268.4	14.4	6.5	6.8	71.9	71.2	73.2	345.2	354.3	354.5
2 Birmingham	327.6	326.1	(*)	9.2	2.0	(*)	20.9	20.6	(*)	66.8	64.6	(*)
3 Huntsville	107.4	109.6	110.0	(1)	(1)	(1)	3.8	3.5	3.7	31.0	32.8	33.0
4 Mobile	134.7	140.6	(*)	(1)	(1)	(*)	10.5	11.0	(*)	27.6	29.3	(*)
5 Montgomery	90.5	96.9	97.3	(1)	(1)	(1)	5.8	6.0	6.0	14.0	15.3	15.4
6 Tuscaloosa	48.8	47.9	47.9	.8	.3	.5	3.0	3.3	3.4	10.5	9.1	9.1
7 ALASKA	158.4	150.2	152.4	4.5	4.9	4.9	19.6	14.4	15.1	8.7	8.0	8.6
8 ARIZONA	793.1	824.0	829.6	24.2	19.6	19.6	44.6	55.3	56.0	109.6	114.8	114.7
9 Phoenix	478.8	505.7	508.2	.6	.6	.6	26.9	34.1	34.2	81.0	85.9	86.0
10 Tucson	152.3	154.9	156.6	8.0	5.8	5.8	8.8	10.7	11.0	12.9	13.1	13.3
11 ARKANSAS	677.3	705.4	714.2	4.5	4.6	4.7	34.5	34.8	38.0	203.6	213.1	214.5
12 Fayetteville-Springdale	55.1	56.0	56.7	(1)	(1)	(1)	2.7	2.8	3.2	17.1	17.5	17.6
13 Fort Smith	62.0	62.6	63.3	.6	.6	.6	2.7	2.7	2.8	2.8	2.8	2.9
14 Little Rock-North Little Rock	161.7	166.5	167.5	(1)	(1)	(1)	8.8	8.3	8.7	29.8	31.3	31.5
15 Pine Bluff	28.1	29.1	29.4	(1)	(1)	(1)	.9	.8	.9	6.1	6.3	6.3
16 CALIFORNIA	8,357.6	8,641.1	8,736.7	34.3	35.3	35.4	338.0	332.7	358.5	1,675.0	1,729.0	1,746.9
17 Anaheim-Santa Ana-Garden Grove	647.6	693.5	705.7	1.9	2.3	2.3	37.6	36.8	40.7	167.1	180.5	182.0
18 Bakersfield	110.6	113.6	113.8	9.1	9.3	9.4	4.9	5.2	5.2	8.8	8.9	9.0
19 Fresno	157.9	164.4	165.7	.7	.8	.8	7.9	8.6	8.8	20.4	20.6	21.4
20 Los Angeles-Long Beach	3,176.9	3,261.5	3,286.6	10.9	11.2	11.2	95.8	91.8	98.0	805.0	822.3	828.5
21 Modesto	74.4	77.8	78.9	.1	.1	.1	4.6	4.8	5.0	15.7	15.9	16.6
22 Oxnard-Simi Valley-Ventura	125.0	126.9	128.4	2.2	2.3	2.3	5.6	4.9	5.3	19.5	19.7	19.9
23 Riverside-San Bernardino-Ontario	364.7	381.5	384.7	2.2	2.5	2.5	17.0	17.6	18.2	56.9	58.5	59.2
24 Sacramento	339.0	355.2	358.5	.4	.4	.4	15.0	16.1	16.6	22.6	23.3	24.0
25 Salinas-Seaside-Monterey	78.0	79.6	80.7	.6	.6	.6	3.0	3.1	3.2	8.9	8.6	9.3
26 San Diego	522.7	547.8	554.4	.8	.8	.8	30.2	26.4	30.3	74.1	81.8	81.9
27 San Francisco-Oakland	1,376.2	1,406.5	1,415.6	1.9	1.8	1.8	58.3	56.9	58.9	186.8	189.9	190.4
28 San Jose	518.5	546.5	553.3	.1	.1	.1	20.0	20.5	21.5	168.8	177.0	179.0
29 Santa Barbara-Santa Maria-Lompoc	104.1	104.9	106.6	1.0	1.0	1.0	3.9	4.1	4.1	14.0	13.1	14.0
30 Santa Rosa	72.2	75.3	76.0	.3	.3	.3	3.6	3.8	3.8	10.4	10.8	11.0
31 Stockton	103.4	105.9	107.0	.1	.1	.1	4.2	4.1	4.4	17.9	18.0	18.1
32 Vallejo-Fairfield-Napa	87.4	90.3	90.9	.2	.2	.2	3.5	3.4	3.6	8.7	8.8	8.8
33 COLORADO	(3)	1,001.5	1,006.7	(3)	21.7	21.8	(3)	55.8	57.3	(3)	144.2	144.8
34 Denver-Boulder	(3)	638.1	641.5	(3)	10.3	10.4	(3)	39.0	39.1	(3)	98.5	99.3
35 CONNECTICUT	1,251.3	1,274.8	(*)	(4)	(4)	(*)	34.3	32.9	(*)	402.4	404.2	(*)
36 Bridgeport	150.6	153.1	154.4	(4)	(4)	(4)	3.4	3.3	3.6	60.2	61.6	62.1
37 Hartford	341.2	351.7	354.1	(4)	(4)	(4)	8.0	8.1	8.3	82.3	84.6	85.2
38 New Britain	54.7	56.2	56.4	(4)	(4)	(4)	1.3	1.3	1.4	26.6	28.1	28.1
39 New Haven-West Haven	172.7	171.0	173.0	(4)	(4)	(4)	4.8	4.5	4.8	43.4	43.9	43.9
40 Stamford	94.8	98.0	99.0	(4)	(4)	(4)	3.6	3.8	4.0	29.1	29.3	29.4
41 Waterbury	82.3	82.8	83.4	(4)	(4)	(4)	2.0	1.9	2.0	33.7	32.1	32.3
42 DELAWARE	231.2	234.2	234.7	(1)	(1)	(1)	12.0	12.9	12.9	66.6	65.4	65.0
43 Wilmington	205.9	207.9	208.3	(1)	(1)	(1)	11.0	12.7	12.7	63.4	62.0	61.6
44 DISTRICT OF COLUMBIA	570.4	572.3	573.5	(1)	(1)	(1)	14.1	13.5	13.8	14.9	14.9	14.9
45 Washington SMSA	1,366.2	1,382.6	1,389.9	(1)	(1)	(1)	65.5	62.9	65.3	48.6	49.7	50.0
46 FLORIDA	2,893.7	2,993.2	3,021.6	8.9	8.8	8.8	166.8	185.0	186.1	371.3	393.2	396.1
47 Fort Lauderdale-Hollywood	262.8	271.7	275.0	(1)	(1)	(1)	17.5	19.7	19.6	29.0	32.6	32.7
48 Jacksonville	259.9	267.0	266.7	(1)	(1)	(1)	14.2	14.4	14.3	30.3	33.3	33.2
49 Miami	613.6	624.2	629.0	(1)	(1)	(1)	25.0	26.8	27.2	85.9	89.6	90.9
50 Orlando	222.0	229.2	232.0	(1)	(1)	(1)	11.8	12.7	12.7	26.9	29.1	29.4
51 Pensacola	87.6	89.7	91.0	(1)	(1)	(1)	6.2	6.3	6.5	13.3	12.9	13.0
52 Tampa-St. Petersburg	440.0	455.5	457.2	(1)	(1)	(1)	26.4	29.0	28.7	60.4	62.9	63.5
53 West Palm Beach-Boca Raton	155.8	163.1	163.4	(1)	(1)	(1)	10.7	11.6	11.7	20.4	21.9	21.9
54 GEORGIA	1,869.0	1,921.8	1,931.7	7.1	7.1	7.1	83.7	91.9	94.9	485.6	497.3	499.0
55 Albany	37.3	38.3	38.2	(1)	(1)	(1)	2.2	3.4	3.5	9.5	9.4	9.3
56 Atlanta	789.6	797.5	804.3	(1)	(1)	(1)	32.7	33.8	35.7	129.6	132.1	133.6
57 Augusta	109.3	114.5	114.9	(1)	(1)	(1)	6.2	7.0	7.0	34.8	35.7	35.6
58 Columbus	76.4	79.5	79.8	(1)	(1)	(1)	4.5	4.5	4.7	19.8	20.6	20.4
59 Macon	93.9	94.5	94.1	(1)	(1)	(1)	4.7	4.3	4.0	16.0	15.7	15.6
60 Savannah	78.4	79.6	79.5	(1)	(1)	(1)	4.9	5.3	5.5	16.3	16.4	16.4

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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	
63.0	67.1	66.7	250.8	259.2	259.9	54.8	56.8	57.0	173.2	180.4	181.1	258.6	269.1	269.2	1
24.2	25.4	(*)	78.8	81.6	(*)	21.6	23.0	(*)	56.9	58.6	(*)	49.2	50.3	(*)	2
2.4	2.5	2.6	20.2	20.7	20.8	2.9	3.1	3.1	15.5	16.1	16.1	31.6	30.9	30.7	3
10.2	10.9	(*)	33.1	34.4	(*)	6.2	6.5	(*)	25.1	25.5	(*)	22.0	23.0	(*)	4
4.2	4.7	4.7	21.3	24.0	24.1	5.1	5.6	5.7	16.5	17.3	17.4	23.6	24.0	24.0	5
1.8	1.7	1.7	9.2	9.5	9.4	1.6	1.6	1.6	5.3	5.4	5.4	16.6	17.0	16.8	6
14.7	13.8	13.9	26.4	26.3	26.7	7.4	7.7	7.8	27.9	22.9	23.1	49.2	52.2	52.3	7
40.6	42.3	42.8	192.3	200.5	201.9	44.3	46.3	46.4	152.2	154.2	155.3	185.3	191.0	192.9	8
24.5	26.0	26.2	126.1	131.6	132.4	33.9	35.4	35.4	94.1	97.0	97.5	91.7	95.1	95.9	9
7.7	7.7	7.7	34.5	35.2	35.6	6.5	7.0	7.0	30.5	31.6	31.9	43.4	43.8	44.3	10
37.4	38.5	38.8	144.3	150.7	152.1	28.4	29.5	29.8	95.7	99.2	99.8	128.9	135.0	136.5	11
2.9	2.8	2.9	12.7	13.8	13.8	1.8	1.9	1.9	7.0	7.0	7.0	10.9	10.2	10.3	12
2.8	3.0	3.0	12.9	12.9	13.0	2.2	2.2	2.2	10.2	10.4	10.4	7.5	7.3	7.4	13
11.0	11.2	11.3	37.5	38.7	38.8	11.6	12.1	12.1	28.8	29.9	29.9	34.2	35.0	35.2	14
3.5	3.5	3.5	5.6	5.8	5.8	1.2	1.2	1.2	4.5	4.6	4.7	6.3	6.9	7.0	15
462.8	472.7	475.7	1,902.8	1,991.2	2,004.9	491.1	510.6	514.6	1,711.5	1,778.9	1,797.8	1,742.1	1,790.7	1,802.9	16
19.8	21.2	21.3	153.4	166.9	169.2	36.9	41.4	41.8	127.6	138.6	140.7	103.3	105.8	107.7	17
6.6	6.9	6.8	27.8	28.4	28.6	4.1	4.1	4.1	18.0	18.6	18.6	31.3	32.2	32.1	18
8.5	8.8	8.8	39.9	42.3	42.4	8.5	9.0	9.0	30.0	30.7	30.8	42.0	43.6	43.7	19
173.9	178.7	179.3	722.5	748.1	751.1	193.9	199.2	199.7	687.1	705.4	711.8	487.8	504.8	507.0	20
3.4	3.3	3.4	18.2	19.5	19.5	2.4	2.6	2.6	14.1	14.6	14.7	15.9	17.0	17.0	21
5.1	5.2	5.3	28.5	29.2	29.9	5.0	5.1	5.1	21.4	22.1	22.1	37.7	38.4	38.5	22
19.6	20.5	20.6	87.2	91.3	91.8	14.3	15.0	15.0	74.6	79.0	79.3	92.9	97.1	98.1	23
17.5	18.2	18.3	75.3	79.3	80.0	16.2	17.4	17.5	58.6	62.1	62.3	133.4	138.4	139.4	24
4.5	4.6	4.6	19.0	19.8	20.2	3.5	3.7	3.7	15.7	15.9	15.9	22.8	23.3	23.2	25
23.5	24.7	25.0	119.1	127.4	128.1	28.9	31.1	31.2	109.8	115.0	116.1	136.3	140.6	141.0	26
117.7	119.1	119.8	311.6	322.4	323.9	120.4	123.5	124.0	286.6	296.2	298.6	292.9	298.6	298.2	27
17.9	18.5	18.7	98.7	105.7	106.6	21.1	21.7	21.8	111.8	118.3	118.9	80.1	84.7	86.7	28
3.7	3.8	3.8	24.6	25.4	25.8	4.4	4.5	4.5	26.3	26.8	26.9	26.2	26.2	26.5	29
3.6	3.8	3.8	16.8	17.6	17.8	4.1	4.0	4.1	14.1	14.5	14.7	19.3	20.5	20.5	30
6.8	7.3	7.1	23.2	24.0	24.2	4.5	4.5	4.6	19.3	20.1	20.3	27.4	27.8	28.2	31
3.8	3.6	3.7	16.1	17.7	17.8	2.8	3.0	3.0	15.2	16.2	16.3	37.1	37.4	37.5	32
(3)	64.5	65.0	(3)	235.4	236.1	(3)	61.5	62.0	(3)	195.6	195.8	(3)	222.9	224.0	33
(3)	43.5	43.9	(3)	156.1	156.9	(3)	45.7	46.2	(3)	125.1	124.9	(3)	119.7	120.8	34
54.2	55.3	(*)	257.3	267.5	(*)	89.2	91.9	(*)	234.5	245.0	(*)	179.4	178.1	(*)	35
5.4	5.4	5.5	30.4	31.8	31.9	6.3	6.4	6.4	27.8	27.7	28.1	17.1	16.8	16.8	36
13.6	14.5	14.6	71.1	72.8	73.3	51.2	53.6	53.9	63.6	66.0	66.6	51.5	52.2	52.2	37
1.2	1.3	1.3	9.0	9.4	9.4	1.5	1.5	1.5	8.3	8.3	8.3	6.8	6.5	6.5	38
14.3	14.0	14.0	35.5	35.7	36.0	9.7	9.7	9.8	41.3	40.2	40.8	23.8	23.1	23.9	39
3.3	3.4	3.4	21.3	22.5	22.7	6.4	6.6	6.7	21.2	22.0	22.4	10.0	10.4	10.5	40
3.0	3.0	3.0	14.9	15.3	15.4	2.8	3.0	3.0	15.0	16.1	16.3	11.0	11.5	11.5	41
12.0	12.3	12.3	50.5	51.4	51.6	10.7	11.2	11.2	37.9	39.0	39.4	41.5	42.0	42.3	42
11.1	11.3	11.4	41.5	42.3	42.4	9.9	9.9	10.0	33.6	34.4	34.6	35.4	35.3	35.6	43
25.0	25.3	25.3	63.1	64.5	64.5	33.7	32.3	32.4	149.5	151.0	151.5	270.1	270.8	271.1	44
62.0	62.8	62.8	260.1	266.6	267.7	79.4	80.0	80.2	326.6	333.9	335.8	524.0	526.7	528.1	45
182.7	184.3	185.7	764.0	777.7	785.8	197.3	203.7	206.0	641.5	662.9	672.4	561.4	577.6	580.7	46
13.8	13.9	14.0	78.9	79.7	80.5	21.1	21.9	22.0	63.2	62.8	64.9	39.3	41.1	41.3	47
21.3	21.6	21.6	67.8	68.8	68.6	27.1	28.1	27.9	48.2	48.4	48.6	51.0	52.4	52.5	48
59.2	59.4	60.3	160.4	160.5	160.9	44.2	45.8	46.3	149.6	150.8	151.0	89.3	91.3	92.4	49
11.2	11.4	11.4	61.0	62.8	63.5	15.3	15.5	15.6	57.7	58.9	60.6	38.1	38.8	38.8	50
4.3	4.6	4.5	20.0	20.0	20.2	3.6	3.6	3.7	15.6	16.7	17.2	24.6	25.6	25.9	51
26.2	25.7	25.7	125.9	128.3	129.0	31.4	33.1	32.9	97.7	99.1	99.5	72.0	77.4	77.9	52
6.9	6.9	6.8	41.1	42.5	42.6	11.8	12.6	12.7	38.9	40.7	40.8	26.0	26.9	26.9	53
117.2	121.3	122.3	426.3	437.7	439.9	98.9	100.5	100.7	277.4	280.5	282.4	372.9	385.5	385.4	54
1.8	1.8	1.8	8.4	8.5	8.5	1.8	1.8	1.8	5.0	4.8	4.8	8.5	8.5	8.5	55
69.7	71.8	72.5	221.5	223.7	224.9	56.9	57.0	57.1	146.8	145.4	146.8	132.4	133.6	133.7	56
3.8	3.8	3.8	18.7	20.5	20.7	4.1	4.2	4.2	14.1	14.6	14.7	27.7	28.9	28.9	57
3.1	3.1	3.2	16.2	17.0	17.2	4.6	4.8	4.8	10.5	10.6	10.8	18.7	18.7	18.7	58
4.4	4.4	4.4	18.5	18.6	18.7	5.5	5.7	5.8	14.7	15.4	15.5	30.0	30.3	30.1	59
7.6	7.5	7.0	17.8	18.1	18.1	3.7	3.8	3.8	13.2	13.0	13.1	14.9	15.4	15.6	60



**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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
1 HAWAII .....	357.0	359.0	362.0	(1)	(1)	(1)	20.1	19.0	19.3	22.0	23.2	22.8
2 Honolulu .....	296.9	298.1	300.9	(1)	(1)	(1)	16.6	16.1	16.3	16.0	16.8	16.7
3 IDAHO .....	295.5	301.4	305.0	3.3	3.8	3.8	16.0	16.2	17.2	52.0	52.5	53.0
4 Boise City .....	68.3	71.2	72.6	(1)	(1)	(1)	5.0	5.5	6.0	7.0	7.4	7.5
5 ILLINOIS .....	4,534.9	4,589.3	4,608.9	26.6	12.8	12.9	151.5	146.7	152.4	1,228.3	1,239.1	1,240.8
6 Bloomington—Normal .....	48.0	49.7	50.0	(4)	(4)	(4)	1.0	.9	.9	7.5	7.8	8.0
7 Champaign—Urbana—Rantoul .....	66.9	66.3	65.6	(4)	(4)	(4)	2.3	2.4	2.5	6.3	6.5	6.4
8 Chicago—Gary .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
9 Chicago SMSA .....	3,066.6	3,105.4	3,116.4	4.3	4.2	4.3	95.8	104.3	105.4	831.3	844.5	847.2
10 Davenport—Rock Island—Moline .....	155.5	155.8	154.9	(4)	(4)	(4)	6.1	6.0	6.2	48.1	48.6	47.0
11 Decatur .....	55.2	55.3	55.6	(4)	(4)	(4)	3.2	3.3	3.4	18.7	18.4	18.4
12 Peoria .....	144.7	147.5	148.2	(4)	(4)	(4)	7.8	7.3	7.7	50.5	52.1	52.2
13 Rockford .....	113.7	117.4	117.3	(4)	(4)	(4)	2.7	2.7	2.9	51.7	53.9	53.4
14 Springfield .....	79.8	83.4	84.3	(4)	(4)	(4)	3.9	3.7	4.0	7.0	9.5	9.4
15 INDIANA .....	2,042.2	2,086.6	2,107.3	7.9	4.6	4.7	78.3	74.2	79.1	691.2	715.1	715.0
16 Anderson .....	51.0	51.9	(*)	(1)	(1)	(*)	1.0	.9	(*)	25.4	26.0	(*)
17 Evansville .....	116.2	115.2	(*)	2.3	1.0	(*)	5.7	5.4	(*)	37.3	38.2	(*)
18 Fort Wayne .....	160.8	160.1	(*)	(1)	(1)	(*)	5.9	5.5	(*)	58.6	58.1	(*)
19 Gary—Hammond—East Chicago .....	239.6	243.7	243.7	(1)	(1)	(1)	13.1	12.7	12.9	97.9	99.2	98.3
20 Indianapolis .....	466.2	481.3	(*)	(1)	(1)	(*)	16.8	15.8	(*)	114.6	126.6	(*)
21 Lafayette—West Lafayette .....	53.2	54.4	(*)	(1)	(1)	(*)	2.3	1.4	(*)	10.9	11.5	(*)
22 Muncie .....	48.1	49.1	(*)	(1)	(1)	(*)	1.9	1.5	(*)	14.7	14.7	(*)
23 South Bend .....	104.7	105.4	(*)	(1)	(1)	(*)	3.9	3.8	(*)	32.7	33.1	(*)
24 Terre Haute .....	58.8	58.5	(*)	1.1	.2	(*)	2.0	1.8	(*)	15.3	15.4	(*)
25 IOWA .....	1,056.4	1,062.9	(*)	2.1	1.9	(*)	47.8	43.9	(*)	240.5	241.9	(*)
26 Cedar Rapids .....	77.7	79.3	79.4	(1)	(1)	(1)	3.2	2.6	2.7	27.3	28.1	28.1
27 Des Moines .....	169.4	165.8	166.4	(1)	(1)	(1)	7.4	5.7	5.8	25.9	25.1	24.7
28 Dubuque .....	42.0	42.9	42.7	(1)	(1)	(1)	1.4	1.5	1.5	16.1	16.5	16.3
29 Sioux City .....	51.8	51.1	51.0	(1)	(1)	(1)	3.5	3.2	3.3	11.6	10.0	10.1
30 Waterloo—Cedar Falls .....	62.5	61.1	61.2	(1)	(1)	(1)	2.3	2.3	2.4	21.6	20.7	20.7
31 KANSAS .....	855.3	867.3	878.7	11.4	12.0	12.2	42.8	34.8	39.9	169.9	176.3	178.5
32 Topeka .....	80.7	82.4	83.0	.2	.2	.2	3.3	2.6	2.8	11.2	11.6	11.7
33 Wichita .....	177.5	179.5	181.3	1.6	2.0	2.2	8.7	7.0	8.2	51.3	55.4	55.6
34 KENTUCKY .....	1,116.1	1,144.5	1,158.9	47.3	23.7	24.3	49.7	53.2	56.9	275.5	290.1	289.3
35 Lexington—Fayette .....	129.7	133.9	135.1	(1)	(1)	(1)	6.1	6.4	7.2	29.7	31.6	31.1
36 Louisville .....	356.5	377.1	382.7	(1)	(1)	(1)	15.1	16.0	17.7	102.1	109.5	110.7
37 Owensboro .....	27.3	28.7	(*)	.5	.5	(*)	1.4	1.7	(*)	7.1	7.4	(*)
38 LOUISIANA .....	1,331.3	1,350.6	1,352.9	64.9	66.3	66.4	106.7	104.2	105.3	195.4	199.8	199.9
39 Alexandria .....	46.5	46.2	46.6	(1)	(1)	(1)	3.0	2.5	2.6	5.9	5.9	5.9
40 Baton Rouge .....	174.2	178.3	178.7	1.0	.8	.8	22.6	21.8	21.7	23.8	24.2	24.2
41 Lafayette .....	55.7	56.5	56.9	8.9	9.2	9.4	4.6	4.7	4.9	2.9	3.3	3.3
42 Lake Charles .....	50.6	52.8	(*)	1.4	1.5	(*)	5.2	5.2	(*)	9.4	11.8	(*)
43 Monroe .....	45.6	46.5	46.9	.3	.3	.3	4.2	4.7	4.9	7.6	7.9	8.0
44 New Orleans .....	442.5	454.2	455.5	14.2	13.9	14.0	26.1	26.1	26.3	50.3	50.5	50.8
45 Shreveport .....	132.1	134.4	135.1	4.7	4.5	4.6	8.4	8.5	8.6	27.2	28.3	28.4
46 MAINE .....	368.5	383.1	384.3	(1)	(1)	(1)	16.0	16.4	16.4	102.3	107.9	107.9
47 Lewiston—Auburn .....	31.9	33.1	33.3	(1)	(1)	(1)	1.1	1.2	1.2	12.0	12.1	12.2
48 Portland .....	79.0	82.5	82.9	(1)	(1)	(1)	3.1	3.4	3.4	15.3	16.2	16.3
49 MARYLAND .....	1,501.4	1,516.5	1,531.3	1.4	.7	1.4	80.6	76.0	78.4	233.0	233.8	235.2
50 Baltimore .....	853.7	861.3	868.2	(1)	(1)	(1)	38.0	35.5	36.7	160.7	160.6	161.6
51 MASSACHUSETTS .....	2,324.1	2,362.8	(*)	(1)	(1)	(*)	60.5	53.0	(*)	604.4	614.5	(*)
52 Boston .....	1,261.9	1,269.4	(*)	(1)	(1)	(*)	35.6	31.9	(*)	257.4	259.0	(*)
53 Brockton .....	50.1	51.6	(*)	-	-	(*)	1.2	1.1	(*)	11.9	12.0	(*)
54 Fall River .....	50.3	52.1	(*)	(1)	(1)	(*)	1.0	.9	(*)	20.3	20.9	(*)
55 Lawrence—Haverhill .....	94.8	99.6	(*)	(1)	(1)	(*)	2.0	2.0	(*)	36.4	38.4	(*)
56 Lowell .....	61.6	63.4	(*)	(1)	(1)	(*)	1.9	1.8	(*)	21.2	22.7	(*)
57 New Bedford .....	59.6	60.4	(*)	(1)	(1)	(*)	1.3	1.3	(*)	24.8	24.9	(*)
58 Springfield—Chicopee—Holyoke .....	212.7	217.4	(*)	(1)	(1)	(*)	4.3	4.2	(*)	62.1	65.4	(*)
59 Worcester .....	147.1	150.0	(*)	(1)	(1)	(*)	3.1	2.8	(*)	44.9	45.5	(*)
60 MICHIGAN .....	3,333.1	3,448.6	3,479.8	10.8	13.2	13.1	99.9	113.4	119.2	1,090.9	1,121.6	1,130.8
61 Ann Arbor .....	122.4	130.2	129.7	(1)	(1)	(1)	2.0	2.3	2.4	35.7	42.2	42.1
62 Battle Creek .....	63.9	64.8	65.3	(1)	(1)	(1)	1.0	1.1	1.3	23.2	23.2	23.3

**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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	
28.1	28.2	28.4	90.9	91.4	92.0	24.3	24.8	25.0	84.7	86.5	87.0	86.9	85.9	87.5	1
23.2	23.3	23.5	76.3	76.6	77.0	21.5	22.0	22.2	68.8	70.3	70.8	74.5	73.0	74.4	2
17.3	18.0	18.2	74.5	75.6	76.4	16.0	16.2	16.2	50.5	53.0	53.6	65.9	66.1	66.6	3
4.1	4.4	4.5	18.1	19.0	19.4	5.5	6.0	6.0	11.7	12.5	12.6	16.9	16.4	16.6	4
270.1	272.4	273.3	1,036.8	1,043.1	1,046.1	263.0	270.3	271.0	823.9	851.0	853.6	734.7	754.0	758.8	5
2.9	3.0	3.0	10.8	11.5	11.5	6.9	7.2	7.2	7.6	7.7	7.8	11.4	11.7	11.7	6
2.4	2.5	2.5	14.6	14.4	14.5	2.1	2.2	2.2	9.6	9.7	9.6	29.6	28.8	27.8	7
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	8
186.8	189.5	189.9	717.5	709.6	709.1	200.8	203.9	204.4	602.2	607.9	611.1	427.9	441.4	445.1	9
7.4	7.4	7.5	37.8	38.2	38.5	6.5	6.5	6.5	23.7	23.9	24.0	25.9	25.3	25.2	10
4.5	4.4	4.4	11.6	11.7	11.7	2.3	2.4	2.4	9.5	9.6	9.7	5.3	5.5	5.5	11
7.6	7.9	7.9	33.3	34.0	34.1	6.7	6.9	6.9	24.9	26.3	26.4	13.9	13.1	13.0	12
4.4	4.7	4.7	22.9	23.8	23.9	3.5	3.8	3.7	16.4	16.9	16.5	12.1	12.3	12.2	13
5.1	4.7	4.9	16.0	17.6	17.8	6.5	6.7	6.8	16.2	16.4	16.5	25.0	24.7	24.9	14
103.0	104.5	105.7	440.1	452.6	459.7	91.5	92.6	93.2	290.7	290.3	293.7	339.5	352.7	356.2	15
1.4	1.4	(*)	9.5	9.8	(*)	1.5	1.6	(*)	6.3	6.4	(*)	5.9	5.8	(*)	16
6.3	6.2	(*)	27.1	27.4	(*)	3.9	3.9	(*)	21.1	21.0	(*)	12.5	12.1	(*)	17
10.2	10.0	(*)	37.4	37.2	(*)	8.9	9.2	(*)	24.4	24.7	(*)	15.4	15.4	(*)	18
14.0	14.1	14.1	45.2	47.4	47.8	8.2	8.6	8.6	31.2	32.1	32.3	30.0	29.6	29.7	19
29.3	29.0	(*)	115.1	116.5	(*)	33.3	33.5	(*)	73.6	74.5	(*)	83.5	85.4	(*)	20
1.5	1.5	(*)	10.0	10.3	(*)	2.5	2.7	(*)	7.5	7.8	(*)	18.5	19.2	(*)	21
2.0	2.0	(*)	10.5	11.3	(*)	1.4	1.5	(*)	6.7	7.0	(*)	10.9	11.1	(*)	22
5.0	5.1	(*)	24.4	24.8	(*)	4.9	4.8	(*)	21.9	22.0	(*)	11.9	11.8	(*)	23
4.0	3.8	(*)	14.0	14.7	(*)	1.9	2.0	(*)	8.5	8.7	(*)	12.0	11.9	(*)	24
53.6	53.0	(*)	268.7	266.3	(*)	50.5	51.5	(*)	186.8	190.0	(*)	206.4	214.5	(*)	25
3.6	3.9	3.9	16.7	15.9	15.8	3.8	3.8	3.9	13.8	13.5	13.5	9.3	11.5	11.6	26
10.6	10.5	10.5	44.7	44.4	44.4	18.1	18.6	18.7	34.1	34.2	34.8	28.6	27.3	27.4	27
1.7	1.7	1.7	8.9	9.1	9.1	1.2	1.2	1.2	8.7	9.1	9.1	3.9	3.7	3.7	28
3.6	3.6	3.6	13.4	13.2	13.2	2.6	2.6	2.6	10.7	11.1	10.8	6.5	7.4	7.4	29
2.5	2.3	2.2	13.5	12.9	12.8	1.8	1.7	1.8	9.8	9.8	9.8	11.0	11.4	11.5	30
57.3	58.0	58.2	204.5	207.5	209.5	42.2	42.7	43.0	146.9	152.6	154.0	180.3	183.4	183.4	31
7.2	7.6	7.6	17.4	17.8	17.8	5.7	5.6	5.7	14.7	15.2	15.4	21.1	21.8	21.8	32
9.9	10.0	10.0	40.4	40.4	40.1	8.9	8.9	9.0	34.3	33.5	33.7	22.6	22.3	22.5	33
63.4	64.2	65.0	231.7	251.7	257.1	44.5	49.4	49.7	181.5	185.5	186.6	222.5	226.7	230.0	34
6.0	6.3	6.5	28.5	30.2	30.6	6.0	6.3	6.3	22.7	23.2	23.4	30.7	29.9	30.0	35
22.9	23.8	24.1	78.3	81.0	81.5	19.9	21.1	21.3	66.1	69.1	70.1	52.0	56.7	57.4	36
2.0	2.0	(*)	6.5	6.9	(*)	1.1	1.2	(*)	4.5	4.8	(*)	4.2	4.2	(*)	37
102.2	103.5	104.2	313.7	322.7	322.7	63.9	66.2	66.4	225.1	227.8	228.2	259.4	260.1	259.8	38
2.3	2.3	2.3	10.8	10.4	10.6	2.7	2.6	2.6	8.8	8.8	8.8	13.0	13.7	13.8	39
8.3	8.6	8.6	36.5	36.8	37.1	9.8	10.5	10.5	26.0	26.4	26.5	46.2	49.2	49.3	40
4.1	4.1	4.0	14.9	15.4	15.3	1.7	1.9	1.9	9.5	9.1	9.3	9.1	8.8	8.8	41
2.9	2.7	(*)	12.2	12.4	(*)	2.1	2.2	(*)	8.4	8.3	(*)	9.0	8.7	(*)	42
2.3	2.3	2.3	11.9	11.5	11.5	3.0	3.1	3.0	6.9	7.0	7.1	9.4	9.7	9.8	43
45.7	47.0	47.4	116.3	118.8	118.9	27.0	27.4	27.4	93.7	97.3	97.3	69.2	73.2	73.4	44
9.3	9.2	9.3	33.3	34.3	34.4	6.1	6.1	6.1	22.2	22.1	22.3	20.9	21.4	21.4	45
17.4	17.6	17.3	77.6	80.0	81.0	14.7	14.8	14.8	62.0	64.9	65.2	78.5	81.5	81.7	46
1.1	1.0	1.0	7.2	7.7	7.8	1.3	1.4	1.4	6.2	6.5	6.5	3.0	3.2	3.2	47
4.8	5.0	4.9	20.7	21.7	21.6	6.4	6.6	6.6	15.7	16.2	16.4	13.0	13.4	13.7	48
78.1	77.8	78.5	357.9	359.3	364.5	80.6	81.7	82.2	288.1	299.1	301.4	381.7	388.1	389.7	49
53.2	52.9	53.5	195.2	196.8	199.0	49.4	50.2	50.5	160.3	166.3	167.3	196.9	199.0	199.6	50
111.3	112.3	(*)	521.1	531.6	(*)	135.1	135.9	(*)	519.7	536.3	(*)	372.0	379.2	(*)	51
66.9	66.9	(*)	293.1	293.0	(*)	93.6	95.2	(*)	324.1	328.4	(*)	191.2	195.0	(*)	52
3.8	3.9	(*)	13.7	13.9	(*)	1.8	1.8	(*)	8.3	8.5	(*)	9.4	10.4	(*)	53
1.9	1.8	(*)	10.5	11.1	(*)	2.3	2.3	(*)	8.5	8.6	(*)	5.8	6.5	(*)	54
3.5	3.6	(*)	19.1	20.0	(*)	3.6	3.7	(*)	13.8	15.0	(*)	16.4	16.9	(*)	55
3.1	3.1	(*)	13.3	13.5	(*)	1.9	1.9	(*)	9.7	10.0	(*)	10.5	10.4	(*)	56
2.6	2.5	(*)	11.4	11.5	(*)	1.7	1.8	(*)	9.8	10.2	(*)	8.0	8.2	(*)	57
8.7	8.9	(*)	43.8	44.4	(*)	10.8	11.0	(*)	38.3	39.9	(*)	44.7	43.6	(*)	58
6.7	6.4	(*)	31.6	32.2	(*)	8.1	8.1	(*)	28.4	29.0	(*)	24.3	26.0	(*)	59
144.1	148.4	149.6	676.9	690.2	693.7	137.0	141.5	142.2	556.4	584.2	587.8	617.1	636.0	643.5	60
2.1	2.2	2.2	16.8	17.9	17.7	3.4	3.6	3.6	17.6	18.2	17.8	40.8	43.8	43.9	61
2.1	2.1	2.1	10.6	10.8	10.9	3.5	3.5	3.5	11.0	11.4	11.5	12.5	12.7	12.7	62

**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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>MICHIGAN—Continued</b>												
1 Bay City	33.4	35.7	35.5	(1)	(1)	(1)	1.0	1.4	1.4	10.3	11.1	11.0
2 Detroit	1,650.8	1,693.8	1,714.3	1.1	1.1	1.1	49.7	56.0	58.8	563.3	567.7	577.6
3 Flint	185.9	195.9	195.6	(1)	(1)	(1)	4.9	5.7	5.6	81.2	85.6	85.8
4 Grand Rapids	231.4	240.9	242.5	(1)	(1)	(1)	8.0	8.6	8.9	79.9	86.3	86.1
5 Jackson	49.1	50.9	51.4	(1)	(1)	(1)	.9	1.1	1.1	15.3	16.1	16.0
6 Kalamazoo-Portage	102.8	104.7	104.8	(1)	(1)	(1)	3.3	3.4	3.7	34.5	35.2	35.2
7 Lansing-East Lansing	176.5	183.5	184.2	(1)	(1)	(1)	3.8	3.9	4.1	40.5	42.3	41.3
8 Muskegon-Norton Shores-Musk. Hgts	58.5	58.8	59.5	(1)	(1)	(1)	2.1	2.1	2.1	22.2	22.2	22.4
9 Saginaw	83.4	89.5	89.7	(1)	(1)	(1)	2.0	2.2	2.3	33.9	37.1	37.2
10 MINNESOTA	1,536.8	1,611.2	1,625.4	14.8	13.7	15.1	51.4	61.4	63.7	324.9	342.6	344.5
11 Duluth-Superior	56.0	57.3	57.6	(1)	(1)	(1)	2.0	1.9	2.0	7.6	8.0	8.1
12 Minneapolis-St. Paul	937.0	977.3	984.6	(1)	(1)	(1)	28.6	35.3	36.4	214.1	225.6	227.4
13 MISSISSIPPI	739.9	771.8	778.0	7.3	7.6	7.6	37.7	39.2	40.4	222.4	231.7	233.5
14 Jackson	124.7	130.9	131.7	1.0	1.1	1.1	6.6	6.9	7.1	18.2	18.3	18.5
15 MISSOURI	1,815.6	1,826.0	1,851.0	8.2	5.8	6.3	70.3	64.5	69.1	430.9	436.9	443.6
16 Kansas City	566.7	570.8	578.7	.6	.5	.5	22.8	19.0	21.7	115.3	120.9	121.9
17 St. Joseph	35.4	36.5	36.9	(4)	(4)	(4)	1.8	1.8	1.9	8.9	9.4	9.3
18 St. Louis	918.8	909.3	925.8	2.6	1.5	1.6	34.7	29.6	31.3	246.3	240.1	250.6
19 Springfield	76.6	75.6	76.8	.1	.1	.1	3.5	2.7	3.1	18.6	18.0	18.0
20 MONTANA	251.0	262.4	(*)	5.8	6.4	(*)	12.5	13.2	(*)	23.6	23.6	(*)
21 Billings	41.6	41.9	(*)	(1)	(1)	(*)	2.3	2.4	(*)	3.5	3.4	(*)
22 Great Falls	28.4	29.2	(*)	(1)	(1)	(*)	1.8	1.4	(*)	1.9	1.6	(*)
23 NEBRASKA	578.5	576.6	582.2	1.6	1.4	1.5	28.2	23.6	24.4	88.7	90.5	91.5
24 Lincoln	92.3	89.5	90.4	-	-	-	3.9	3.6	3.6	13.6	13.1	13.2
25 Omaha	247.1	249.6	251.5	(4)	(4)	(4)	11.3	9.2	9.7	34.4	35.0	35.1
26 NEVADA	295.6	317.8	322.1	4.2	4.2	4.2	17.6	21.2	22.0	14.5	15.8	15.9
27 Las Vegas	163.7	172.8	175.3	.2	.2	.2	9.7	10.9	11.3	5.5	5.7	5.7
28 Reno	83.9	93.4	94.3	.5	.6	.6	5.8	7.7	8.0	6.4	7.3	7.3
29 NEW HAMPSHIRE	314.8	345.8	347.9	.3	.3	.3	12.0	17.7	18.2	97.1	104.8	105.1
30 Manchester	61.5	68.9	69.1	(4)	(4)	(4)	2.2	2.6	2.6	17.6	19.5	19.5
31 Nashua	46.7	50.0	50.4	(4)	(4)	(4)	1.3	2.0	2.1	21.3	22.1	22.2
32 NEW JERSEY	(3)	2,832.3	(*)	(3)	2.7	(*)	(3)	83.4	(*)	(3)	772.0	(*)
33 Atlantic City	(3)	60.9	(*)	(3)	-	(*)	(3)	2.6	(*)	(3)	7.7	(*)
34 Camden	(3)	304.0	(*)	(3)	.1	(*)	(3)	9.0	(*)	(3)	68.2	(*)
35 Hackensack <sup>8</sup>	(3)	367.4	(*)	(3)	(1)	(*)	(3)	10.6	(*)	(3)	108.5	(*)
36 Jersey City <sup>8</sup>	(3)	228.9	(*)	(3)	-	(*)	(3)	4.0	(*)	(3)	71.4	(*)
37 Long Branch-Asbury Park	(3)	142.2	(*)	(3)	(1)	(*)	(3)	5.0	(*)	(3)	23.3	(*)
38 New Bruns-Perth Amboy-Sayreville <sup>9</sup>	(3)	262.0	(*)	(3)	(1)	(*)	(3)	6.7	(*)	(3)	87.7	(*)
39 Newark <sup>8</sup>	(3)	890.0	(*)	(3)	1.1	(*)	(3)	26.0	(*)	(3)	244.8	(*)
40 Paterson-Clifton-Passaic <sup>8</sup>	(3)	182.1	(*)	(3)	(1)	(*)	(3)	3.7	(*)	(3)	65.5	(*)
41 Trenton	(3)	158.1	(*)	(3)	(1)	(*)	(3)	2.1	(*)	(3)	38.6	(*)
42 Vineland-Millville-Bridgeton	(3)	55.6	(*)	(3)	(1)	(*)	(3)	1.3	(*)	(3)	19.6	(*)
43 NEW MEXICO	401.2	424.8	430.5	22.8	23.9	24.2	27.9	29.5	30.6	31.4	32.8	32.8
44 Albuquerque	159.8	169.7	171.9	(1)	(1)	(1)	11.1	12.1	12.4	15.9	16.9	16.9
45 NEW YORK	6,699.4	6,793.1	(*)	6.3	6.7	(*)	159.2	172.9	(*)	1,441.2	1,456.1	(*)
46 Albany-Schenectady-Troy	312.2	319.0	(*)	(1)	(1)	(*)	8.0	8.5	(*)	61.7	63.4	(*)
47 Binghamton	108.7	111.0	(*)	(1)	(1)	(*)	2.9	3.5	(*)	39.8	40.5	(*)
48 Buffalo	486.2	492.3	(*)	(1)	(1)	(*)	14.1	15.0	(*)	144.9	142.9	(*)
49 Elmira	35.6	36.5	(*)	(1)	(1)	(*)	1.0	1.3	(*)	11.3	11.5	(*)
50 Moroe County <sup>9</sup>	317.0	319.6	(*)	(1)	(1)	(*)	7.5	7.8	(*)	128.6	127.3	(*)
51 Nassau-Suffolk <sup>10</sup>	801.6	820.8	(*)	(1)	(1)	(*)	27.2	27.6	(*)	148.3	152.0	(*)
52 New York-Northeastern New Jersey	(3)	6,295.5	(*)	(3)	3.6	(*)	(3)	153.6	(*)	(3)	1,347.6	(*)
53 New York and Nassau-Suffolk <sup>8</sup>	4,342.4	4,368.2	(*)	1.9	1.8	(*)	100.1	102.7	(*)	767.4	769.3	(*)
54 New York SMSA <sup>10</sup>	3,540.9	3,547.4	(*)	1.7	1.6	(*)	72.9	75.1	(*)	619.1	617.3	(*)
55 New York City <sup>11</sup>	3,153.5	3,147.7	(*)	1.5	1.5	(*)	61.1	63.0	(*)	538.6	533.7	(*)
56 Poughkeepsie	85.1	88.4	(*)	(1)	(1)	(*)	2.0	2.2	(*)	27.8	29.5	(*)
57 Rochester	386.7	390.4	(*)	(1)	(1)	(*)	8.9	9.6	(*)	147.0	146.1	(*)
58 Rockland County <sup>11</sup>	72.7	74.4	(*)	(1)	(1)	(*)	1.5	1.5	(*)	14.9	15.0	(*)
59 Syracuse	237.6	248.2	(*)	(1)	(1)	(*)	8.2	9.5	(*)	56.7	58.4	(*)
60 Utica-Rome	107.3	111.4	(*)	(1)	(1)	(*)	1.8	2.1	(*)	29.2	30.8	(*)
61 Westchester County <sup>11</sup>	303.8	314.4	(*)	(1)	(1)	(*)	9.8	10.1	(*)	64.4	67.4	(*)

**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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	
1.8	2.1	2.0	8.4	8.7	8.8	1.1	1.1	1.1	5.7	6.2	6.1	5.1	5.1	5.1	1
78.5	81.4	81.8	324.0	333.6	336.5	80.3	81.8	82.4	299.3	314.2	316.1	254.9	258.0	260.1	2
5.9	6.1	5.9	35.9	38.1	38.1	5.3	5.5	5.6	24.6	27.0	26.7	28.1	27.9	27.8	3
9.5	9.7	9.7	53.1	53.9	54.5	8.5	8.6	8.6	42.8	43.0	43.6	29.6	30.8	31.1	4
4.4	4.3	4.9	9.7	9.8	9.8	1.5	1.5	1.5	8.7	5.3	9.4	8.6	8.8	8.7	5
3.3	3.4	3.5	19.5	19.4	19.4	3.4	3.7	3.7	17.2	17.5	17.5	21.6	22.1	21.8	6
4.2	4.4	4.4	31.4	32.7	33.1	8.2	8.6	8.6	23.7	24.4	24.6	64.7	67.2	68.1	7
3.0	3.0	3.0	10.4	10.6	10.8	1.7	1.7	1.7	8.4	8.5	8.6	10.7	10.7	10.9	8
3.9	4.0	4.0	16.6	17.6	17.5	3.8	3.9	3.9	11.4	12.4	12.3	11.9	12.3	12.5	9
90.5	93.2	93.6	385.9	404.4	409.1	80.1	85.1	85.6	301.6	316.3	319.4	287.6	294.5	294.3	10
5.4	5.6	5.5	15.1	16.0	16.1	2.0	2.1	2.1	12.0	11.8	11.9	11.9	11.8	11.9	11
59.0	61.5	61.5	231.3	240.4	242.5	60.1	62.6	62.9	193.3	200.3	202.0	150.7	151.6	151.8	12
34.8	36.5	36.6	143.7	151.4	153.2	28.9	30.7	30.7	105.4	110.3	111.3	159.8	164.3	164.6	13
7.7	8.1	8.2	29.2	32.3	32.8	9.5	10.1	10.1	24.2	25.2	25.2	28.3	28.8	28.9	14
126.2	129.8	131.8	430.6	432.7	437.6	94.6	95.2	95.5	327.8	332.8	336.5	327.0	328.3	330.6	15
49.7	50.1	50.7	144.7	145.4	147.0	37.2	37.2	37.4	109.3	109.8	111.4	87.1	87.9	88.1	16
2.6	2.6	2.7	9.0	8.6	8.5	1.8	1.9	1.8	5.7	6.0	6.5	5.6	6.2	6.2	17
63.3	65.0	65.7	204.8	205.3	206.0	49.3	49.5	49.7	182.1	181.0	182.6	135.7	137.3	138.3	18
5.6	5.7	5.7	20.1	20.4	20.8	2.9	2.9	2.9	14.9	15.2	15.4	10.9	10.6	10.8	19
19.6	20.6	(*)	62.9	65.5	(*)	10.9	11.8	(*)	47.1	48.2	(*)	68.6	72.9	(*)	20
3.5	3.8	(*)	13.6	13.8	(*)	2.0	2.1	(*)	8.1	8.2	(*)	8.6	8.2	(*)	21
1.8	1.7	(*)	8.8	9.9	(*)	1.8	1.9	(*)	6.3	6.5	(*)	6.1	6.2	(*)	22
41.2	41.8	42.4	153.0	153.6	154.8	37.2	38.4	38.6	100.8	100.5	101.1	127.7	126.8	128.0	23
6.4	6.5	6.6	19.9	20.1	20.2	6.6	6.8	6.8	14.8	15.1	15.4	27.5	24.4	24.7	24
21.1	21.9	22.2	63.1	63.2	63.5	21.4	22.1	22.3	51.0	52.6	52.9	44.8	45.5	45.8	25
18.2	19.1	19.3	58.5	63.1	63.9	12.1	13.5	13.6	121.6	129.4	131.3	48.9	51.5	51.9	26
10.3	10.7	10.9	33.4	35.8	36.3	6.4	7.1	7.1	76.5	79.6	80.8	21.7	22.8	23.0	27
5.7	6.0	6.0	17.5	19.3	19.3	4.6	5.1	5.1	29.5	32.9	33.3	13.9	14.5	14.7	28
12.0	12.4	12.5	68.2	74.4	75.0	15.7	17.1	17.2	58.1	63.7	63.7	51.4	55.4	55.9	29
3.9	4.0	4.0	14.7	17.7	17.8	4.5	5.0	5.1	11.3	11.8	11.7	7.3	8.3	8.4	30
1.7	1.7	1.7	9.5	9.9	9.9	1.5	1.7	1.7	6.8	7.5	7.6	4.6	5.1	5.2	31
(3)	185.6	(*)	(3)	624.0	(*)	(3)	146.4	(*)	(3)	515.8	(*)	(3)	502.4	(*)	32
(3)	3.4	(*)	(3)	15.5	(*)	(3)	4.2	(*)	(3)	13.6	(*)	(3)	13.9	(*)	33
(3)	14.3	(*)	(3)	79.6	(*)	(3)	15.1	(*)	(3)	59.0	(*)	(3)	58.7	(*)	34
(3)	18.2	(*)	(3)	108.7	(*)	(3)	13.9	(*)	(3)	65.3	(*)	(3)	42.2	(*)	35
(3)	28.4	(*)	(3)	44.6	(*)	(3)	8.9	(*)	(3)	28.2	(*)	(3)	43.4	(*)	36
(3)	6.0	(*)	(3)	34.9	(*)	(3)	6.8	(*)	(3)	32.8	(*)	(3)	33.4	(*)	37
(3)	17.4	(*)	(3)	58.7	(*)	(3)	8.2	(*)	(3)	35.0	(*)	(3)	48.3	(*)	38
(3)	67.3	(*)	(3)	171.0	(*)	(3)	61.4	(*)	(3)	172.3	(*)	(3)	146.1	(*)	39
(3)	6.5	(*)	(3)	41.4	(*)	(3)	9.2	(*)	(3)	27.4	(*)	(3)	28.4	(*)	40
(3)	5.3	(*)	(3)	23.2	(*)	(3)	6.3	(*)	(3)	37.4	(*)	(3)	45.2	(*)	41
(3)	2.9	(*)	(3)	8.4	(*)	(3)	3.2	(*)	(3)	7.9	(*)	(3)	12.3	(*)	42
24.1	25.6	25.8	90.9	97.7	98.6	17.7	18.6	18.9	75.0	82.5	83.9	111.4	114.2	115.7	43
9.1	9.7	9.8	40.9	43.3	43.7	9.0	9.6	9.7	36.1	38.4	39.0	37.7	39.7	40.4	44
422.8	422.3	(*)	1,390.0	1,402.1	(*)	572.6	575.2	(*)	1,458.7	1,478.6	(*)	1,248.7	1,279.2	(*)	45
15.3	14.8	(*)	61.7	63.3	(*)	14.1	14.4	(*)	60.7	61.5	(*)	90.8	93.1	(*)	46
4.5	4.7	(*)	20.3	20.6	(*)	3.5	3.6	(*)	15.0	15.9	(*)	22.6	22.8	(*)	47
24.8	26.7	(*)	107.1	108.4	(*)	20.8	21.3	(*)	88.3	90.6	(*)	86.3	87.4	(*)	48
1.4	1.4	(*)	7.8	8.1	(*)	1.0	1.0	(*)	6.3	6.4	(*)	6.8	6.9	(*)	49
10.1	9.9	(*)	58.2	59.5	(*)	13.9	14.2	(*)	60.1	61.5	(*)	38.6	39.4	(*)	50
35.2	34.9	(*)	213.0	217.6	(*)	45.1	45.4	(*)	166.5	167.1	(*)	166.3	176.2	(*)	51
(3)	448.6	(*)	(3)	1,346.5	(*)	(3)	579.2	(*)	(3)	1,362.2	(*)	(3)	1,054.2	(*)	52
317.4	311.7	(*)	918.8	921.4	(*)	475.9	476.9	(*)	1,030.0	1,036.1	(*)	730.9	748.2	(*)	53
282.2	276.8	(*)	705.8	703.8	(*)	430.8	431.5	(*)	863.7	869.2	(*)	564.6	572.0	(*)	54
260.3	255.1	(*)	615.8	609.9	(*)	412.2	412.6	(*)	772.8	776.1	(*)	491.2	495.8	(*)	55
2.9	2.9	(*)	14.2	14.8	(*)	2.5	2.4	(*)	14.8	15.1	(*)	20.9	21.7	(*)	56
12.9	12.7	(*)	73.8	75.0	(*)	15.3	15.7	(*)	70.3	71.4	(*)	58.5	60.0	(*)	57
3.5	3.6	(*)	15.5	15.8	(*)	2.2	2.2	(*)	15.7	15.9	(*)	19.5	20.4	(*)	58
13.4	13.7	(*)	53.0	54.6	(*)	14.5	14.7	(*)	45.7	45.2	(*)	46.2	48.0	(*)	59
3.8	3.9	(*)	20.0	20.8	(*)	5.2	5.3	(*)	18.3	19.1	(*)	29.0	29.5	(*)	60
17.7	17.5	(*)	71.7	75.0	(*)	16.0	16.3	(*)	73.2	75.1	(*)	51.0	52.9	(*)	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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
1	NORTH CAROLINA	2,100.2	2,159.6	2,173.3	4.7	4.8	4.9	101.2	99.8	105.5	763.5	790.9	789.1
2	Asheville	62.5	64.7	65.7	(1)	(1)	(1)	3.1	2.6	2.9	20.4	21.4	21.4
3	Charlotte—Gastonia	286.0	294.6	295.6	(1)	(1)	(1)	13.1	13.4	13.8	82.5	85.7	85.2
4	Greensboro—Winston-Salem—High Pt	350.0	354.8	357.2	(1)	(1)	(1)	14.8	13.9	14.7	139.2	143.0	142.8
5	Raleigh—Durham	225.2	233.1	233.1	(1)	(1)	(1)	10.3	10.5	10.8	36.2	37.1	37.0
6	NORTH DAKOTA	213.7	221.3	222.8	2.6	2.9	3.1	13.0	13.8	13.8	15.0	14.8	14.9
7	Fargo—Moorhead	56.1	59.1	59.0	(4)	(4)	(4)	3.0	3.3	3.3	4.9	4.8	4.7
8	OHIO	4,104.1	4,191.9	4,228.4	28.5	16.8	17.0	137.3	136.1	146.7	1,310.4	1,353.8	1,352.1
9	Akron	252.9	257.4	259.4	.3	.3	.3	6.1	6.0	6.6	84.4	84.3	84.9
10	Canton	142.2	148.0	149.7	.8	.8	.8	4.8	4.7	5.2	51.4	55.5	55.7
11	Cincinnati	543.2	560.3	566.0	.4	.4	.4	21.0	20.6	22.2	156.4	163.2	162.6
12	Cleveland	859.8	878.6	885.6	1.5	1.3	1.3	25.2	25.5	27.1	266.0	274.2	273.0
13	Columbus	455.4	468.1	470.9	.7	.7	.7	15.4	15.8	17.4	97.0	100.8	99.4
14	Dayton	333.6	345.5	347.9	.3	.4	.4	10.8	10.8	11.6	106.8	110.7	110.1
15	Toledo	283.4	293.6	297.0	.6	.6	.6	9.9	9.5	10.2	84.5	88.7	89.3
16	Youngstown—Warren	203.5	203.7	206.3	.3	.3	.3	6.2	6.0	6.7	80.3	78.6	78.5
17	OKLAHOMA	956.3	988.1	1,001.6	46.8	50.8	51.3	46.8	44.2	52.1	155.7	165.0	165.0
18	Oklahoma City	325.2	347.7	352.8	10.6	12.6	12.7	14.9	17.4	20.2	42.7	46.1	46.3
19	Tulsa	248.8	256.0	257.4	14.9	15.8	15.9	13.3	13.7	14.2	52.7	52.3	52.3
20	OREGON	897.9	946.7	958.7	1.5	1.6	1.8	36.3	40.5	41.5	193.8	207.0	209.4
21	Eugene—Springfield	92.8	96.8	97.5	(1)	(1)	(1)	4.0	4.6	4.6	20.0	19.5	19.6
22	Jackson County	-	-	-	-	-	-	-	-	-	7.2	7.4	7.4
23	Portland	473.9	502.3	509.4	(1)	(1)	(1)	20.0	22.3	23.2	95.6	104.4	106.5
24	Salem	75.7	80.1	(*)	(1)	(1)	(*)	3.7	4.8	(*)	11.1	11.4	(*)
25	PENNSYLVANIA	4,493.6	4,474.5	4,519.9	48.3	22.5	23.2	158.8	143.9	151.9	1,331.3	1,335.1	1,338.9
26	Allentown—Bethlehem—Easton	258.5	258.4	258.6	(1)	(1)	(1)	8.2	8.5	8.4	107.1	106.0	105.8
27	Altoona	50.1	50.6	51.7	(1)	(1)	(1)	2.0	2.2	2.3	12.6	12.1	12.7
28	Delaware Valley <sup>12</sup>	1,510.7	1,511.1	1,523.7	(1)	(1)	(1)	47.3	43.5	45.2	380.7	379.2	382.5
29	Erie	108.7	111.4	112.0	(1)	(1)	(1)	2.7	2.9	2.8	41.9	43.4	43.5
30	Harrisburg	204.0	203.5	205.5	(1)	(1)	(1)	8.6	6.9	7.5	39.0	39.7	40.0
31	Johnstown	87.5	75.6	76.2	8.7	1.4	1.4	2.4	2.3	2.4	21.9	18.2	17.9
32	Lancaster	137.0	138.5	140.6	(1)	(1)	(1)	6.6	5.9	6.2	55.1	57.0	57.5
33	Northeast Pennsylvania	227.5	225.5	228.3	1.3	1.3	1.4	10.4	8.4	8.9	71.2	69.2	70.1
34	Philadelphia SMSA	1,804.8	1,815.1	1,830.9	(1)	(1)	(1)	57.4	52.6	55.0	445.2	447.0	450.5
35	Philadelphia City <sup>13</sup>	794.3	792.4	798.9	(1)	(1)	(1)	14.8	13.9	14.3	155.1	154.6	156.4
36	Pittsburgh	892.7	882.2	887.7	11.7	1.1	1.1	37.7	34.8	39.0	244.9	243.1	241.7
37	Reading	131.4	133.9	134.7	(1)	(1)	(1)	4.0	4.3	4.3	50.5	52.9	53.0
38	Scranton <sup>14</sup>	81.6	80.4	81.3	(1)	(1)	(1)	2.0	1.7	1.9	26.4	26.2	26.5
39	Wilkes-Barre—Hazleton <sup>15</sup>	121.1	119.3	120.8	1.2	1.1	1.2	7.4	5.9	6.0	40.2	38.5	39.0
40	Williamsport	45.2	45.3	46.1	(1)	(1)	(1)	1.2	1.5	1.5	17.8	17.3	17.8
41	York	137.7	141.4	142.8	(1)	(1)	(1)	5.6	5.0	5.2	58.2	60.7	61.0
42	RHODE ISLAND	369.1	371.7	383.0	(1)	(1)	(1)	9.8	8.0	9.9	125.9	128.1	131.8
43	Providence—Warwick—Pawtucket	379.3	382.7	395.7	(1)	(1)	(1)	10.0	8.1	10.0	141.2	144.9	149.3
44	SOUTH CAROLINA	1,056.4	1,092.8	1,102.9	1.8	1.8	1.8	61.5	67.3	69.6	374.4	382.8	382.5
45	Charleston—North Charleston	126.9	133.6	133.9	(1)	(1)	(1)	9.7	10.6	10.6	17.4	18.1	18.2
46	Columbia	156.1	167.5	168.4	(1)	(1)	(1)	7.6	8.2	8.3	23.2	24.8	25.0
47	Greenville—Spartanburg	237.4	243.1	244.8	(1)	(1)	(1)	12.7	14.3	15.0	102.2	101.3	101.4
48	SOUTH DAKOTA	215.4	224.7	226.9	2.4	2.7	2.6	9.5	10.4	11.4	22.3	23.7	23.5
49	Rapid City	25.2	26.1	26.2	(4)	(4)	(4)	2.0	2.1	2.2	2.4	2.5	2.5
50	Sioux Falls	47.2	49.8	50.5	(4)	(4)	(4)	2.4	2.4	2.9	6.6	7.3	7.2
51	TENNESSEE	1,600.2	1,649.0	1,662.2	9.4	8.1	8.3	71.4	69.9	75.4	495.8	519.1	519.4
52	Chattanooga	160.8	162.8	163.5	1.2	1.1	1.1	5.4	5.5	5.7	54.9	55.1	55.2
53	Knoxville	180.8	183.5	184.5	1.6	1.6	1.6	9.9	10.3	10.9	51.3	52.2	52.2
54	Memphis	333.5	339.2	340.9	.1	.1	.1	13.4	13.6	13.9	59.5	61.4	62.1
55	Nashville—Davidson	326.1	332.2	334.7	(1)	(1)	(1)	17.0	16.0	16.7	80.9	82.5	83.0
56	TEXAS	4,808.3	4,968.9	5,015.2	149.3	163.3	165.1	335.4	333.1	348.5	880.2	924.9	930.0
57	Amarillo	67.9	69.3	69.1	(1)	(1)	(1)	4.2	4.6	4.8	8.8	8.8	8.2
58	Austin	197.4	208.1	209.9	(1)	(1)	(1)	11.0	11.8	12.2	21.7	23.7	24.0
59	Beaumont—Port Arthur—Orange	138.9	142.1	143.5	(1)	(1)	(1)	16.6	14.6	15.2	37.4	40.8	41.2
60	Corpus Christi	101.7	105.2	104.9	4.1	4.1	4.0	8.7	9.8	9.6	12.7	13.2	13.1
61	Dallas-Fort Worth	1,166.7	1,199.8	1,214.7	14.0	14.4	14.7	54.4	49.8	54.8	263.2	273.6	275.6
62	El Paso	138.7	140.3	140.6	(1)	(1)	(1)	7.9	8.3	8.4	28.3	28.6	28.3
63	Galveston—Texas City	65.8	69.3	69.1	(1)	(1)	(1)	4.9	5.0	5.3	11.7	11.6	11.0

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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
102.0	105.7	106.5	406.2	410.4	415.7	83.4	83.8	84.3	290.3	300.0	302.5	348.9	364.2	364.8
3.3	3.2	3.3	12.8	13.0	13.4	2.3	2.4	2.3	10.8	10.7	10.8	9.8	11.4	11.6
26.5	26.8	26.9	68.8	69.8	70.3	18.3	18.4	18.5	42.4	44.0	44.3	34.4	36.5	36.6
19.5	20.0	20.4	69.5	69.6	70.5	16.3	16.1	16.2	48.5	50.4	50.8	42.2	41.8	41.8
10.4	10.9	10.9	44.9	46.0	46.3	13.5	13.7	13.7	47.3	48.9	48.9	62.6	66.0	65.5
13.0	13.5	13.6	60.8	64.1	64.7	9.4	10.0	10.0	41.7	42.7	42.9	58.2	59.5	59.8
3.4	3.6	3.6	17.4	18.8	18.9	3.4	3.6	3.6	11.9	12.4	12.4	12.1	12.6	12.5
212.4	216.7	218.4	883.8	902.4	912.8	179.0	185.2	186.3	708.4	729.7	739.3	644.2	651.2	655.8
14.4	14.5	14.5	54.8	56.6	57.3	8.6	9.2	9.2	42.6	44.9	45.4	41.8	41.6	41.2
7.2	7.2	7.3	30.5	31.3	31.8	5.3	5.7	5.8	25.0	25.0	25.4	17.3	17.8	17.8
30.8	32.2	32.4	124.6	128.7	130.1	29.1	29.5	29.7	101.3	104.3	106.0	79.7	81.4	82.2
44.7	45.0	45.2	195.8	199.5	201.4	44.1	45.0	45.2	163.4	168.0	170.7	119.0	120.0	121.6
22.6	23.2	23.3	106.8	109.9	111.1	30.6	31.7	31.9	86.8	88.7	89.9	95.5	97.1	97.2
10.5	12.4	12.6	69.2	70.2	71.4	11.5	12.1	12.3	61.3	64.0	64.7	63.1	65.0	65.0
18.8	19.4	19.6	63.4	65.6	66.5	9.5	10.1	10.1	52.0	54.3	54.8	44.7	45.3	45.8
9.7	9.8	9.9	42.7	43.4	44.0	6.5	6.8	6.8	32.6	33.0	34.1	25.2	25.9	26.1
58.3	59.8	59.7	225.1	232.5	234.5	47.6	49.6	49.9	155.4	164.6	166.1	216.6	221.6	223.0
20.0	20.6	20.7	79.8	85.5	86.3	20.7	21.9	22.0	55.1	58.8	59.5	81.4	84.8	85.1
19.2	19.6	19.6	61.7	62.1	62.6	13.1	13.5	13.5	47.9	51.1	51.4	26.0	27.9	27.9
51.5	54.7	55.0	214.2	224.5	227.9	54.8	59.2	59.6	157.5	166.1	167.8	188.3	193.1	195.7
4.6	4.9	4.9	22.2	23.6	23.9	4.5	4.8	4.8	16.3	16.9	17.1	21.2	22.5	22.6
30.9	32.6	32.9	118.8	127.0	128.5	35.7	38.8	39.2	95.2	98.3	99.7	77.7	78.9	79.4
2.9	3.1	(*)	15.7	16.6	(*)	4.5	5.0	(*)	12.1	12.9	(*)	25.7	26.3	(*)
259.3	252.4	252.8	907.8	905.5	915.0	213.4	219.7	220.6	853.4	858.9	873.8	721.3	735.5	743.7
12.1	12.6	12.7	45.3	45.1	45.3	7.8	7.9	7.9	39.2	40.1	40.1	38.8	38.2	38.4
8.2	8.1	8.1	10.7	11.1	11.2	1.3	1.3	1.4	7.8	7.7	7.9	7.5	8.1	8.1
82.4	81.3	81.0	314.3	320.9	321.3	98.6	99.2	99.5	345.4	346.5	351.8	242.0	240.5	242.4
5.2	5.2	5.2	21.0	20.9	21.3	4.4	4.5	4.6	19.3	19.6	19.6	14.2	14.9	15.0
15.2	14.6	14.7	40.5	40.2	40.8	11.3	11.8	11.7	33.8	34.5	34.6	55.6	55.8	56.2
5.7	5.5	5.6	16.2	15.2	15.5	3.3	3.7	3.7	14.9	15.1	15.4	14.4	14.2	14.3
5.9	6.3	6.4	29.4	28.9	29.3	4.3	4.4	4.4	21.6	21.5	21.9	14.1	14.5	14.9
12.1	12.5	12.5	47.2	47.0	47.4	8.5	9.0	9.0	39.6	39.6	39.8	37.2	36.5	39.2
97.2	95.6	95.5	391.2	400.7	402.3	112.6	114.1	114.6	400.9	405.6	411.3	300.3	299.5	301.7
56.1	54.8	54.5	149.7	155.5	155.9	65.5	66.0	66.1	199.7	199.6	203.1	153.4	148.0	148.6
56.9	55.6	55.5	191.1	193.3	195.1	41.2	41.6	41.6	186.3	184.6	185.1	122.9	128.1	128.6
6.4	6.3	6.3	24.8	24.8	25.0	5.1	5.3	5.4	21.1	21.1	21.4	19.5	19.2	19.3
4.5	4.5	4.5	18.3	17.6	17.7	3.1	3.3	3.3	16.3	15.9	16.0	11.0	11.2	11.4
6.1	6.1	6.2	24.4	24.9	25.2	4.7	4.7	4.8	17.4	17.4	17.3	19.7	20.7	21.1
2.3	2.3	2.3	8.7	8.9	9.2	1.7	1.9	1.9	7.7	7.4	7.4	5.8	6.0	6.0
6.3	6.4	6.5	28.6	29.5	30.1	3.3	3.6	3.6	18.7	18.9	18.9	17.0	17.3	17.5
13.1	13.1	13.3	73.3	74.8	76.2	18.7	19.3	19.2	70.6	68.9	72.3	57.7	59.5	60.3
12.9	12.9	13.1	74.5	74.5	76.5	18.9	19.2	19.4	67.3	66.5	70.0	54.5	56.6	57.4
44.2	46.5	46.9	190.4	197.7	201.3	40.3	41.8	42.2	130.5	132.7	135.9	213.3	222.2	222.7
7.5	8.2	8.2	26.8	28.1	27.9	5.3	5.6	5.7	19.1	20.1	20.3	41.1	42.9	43.0
8.3	8.5	8.6	32.3	34.6	34.8	11.6	12.6	12.6	23.5	25.1	25.2	49.6	53.7	53.9
9.5	9.6	9.3	43.6	44.9	45.4	8.4	8.7	8.7	30.7	31.7	32.3	30.3	32.6	32.7
12.1	12.4	12.3	59.1	62.2	63.0	9.7	10.0	10.1	44.1	47.1	47.3	56.2	56.2	56.7
1.7	1.8	1.8	7.2	7.2	7.2	1.2	1.1	1.1	5.2	5.9	5.9	5.5	5.5	5.5
4.0	4.1	4.0	14.8	15.5	16.1	2.6	2.8	2.8	10.5	11.1	11.0	6.3	6.6	6.5
75.2	77.6	78.0	342.0	350.8	355.1	69.8	70.6	70.8	247.1	250.3	251.8	289.5	302.6	303.4
6.5	6.2	6.3	29.5	30.0	30.1	8.6	8.3	8.3	25.3	25.8	25.8	29.4	30.8	31.0
7.3	7.5	7.6	37.7	37.5	37.6	6.9	6.8	6.8	27.0	27.6	27.7	39.1	40.0	40.1
23.2	24.0	24.1	88.6	89.3	89.6	18.5	18.8	18.8	64.5	65.8	66.1	65.7	66.2	66.2
16.8	17.9	18.0	70.4	73.9	74.1	19.9	19.6	19.6	60.8	60.3	60.5	60.3	62.0	62.8
303.8	313.7	316.5	1,177.4	1,211.3	1,219.9	268.8	278.4	280.2	823.9	859.8	867.7	869.5	884.4	887.3
6.5	6.7	6.7	20.4	20.5	20.5	3.4	3.6	3.6	13.1	13.1	13.2	11.5	12.0	12.1
6.0	6.5	6.5	40.3	42.8	43.0	11.5	11.9	11.9	32.5	34.5	35.0	74.4	76.9	77.3
10.6	11.2	11.3	29.2	29.0	29.0	5.0	5.3	5.4	21.9	21.8	21.8	18.2	19.4	19.6
6.0	6.1	5.9	25.3	25.4	25.4	5.0	5.5	5.5	16.8	17.6	17.7	23.1	23.5	23.7
77.0	79.6	80.6	310.0	318.6	321.1	86.3	91.4	91.9	201.6	208.2	211.3	160.2	164.2	164.7
9.6	9.0	9.0	35.3	35.1	35.2	6.5	6.9	7.0	22.6	24.2	24.3	28.5	28.2	28.4
6.1	7.2	6.9	11.7	12.5	12.7	4.4	4.6	4.6	9.9	10.3	10.5	17.1	18.1	18.1

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8 Employees on nonagricultural payrolls for Stated areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>TEXAS—Continued</b>												
1 Houston	1,137.7	1,203.2	1,214.6	49.1	50.8	51.8	120.7	128.1	134.7	190.0	197.9	198.6
2 Lubbock	79.4	83.7	83.6	(1)	(1)	(1)	4.8	4.6	4.7	10.9	12.6	12.5
3 San Antonio	338.0	348.1	350.8	1.7	1.8	1.8	20.4	22.7	23.5	40.8	43.9	44.2
4 Waco	62.3	64.3	64.9	(1)	(1)	(1)	3.1	3.2	3.5	14.8	15.5	15.6
5 Wichita Falls	46.4	48.6	48.6	2.4	2.5	2.5	2.4	2.5	2.5	7.5	8.8	8.9
<b>UTAH</b>	473.8	490.6	497.1	14.9	13.8	13.8	27.3	28.1	29.9	72.3	75.8	76.6
7 Salt Lake City—Ogden	340.3	354.3	357.6	6.8	7.0	7.0	19.1	20.0	20.8	45.1	51.6	51.9
<b>VERMONT</b>	169.9	178.5	179.4	.7	.6	.7	5.2	6.0	6.1	41.7	44.8	45.5
8 Burlington <sup>16</sup>	44.6	46.9	47.4	-	-	-	-	-	-	10.3	11.1	11.3
10 Springfield <sup>16</sup>	12.4	13.5	13.5	-	-	-	-	-	-	5.2	5.7	5.8
<b>VIRGINIA</b>	1,872.3	1,905.2	1,921.9	22.6	11.5	11.8	106.8	100.0	105.3	393.6	403.7	402.7
12 Bristol	24.1	24.8	25.2	(1)	(1)	(1)	1.0	.9	1.0	8.4	8.8	8.9
13 Lynchburg	62.5	64.0	64.1	(1)	(1)	(1)	2.8	2.6	2.8	27.4	28.6	28.5
14 Newport News—Hampton	132.4	132.7	135.0	(1)	(1)	(1)	5.2	5.1	5.4	34.3	34.7	34.7
15 Norfolk—Virginia Beach—Portsmouth	252.2	256.2	259.3	(1)	(1)	(1)	14.8	14.1	14.6	26.6	27.7	27.6
16 Northern Virginia <sup>17</sup>	366.9	377.4	380.1	.3	.4	.4	23.0	22.2	23.1	13.9	14.4	14.5
17 Petersburg-Colonial Heights-Hopewell	44.0	44.6	44.6	(1)	(1)	(1)	2.0	2.1	2.1	12.9	12.6	12.7
18 Richmond	288.2	301.9	303.1	.3	.4	.4	15.9	17.9	17.8	50.9	53.1	53.0
19 Roanoke	97.1	96.7	97.8	.2	.2	.2	4.9	4.2	4.6	21.4	21.1	21.2
<b>WASHINGTON</b>	1,304.5	1,386.0	(*)	2.1	2.1	(*)	68.7	75.2	(*)	249.6	275.8	(*)
20 Seattle—Everett	609.0	652.2	(*)	(1)	(1)	(*)	27.7	32.1	(*)	123.1	135.6	(*)
22 Spokane <sup>18</sup>	110.3	114.4	(*)	(1)	(1)	(*)	5.5	5.7	(*)	14.9	15.8	(*)
23 Tacoma <sup>18</sup>	121.3	125.3	(*)	(1)	(1)	(*)	5.8	6.1	(*)	15.6	21.3	(*)
<b>WEST VIRGINIA</b>	596.2	542.2	549.2	70.0	14.1	15.6	32.1	32.3	32.6	122.8	122.3	122.4
24 Charleston	106.8	100.1	100.1	6.5	1.7	1.7	7.0	5.6	5.5	15.4	19.2	19.1
26 Huntington—Ashland	99.1	95.5	95.8	1.0	.7	.7	6.0	5.6	5.6	25.1	27.7	27.1
27 Parkersburg—Marietta	52.7	52.5	52.5	.5	.5	.5	2.7	2.3	2.4	16.9	16.6	16.5
28 Wheeling	63.5	56.9	56.8	7.4	.9	.9	2.9	2.4	2.4	13.9	13.8	13.6
<b>WISCONSIN</b>	1,722.7	1,796.4	1,811.5	2.0	1.9	1.9	60.8	71.1	73.0	513.2	535.4	541.8
29 Appleton—Oshkosh	109.0	111.2	111.6	(1)	(1)	(1)	4.4	4.2	4.1	42.8	44.8	45.2
30 Eau Claire	40.7	41.0	41.1	(1)	(1)	(1)	1.3	1.3	1.2	9.0	8.6	8.5
31 Green Bay	67.7	69.7	70.0	(1)	(1)	(1)	2.9	3.2	3.3	19.6	20.1	20.0
32 Kenosha	34.0	35.0	36.8	(1)	(1)	(1)	1.1	1.1	1.1	10.5	10.9	10.9
33 La Crosse	38.0	40.0	40.0	(1)	(1)	(1)	1.7	1.6	1.6	9.6	10.1	10.1
34 Madison	145.8	150.3	151.3	(1)	(1)	(1)	5.9	6.1	6.4	17.5	18.2	18.3
35 Milwaukee	599.2	619.1	621.9	(1)	(1)	(1)	18.2	21.2	21.9	193.6	202.5	202.9
36 Racine	62.2	66.5	67.4	(1)	(1)	(1)	2.1	2.2	2.4	28.1	28.9	29.3
<b>WYOMING</b>	156.3	166.8	168.8	23.4	27.3	27.9	13.6	14.5	14.9	8.4	8.8	8.4
38 Casper	29.1	31.3	32.0	5.5	6.1	6.3	2.5	2.7	2.8	1.6	1.7	1.7
40 Cheyenne	23.1	24.0	24.2	(1)	(1)	(1)	1.5	1.5	1.6	1.4	1.5	1.5

<sup>1</sup> Combined with services.  
<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual.  
<sup>3</sup> Data comparable with those shown are not available at this time.  
<sup>4</sup> Combined with construction.  
<sup>5</sup> Area included in Chicago—Gary Standard Consolidated Statistical Area.  
<sup>6</sup> Based on 1972 Standard Industrial Classification and adjusted to 1976 benchmark; not strictly comparable with previously published data.  
<sup>7</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
<sup>8</sup> Subarea of New York—Northeastern New Jersey.  
<sup>9</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>10</sup> Area included in New York and Nassau—Suffolk combined SMSA's.  
<sup>11</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>12</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery and Philadelphia Counties, Pennsylvania.  
<sup>13</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

<sup>14</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.  
<sup>15</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
<sup>16</sup> Total includes data for industry divisions not shown separately.  
<sup>17</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>18</sup> Revised to 1977 benchmark; not strictly comparable with previously published data.  
 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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	
83.6	89.0	88.9	277.2	297.2	297.5	66.2	71.6	72.6	220.0	231.6	234.0	130.9	136.8	136.5	1
4.7	4.8	4.8	24.6	25.8	25.7	3.9	4.0	4.0	13.3	13.9	13.8	17.2	18.0	18.1	2
14.6	15.1	15.9	85.4	86.0	86.0	22.3	23.5	23.6	63.4	65.7	66.0	89.4	89.4	89.8	3
3.1	3.1	3.1	14.2	14.8	14.9	3.5	3.7	3.7	12.9	13.0	13.1	10.7	11.0	11.0	4
2.3	2.5	2.4	11.8	12.3	12.3	2.1	2.2	2.2	7.1	7.3	7.3	10.8	10.5	10.5	5
28.0	29.9	30.2	112.6	118.0	119.5	21.5	22.9	23.1	80.6	84.4	85.7	116.7	117.7	118.3	6
22.3	23.9	24.1	84.2	88.5	89.1	17.8	18.9	18.9	54.9	57.5	58.4	86.0	86.9	87.3	7
8.2	8.4	8.4	34.5	37.0	37.1	6.9	7.1	7.1	40.6	42.2	42.0	32.3	32.6	32.6	8
2.0	2.1	2.1	9.5	9.8	10.0	-	-	-	9.8	10.4	10.3	-	-	-	9
.7	.8	.7	1.9	2.1	2.1	-	-	-	2.5	2.8	2.7	-	-	-	10
106.0	104.9	106.3	388.3	397.7	402.6	88.8	91.0	91.1	315.9	327.1	329.7	450.3	469.3	472.4	11
.9	.9	.9	5.9	5.9	5.9	.8	.8	.8	2.9	3.0	3.0	4.2	4.5	4.7	12
2.6	2.4	2.4	10.0	10.4	10.5	2.9	2.8	2.8	8.4	8.8	8.7	8.4	8.4	8.4	13
4.2	4.1	4.2	23.8	23.7	24.2	4.3	4.3	4.4	23.3	23.2	24.6	37.3	37.6	37.5	14
18.5	17.1	17.5	60.3	61.8	62.4	12.7	12.8	12.8	44.1	44.3	44.4	75.2	78.4	80.0	15
26.1	26.4	26.4	86.9	90.5	90.7	22.6	24.2	24.3	85.4	88.8	89.7	108.7	110.5	111.0	16
1.3	1.3	1.3	8.0	8.2	8.0	1.1	1.1	1.1	4.9	5.2	5.2	13.8	14.1	14.2	17
17.9	18.2	18.3	66.5	69.1	69.4	22.8	23.1	23.0	48.7	50.5	50.9	65.8	69.6	70.3	18
9.9	9.3	9.5	23.4	23.3	23.5	5.5	5.6	5.6	17.6	17.3	17.5	14.2	15.7	15.7	19
76.0	78.5	(*)	311.9	332.7	(*)	71.8	78.6	(*)	241.5	255.6	(*)	282.9	287.3	(*)	20
42.6	44.2	(*)	147.9	158.6	(*)	42.6	45.9	(*)	115.8	123.9	(*)	109.3	111.9	(*)	21
7.3	7.6	(*)	29.9	31.2	(*)	7.0	7.5	(*)	25.4	25.5	(*)	20.3	21.1	(*)	22
5.7	5.7	(*)	28.8	29.1	(*)	6.0	6.3	(*)	25.1	26.1	(*)	30.3	30.7	(*)	23
40.0	32.6	36.1	118.9	121.2	121.5	19.2	19.9	19.9	84.2	86.1	86.5	109.1	113.8	114.6	24
9.3	8.4	8.5	23.9	23.9	23.9	4.6	4.7	4.7	18.0	17.9	17.9	18.0	18.7	18.9	25
9.2	7.0	7.0	20.3	20.4	20.4	3.5	3.6	3.6	13.7	13.7	13.7	16.3	16.9	17.0	26
2.4	2.2	2.2	11.1	11.4	11.4	1.8	1.8	1.8	8.1	8.0	8.1	9.2	9.8	9.6	27
3.5	3.4	3.5	13.9	14.2	14.2	2.4	2.4	2.4	12.2	12.4	12.2	7.3	7.4	7.6	28
82.0	83.5	84.8	384.3	401.0	404.5	77.2	80.7	81.1	309.6	323.8	324.8	293.6	298.9	299.6	29
4.1	3.9	3.9	21.5	21.6	21.8	4.2	4.4	4.4	16.7	17.0	17.0	15.4	15.4	15.2	30
2.3	2.3	2.3	9.7	10.1	10.0	1.3	1.3	1.3	7.7	8.1	8.1	9.4	9.3	9.6	31
4.3	4.2	4.2	16.2	16.3	16.5	2.1	2.5	2.5	12.6	13.2	13.2	10.0	10.4	10.3	32
1.4	1.5	1.5	7.4	7.4	7.5	.8	.8	.8	7.0	7.4	7.3	5.9	5.9	6.0	33
2.0	2.1	2.0	9.9	10.6	10.6	.8	.9	.9	7.9	8.2	8.2	8.1	6.5	6.5	34
5.2	5.2	5.2	31.3	32.9	33.3	9.6	10.6	10.6	24.1	24.4	24.6	52.3	53.0	53.0	35
30.6	31.6	31.7	130.6	132.1	132.9	32.2	32.6	32.7	117.2	122.9	123.8	76.7	76.3	76.0	36
2.1	2.6	2.7	11.4	11.9	12.0	1.9	2.0	2.1	9.6	10.2	10.2	7.0	8.7	8.7	37
12.7	12.9	13.1	34.4	36.4	37.0	5.3	5.7	5.7	21.6	23.0	23.6	36.9	38.2	38.2	38
2.1	2.1	2.1	7.5	8.2	8.2	1.2	1.3	1.3	4.3	4.6	4.6	4.4	4.8	4.8	39
3.1	3.3	3.3	5.4	5.6	5.7	1.3	1.4	1.4	3.8	4.4	4.1	6.6	6.7	6.6	40





**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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. <sup>p</sup> 1978	Apr. <sup>p</sup> 1978	Mar. 1977	Apr. 1977	Feb. 1978	Mar. <sup>p</sup> 1978	Apr. <sup>p</sup> 1978
-	<b>TOTAL PRIVATE</b> .....	\$183.96	\$185.40	\$195.61	\$198.89	\$201.60	\$5.11	\$5.15	\$5.51	\$5.54	\$5.60
-	<b>MINING</b> .....	296.29	298.52	297.29	303.65	322.07	6.78	6.80	6.85	6.87	7.37
10	<b>METAL MINING</b> .....	290.17	296.19	322.87	326.98	-	7.06	7.12	7.78	7.86	-
101	Iron ores .....	317.37	314.81	343.94	352.96	-	7.45	7.46	7.98	8.04	-
102	Copper ores .....	280.80	290.14	312.41	315.90	-	7.20	7.29	7.99	8.10	-
11,12	<b>COAL MINING</b> .....	345.28	343.62	312.36	322.09	-	8.30	8.30	8.22	8.28	-
12	Bituminous coal and lignite mining .....	346.94	346.11	315.71	323.47	-	8.34	8.34	8.33	8.38	-
13	<b>OIL AND GAS EXTRACTION</b> .....	281.06	281.98	302.60	307.28	-	6.11	6.13	6.68	6.68	-
131,2	Crude petroleum and natural gas fields .....	288.69	299.33	340.20	330.96	-	6.99	7.11	7.93	7.88	-
138	Oil and gas field services .....	277.06	274.37	286.44	297.65	-	5.76	5.74	6.20	6.24	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	244.28	256.05	250.20	259.63	-	5.59	5.69	6.00	6.01	-
142	Crushed and broken stone .....	233.45	249.70	239.13	252.01	-	5.33	5.50	5.79	5.78	-
-	<b>CONTRACT CONSTRUCTION</b> .....	289.62	291.56	288.84	302.38	306.27	7.87	7.88	8.30	8.33	8.30
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	284.06	285.07	286.28	295.30	-	7.74	7.81	8.11	8.18	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	270.96	279.60	271.56	292.43	-	6.93	6.99	7.44	7.46	-
161	Highway and street construction .....	252.33	276.34	246.48	270.00	-	6.47	6.74	6.79	6.75	-
162	Heavy construction, nec .....	282.30	282.96	285.48	305.74	-	7.22	7.20	7.80	7.88	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	299.16	300.35	296.48	309.58	-	8.31	8.32	8.72	8.77	-
171	Plumbing, heating, air conditioning .....	320.72	318.75	323.23	335.85	-	8.44	8.50	8.88	8.98	-
172	Painting, paper hanging, decorating .....	268.15	266.90	264.06	267.40	-	7.75	7.85	8.10	8.03	-
173	Electrical work .....	346.70	343.73	341.77	354.83	-	9.27	9.29	9.52	9.59	-
174	Masonry, stonework, and plastering .....	265.98	273.17	248.46	273.57	-	8.06	8.13	8.48	8.63	-
176	Roofing and sheetmetal work .....	233.42	245.93	222.43	239.12	-	7.41	7.43	7.54	7.84	-
-	<b>MANUFACTURING</b> .....	220.30	220.80	235.22	240.19	241.40	5.48	5.52	5.94	5.96	5.99
19,24,25, 32-39	<b>DURABLE GOODS</b> .....	238.27	239.32	254.47	259.72	261.35	5.84	5.88	6.33	6.35	6.39
20-23,26-31	<b>NONDURABLE GOODS</b> .....	194.54	195.11	207.05	211.58	211.83	4.95	4.99	5.35	5.37	5.39
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	249.70	251.74	252.97	265.16	260.26	6.12	6.14	6.71	6.73	6.76
192	Ammunition, except for small arms .....	255.15	255.56	247.09	254.44	251.62	6.30	6.31	6.98	6.99	6.97
1925	Complete guided missiles .....	286.59	284.78	269.51	274.97	-	6.99	6.98	7.95	7.97	-
1929	Ammunition, exc. for small arms, nec .....	200.88	205.20	209.97	220.73	-	5.06	5.13	5.54	5.56	-
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	194.62	197.60	209.33	211.46	214.12	4.89	4.94	5.34	5.34	5.38
242	Sawmills and planing mills .....	194.88	196.66	212.78	213.03	216.89	4.80	4.82	5.28	5.26	5.29
2421	Sawmills and planing mills, general .....	203.50	206.23	223.01	222.35	-	5.00	5.03	5.52	5.49	-
243	Millwork, plywood and related products .....	203.66	204.57	215.28	218.59	221.29	5.13	5.14	5.52	5.52	5.56
2431	Millwork .....	192.37	191.78	204.44	208.65	-	4.92	4.93	5.31	5.35	-
2432	Veneer and plywood .....	225.63	226.46	244.32	243.49	-	5.45	5.47	5.93	5.91	-
244	Wooden containers .....	141.31	141.31	152.97	154.54	(*)	3.68	3.68	4.09	4.11	(*)
2441,2	Wooden boxes, shooks, and crates .....	139.43	140.12	146.40	149.08	-	3.65	3.63	4.00	4.04	-
249	Miscellaneous wood products .....	162.77	163.10	172.72	175.78	176.17	4.10	4.15	4.44	4.45	4.46
25	<b>FURNITURE AND FIXTURES</b> .....	159.64	159.56	176.28	178.88	178.23	4.19	4.21	4.52	4.54	4.57
251	Household furniture .....	149.67	149.25	166.06	168.95	168.05	3.97	3.98	4.28	4.31	4.32
2511	Wood household furniture .....	141.35	141.37	158.77	159.98	-	3.71	3.73	4.04	4.05	-
2512	Upholstered household furniture .....	159.10	156.16	172.82	179.72	-	4.30	4.29	4.56	4.62	-
2515	Mattresses and bedsprings .....	167.81	170.63	190.58	191.98	-	4.56	4.55	4.95	4.91	-
252	Office furniture .....	188.18	189.68	206.34	206.45	-	4.74	4.79	5.12	5.06	-
254	Partitions and fixtures .....	199.25	197.10	211.29	214.12	-	5.07	5.08	5.39	5.38	-
253,9	Other furniture and fixtures .....	179.96	181.89	195.97	196.98	200.08	4.65	4.70	5.09	5.09	5.17
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	229.48	234.32	241.20	248.02	255.20	5.57	5.66	6.00	6.02	6.12
321	Flat glass .....	292.40	314.20	313.56	328.30	-	7.08	7.29	7.80	7.93	-
322	Glass and glassware, pressed or blown .....	236.57	241.79	252.63	254.97	(*)	5.77	5.97	6.30	6.28	(*)
3221	Glass containers .....	245.78	251.47	258.40	258.16	-	5.88	6.24	6.46	6.39	-
3229	Pressed and blown glass, nec .....	222.48	227.51	245.02	250.31	-	5.59	5.59	6.08	6.12	-
324	Cement, hydraulic .....	321.20	318.36	341.54	346.46	(*)	7.54	7.58	8.21	8.21	(*)
325	Structural clay products .....	180.90	186.59	199.34	204.40	207.75	4.50	4.54	4.85	4.89	4.97
3251	Brick and structural clay tile .....	161.60	167.28	176.66	183.94	-	4.03	4.07	4.33	4.39	-
326	Pottery and related products .....	194.93	195.62	208.17	210.01	-	4.91	4.94	5.27	5.29	-
327	Concrete, gypsum, and plaster products .....	230.54	242.85	227.52	244.36	(*)	5.45	5.57	5.76	5.86	(*)
328,9	Other stone and nonmetallic mineral products .....	218.70	220.46	241.31	245.86	249.13	5.40	5.43	5.90	5.91	5.96
3291	Abrasive products .....	214.38	209.97	240.78	239.95	-	5.40	5.37	5.83	5.81	-

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
—	<b>TOTAL PRIVATE</b> . . . . .	36.0	36.0	35.5	35.9	36.0	—	—	—	—	—
—	<b>MINING</b> . . . . .	43.7	43.9	43.4	44.2	43.7	—	—	—	—	—
10	<b>METAL MINING</b> . . . . .	41.1	41.6	41.5	41.6	—	—	—	—	—	—
101	Iron ores . . . . .	42.6	42.2	43.1	43.9	—	—	—	—	—	—
102	Copper ores . . . . .	39.0	39.8	39.1	39.0	—	—	—	—	—	—
11,12	<b>COAL MINING</b> . . . . .	41.6	41.4	38.0	38.9	—	—	—	—	—	—
12	Bituminous coal and lignite mining . . . . .	41.6	41.5	37.9	38.6	—	—	—	—	—	—
13	<b>OIL AND GAS EXTRACTION</b> . . . . .	46.0	46.0	45.3	46.0	—	—	—	—	—	—
131,2	Crude petroleum and natural gas fields . . . . .	41.3	42.1	42.9	42.0	—	—	—	—	—	—
138	Oil and gas field services . . . . .	48.1	47.8	46.2	47.7	—	—	—	—	—	—
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> . . . . .	43.7	45.0	41.7	43.2	—	—	—	—	—	—
142	Crushed and broken stone . . . . .	43.8	45.4	41.3	43.6	—	—	—	—	—	—
—	<b>CONTRACT CONSTRUCTION</b> . . . . .	36.8	37.0	34.8	36.3	36.9	—	—	—	—	—
15	<b>GENERAL BUILDING CONTRACTORS</b> . . . . .	36.7	36.5	35.3	36.1	—	—	—	—	—	—
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> . . . . .	39.1	40.0	36.5	39.2	—	—	—	—	—	—
161	Highway and street construction . . . . .	39.0	41.0	36.3	40.0	—	—	—	—	—	—
162	Heavy construction, nec . . . . .	39.1	39.3	36.6	38.8	—	—	—	—	—	—
17	<b>SPECIAL TRADE CONTRACTORS</b> . . . . .	36.0	36.1	34.0	35.3	—	—	—	—	—	—
171	Plumbing, heating, air conditioning . . . . .	38.0	37.5	36.4	37.4	—	—	—	—	—	—
172	Painting, paper hanging, decorating . . . . .	34.6	34.0	32.6	33.3	—	—	—	—	—	—
173	Electrical work . . . . .	37.4	37.0	35.9	37.0	—	—	—	—	—	—
174	Masonry, stonework, and plastering . . . . .	33.0	33.6	29.3	31.7	—	—	—	—	—	—
176	Roofing and sheet metal work . . . . .	31.5	33.1	29.5	30.5	—	—	—	—	—	—
—	<b>MANUFACTURING</b> . . . . .	40.2	40.0	39.6	40.3	40.3	3.2	3.1	3.4	3.4	3.4
19,24,25, 32-39	<b>DURABLE GOODS</b> . . . . .	40.8	40.7	40.2	40.9	40.9	3.3	3.3	3.7	3.6	3.6
20,23,26-31	<b>NONDURABLE GOODS</b> . . . . .	39.3	39.1	38.7	39.4	39.3	2.9	2.9	3.1	3.1	3.1
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> . . . . .	40.8	41.0	37.7	39.4	38.5	2.7	2.8	3.3	3.2	—
192	Ammunition, except for small arms . . . . .	40.5	40.5	35.4	36.4	36.1	2.4	2.2	2.9	2.5	—
1925	Complete guided missiles . . . . .	41.0	40.8	33.9	34.5	—	—	—	—	—	—
1929	Ammunition, exc. for small arms, nec. . . . .	39.7	40.0	37.9	39.7	—	—	—	—	—	—
24	<b>LUMBER AND WOOD PRODUCTS</b> . . . . .	39.8	40.0	39.2	39.6	39.8	3.5	3.7	3.7	3.6	—
242	Sawmills and planing mills . . . . .	40.6	40.8	40.3	40.5	41.0	4.1	4.3	4.3	4.3	—
2421	Sawmills and planing mills, general . . . . .	40.7	41.0	40.4	40.5	—	—	—	—	—	—
243	Millwork, plywood and related products . . . . .	39.7	39.8	39.0	39.6	39.8	3.1	3.3	3.1	3.0	—
2431	Millwork . . . . .	39.1	38.9	38.5	39.0	—	—	—	—	—	—
2432	Veneer and plywood . . . . .	41.4	41.4	41.2	41.2	—	—	—	—	—	—
244	Wooden containers . . . . .	38.4	38.4	37.4	37.6	(*)	2.3	2.4	2.7	2.6	—
2441,2	Wooden boxes, shooks, and crates . . . . .	38.2	38.6	36.6	36.9	—	—	—	—	—	—
249	Miscellaneous wood products . . . . .	39.7	39.3	38.9	39.5	39.5	3.4	3.4	3.5	3.4	—
25	<b>FURNITURE AND FIXTURES</b> . . . . .	38.1	37.9	39.0	39.4	39.0	1.9	1.8	2.6	2.6	—
251	Household furniture . . . . .	37.7	37.5	38.8	39.2	38.9	1.9	1.7	2.7	2.6	—
2511	Wood household furniture . . . . .	38.1	37.9	39.3	39.5	—	2.3	2.0	3.2	3.0	—
2512	Upholstered household furniture . . . . .	37.0	36.4	37.9	38.9	—	—	—	—	—	—
2515	Mattresses and bedsprings . . . . .	36.8	37.5	38.5	39.1	—	—	—	—	—	—
252	Office furniture . . . . .	39.7	39.6	40.3	40.8	—	2.1	2.3	3.2	3.2	—
254	Partitions and fixtures . . . . .	39.3	38.8	39.2	39.8	—	2.2	1.8	2.7	2.4	—
253,9	Other furniture and fixtures . . . . .	38.7	38.7	38.5	38.7	38.7	1.2	1.5	1.8	1.9	—
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> . . . . .	41.2	41.4	40.2	41.2	41.7	4.2	4.5	4.4	4.6	—
321	Flat glass . . . . .	41.3	43.1	40.2	41.4	—	5.4	6.9	5.7	6.2	—
322	Glass and glassware, pressed or blown . . . . .	41.0	40.5	40.1	40.6	(*)	4.1	4.1	4.2	4.1	—
3221	Glass containers . . . . .	41.8	40.3	40.0	40.4	—	—	—	—	—	—
3229	Pressed and blown glass, nec . . . . .	39.8	40.7	40.3	40.9	—	2.9	3.6	3.4	3.2	—
324	Cement, hydraulic . . . . .	42.6	42.0	41.6	42.2	(*)	3.9	3.9	4.3	4.2	—
325	Structural clay products . . . . .	40.2	41.1	41.1	41.8	41.8	3.5	3.9	4.3	4.4	—
3251	Brick and structural clay tile . . . . .	40.1	41.1	40.8	41.9	—	—	—	—	—	—
326	Pottery and related products . . . . .	39.7	39.6	39.5	39.7	—	2.4	2.1	2.6	2.4	—
327	Concrete, gypsum and plaster products . . . . .	42.3	43.6	39.5	41.7	(*)	5.6	6.2	4.9	6.0	—
328,9	Other stone and nonmetallic mineral products . . . . .	40.5	40.6	40.9	41.6	41.8	3.5	3.6	4.0	3.9	—
3291	Abrasive products . . . . .	39.7	39.1	41.3	41.3	—	—	—	—	—	—

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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
	<b>PRIMARY METAL INDUSTRIES</b> .....	\$292.33	\$298.91	\$329.19	\$329.16	\$334.49	\$7.13	\$7.22	\$7.99	\$7.97	\$8.06
33	Blast furnace and basic steel products .....	321.20	337.79	380.69	378.43	(*)	7.99	8.12	9.24	9.23	(*)
3312	Blast furnaces and steel mills .....	327.62	345.28	390.45	388.01	—	8.17	8.30	9.50	9.51	—
332	Iron and steel foundries .....	266.26	265.12	284.78	288.11	(*)	6.51	6.53	6.98	7.01	(*)
3321	Gray iron foundries .....	277.79	275.78	292.84	295.82	—	6.71	6.71	7.16	7.18	—
3322	Malleable iron foundries .....	268.23	272.45	294.46	292.59	—	6.86	6.88	7.38	7.37	—
3323	Steel foundries .....	235.57	233.45	261.99	266.62	—	5.86	5.91	6.39	6.44	—
333,4	Nonferrous metals .....	287.99	292.16	331.80	332.22	(*)	6.99	7.04	7.90	7.91	(*)
3334	Primary aluminum .....	320.17	320.17	374.47	374.88	—	7.79	7.79	8.98	8.99	—
335	Nonferrous rolling and drawing .....	276.27	274.99	293.30	296.50	(*)	6.41	6.44	7.00	6.96	(*)
3351	Copper rolling and drawing .....	273.81	278.52	285.75	282.97	—	6.28	6.33	6.63	6.52	—
3352	Aluminum rolling and drawing .....	288.84	289.82	325.71	328.18	—	6.64	6.74	7.70	7.74	—
3357	Nonferrous wire drawing and insulating .....	271.78	267.34	270.10	276.41	—	6.35	6.32	6.62	6.55	—
336	Nonferrous foundries .....	223.99	224.92	240.60	239.79	242.19	5.49	5.54	6.00	5.95	5.98
3361	Aluminum castings .....	228.63	230.68	251.29	248.46	—	5.59	5.64	6.22	6.15	—
3362,9	Other nonferrous castings .....	217.62	216.94	227.26	228.90	—	5.36	5.41	5.71	5.68	—
339	Miscellaneous primary metal products .....	280.03	277.02	308.38	306.91	(*)	6.83	6.84	7.36	7.36	(*)
3391	Iron and steel forgings .....	294.35	290.07	329.94	327.66	—	7.25	7.27	7.80	7.82	—
34	<b>FABRICATED METAL PRODUCTS</b> .....	232.15	231.26	243.41	250.10	252.15	5.69	5.71	6.04	6.10	6.15
341	Metal cans .....	312.48	319.74	334.17	347.27	(*)	7.25	7.30	7.90	8.02	(*)
342	Cutlery, hand tools, and hardware .....	225.91	226.18	235.97	242.72	241.57	5.51	5.53	5.87	5.92	5.95
3421,3,5	Cutlery and hand tools, incl. saws .....	204.83	203.81	220.05	224.26	—	5.07	5.07	5.42	5.43	—
3429	Hardware, nec .....	240.53	241.78	245.96	254.78	—	5.81	5.84	6.18	6.26	—
343	Plumbing and heating, except electric .....	201.89	202.64	220.40	221.05	(*)	5.06	5.13	5.51	5.54	(*)
3431,2	Sanitary ware and plumbers' brass goods .....	201.33	200.85	226.03	218.51	—	5.11	5.19	5.54	5.56	—
3433	Heating equipment, except electric .....	203.31	203.31	214.82	223.01	—	5.02	5.07	5.48	5.52	—
344	Fabricated structural metal products .....	222.56	219.38	230.10	236.59	(*)	5.55	5.54	5.87	5.90	(*)
3441	Fabricated structural steel .....	233.45	232.93	237.07	248.22	—	5.75	5.78	6.11	6.19	—
3442	Metal doors, sash, and trim .....	174.15	174.15	182.11	183.14	—	4.50	4.50	4.73	4.72	—
3443	Fabricated plate work (boiler shops) .....	245.83	237.58	252.31	262.92	—	6.04	6.03	6.42	6.46	—
3444	Sheet metal work .....	227.29	225.76	241.56	247.25	—	5.64	5.63	6.10	6.09	—
3446,9	Architectural and misc. metal work .....	208.17	209.88	220.09	221.35	—	5.27	5.30	5.53	5.52	—
345	Screw machine products, bolts, etc .....	234.90	233.10	252.52	252.19	251.43	5.54	5.55	5.90	5.92	5.93
3451	Screw machine products .....	223.66	219.03	242.91	238.71	—	5.30	5.24	5.61	5.63	—
3452	Bolts, nuts, rivets, and washers .....	246.65	247.46	262.48	267.07	—	5.79	5.85	6.22	6.24	—
346	Metal stampings .....	264.47	266.49	275.67	293.16	(*)	6.53	6.58	6.79	6.98	(*)
347	Metal services, nec .....	186.59	185.14	193.06	195.02	(*)	4.63	4.64	4.90	4.90	(*)
348	Miscellaneous fabricated wire products .....	194.08	195.69	210.27	213.56	(*)	4.84	4.88	5.27	5.26	(*)
349	Miscellaneous fabricated metal products .....	232.40	229.45	248.06	249.87	(*)	5.60	5.61	6.08	6.05	(*)
3494,8	Valves, pipe, and pipe fittings .....	238.83	233.86	253.79	253.98	—	5.70	5.69	6.16	6.12	—
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	250.66	249.48	272.06	275.76	273.37	6.04	6.07	6.54	6.55	6.54
351	Engines and turbines .....	284.12	280.28	327.54	335.62	(*)	7.05	7.06	7.78	8.01	(*)
3511	Steam engines and turbines .....	263.31	259.10	274.87	279.35	—	6.55	6.51	7.03	7.09	—
3519	Internal combustion engines, nec .....	292.58	289.81	348.13	357.79	—	7.26	7.30	8.04	8.34	—
352	Farm machinery .....	261.43	261.62	282.58	287.58	—	6.33	6.35	6.96	6.98	—
353	Construction and related machinery .....	265.60	265.10	295.96	296.24	(*)	6.40	6.45	7.03	7.02	(*)
3531,2	Construction and mining machinery .....	283.03	282.69	322.28	320.32	—	6.92	6.98	7.71	7.70	—
3533	Oil field machinery .....	261.51	256.88	280.08	285.63	—	5.93	5.96	6.38	6.39	—
3535,6	Conveyors, hoists, cranes, monorails .....	231.73	234.77	255.15	258.71	—	5.75	5.84	6.30	6.31	—
3537	Industrial trucks and tractors .....	238.86	238.21	259.98	258.75	—	5.84	5.81	6.19	6.22	—
354	Metal working machinery .....	271.13	270.50	296.04	300.80	298.52	6.32	6.32	6.79	6.79	6.80
3541	Machine tools, metal cutting types .....	277.53	283.08	317.35	324.34	—	6.38	6.39	6.99	6.99	—
3544	Special dies, tools, jigs and fixtures .....	297.04	294.80	320.95	321.39	—	6.69	6.70	7.18	7.19	—
3545	Machine tool accessories .....	247.63	245.44	266.27	273.13	—	5.91	5.90	6.28	6.25	—
3542,8	Miscellaneous metal working machinery .....	231.38	231.38	250.51	260.60	—	5.77	5.77	6.11	6.19	—
355	Special industry machinery .....	234.58	228.83	247.86	256.26	(*)	5.68	5.65	6.12	6.16	(*)
3551	Food products machinery .....	244.73	236.61	258.04	262.63	—	5.94	5.93	6.34	6.39	—
3552	Textile machinery .....	192.44	188.00	192.15	201.17	—	4.74	4.70	5.03	5.08	—
3555	Printing trades machinery .....	246.19	243.00	263.27	260.82	—	5.99	6.00	6.39	6.30	—
356	General industrial machinery .....	246.19	246.63	263.56	266.33	(*)	5.99	6.03	6.54	6.48	(*)
3561	Pumps and compressors .....	253.20	252.66	272.08	276.54	—	6.00	6.03	6.62	6.60	—
3562	Ball and roller bearings .....	250.51	254.41	248.62	261.94	—	6.11	6.16	6.56	6.42	—
3564	Blowers and fans .....	228.63	225.44	249.69	236.61	—	5.59	5.65	6.09	5.93	—
3566	Power transmission equipment .....	245.37	242.57	272.48	272.72	—	5.97	5.96	6.55	6.54	—
357	Office and computing machines .....	221.90	220.86	231.01	231.16	(*)	5.36	5.40	5.58	5.57	(*)
3573	Electronic computing equipment .....	228.10	226.05	233.94	223.79	—	5.47	5.50	5.61	5.62	—
358	Service industry machines .....	218.14	215.05	240.19	246.15	242.76	5.44	5.50	5.96	5.96	5.95
3585	Refrigeration machinery .....	216.22	212.91	243.82	251.08	—	5.46	5.53	6.05	6.05	—
359	Miscellaneous machinery, except electrical ..	244.44	243.36	259.58	265.02	266.91	5.82	5.85	6.27	6.28	6.34

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
33	<b>PRIMARY METAL INDUSTRIES</b> .....	41.0	41.4	41.2	41.3	41.5	3.4	3.6	4.2	3.9	—
331	Blast furnace and basic steel products .....	40.2	41.6	41.2	41.0	(*)	2.6	2.9	3.6	3.1	—
3312	Blast furnaces and steel mills .....	40.1	41.6	41.1	40.8	—	2.5	2.8	3.5	3.0	—
332	Iron and steel foundries .....	40.9	40.6	40.8	41.1	(*)	3.9	4.1	4.7	4.5	—
3321	Gray iron foundries .....	41.4	41.1	40.9	41.2	—	4.2	4.6	5.0	4.9	—
3322	Malleable iron foundries .....	39.1	39.6	39.9	39.7	—	—	—	—	—	—
3323	Steel foundries .....	40.2	39.5	41.0	41.4	—	3.8	3.2	3.8	3.7	—
333,4	Nonferrous metals .....	41.2	41.5	42.0	42.0	(*)	3.4	3.3	4.1	4.0	—
3334	Primary aluminum .....	41.1	41.1	41.7	41.7	—	—	—	—	—	—
335	Nonferrous rolling and drawing .....	43.1	42.7	41.9	42.6	(*)	5.2	5.3	5.5	5.1	—
3351	Copper rolling and drawing .....	43.6	44.0	43.1	43.4	—	—	—	—	—	—
3352	Aluminum rolling and drawing .....	43.5	43.0	42.3	42.4	—	6.4	6.5	6.2	6.0	—
3357	Nonferrous wire drawing and insulating ..	42.8	42.3	40.8	42.2	—	4.7	4.6	4.4	4.3	—
336	Nonferrous foundries .....	40.8	40.6	40.1	40.3	40.5	3.2	3.2	3.6	3.4	—
3361	Aluminum castings .....	40.9	40.9	40.4	40.4	—	—	—	—	—	—
3362,9	Other nonferrous castings .....	40.6	40.1	39.8	40.3	—	—	—	—	—	—
339	Miscellaneous primary metal products .....	41.0	40.5	41.9	41.7	(*)	3.8	3.7	5.3	4.7	—
3391	Iron and steel forgings .....	40.6	39.9	42.3	41.9	—	—	—	—	—	—
34	<b>FABRICATED METAL PRODUCTS</b> .....	40.8	40.5	40.3	41.0	41.0	3.3	3.3	3.4	3.6	—
341	Metal cans .....	43.1	43.8	42.3	43.3	(*)	3.9	3.7	4.1	4.0	—
342	Cutlery, hand tools, and hardware .....	41.0	40.9	40.2	41.0	40.6	3.3	3.3	3.1	3.2	—
3421,3,5	Cutlery and hand tools, incl. saws .....	40.4	40.2	40.6	41.3	—	—	—	—	—	—
3429	Hardware, nec .....	41.4	41.4	39.8	40.7	—	—	—	—	—	—
343	Plumbing and heating, except electric .....	39.9	39.5	40.0	39.9	(*)	2.9	2.8	3.5	3.3	—
3431,2	Sanitary ware and plumbers' brass goods ..	39.4	38.7	40.8	39.3	—	—	—	—	—	—
3433	Heating equipment, except electric .....	40.5	40.1	39.2	40.4	—	—	—	—	—	—
344	Fabricated structural metal products .....	40.1	39.6	39.2	40.1	(*)	2.5	2.4	2.8	2.9	—
3441	Fabricated structural steel .....	40.6	40.3	38.8	40.1	—	2.7	2.4	2.6	2.7	—
3442	Metal doors, sash, and trim .....	38.7	38.7	38.5	38.8	—	—	—	—	—	—
3443	Fabricated plate work (boiler shops) .....	40.7	39.4	39.3	40.7	—	2.8	2.4	3.0	3.3	—
3444	Sheet metal work .....	40.3	40.1	39.6	40.6	—	—	—	—	—	—
3446,9	Architectural and misc. metal work .....	39.5	39.6	39.8	40.1	—	—	—	—	—	—
345	Screw machine products, bolts, etc .....	42.4	42.0	42.8	42.6	42.4	4.3	4.3	5.5	5.0	—
3451	Screw machine products .....	42.2	41.8	43.3	42.4	—	—	—	—	—	—
3452	Bolts, nuts, rivets, and washers .....	42.6	42.3	42.2	42.8	—	—	—	—	—	—
346	Metal stampings .....	40.5	40.5	40.6	42.0	(*)	4.3	4.5	3.5	4.4	—
347	Metal services, nec .....	40.3	39.9	39.4	39.8	(*)	3.4	3.1	3.5	3.6	—
348	Miscellaneous fabricated wire products .....	40.1	40.1	39.9	40.6	(*)	2.5	2.7	3.1	3.1	—
349	Miscellaneous fabricated metal products .....	41.5	40.9	40.8	41.3	(*)	3.4	3.2	3.9	3.8	—
3494,8	Valves, pipe, and pipe fittings .....	41.9	41.1	41.2	41.5	—	—	—	—	—	—
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	41.5	41.1	41.6	42.1	41.8	3.6	3.3	4.3	4.2	—
351	Engines and turbines .....	40.3	39.7	42.1	41.9	(*)	2.6	2.5	3.9	4.2	—
3511	Steam engines and turbines .....	40.2	39.8	39.1	39.4	—	—	—	—	—	—
3519	Internal combustion engines, nec .....	40.3	39.7	43.3	42.9	—	—	—	—	—	—
352	Farm machinery .....	41.3	41.2	40.6	41.2	—	3.8	3.5	3.3	3.8	—
353	Construction and related machinery .....	41.5	41.1	42.1	42.2	(*)	2.8	2.7	3.8	3.8	—
3531,2	Construction and mining machinery .....	40.9	40.5	41.8	41.6	—	2.3	2.2	3.1	3.0	—
3533	Oil field machinery .....	44.1	43.1	43.9	44.7	—	—	—	—	—	—
3535,6	Conveyors, hoists, cranes, monorails .....	40.3	40.2	40.5	41.0	—	—	—	—	—	—
3537	Industrial trucks and tractors .....	40.9	41.0	42.0	41.6	—	—	—	—	—	—
354	Metal working machinery .....	42.9	42.8	43.6	44.3	43.9	5.3	4.9	6.1	6.0	—
3541	Machine tools, metal cutting types .....	43.5	44.3	45.4	46.4	—	4.5	4.6	6.8	6.9	—
3544	Special dies, tools, jig and fixtures .....	44.4	44.0	44.7	44.7	—	—	—	—	—	—
3545	Machine tool accessories .....	41.9	41.6	42.4	43.7	—	4.1	3.9	4.9	5.0	—
3542,8	Miscellaneous metal working machinery .....	40.1	40.1	41.0	42.1	—	—	—	—	—	—
355	Special industry machinery .....	41.3	40.5	40.5	41.6	(*)	3.3	2.8	3.9	3.9	—
3551	Food products machinery .....	41.2	39.9	40.7	41.1	—	—	—	—	—	—
3552	Textile machinery .....	40.6	40.0	38.2	39.6	—	—	—	—	—	—
3555	Printing trades machinery .....	41.1	40.5	41.2	41.4	—	—	—	—	—	—
356	General industrial machinery .....	41.1	40.9	40.3	41.1	(*)	3.3	3.2	4.5	3.8	—
3561	Pumps and compressors .....	42.2	41.9	41.1	41.9	—	4.3	4.0	4.6	4.2	—
3562	Ball and roller bearings .....	41.0	41.3	37.9	40.8	—	3.3	3.8	4.9	4.0	—
3564	Blowers and fans .....	40.9	39.9	41.0	39.9	—	—	—	—	—	—
3566	Power transmission equipment .....	41.1	40.7	41.6	41.7	—	3.0	2.7	4.3	4.0	—
357	Office and computing machines .....	41.4	40.9	41.4	41.5	(*)	3.1	2.6	3.5	3.3	—
3573	Electronic computing equipment .....	41.7	41.1	41.7	41.6	—	—	—	—	—	—
358	Service industry machines .....	40.1	39.1	40.3	41.3	40.8	2.2	2.1	3.2	2.9	—
3585	Refrigeration machinery .....	39.6	38.5	40.3	41.5	—	2.1	2.2	3.0	2.8	—
359	Miscellaneous machinery, except electrical ..	42.0	41.6	41.4	42.2	42.1	4.2	3.9	4.4	4.4	—

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 P	Apr. 1978 P	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 P	Apr. 1978 P	
	<b>DURABLE GOODS—Continued</b>											
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b> .....	\$208.24	\$207.48	\$222.61	\$226.57	\$225.27	\$5.18	\$5.20	\$5.65	\$5.65	\$5.66	
361	Electric test and distributing equipment .....	215.74	214.26	228.89	236.64	234.26	5.34	5.37	5.78	5.80	5.77	
3611	Electric measuring instruments .....	208.64	207.23	230.52	232.06	—	5.19	5.22	5.65	5.66	—	
3612	Transformers .....	208.08	205.64	220.30	227.01	—	5.10	5.09	5.48	5.51	—	
3613	Switchgear and switchboard apparatus ..	225.52	226.46	232.79	247.65	—	5.61	5.69	6.11	6.13	—	
362	Electrical industrial apparatus .....	210.53	211.85	232.72	231.74	231.49	5.25	5.27	5.69	5.68	5.73	
3621	Motors and generators .....	216.01	218.83	242.84	240.67	—	5.36	5.39	5.88	5.87	—	
3622	Industrial controls .....	192.27	191.28	203.70	206.46	—	4.93	4.93	5.25	5.24	—	
363	Household appliances .....	204.06	202.27	223.57	228.34	225.15	5.14	5.16	5.66	5.68	5.70	
3632	Household refrigerators and freezers ..	218.24	218.69	256.20	262.30	—	5.31	5.36	6.00	6.10	—	
3633	Household laundry equipment .....	231.86	221.56	265.86	262.68	—	6.15	6.07	6.68	6.65	—	
3634	Electric housewares and fans .....	173.16	171.55	185.82	190.79	—	4.44	4.41	4.89	4.83	—	
364	Electric lighting and wiring equipment ..	193.91	193.16	208.89	216.01	218.56	4.86	4.89	5.37	5.36	5.41	
3641	Electric lamps .....	217.57	209.68	234.37	235.89	—	5.23	5.19	5.83	5.81	—	
3642	Lighting fixtures .....	189.63	190.68	205.53	211.84	—	4.90	4.94	5.54	5.56	—	
3643,4	Wiring devices .....	185.93	186.52	200.38	209.66	—	4.66	4.71	5.06	5.04	—	
365	Radio and TV receiving equipment .....	181.74	181.64	197.93	201.31	(*)	4.77	4.78	5.25	5.27	(*)	
366	Communication equipment .....	249.00	246.19	252.65	259.53	256.96	6.00	5.99	6.38	6.44	6.44	
3661	Telephone and telegraph apparatus .....	258.30	256.85	256.11	258.59	—	6.15	6.13	6.55	6.53	—	
3662	Radio and TV communication equipment ..	241.26	237.55	249.38	260.12	—	5.87	5.88	6.25	6.36	—	
367	Electronic components and accessories ..	174.00	173.49	184.69	189.05	186.68	4.35	4.37	4.76	4.75	4.75	
3671-3	Electron tubes .....	226.87	221.35	241.00	242.19	—	5.52	5.52	6.04	6.07	—	
3674,9	Other electronic components .....	167.16	167.11	177.63	182.68	—	4.20	4.22	4.59	4.59	—	
369	Miscellaneous electrical equip. and suppl..	241.08	243.58	259.75	258.15	262.44	5.88	5.97	6.51	6.47	6.48	
3694	Engine electrical equipment .....	261.53	269.86	281.64	277.14	—	6.41	6.55	7.13	7.07	—	
37	<b>TRANSPORTATION EQUIPMENT</b> .....	296.80	294.42	299.20	312.98	317.68	7.00	7.01	7.48	7.56	7.60	
371	Motor vehicles and equipment .....	342.77	339.79	334.97	353.18	(*)	7.72	7.74	8.17	8.31	(*)	
3711	Motor vehicles .....	367.89	356.98	351.37	381.94	—	8.05	8.04	8.57	8.74	—	
3712	Passenger car bodies .....	396.17	361.20	340.94	366.81	—	8.65	8.40	9.29	9.31	—	
3713	Truck and bus bodies .....	246.84	244.82	257.28	257.00	—	6.05	6.06	6.40	6.49	—	
3714	Motor vehicle parts and accessories .....	332.56	339.13	336.96	347.68	—	7.61	7.69	8.10	8.20	—	
3715	Truck trailers .....	215.54	210.67	223.68	221.45	—	5.27	5.28	5.62	5.55	—	
372	Aircraft and parts .....	282.31	279.07	298.98	308.98	308.90	6.77	6.79	7.31	7.27	7.32	
3721	Aircraft .....	290.51	287.58	306.45	309.74	—	6.95	6.98	7.42	7.41	—	
3722	Aircraft engines and engine parts .....	281.26	277.70	293.38	321.32	—	6.86	6.84	7.66	7.49	—	
3723,9	Other aircraft parts and equipment .....	263.13	262.29	290.54	292.99	—	6.25	6.29	6.71	6.72	—	
373	Ship and boat building and repairing .....	226.01	232.07	241.13	247.54	(*)	5.84	5.89	6.43	6.48	(*)	
3731	Ship building and repairing .....	240.24	247.98	254.39	261.51	—	6.24	6.31	6.82	6.90	—	
3732	Boat building and repairing .....	179.60	181.70	194.44	202.24	—	4.57	4.60	5.09	5.12	—	
374	Railroad equipment .....	286.94	273.02	313.88	317.09	—	7.12	7.11	7.75	7.81	—	
375,9	Other transportation equipment .....	181.58	183.91	183.68	190.09	—	4.68	4.74	5.06	5.11	—	
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> ..	205.53	204.40	219.60	224.54	222.49	5.10	5.11	5.49	5.49	5.48	
381	Engineering and scientific instruments ..	218.69	220.86	237.15	246.03	—	5.36	5.40	5.87	5.83	—	
382	Mechanical measuring and control devices	203.50	201.60	215.06	222.22	(*)	5.00	4.99	5.39	5.42	(*)	
3821	Mechanical measuring devices .....	208.08	208.28	218.20	227.00	—	5.10	5.13	5.51	5.55	—	
3822	Automatic temperature controls .....	195.69	190.00	211.01	213.72	—	4.82	4.75	5.21	5.20	—	
383,5	Optical and ophthalmic goods .....	182.91	181.49	198.00	200.07	199.51	4.55	4.56	4.95	4.94	4.89	
385	Ophthalmic goods .....	165.42	164.51	169.93	176.34	—	4.22	4.24	4.46	4.51	—	
384	Medical instruments and supplies .....	178.48	174.92	187.46	188.50	—	4.53	4.52	4.77	4.76	—	
386	Photographic equipment and supplies .....	264.04	267.62	288.40	296.38	(*)	6.44	6.48	7.00	6.99	(*)	
387	Watches, clocks, and watchcases .....	163.90	162.68	172.38	177.28	—	4.16	4.15	4.42	4.41	—	
39	<b>MISC. MANUFACTURING INDUSTRIES</b> .....	167.81	166.10	174.12	179.14	179.08	4.27	4.27	4.57	4.57	4.58	
391	Jewelry, silverware, and plated ware .....	177.18	172.93	172.42	182.58	184.86	4.52	4.48	4.66	4.73	4.74	
394	Toys and sporting goods .....	153.65	152.87	162.21	166.88	—	3.96	3.95	4.28	4.29	—	
3941-3	Games, toys, dolls and play vehicles ..	144.40	144.02	150.38	156.79	—	3.80	3.78	4.12	4.17	—	
3949	Sporting and athletic goods, nec .....	162.36	161.11	172.82	176.44	—	4.10	4.11	4.42	4.40	—	
395	Pens, pencils, office and art supplies .....	171.23	171.17	192.70	196.23	—	4.27	4.29	4.70	4.65	—	
396	Costume jewelry and notions .....	149.29	147.82	149.92	155.57	—	3.77	3.80	4.02	4.02	—	
393,9	Other manufacturing industries .....	180.45	178.55	185.27	191.00	189.24	4.58	4.59	4.85	4.86	4.89	
393	Musical instruments and parts .....	167.14	164.44	171.83	177.91	—	4.21	4.26	4.44	4.47	—	
	<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	206.71	208.30	220.35	223.00	222.87	5.22	5.26	5.65	5.66	5.70	
201	Meat products .....	205.74	206.66	219.08	217.54	218.50	5.33	5.34	5.72	5.68	5.69	
2011	Meat packing plants .....	261.04	258.08	277.30	217.16	—	6.29	6.31	6.83	6.82	—	
2013	Sausages and other prepared meats .....	244.05	251.93	260.95	252.56	—	6.21	6.33	6.64	6.56	—	
2015	Poultry dressing plants .....	119.02	122.46	128.82	132.47	—	3.43	3.44	3.67	3.69	—	

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES . . . . .</b>	40.2	39.9	39.4	40.1	39.8	2.3	2.3	2.8	2.7	—
361	Electric test and distributing equipment . . . . .	40.4	39.9	39.6	40.8	40.6	2.3	2.0	2.7	2.7	—
3611	Electric measuring instruments . . . . .	40.2	39.7	40.8	41.0	—	1.9	1.7	2.6	2.7	—
3612	Transformers . . . . .	40.8	40.4	40.2	41.2	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus . . . . .	40.2	39.8	38.1	40.4	—	—	—	—	—	—
362	Electrical industrial apparatus . . . . .	40.1	40.2	40.9	40.8	40.4	2.3	2.4	3.3	2.7	—
3621	Motors and generators . . . . .	40.3	40.6	41.3	41.0	—	2.6	2.8	3.8	3.0	—
3622	Industrial controls . . . . .	39.0	38.8	38.8	39.4	—	1.2	1.4	1.7	1.7	—
363	Household appliances . . . . .	39.7	39.2	39.5	40.2	39.5	2.2	2.0	2.4	2.8	—
3632	Household refrigerators and freezers . . . . .	41.1	40.8	42.7	43.0	—	—	—	—	—	—
3633	Household laundry equipment . . . . .	37.7	36.5	39.8	39.5	—	—	—	—	—	—
3634	Electric housewares and fans . . . . .	39.0	38.9	38.0	39.5	—	1.8	1.6	2.2	2.4	—
364	Electric lighting and wiring equipment . . . . .	39.9	39.5	38.9	40.3	40.4	2.2	2.0	2.7	2.7	—
3641	Electric lamps . . . . .	41.6	40.4	40.2	40.6	—	2.2	1.6	2.6	2.4	—
3642	Lighting fixtures . . . . .	38.7	38.6	37.1	38.1	—	2.0	2.0	2.3	2.4	—
3643,4	Wiring devices . . . . .	39.9	39.6	39.6	41.6	—	2.3	2.2	3.0	3.0	—
365	Radio and TV receiving equipment . . . . .	38.1	38.0	37.7	38.2	(*)	1.2	2.2	1.5	1.7	—
366	Communication equipment . . . . .	41.5	41.1	39.6	40.3	39.9	2.6	2.5	2.7	2.7	—
3661	Telephone and telegraph apparatus . . . . .	42.0	41.9	39.1	39.6	—	—	—	—	—	—
3662	Radio and TV communication equipment . . . . .	41.1	40.4	39.9	40.9	—	2.4	2.0	3.0	3.0	—
367	Electronic components and accessories . . . . .	40.0	39.7	38.8	39.8	39.3	2.1	1.9	2.9	2.6	—
3671-3	Electron tubes . . . . .	41.1	40.1	39.9	39.9	—	1.7	1.0	3.1	3.0	—
3674,9	Other electronic components . . . . .	39.8	39.6	38.7	39.8	—	2.2	2.0	2.9	2.5	—
369	Miscellaneous electrical equip. and supplies . . . . .	41.0	40.8	39.9	39.9	40.5	3.4	3.7	4.1	3.6	—
3694	Engine electrical equipment . . . . .	40.8	41.2	39.5	39.2	—	—	—	—	—	—
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	42.4	42.0	40.0	41.4	41.8	4.7	4.6	4.2	4.4	—
371	Motor vehicles and equipment . . . . .	44.4	43.9	41.0	42.5	(*)	6.5	6.2	4.9	5.4	—
3711	Motor vehicles . . . . .	45.7	44.4	41.0	43.7	—	7.7	6.2	5.4	6.0	—
3712	Passenger car bodies . . . . .	45.8	43.0	36.7	39.4	—	—	—	—	—	—
3713	Truck and bus bodies . . . . .	40.8	40.4	40.2	39.6	—	—	—	—	—	—
3714	Motor vehicle parts and accessories . . . . .	43.7	44.1	41.6	42.4	—	5.7	6.6	4.6	5.1	—
3715	Truck trailers . . . . .	40.9	39.9	39.8	39.9	—	—	—	—	—	—
372	Aircraft and parts . . . . .	41.7	41.1	40.9	42.5	42.2	2.9	2.7	4.5	3.9	—
3721	Aircraft . . . . .	41.8	41.2	41.3	41.8	—	2.3	2.1	3.7	3.3	—
3722	Aircraft engines and engine parts . . . . .	41.0	40.6	38.3	42.9	—	3.0	3.1	5.4	4.1	—
3723,9	Other aircraft parts and equipment . . . . .	42.1	41.7	43.3	43.6	—	3.9	3.7	5.1	5.1	—
373	Ship and boat building and repairing . . . . .	38.7	39.4	37.5	38.2	(*)	2.7	3.3	2.4	2.5	—
3731	Ship building and repairing . . . . .	38.5	39.3	37.3	37.9	—	—	—	—	—	—
3732	Boat building and repairing . . . . .	39.3	39.5	38.2	39.5	—	—	—	—	—	—
374	Railroad equipment . . . . .	40.3	38.4	40.5	40.6	—	2.4	1.8	3.3	3.2	—
375,9	Other transportation equipment . . . . .	38.8	38.8	36.3	37.2	—	2.5	2.7	2.0	2.4	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS.</b>	40.3	40.0	40.0	40.9	40.6	2.3	2.2	2.9	2.6	—
381	Engineering and scientific instruments . . . . .	40.8	40.9	40.4	42.2	—	2.5	2.4	2.9	3.0	—
382	Mechanical measuring and control devices . . . . .	40.7	40.4	39.9	41.0	(*)	2.6	2.6	3.1	2.9	—
3821	Mechanical measuring devices . . . . .	40.8	40.6	39.6	40.9	—	2.6	2.7	3.4	3.2	—
3822	Automatic temperature controls . . . . .	40.6	40.0	40.5	41.1	—	2.5	2.3	2.7	2.3	—
383,5	Optical and ophthalmic goods . . . . .	40.2	39.8	40.0	40.5	40.8	2.3	1.7	2.7	2.2	—
385	Ophthalmic goods . . . . .	39.2	38.8	38.1	39.1	—	1.9	1.5	1.9	1.7	—
384	Medical instruments and supplies . . . . .	39.4	38.7	39.3	39.6	—	2.4	2.0	2.4	2.1	—
386	Photographic equipment and supplies . . . . .	41.0	41.3	41.2	42.4	(*)	2.1	2.4	3.3	3.4	—
387	Watches, clocks, and watch cases . . . . .	39.4	39.2	39.0	40.2	—	1.8	1.7	2.8	1.5	—
39	<b>MISC. MANUFACTURING INDUSTRIES . . . . .</b>	39.3	38.9	38.1	39.2	39.1	2.0	1.9	2.3	2.2	—
391	Jewelry, silverware, and plated ware . . . . .	39.2	38.6	37.0	38.6	39.0	2.4	2.1	2.4	2.6	—
394	Toys and sporting goods . . . . .	38.8	38.7	37.9	38.9	—	1.6	1.4	1.7	1.6	—
3941-3	Games, toys, dolls and play vehicles . . . . .	38.0	38.1	36.5	37.6	—	—	—	—	—	—
3949	Sporting and athletic goods, nec . . . . .	39.6	39.2	39.1	40.1	—	—	—	—	—	—
395	Pens, pencils, office and art supplies . . . . .	40.1	39.9	41.0	42.2	—	2.3	2.1	3.1	3.3	—
396	Costume jewelry and notions . . . . .	39.6	38.9	37.2	38.7	—	1.9	1.7	2.6	2.3	—
393,9	Other manufacturing industries . . . . .	39.4	38.9	38.2	39.3	38.7	2.1	2.1	2.4	2.3	—
393	Musical instruments and parts . . . . .	39.7	38.6	38.7	39.8	—	1.8	1.4	1.8	2.0	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS . . . . .</b>	39.6	39.6	39.0	39.4	39.1	3.5	3.6	3.8	3.6	—
201	Meat products . . . . .	38.6	38.7	38.3	38.3	38.4	3.4	3.5	3.4	3.1	—
2011	Meat packing plants . . . . .	41.5	40.9	40.6	40.2	—	4.5	4.3	4.1	3.6	—
2013	Sausages and other prepared meats . . . . .	39.3	39.8	39.3	38.5	—	—	—	—	—	—
2015	Poultry dressing plants . . . . .	34.7	35.6	35.1	35.9	—	—	—	—	—	—

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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>FOOD AND KINDRED PRODUCTS—Continued</b>										
202	Dairy products .....	\$213.69	\$216.24	\$227.14	\$227.14	\$229.48	\$5.10	\$5.10	\$5.54	\$5.54	\$5.57
2024	Ice cream and frozen desserts .....	205.25	206.74	212.94	222.77	—	5.17	5.13	5.46	5.46	—
2026	Fluid milk .....	224.12	227.48	238.14	236.55	—	5.20	5.17	5.67	5.70	—
203	Canned, cured, and frozen foods .....	167.69	168.72	186.38	184.26	—	4.52	4.56	4.97	4.94	—
2031,6	Canned, cured, and frozen sea foods .....	136.55	136.01	162.08	157.54	—	4.04	4.06	4.54	4.54	—
2032,3	Canned food, except sea foods .....	183.82	182.90	205.29	202.75	—	4.85	4.93	5.36	5.28	—
2037	Frozen fruits and vegetables .....	157.45	162.43	168.67	169.26	—	4.21	4.23	4.51	4.55	—
204	Grain mill products .....	238.15	239.64	259.37	263.44	(*)	5.50	5.56	6.06	6.07	(*)
2041	Flour and other grain mill products .....	268.06	267.72	284.21	295.22	—	5.84	5.82	6.43	6.46	—
2042	Prepared feeds for animals and fowls .....	199.79	205.11	219.30	223.42	—	4.69	4.77	5.16	5.22	—
205	Bakery products .....	207.34	208.74	221.76	225.04	224.46	5.33	5.38	5.76	5.80	5.80
2051	Bread, cake, and related products .....	205.25	206.66	221.56	220.80	—	5.29	5.34	5.74	5.78	—
2052	Cookies and crackers .....	214.88	213.56	222.91	238.32	—	5.44	5.49	5.82	5.87	—
206	Sugar .....	236.02	244.62	259.38	265.06	—	5.96	6.07	6.55	6.61	—
207	Confectionery and related products .....	189.60	187.07	184.37	199.80	200.21	4.74	4.76	5.01	5.11	5.16
2071	Confectionery products .....	177.58	176.02	174.80	188.67	—	4.53	4.56	4.75	4.85	—
208	Beverages .....	246.98	254.29	257.13	267.85	(*)	6.19	6.31	6.61	6.73	(*)
2082	Malt liquors .....	346.72	363.10	362.09	381.01	—	8.12	8.29	8.81	9.05	—
2086	Bottled and canned soft drinks .....	179.64	182.75	189.88	196.33	—	4.63	4.71	5.01	5.06	—
209	Miscellaneous foods and kindred products ..	212.25	210.82	215.74	222.07	218.43	5.09	5.08	5.38	5.39	5.42
21	<b>TOBACCO MANUFACTURES .....</b>	202.07	211.30	227.02	239.86	245.85	5.36	5.59	5.99	6.23	6.32
211	Cigarettes .....	245.25	249.10	275.48	289.74	—	6.37	6.42	7.10	7.28	—
212	Cigars .....	124.49	122.54	129.18	135.74	—	3.42	3.33	3.52	3.61	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	155.93	155.19	166.40	168.06	168.05	3.85	3.87	4.16	4.16	4.17
221	Weaving mills, cotton .....	161.98	160.00	175.46	172.91	173.77	3.97	3.99	4.29	4.28	4.28
222	Weaving mills, synthetics .....	161.99	165.24	180.96	181.40	180.09	3.99	4.07	4.35	4.35	4.35
223	Weaving and finishing mills, wool .....	158.37	160.34	171.17	177.57	174.22	3.92	3.93	4.29	4.31	4.27
224	Narrow fabric mills .....	144.84	144.14	150.54	154.82	156.01	3.63	3.64	3.89	3.89	3.91
225	Knitting mills .....	142.32	139.03	148.93	152.48	152.46	3.64	3.63	3.94	3.94	3.96
2251	Women's hosiery, except socks .....	125.03	123.71	137.58	141.60	—	3.37	3.38	3.63	3.64	—
2252	Hosiery, nec .....	129.16	126.14	138.34	139.07	—	3.39	3.40	3.65	3.65	—
2253	Knit outerwear mills .....	141.72	135.79	140.89	145.13	—	3.71	3.67	3.86	3.87	—
2254	Knit underwear mills .....	131.43	125.63	139.11	140.23	—	3.37	3.35	3.69	3.70	—
226	Textile finishing, except wool .....	172.23	175.56	181.63	185.54	183.34	4.15	4.17	4.43	4.46	4.45
227	Floor covering mills .....	164.76	167.20	175.46	183.15	—	3.97	4.00	4.29	4.34	—
228	Yarn and thread mills .....	148.83	148.88	159.54	160.72	160.33	3.63	3.64	3.92	3.92	3.92
229	Miscellaneous textile goods .....	174.30	169.68	183.26	183.77	184.17	4.19	4.20	4.57	4.56	4.57
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	126.74	124.95	134.37	138.87	139.98	3.57	3.57	3.85	3.89	3.91
231	Men's and boys' suits and coats .....	158.68	154.88	170.59	173.24	173.50	4.42	4.40	4.86	4.88	4.86
232	Men's and boys' furnishings .....	113.34	113.05	126.74	128.16	128.52	3.22	3.23	3.56	3.58	3.58
2321	Men's and boys' shirts and nightwear .....	108.39	107.80	125.25	127.02	—	3.16	3.18	3.46	3.48	—
2327	Men's and boys' separate trousers .....	113.10	111.11	128.10	127.75	—	3.25	3.23	3.66	3.65	—
2328	Men's and boys' work clothing .....	117.02	115.16	124.95	123.55	—	3.18	3.19	3.50	3.52	—
233	Women's and misses' outerwear .....	123.76	120.52	127.32	133.04	(*)	3.64	3.63	3.87	3.89	(*)
2331	Women's and misses' blouses and waists ..	120.74	117.57	122.10	128.34	—	3.52	3.52	3.70	3.72	—
2335	Women's and misses' dresses .....	122.95	119.64	125.61	133.33	—	3.67	3.67	3.95	3.98	—
2337	Women's and misses' suits and coats .....	135.05	131.78	135.04	138.84	—	4.13	4.08	4.22	4.22	—
2339	Women's and misses' outerwear, nec .....	112.14	118.68	128.39	132.42	—	3.46	3.46	3.70	3.73	—
234	Women's and children's undergarments .....	119.43	118.17	126.38	129.95	127.81	3.29	3.31	3.56	3.58	3.57
2341	Women's and children's underwear .....	115.43	114.20	122.50	126.00	—	3.18	3.19	3.48	3.50	—
2342	Corsets and allied garments .....	134.32	131.67	140.18	142.86	—	3.68	3.73	3.83	3.83	—
235	Hats, caps, and millinery .....	115.32	112.68	127.39	127.78	—	3.10	3.13	3.49	3.52	—
236	Children's outerwear .....	117.69	114.43	125.67	124.96	126.72	3.26	3.26	3.54	3.51	3.52
2361	Children's dresses and blouses .....	114.78	111.49	121.80	120.75	—	3.27	3.26	3.48	3.46	—
237,8	Fur goods and miscellaneous apparel .....	130.66	127.45	141.21	147.71	—	3.57	3.55	3.89	3.96	—
239	Miscellaneous fabricated textile products ...	155.07	153.85	155.06	166.38	169.61	4.07	4.07	4.26	4.39	4.44
2391,2	Housefurnishings .....	123.50	119.82	131.04	134.31	—	3.32	3.31	3.61	3.63	—
26	<b>PAPER AND ALLIED PRODUCTS .....</b>	242.53	247.81	262.09	268.36	267.73	5.72	5.79	6.27	6.27	6.27
261,2,6	Paper and pulp mills .....	285.49	295.55	317.02	321.30	319.78	6.43	6.51	7.14	7.14	7.17
263	Paperboard mills .....	294.81	302.62	315.79	317.99	(*)	6.67	6.77	7.31	7.26	(*)
264	Miscellaneous converted paper products .....	209.82	209.90	221.84	229.75	(*)	5.13	5.17	5.56	5.59	(*)
2643	Bags, except textile bags .....	199.51	203.86	212.40	221.24	—	4.89	4.96	5.31	5.37	—
265	Paperboard containers and boxes .....	213.42	217.15	230.36	239.55	240.39	5.18	5.22	5.66	5.69	5.71
2651,2	Folding and setup paperboard boxes .....	201.87	202.28	220.57	228.80	—	4.96	4.97	5.57	5.54	—
2653	Corrugated and solid fiber boxes .....	225.76	231.84	244.19	251.93	—	5.44	5.52	5.87	5.90	—
2654	Sanitary food containers .....	200.08	204.40	213.03	222.68	—	4.88	4.89	5.26	5.34	—

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>FOOD AND KINDRED PRODUCTS—Continued</b>										
202	Dairy products .....	41.9	42.4	41.0	41.0	41.2	4.0	4.4	4.2	4.0	—
2024	Ice cream and frozen desserts .....	39.7	40.3	39.0	40.8	—	—	—	—	—	—
2026	Fluid milk .....	43.1	44.0	42.0	41.5	—	—	—	—	—	—
203	Canned, cured, and frozen foods .....	37.1	37.0	37.5	37.3	—	2.4	2.4	3.2	2.6	—
2031,6	Canned, cured, and frozen sea foods .....	33.8	33.5	35.7	34.7	—	—	—	—	—	—
2032,3	Canned food, except sea foods .....	37.9	37.1	38.3	38.4	—	—	—	—	—	—
2037	Frozen fruits and vegetables .....	37.4	38.4	37.4	37.2	—	—	—	—	—	—
204	Grain mill products .....	43.3	43.1	42.8	43.4	(*)	5.5	5.5	6.2	6.1	—
2041	Flour and other grain mill products .....	45.9	46.0	44.2	45.7	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls .....	42.6	43.0	42.5	42.8	—	—	—	—	—	—
205	Bakery products .....	38.9	38.8	38.5	38.8	38.7	3.2	3.3	3.5	3.3	—
2051	Bread, cake, and related products .....	38.8	38.7	38.6	38.2	—	—	—	—	—	—
2052	Cookies and crackers .....	39.5	38.9	38.3	40.6	—	—	—	—	—	—
206	Sugar .....	39.6	40.3	39.6	40.1	—	2.3	2.1	4.6	3.8	—
207	Confectionery and related products .....	40.0	39.3	36.8	39.1	38.8	2.5	2.3	2.4	2.8	—
2071	Confectionery products .....	39.2	38.6	36.8	38.9	—	—	—	—	—	—
208	Beverages .....	39.9	40.3	38.9	39.8	(*)	3.8	4.1	3.7	3.8	—
2082	Malt liquors .....	42.7	43.8	41.1	42.1	—	—	—	—	—	—
2086	Bottled and canned soft drinks .....	38.8	38.8	37.9	38.8	—	—	—	—	—	—
209	Miscellaneous foods and kindred products .....	41.7	41.5	40.1	41.2	40.3	4.5	4.2	4.5	4.5	—
21	<b>TOBACCO MANUFACTURES .....</b>	37.7	37.8	37.9	38.5	38.9	1.5	1.7	1.8	2.3	—
211	Cigarettes .....	38.5	38.8	38.8	39.8	—	1.7	2.0	1.9	2.9	—
212	Cigars .....	36.4	36.8	36.7	37.6	—	.6	.6	1.0	1.0	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	40.5	40.1	40.0	40.4	40.3	3.5	3.3	3.5	3.5	—
221	Weaving mills, cotton .....	40.8	40.1	40.9	40.4	40.6	3.8	3.5	3.9	3.6	—
222	Weaving mills, synthetics .....	40.6	40.6	41.6	41.7	41.4	3.3	2.7	3.8	3.7	—
223	Weaving and finishing mills, wool .....	40.4	40.8	39.9	41.2	40.8	3.2	2.8	3.6	3.6	—
224	Narrow fabric mills .....	39.9	39.6	38.7	39.8	39.9	3.0	2.8	2.9	2.8	—
225	Knitting mills .....	39.1	38.3	37.8	38.7	38.5	2.9	2.8	2.7	2.8	—
2251	Women's hosiery, except socks .....	37.1	36.6	37.9	38.9	—	—	—	—	—	—
2252	Hosiery, nec .....	38.1	37.1	37.9	38.1	—	—	—	—	—	—
2253	Knit outerwear mills .....	38.2	37.0	36.5	37.5	—	—	—	—	—	—
2254	Knit underwear mills .....	39.0	37.5	37.7	37.9	—	—	—	—	—	—
226	Textile finishing, except wool .....	41.5	42.1	41.0	41.6	41.2	4.0	4.4	4.0	4.4	—
227	Floor covering mills .....	41.5	41.8	40.9	42.2	—	3.8	4.5	3.7	4.3	—
228	Yarn and thread mills .....	41.0	40.9	40.7	41.0	40.9	3.9	3.6	3.9	3.9	—
229	Miscellaneous textile goods .....	41.6	40.4	40.1	40.3	40.3	3.9	3.5	4.1	3.6	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS .....</b>	35.5	35.0	34.9	35.7	35.8	1.2	1.0	1.2	1.2	—
231	Men's and boys' suits and coats .....	35.9	35.2	35.1	35.5	35.7	.9	.7	.7	.7	—
232	Men's and boys' furnishings .....	35.2	35.0	35.6	35.8	35.9	1.0	.8	1.0	1.0	—
2321	Men's and boys' shirts and nightwear .....	34.3	33.9	36.2	36.5	—	1.0	.7	1.0	1.1	—
2327	Men's and boys' separate trousers .....	34.8	34.4	35.0	35.0	—	.8	.9	1.0	.9	—
2328	Men's and boys' work clothing .....	36.8	36.1	35.7	35.1	—	1.2	.9	.9	.7	—
233	Women's and misses' outerwear .....	34.0	33.2	32.9	34.2	(*)	1.2	1.0	1.1	1.2	—
2331	Women's and misses' blouses and waists .....	34.3	33.4	33.0	34.5	—	—	—	—	—	—
2335	Women's and misses' dresses .....	33.5	32.6	31.8	33.5	—	1.1	.9	1.0	1.1	—
2337	Women's and misses' suits and coats .....	32.7	32.3	32.0	32.9	—	1.1	.7	1.2	1.2	—
2339	Women's and misses' outerwear, nec .....	35.3	34.3	34.7	35.5	—	1.4	1.3	1.2	1.3	—
234	Women's and children's undergarments .....	36.3	35.7	35.5	36.3	35.8	.9	.7	1.0	1.0	—
2341	Women's and children's underwear .....	36.3	35.8	35.2	36.0	—	—	—	—	—	—
2342	Corsets and allied garments .....	36.5	35.3	36.6	37.3	—	—	—	—	—	—
235	Hats, caps, and millinery .....	37.2	36.0	36.5	36.3	—	1.4	1.1	1.1	1.1	—
236	Children's outerwear .....	36.1	35.1	35.5	35.6	36.0	1.4	.9	2.1	1.6	—
2361	Children's dresses and blouses .....	35.1	34.2	35.0	34.9	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel .....	36.6	35.9	36.3	37.3	—	1.0	.7	1.0	1.1	—
239	Miscellaneous fabricated textile products .....	38.1	37.8	36.4	37.9	38.2	1.7	1.7	1.6	2.0	—
2391,2	Housefurnishings .....	37.2	36.2	36.3	37.0	—	—	—	—	—	—
26	<b>PAPER AND ALLIED PRODUCTS .....</b>	42.4	42.8	41.8	42.8	42.7	4.4	4.6	4.9	4.9	—
261,2,6	Paper and pulp mills .....	44.4	45.4	44.4	45.0	44.6	5.8	6.3	6.2	6.3	—
263	Paperboard mills .....	44.2	44.7	43.2	43.8	(*)	6.9	7.2	7.4	6.8	—
264	Miscellaneous converted paper products .....	40.9	40.6	39.9	41.1	(*)	3.3	3.1	3.7	3.7	—
2643	Bags, except textile bags .....	40.8	41.1	40.0	41.2	—	—	—	—	—	—
265	Paperboard containers and boxes .....	41.2	41.6	40.7	42.1	42.1	3.2	3.4	4.0	4.0	—
2651,2	Folding and setup paperboard boxes .....	40.7	40.7	39.6	41.3	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes .....	41.5	42.0	41.6	42.7	—	3.6	4.0	4.4	4.4	—
2654	Sanitary food containers .....	41.0	41.8	40.5	41.7	—	—	—	—	—	—

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
	<b>NONDURABLE GOODS—Continued</b>										
27	<b>PRINTING AND PUBLISHING</b> .....	\$224.47	\$223.65	\$235.85	\$241.80	\$240.90	\$5.97	\$5.98	\$6.34	\$6.38	\$6.39
271	Newspapers .....	220.74	224.74	236.94	235.27	238.70	6.55	6.61	7.01	6.94	7.00
272	Periodicals .....	229.90	235.74	246.00	247.54	—	6.05	6.22	6.56	6.48	—
273	Books .....	208.35	201.68	212.24	214.49	—	5.17	5.08	5.47	5.43	—
275	Commercial printing .....	233.40	231.21	243.72	255.45	252.72	6.00	5.99	6.38	6.50	6.48
2751	Commercial printing, except lithographic .....	222.53	223.29	237.84	245.46	—	5.78	5.83	6.21	6.31	—
2752	Commercial printing, lithographic .....	252.80	244.44	254.98	271.26	—	6.40	6.30	6.71	6.85	—
278	Blankbooks and bookbinding .....	185.40	180.50	186.63	193.25	191.69	4.67	4.64	4.81	4.88	4.89
274,6,7,9	Other publishing and printing ind .....	230.23	226.86	242.19	247.04	246.65	5.98	5.97	6.34	6.40	6.39
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	258.96	262.71	281.37	285.18	283.98	6.21	6.27	6.78	6.79	6.81
281	Industrial chemicals .....	291.06	299.90	321.48	325.89	323.67	6.93	7.04	7.60	7.65	7.67
2812	Alkalies and chlorine .....	284.69	317.58	339.40	336.84	—	6.91	7.42	7.93	7.87	—
2818	Industrial organic chemicals, nec .....	315.09	329.95	345.98	353.56	—	7.52	7.62	8.16	8.28	—
2819	Industrial inorganic chemicals, nec .....	281.90	283.33	304.61	306.49	—	6.68	6.73	7.27	7.28	—
282	Plastics materials and synthetics .....	253.95	257.88	277.31	280.45	(*)	6.09	6.14	6.65	6.63	(*)
2821	Plastics materials and resins .....	274.38	276.62	291.33	297.90	—	6.25	6.33	6.92	6.88	—
2823,4	Synthetic fibers .....	228.57	234.36	254.20	256.26	—	5.70	5.73	6.17	6.16	—
283	Drugs .....	237.46	236.47	254.81	258.34	253.78	5.82	5.81	6.23	6.24	6.22
2834	Pharmaceutical preparations .....	231.42	230.45	250.29	252.97	—	5.70	5.69	6.18	6.14	—
284	Soap, cleaners, and toilet goods .....	241.98	241.40	256.64	262.99	(*)	5.96	5.99	6.40	6.43	(*)
2841	Soap and other detergents .....	318.10	318.02	344.11	349.59	—	7.52	7.59	8.04	8.13	—
2844	Toilet preparations .....	193.45	191.88	199.50	207.11	—	4.91	4.92	5.25	5.27	—
285	Paints and allied products .....	238.14	236.87	251.74	257.92	256.88	5.78	5.82	6.17	6.23	6.25
287	Agricultural chemicals .....	244.64	242.44	260.15	259.19	(*)	5.51	5.51	6.15	6.07	(*)
2871,2	Fertilizers, complete and mixing only .....	232.51	231.54	237.84	239.68	—	5.11	5.10	5.69	5.60	—
286,9	Other chemical products .....	240.77	243.60	257.45	259.78	259.78	5.76	5.80	6.31	6.29	6.29
2892	Explosives .....	229.60	231.54	235.13	240.52	—	5.60	5.62	6.06	6.12	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	327.17	328.79	358.68	361.96	379.90	7.68	7.70	8.40	8.34	8.48
291	Petroleum refining .....	357.00	361.24	397.75	398.36	(*)	8.40	8.46	9.25	9.20	(*)
295,9	Other petroleum and coal products .....	239.68	239.25	243.78	260.17	262.84	5.60	5.59	5.86	5.94	5.96
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> .....	207.24	207.46	209.21	214.25	216.40	5.03	5.06	5.31	5.29	5.33
301	Tires and inner tubes .....	324.30	322.99	304.20	298.57	(*)	7.05	7.13	7.33	7.30	(*)
302,3,6	Other rubber products .....	200.38	203.09	208.29	216.41	217.48	4.96	4.99	5.30	5.37	5.41
302	Rubber footwear .....	131.69	130.31	137.25	144.01	—	3.54	3.58	3.75	3.77	—
307	Miscellaneous plastics products .....	174.44	174.76	183.61	191.16	188.87	4.35	4.38	4.72	4.72	4.71
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	131.04	132.49	140.48	143.96	144.74	3.61	3.61	3.87	3.87	3.87
311	Leather tanning and finishing .....	181.82	183.85	198.40	201.69	205.22	4.65	4.69	5.01	4.98	5.03
314	Footwear, except rubber .....	123.53	125.58	133.57	136.90	137.64	3.47	3.45	3.70	3.72	3.71
312,3,5-7,9	Other leather products .....	132.45	131.04	137.06	140.96	140.21	3.57	3.60	3.85	3.82	3.81
316	Luggage .....	131.04	136.88	136.62	144.32	—	3.61	3.74	3.96	3.89	—
317	Handbags and personal leather goods .....	128.08	122.50	133.79	135.01	—	3.49	3.49	3.79	3.74	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	267.73	271.32	293.53	295.07	297.88	6.71	6.80	7.32	7.34	7.41
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	313.28	312.91	351.00	(*)	—	7.12	7.21	7.87	(*)	—
411	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b> Local and suburban transportation .....	220.81	223.26	234.08	235.85	—	5.59	5.71	6.08	6.11	—
413	Intercity highway transportation .....	263.63	290.32	274.82	279.19	—	7.03	7.24	7.55	7.67	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	270.14	273.76	294.26	297.68	—	6.67	6.81	7.32	7.35	—
421,3	Trucking and trucking terminals .....	277.17	280.78	301.85	305.31	—	6.81	6.95	7.49	7.52	—
422	Public warehousing .....	186.31	189.50	204.97	211.60	—	4.89	5.00	5.31	5.29	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	349.84	351.88	379.89	382.45	—	8.29	8.26	9.11	9.02	—
48	<b>COMMUNICATION</b> .....	262.28	263.07	292.50	288.15	—	6.64	6.66	7.24	7.24	—
481	Telephone communication .....	265.84	267.70	297.27	292.07	—	6.73	6.76	7.34	7.32	—
4817	Switchboard operating employees <sup>3</sup> .....	192.63	198.70	228.86	209.23	—	5.75	5.81	6.27	6.10	—
4818	Line construction employees <sup>4</sup> .....	339.70	340.49	401.34	395.58	—	7.90	7.90	8.84	8.83	—
482	Telegraph communication <sup>5</sup> .....	296.38	287.87	(*)	(*)	—	6.99	6.92	(*)	(*)	—
483	Radio and television broadcasting .....	243.36	245.55	275.58	279.96	—	6.24	6.28	7.03	7.16	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
<b>NONDURABLE GOODS—Continued</b>											
27	<b>PRINTING AND PUBLISHING</b> .....	37.6	37.4	37.2	37.9	37.7	2.6	2.6	2.8	3.1	—
271	Newspapers .....	33.7	34.0	33.8	33.9	34.1	1.5	1.8	1.7	1.7	—
272	Periodicals .....	38.0	37.9	37.5	38.2	—	2.1	3.0	2.7	3.3	—
273	Books .....	40.3	39.7	38.8	39.5	—	3.9	3.8	4.0	4.0	—
275	Commercial printing .....	38.9	38.6	38.2	39.3	39.0	3.2	3.0	3.3	3.8	—
2751	Commercial printing, except lithographic .....	38.5	38.3	38.3	38.9	—	2.8	2.8	3.2	3.5	—
2752	Commercial printing, lithographic .....	39.5	38.8	38.0	39.6	—	3.6	3.2	3.5	4.2	—
278	Blankbooks and bookbinding .....	39.7	38.9	38.8	39.6	39.2	2.6	2.3	2.4	2.6	—
274,6,7,9	Other publishing and printing ind .....	38.5	38.0	38.2	38.6	38.6	2.3	2.1	2.9	2.9	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	41.7	41.9	41.5	42.0	41.7	3.3	3.6	3.7	3.6	—
281	Industrial chemicals .....	42.0	42.6	42.3	42.6	42.2	3.5	4.1	4.0	3.8	—
2812	Alkalies and chlorine .....	41.2	42.8	42.8	42.8	—	—	—	—	—	—
2818	Industrial organic chemicals, nec .....	41.9	43.3	42.4	42.7	—	3.3	4.1	3.7	3.7	—
2819	Industrial inorganic chemicals, nec .....	42.2	42.1	41.9	42.1	—	3.5	3.5	3.6	3.3	—
282	Plastics materials and synthetics .....	41.7	42.0	41.7	42.3	(*)	3.1	3.4	3.5	3.3	—
2821	Plastics materials and resins .....	43.9	43.7	42.1	43.3	—	4.5	4.5	4.8	4.6	—
2823,4	Synthetic fibers .....	40.1	40.9	41.2	41.6	—	2.1	2.6	2.6	2.3	—
283	Drugs .....	40.8	40.7	40.9	41.4	40.8	2.9	2.8	3.0	3.0	—
2834	Pharmaceutical preparations .....	40.6	40.5	40.5	41.2	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods .....	40.6	40.3	40.1	40.9	(*)	2.7	2.4	3.6	3.5	—
2841	Soap and other detergents .....	42.3	41.9	42.8	43.0	—	—	—	—	—	—
2844	Toilet preparations .....	39.4	39.0	38.0	39.3	—	—	—	—	—	—
285	Paints and allied products .....	41.2	40.7	40.8	41.4	41.1	3.1	3.1	3.4	3.5	—
287	Agricultural chemicals .....	44.4	44.0	42.3	42.7	(*)	6.0	6.2	4.8	5.4	—
2871,2	Fertilizers, complete and mixing only .....	45.5	45.4	41.8	42.8	—	—	—	—	—	—
286,9	Other chemical products .....	41.8	42.0	40.8	41.3	41.3	3.3	3.3	3.8	3.6	—
2892	Explosives .....	41.0	41.2	38.8	39.3	—	—	—	—	—	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	42.6	42.7	42.7	43.4	44.8	3.3	3.7	3.9	3.8	—
291	Petroleum refining .....	42.5	42.7	43.0	43.3	(*)	2.8	3.4	3.6	3.2	—
295,9	Other petroleum and coal products .....	42.8	42.8	41.6	43.8	44.1	4.7	4.5	4.9	5.6	—
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> .....	41.2	41.0	39.4	40.5	40.6	3.6	3.6	3.3	3.4	—
301	Tires and inner tubes .....	46.0	45.3	41.5	40.9	(*)	6.5	6.2	3.8	3.4	—
302,3,6	Other rubber products .....	40.4	40.7	39.3	40.3	40.2	3.0	3.3	3.2	3.2	—
302	Rubber footwear .....	37.2	36.4	36.6	38.2	—	1.1	1.1	2.0	1.8	—
307	Miscellaneous plastics products .....	40.1	39.9	38.9	40.5	40.1	3.0	3.0	3.3	3.4	—
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	36.3	36.7	36.3	37.2	37.4	1.6	1.4	1.8	1.9	—
311	Leather tanning and finishing .....	39.1	39.2	39.6	40.5	40.8	3.0	2.9	3.2	3.5	—
314	Footwear, except rubber .....	35.6	36.4	36.1	36.8	37.1	1.3	1.2	1.6	1.7	—
312,3,5,7,9	Other leather products .....	37.1	36.4	35.6	36.9	36.8	1.6	1.5	1.7	1.8	—
316	Luggage .....	36.3	36.6	34.5	37.1	—	1.9	2.2	2.0	2.1	—
317	Handbags and personal leather goods .....	36.7	35.1	35.3	36.1	—	1.4	1.1	1.9	1.7	—
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....											
<b>RAILROAD TRANSPORTATION:</b>											
4011	Class I railroads <sup>2</sup> .....	44.0	43.4	44.6	(*)	—	—	—	—	—	—
<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b>											
411	Local and suburban transportation .....	39.5	39.1	38.5	38.6	—	—	—	—	—	—
413	Intercity highway transportation .....	37.5	40.1	36.4	36.4	—	—	—	—	—	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.5	40.2	40.2	40.5	—	—	—	—	—	—
421,3	Trucking and trucking terminals .....	40.7	40.4	40.3	40.6	—	—	—	—	—	—
422	Public warehousing .....	38.1	37.9	38.6	40.0	—	—	—	—	—	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	42.2	42.6	41.7	42.4	—	—	—	—	—	—
48	<b>COMMUNICATION</b> .....	39.5	39.5	40.4	39.8	—	—	—	—	—	—
481	Telephone communication .....	39.5	39.6	40.5	39.9	—	—	—	—	—	—
4817	Switchboard operating employees <sup>3</sup> .....	33.5	34.2	36.5	34.3	—	—	—	—	—	—
4818	Line construction employees <sup>4</sup> .....	43.0	43.1	45.4	44.8	—	—	—	—	—	—
482	Telegraph communication <sup>5</sup> .....	42.4	41.6	(*)	(*)	—	—	—	—	—	—
483	Radio and television broadcasting .....	39.0	39.1	39.2	39.1	—	—	—	—	—	—

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
—	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	\$282.77	\$284.82	\$310.57	\$307.75	—	\$6.88	\$6.93	\$7.43	\$7.38	—
491	Electric companies and systems	289.39	292.16	318.19	316.50	—	6.99	7.04	7.54	7.50	—
492	Gas companies and systems	265.15	267.32	286.21	283.03	—	6.42	6.52	6.93	6.92	—
493	Combination companies and systems	306.64	308.61	340.67	338.55	—	7.59	7.62	8.15	8.08	—
494-7	Water, steam, and sanitary systems	228.80	228.66	254.14	247.42	—	5.54	5.55	6.08	6.02	—
	<b>WHOLESALE AND RETAIL TRADE</b>	139.02	140.01	147.42	149.11	\$150.88	4.20	4.23	4.55	4.56	\$4.60
50	<b>WHOLESALE TRADE</b>	209.37	212.08	224.84	227.37	230.68	5.41	5.48	5.84	5.86	5.93
501	Motor vehicles and automotive equipment	190.30	190.32	200.69	204.58	—	4.83	4.88	5.24	5.30	—
502	Drugs, chemicals, and allied products	224.27	227.15	241.81	238.85	—	5.81	5.90	6.33	6.22	—
503	Dry goods and apparel	178.14	180.00	191.21	193.04	—	4.99	5.00	5.21	5.26	—
504	Groceries and related products	208.44	209.28	227.50	228.10	—	5.40	5.45	5.94	5.94	—
506	Electrical goods	217.11	221.16	239.16	245.78	—	5.61	5.70	6.07	6.16	—
507	Hardware, plumbing and heating equipment	198.00	202.40	209.34	211.07	—	5.09	5.23	5.48	5.44	—
508	Machinery, equipment, and supplies	230.98	234.40	245.52	248.18	—	5.76	5.86	6.20	6.22	—
509	Miscellaneous wholesalers	205.80	207.86	220.22	222.91	—	5.43	5.47	5.78	5.82	—
52-59	<b>RETAIL TRADE</b> <sup>†</sup>	118.06	119.07	124.85	126.38	128.13	3.76	3.78	4.08	4.09	4.12
53	Retail general merchandise <sup>‡</sup>	111.60	111.30	117.49	120.60	—	3.72	3.71	4.01	4.02	—
531	Department stores	115.83	115.24	119.55	123.61	—	3.90	3.88	4.18	4.19	—
532	Mail order houses	147.03	149.49	153.75	163.30	—	4.51	4.53	4.76	4.86	—
533	Variety stores	84.39	84.39	97.71	97.42	—	2.90	2.89	3.29	3.28	—
54	Food stores	145.96	145.36	157.50	157.00	—	4.59	4.60	5.00	5.00	—
541-3	Grocery, meat, and vegetable stores	150.55	150.25	161.67	161.48	—	4.69	4.71	5.10	5.11	—
56	Apparel and accessory stores	97.24	99.75	103.75	104.24	—	3.33	3.37	3.59	3.57	—
561	Men's and boys' clothing and furnishings	121.28	125.78	129.24	127.84	—	3.79	3.87	4.09	4.02	—
562	Women's ready-to-wear stores	83.98	84.88	91.18	92.50	—	3.01	3.01	3.28	3.28	—
565	Family clothing stores	100.26	100.60	103.95	106.50	—	3.32	3.32	3.56	3.55	—
566	Shoe stores	98.20	105.77	104.53	105.09	—	3.47	3.61	3.72	3.74	—
57	Furniture and home furnishings stores	151.79	154.22	159.25	163.55	—	4.24	4.32	4.55	4.62	—
571	Furniture and home furnishings	155.81	157.60	163.79	167.32	—	4.34	4.39	4.64	4.70	—
58	Eating and drinking places <sup>§</sup>	77.81	79.20	81.38	82.95	—	2.85	2.88	3.13	3.13	—
52,55,59	Other retail trade	147.70	149.92	155.49	157.35	—	4.08	4.13	4.38	4.42	—
52	Building materials and farm equipment	165.85	169.88	171.90	175.24	—	4.22	4.29	4.50	4.54	—
551,2	Motor vehicle dealers	199.87	206.06	208.67	215.73	—	5.06	5.23	5.42	5.56	—
553,9	Other automotive and accessory dealers	167.23	168.82	177.25	178.48	—	4.16	4.21	4.58	4.60	—
591	Drug stores and proprietary stores	106.75	108.46	112.27	113.32	—	3.50	3.51	3.73	3.74	—
594	Book and stationery stores	124.86	125.35	133.42	132.93	—	3.83	3.81	4.08	4.09	—
598	Fuel and ice dealers	187.77	189.60	229.84	207.20	—	4.79	4.80	5.37	5.18	—
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	165.07	166.16	177.14	177.14	181.55	4.51	4.54	4.84	4.84	4.92
60	Banking	138.30	139.78	150.88	149.65	—	3.81	3.84	4.10	4.10	—
61	Credit agencies other than banks	149.63	151.53	160.76	160.02	—	3.99	4.03	4.31	4.29	—
612	Savings and loan associations	143.54	145.04	152.26	151.42	—	3.89	3.92	4.16	4.16	—
62	Security, commodity brokers and services	288.42	292.60	284.87	278.02	—	7.61	7.70	7.38	7.24	—
63	Insurance carriers	176.06	176.43	188.23	187.86	—	4.72	4.73	5.06	5.05	—
631	Life insurance	172.42	173.63	184.50	184.50	—	4.66	4.68	5.00	5.00	—
632	Accident and health insurance	171.76	171.00	184.19	183.92	—	4.52	4.50	4.86	4.84	—
633	Fire, marine, and casualty insurance	179.52	179.79	189.58	189.72	—	4.80	4.82	5.11	5.10	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>										
	SERVICES .....	41.1	41.1	41.8	41.7	—	—	—	—	—	
491	Electric companies and systems .....	41.4	41.5	42.2	42.2	—	—	—	—	—	
492	Gas companies and systems .....	41.3	41.0	41.3	40.9	—	—	—	—	—	
493	Combination companies and systems .....	40.4	40.5	41.8	41.9	—	—	—	—	—	
494-7	Water, steam, and sanitary systems .....	41.3	41.2	41.8	41.1	—	—	—	—	—	
	<b>WHOLESALE AND RETAIL TRADE</b>										
	WHOLESALE TRADE .....	33.1	33.1	32.4	32.7	32.8	—	—	—	—	
50	WHOLESALE TRADE .....	38.7	38.7	38.5	38.8	38.9	—	—	—	—	
501	Motor vehicles and automotive equipment ..	39.4	39.0	38.3	38.6	—	—	—	—	—	
502	Drugs, chemicals, and allied products .....	38.6	38.5	38.2	38.4	—	—	—	—	—	
503	Dry goods and apparel .....	35.7	36.0	36.7	36.7	—	—	—	—	—	
504	Groceries and related products .....	38.6	38.4	38.3	38.4	—	—	—	—	—	
506	Electrical goods .....	38.7	38.8	39.4	39.9	—	—	—	—	—	
507	Hardware; plumbing and heating equipment ..	38.9	38.7	38.2	38.8	—	—	—	—	—	
508	Machinery, equipment, and supplies .....	40.1	40.0	39.6	39.9	—	—	—	—	—	
509	Miscellaneous wholesalers .....	37.9	38.0	38.1	38.3	—	—	—	—	—	
52-59	RETAIL TRADE .....	31.4	31.5	30.6	30.9	31.1	—	—	—	—	
53	Retail general merchandise .....	30.0	30.0	29.3	30.0	—	—	—	—	—	
531	Department stores .....	29.7	29.7	28.6	29.5	—	—	—	—	—	
532	Mail order houses .....	32.6	33.0	32.3	33.6	—	—	—	—	—	
533	Variety stores .....	29.1	29.2	29.7	29.7	—	—	—	—	—	
54	Food stores .....	31.8	31.6	31.5	31.4	—	—	—	—	—	
541-3	Grocery, meat, and vegetable stores .....	32.1	31.9	31.7	31.6	—	—	—	—	—	
56	Apparel and accessory stores .....	29.2	29.6	28.9	29.2	—	—	—	—	—	
561	Men's and boys' clothing and furnishings ..	32.0	32.5	31.6	31.8	—	—	—	—	—	
562	Women's ready-to-wear stores .....	27.9	28.2	27.8	28.2	—	—	—	—	—	
565	Family clothing stores .....	30.2	30.3	29.2	30.0	—	—	—	—	—	
566	Shoe stores .....	28.3	29.3	28.1	28.1	—	—	—	—	—	
57	Furniture and home furnishings stores .....	35.8	35.7	35.0	35.4	—	—	—	—	—	
571	Furniture and home furnishings .....	35.9	35.9	35.3	35.6	—	—	—	—	—	
58	Eating and drinking places <sup>5</sup> .....	27.3	27.5	26.0	26.5	—	—	—	—	—	
52,55,59	Other retail trade .....	36.2	36.3	35.5	35.6	—	—	—	—	—	
52	Building materials and farm equipment .....	39.3	39.6	38.2	38.6	—	—	—	—	—	
551,2	Motor vehicle dealers .....	39.5	39.4	38.5	38.8	—	—	—	—	—	
553,9	Other automotive and accessory dealers ..	40.2	40.1	38.7	38.8	—	—	—	—	—	
591	Drug stores and proprietary stores .....	30.5	30.9	30.1	30.3	—	—	—	—	—	
594	Book and stationery stores .....	32.6	32.9	32.7	32.5	—	—	—	—	—	
598	Fuel and ice dealers .....	39.2	39.5	42.8	40.0	—	—	—	—	—	
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>										
	FINANCE, INSURANCE, AND REAL ESTATE <sup>7</sup> .....	36.6	36.6	36.6	36.6	36.9	—	—	—	—	
60	Banking .....	36.3	36.4	36.8	36.5	—	—	—	—	—	
61	Credit agencies other than banks .....	37.5	37.6	37.3	37.3	—	—	—	—	—	
612	Savings and loan associations .....	36.9	37.0	36.6	36.4	—	—	—	—	—	
62	Security, commodity brokers and services ..	37.9	38.0	38.6	38.4	—	—	—	—	—	
63	Insurance carriers .....	37.3	37.3	37.2	37.2	—	—	—	—	—	
631	Life insurance .....	37.0	37.1	36.9	36.9	—	—	—	—	—	
632	Accident and health insurance .....	38.0	38.0	37.9	38.0	—	—	—	—	—	
633	Fire, marine, and casualty insurance .....	37.4	37.3	37.1	37.2	—	—	—	—	—	

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Apr. 1978 <sup>p</sup>
	<b>SERVICES</b> .....	\$153.85	\$154.51	\$166.16	\$166.33	\$168.50	\$4.62	\$4.64	\$5.02	\$5.01	\$5.06
701	Hotels and other lodging places:										
	Hotels, tourist courts, and motels <sup>6</sup> .....	98.25	99.18	108.37	109.43		3.19	3.22	3.53	3.53	
	Personal services:										
721	Laundries and dry cleaning plants .....	120.40	120.41	128.28	130.15	—	3.44	3.46	3.74	3.74	—
722	Photographic studios .....	121.03	124.33	131.87	134.64	—	3.83	3.87	4.07	4.08	—
	Motion pictures:										
781	Motion picture filming and distributing ...	273.29	271.65	378.14	360.77	—	7.08	7.13	9.43	9.18	—
806	Hospitals .....	153.45	155.38	169.34	170.52	—	4.50	4.57	5.01	5.03	—

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

<sup>2</sup> Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 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 1975, such employees made up 30 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 1975, such employees made up 47 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>5</sup> Data relate to nonsupervisory employees except messengers.

<sup>6</sup> Money payments only; tips, not included.

<sup>7</sup> Data for nonoffice sales agents excluded from all series in this division.

† Beginning February 1977 data not strictly comparable with those previously published due to change in pay practices of a large employer.

\* 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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Mar. 1977	Apr. 1977	Feb. 1978	Mar. p 1978	Apr. p 1978	Mar. 1977	Apr. 1977	Feb. 1978	Mar. p 1978	Apr. p 1978
	<b>SERVICES</b> .....	33.3	33.3	33.1	33.2	33.3	-		-	-	
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	30.8	30.8	30.7	31.0	-	-	-	-	-	
	Personal services:										
721	Laundries and dry cleaning plants .....	35.0	34.8	34.3	34.8	-	-	-	-	-	
722	Photographic studios .....	31.6	32.1	32.4	33.0	-	-	-	-	-	
	Motion pictures:										
781	Motion picture filming and distributing ...	38.6	38.1	40.1	39.3	-	-	-	-	-	
806	Hospitals .....	34.1	34.0	33.8	33.9	-	-	-	-	-	

# 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
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<b>Executive Branch</b>													
Total employment . . . . .	2,645.8	2,654.9	2,662.8	2,664.0	2,675.8	2,712.3	2,720.5	2,704.7	2,665.4	2,662.5	2,664.3	2,673.1	2,659.5
Average weekly hours . . . . .	39.4	39.5	39.3	39.2	39.2	39.3	39.7	39.7	39.4	39.8	39.4	40.0	39.6
Average overtime hours . . . . .	1.0	1.0	.9	.9	.9	1.0	1.1	1.2	1.3	1.2	1.1	1.6	1.2
Indexes (1967=100):													
Average weekly earnings . . . . .	208.9	209.2	208.7	208.7	209.2	208.9	211.1	212.7	214.9	226.9	225.9	230.5	229.0
Average hourly earnings . . . . .	208.9	208.6	209.2	209.7	210.3	209.5	209.5	211.1	214.9	224.6	225.9	227.0	227.8
<b>Department of Defense</b>													
Total employment . . . . .	918.4	917.6	918.4	917.4	920.0	932.0	931.6	922.0	909.1	907.8	909.8	907.7	906.4
Average weekly hours . . . . .	39.9	40.0	39.9	39.6	39.9	39.9	40.0	40.0	39.9	39.9	39.8	40.0	39.9
Average overtime hours . . . . .	.7	.7	.7	.7	.7	.8	.7	.8	1.1	.9	.9	.8	.7
Indexes (1967=100):													
Average weekly earnings . . . . .	202.3	204.2	203.9	204.3	204.8	203.7	203.4	204.2	208.0	217.4	220.9	220.4	221.8
Average hourly earnings . . . . .	204.4	205.7	206.0	207.9	206.8	205.7	204.9	205.7	210.1	219.6	223.7	222.1	224.0
<b>Postal service</b>													
Total employment . . . . .	650.0	649.9	652.3	650.7	652.9	655.6	657.5	656.8	655.0	649.2	650.2	668.2	645.6
Average weekly hours . . . . .	40.4	40.0	39.6	39.7	39.3	39.3	40.4	39.9	40.1	41.2	39.8	41.8	41.1
Average overtime hours . . . . .	1.9	1.4	1.2	1.2	1.0	1.1	1.5	1.4	1.7	2.0	1.5	3.5	2.5
Indexes (1967=100):													
Average weekly earnings . . . . .	240.0	238.0	233.3	234.9	235.6	235.0	241.9	248.6	251.5	259.0	253.4	271.7	263.9
Average hourly earnings . . . . .	229.3	227.4	227.4	228.4	231.4	230.8	231.1	240.5	242.1	242.7	245.7	250.9	247.9
<b>Other agencies</b>													
Total employment . . . . .	1,077.4	1,087.4	1,092.1	1,095.9	1,102.9	1,124.7	1,131.4	1,125.9	1,101.3	1,105.5	1,104.3	1,097.2	1,107.5
Average weekly hours . . . . .	38.2	38.5	38.5	38.6	38.6	38.6	39.0	39.3	38.7	38.8	38.9	38.8	38.5
Average overtime hours . . . . .	.8	.9	.9	.9	1.0	1.1	1.3	1.5	1.2	1.1	1.1	1.0	.9
Indexes (1967=100):													
Average weekly earnings . . . . .	197.2	197.5	198.2	198.0	198.7	197.5	200.5	200.1	201.7	216.6	215.4	216.1	216.6
Average hourly earnings . . . . .	200.2	199.0	199.8	199.0	199.8	198.5	199.5	197.5	202.2	216.6	214.9	216.1	218.3

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of 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 supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

## 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. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
<b>MANUFACTURING</b> . . . . .	\$5.27	\$5.31	\$5.69	\$5.72	\$5.75
<b>DURABLE GOODS</b> . . . . .	5.61	5.65	6.05	6.08	6.12
Ordnance and accessories . . . . .	5.92	5.94	6.43	6.47	-
Lumber and wood products . . . . .	4.68	4.72	5.10	5.10	-
Furniture and fixtures . . . . .	4.09	4.12	4.37	4.39	-
Stone, clay, and glass products . . . . .	5.30	5.37	5.69	5.70	-
Primary metal industries . . . . .	6.84	6.92	7.60	7.62	-
Fabricated metal products . . . . .	5.42	5.45	5.79	5.84	-
Machinery, except electrical . . . . .	5.79	5.83	6.22	6.24	-
Electrical equipment and supplies . . . . .	5.04	5.06	5.45	5.47	-
Transportation equipment . . . . .	6.62	6.65	7.11	7.18	-
Instruments and related products . . . . .	4.96	4.98	5.30	5.32	-
Miscellaneous manufacturing industries . . . . .	4.16	4.17	4.43	4.44	-
<b>NONDURABLE GOODS</b> . . . . .	4.77	4.81	5.15	5.16	5.19
Food and kindred products . . . . .	5.00	5.04	5.39	5.42	-
Tobacco manufactures . . . . .	5.26	5.47	5.85	6.04	-
Textile mill products . . . . .	3.69	3.71	3.98	3.99	-
Apparel and other textile products . . . . .	3.51	3.52	3.79	3.83	-
Paper and allied products . . . . .	5.44	5.49	5.92	5.93	-
Printing and publishing . . . . .	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-
Chemicals and allied products . . . . .	5.97	6.01	6.49	6.51	-
Petroleum and coal products . . . . .	7.40	7.38	8.03	7.99	-
Rubber and plastics products, nec . . . . .	4.82	4.85	5.09	5.08	-
Leather and leather products . . . . .	3.54	3.54	3.77	3.77	-

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

<sup>P</sup> = preliminary.

<sup>2</sup> Not available as average overtime rates are significantly above time and one-half. Inclusion of data for the group in the nondurable goods total has little effect.



**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>					
	Mar. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Worker with no dependents			Married worker with 3 dependents		
				Mar. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>	Mar. 1977	Feb. 1978	Mar. 1978 <sup>p</sup>
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$183.96	\$195.61	\$198.89	\$149.44	\$159.57	\$161.93	\$162.27	\$174.64	\$177.11
1967 dollars .....	103.23	103.83	104.84	83.86	84.70	85.36	91.06	92.70	93.36
<b>MINING:</b>									
Current dollars .....	296.29	297.29	303.65	230.40	229.35	233.48	247.66	250.90	255.48
1967 dollars .....	166.27	157.80	160.07	129.29	121.74	123.08	138.98	133.17	134.68
<b>CONTRACT CONSTRUCTION:</b>									
Current dollars .....	289.62	288.84	302.38	226.03	223.86	232.66	242.62	244.76	254.56
1967 dollars .....	162.53	153.31	159.40	126.84	118.82	122.65	136.15	129.92	134.19
<b>MANUFACTURING:</b>									
Current dollars .....	220.30	235.22	240.19	176.05	187.71	191.14	189.58	204.34	208.06
1967 dollars .....	123.63	124.85	126.62	98.79	99.63	100.76	106.39	108.46	109.68
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	267.73	293.53	295.07	210.44	226.91	227.91	225.94	248.19	249.30
1967 dollars .....	150.24	155.80	155.55	118.09	120.44	120.14	126.79	131.74	131.42
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	139.02	147.42	149.11	116.31	124.16	125.43	129.08	137.80	138.96
1967 dollars .....	78.01	78.25	78.60	65.27	65.90	66.12	72.44	73.14	73.25
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	165.07	177.14	177.14	135.81	146.28	146.28	147.87	160.43	160.43
1967 dollars .....	92.63	94.02	93.38	76.21	77.64	77.11	82.98	85.15	84.57
<b>SERVICES:</b>									
Current dollars .....	153.85	166.16	166.33	127.46	138.21	138.33	139.19	151.86	151.99
1967 dollars .....	86.34	88.20	87.68	71.53	73.36	72.92	78.11	80.61	80.12
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100) .....</b>	178.2	188.4	189.7	NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is an estimate of the average change in the prices of goods and services purchased by those consumers, and is used to deflate the current dollar values in this table to the 1967 dollar values shown. A major revision in the Consumer Price Index (revised CPI-W) was introduced with data for January 1978. Data prior to January 1978 in 1967 dollars are based on the unrevised Consumer Price Index for Urban Wage Earners and Clerical Workers (unrevised CPI-W).					

<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).

The data for spendable earnings for the seven month period June-December 1977 are calcu-

lated from formulas which concentrate the full year's effect of tax reduction in those seven months. To compare tax liabilities over the year, these series should be calculated using annual average formulas which reflect the tax reduction impact spread over the entire twelve month period. A technical note on the calculation and uses of the spendable earnings series is available on request.

p = 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. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
	Hours				
<b>TOTAL</b> .....	112.1	113.6	113.2	115.9	118.5
<b>GOODS-PRODUCING</b> .....	96.6	98.4	96.6	100.4	103.8
<b>MINING</b> .....	136.3	138.9	109.5	114.4	145.9
<b>CONTRACT CONSTRUCTION</b> .....	96.8	105.5	92.1	103.1	116.9
<b>MANUFACTURING</b> .....	95.2	95.8	97.0	99.5	100.0
<b>DURABLE GOODS</b> .....	95.1	95.9	98.3	100.9	101.8
Ordnance and accessories .....	38.9	39.9	37.6	39.6	38.8
Lumber and wood products .....	99.2	101.8	102.3	104.7	107.3
Furniture and fixtures .....	103.0	103.0	112.8	114.8	113.9
Stone, clay, and glass products .....	98.0	102.1	99.0	103.6	108.9
Primary metal industries .....	87.5	89.7	89.8	89.8	90.9
Fabricated metal products .....	99.7	99.8	104.3	106.9	107.8
Machinery, except electrical .....	99.2	98.3	107.2	109.5	109.3
Electrical equipment and supplies .....	94.5	94.9	98.9	101.3	101.1
Transportation equipment .....	93.9	94.7	91.6	95.8	98.1
Instruments and related products .....	110.7	110.0	113.5	116.6	115.5
Miscellaneous manufacturing .....	92.8	92.6	89.1	93.6	94.1
<b>NONDURABLE GOODS</b> .....	95.4	95.7	95.1	97.4	97.4
Food and kindred products .....	90.8	90.9	88.9	90.7	89.5
Tobacco manufactures .....	67.9	70.6	71.5	69.7	65.8
Textile mill products .....	98.5	98.5	99.1	100.4	100.2
Apparel and other textile products .....	88.1	86.6	86.1	89.1	89.4
Paper and allied products .....	96.4	98.3	97.6	100.8	100.8
Printing and publishing .....	94.1	94.1	94.1	96.4	96.4
Chemicals and allied products .....	101.7	103.0	103.0	105.0	104.6
Petroleum and coal products .....	113.0	117.5	120.0	123.1	127.8
Rubber and plastics products, nec .....	130.1	131.0	129.5	134.1	135.8
Leather and leather products .....	71.1	72.1	69.4	71.7	72.8
<b>SERVICE-PRODUCING</b> .....	122.8	124.1	124.8	126.8	128.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	102.2	102.4	103.1	104.4	105.0
<b>WHOLESALE AND RETAIL TRADE</b> .....	117.2	118.9	118.0	120.2	122.3
<b>WHOLESALE TRADE</b> .....	115.0	115.5	118.0	119.6	120.3
<b>RETAIL TRADE</b> .....	118.0	120.1	118.0	120.4	123.0
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	129.3	130.3	134.5	135.5	138.1
<b>SERVICES</b> .....	137.9	139.3	141.2	143.2	145.4

<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. 1977	Apr. 1977	Feb. 1978	Mar. 1978 <sup>P</sup>	Apr. 1978 <sup>P</sup>
	Payrolls				
<b>TOTAL</b> .....	213.9	218.6	233.1	239.7	247.7
<b>GOODS-PRODUCING</b> .....	187.8	193.2	201.0	210.5	220.4
<b>MINING</b> .....	289.8	296.1	235.2	246.7	337.1
<b>CONTRACT CONSTRUCTION</b> .....	185.3	202.2	185.7	208.8	235.7
<b>MANUFACTURING</b> .....	184.5	187.0	203.6	209.6	211.9
<b>DURABLE GOODS</b> .....	185.1	187.8	207.0	213.2	216.6
Ordnance and accessories .....	74.8	76.9	79.3	83.6	82.3
Lumber and wood products .....	204.9	212.8	230.8	236.1	243.8
Furniture and fixtures .....	185.8	186.5	219.2	224.0	223.8
Stone, clay, and glass products .....	193.4	204.9	210.7	221.3	236.2
Primary metal industries .....	186.8	194.0	214.9	214.5	219.4
Fabricated metal products .....	189.1	189.9	211.5	218.8	222.5
Machinery, except electrical .....	187.9	187.0	219.8	224.8	224.2
Electrical equipment and supplies .....	176.5	178.1	201.3	206.5	206.3
Transportation equipment .....	191.1	193.4	199.5	211.0	217.1
Instruments and related products .....	198.1	197.3	218.7	224.7	222.3
Miscellaneous manufacturing .....	168.6	168.4	173.1	182.0	183.5
<b>NONDURABLE GOODS</b> .....	183.5	185.5	197.9	203.3	204.0
Food and kindred products .....	179.7	181.2	190.6	194.8	193.5
Tobacco manufactures .....	160.6	174.0	188.8	191.4	183.2
Textile mill products .....	184.2	185.2	200.5	203.2	203.1
Apparel and other textile products .....	155.0	152.3	163.5	170.9	172.0
Paper and allied products .....	192.2	198.0	213.1	220.0	219.9
Printing and publishing .....	171.3	171.5	182.1	187.7	187.8
Chemicals and allied products .....	203.4	208.0	224.9	229.5	229.5
Petroleum and coal products .....	242.7	253.1	281.7	287.0	302.8
Rubber and plastics products, nec .....	238.3	241.4	250.1	258.6	263.4
Leather and leather products .....	124.3	125.9	129.8	134.2	136.1
<b>SERVICE-PRODUCING</b> .....	236.3	240.3	260.7	264.8	271.3
<b>TRANSPORTATION AND PUBLIC   UTILITIES</b> .....	212.2	215.1	233.3	236.7	240.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	219.4	224.0	239.5	244.4	250.8
<b>WHOLESALE TRADE</b> .....	216.5	220.0	239.3	243.5	248.2
<b>RETAIL TRADE</b> .....	221.0	226.1	239.7	244.9	252.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	225.6	229.1	251.8	254.0	263.1
<b>SERVICES</b> .....	278.1	282.3	309.6	313.5	321.3

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

p = preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-7. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

Industry	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	36.2	36.3	36.2	36.1	36.0	36.0	36.2	36.2	36.2	35.6	35.8	36.1	36.2
<b>MINING</b> .....	44.3	44.1	44.1	44.8	44.2	44.3	44.6	44.6	43.7	43.2	43.6	44.7	44.1
<b>CONTRACT CONSTRUCTION</b> .....	37.3	37.4	36.8	36.9	36.5	36.4	36.8	36.9	36.8	34.6	35.7	36.7	37.2
<b>MANUFACTURING</b> .....	40.3	40.4	40.5	40.2	40.3	40.3	40.4	40.5	40.5	39.6	39.9	40.5	40.5
<i>Overtime hours</i> .....	3.4	3.4	3.4	3.4	3.3	3.3	3.5	3.5	3.5	3.5	3.8	3.6	3.6
<b>DURABLE GOODS</b> .....	40.8	41.0	41.2	40.9	40.9	41.0	41.2	41.1	41.2	40.2	40.5	41.1	41.1
<i>Overtime hours</i> .....	3.5	3.6	3.6	3.6	3.5	3.5	3.8	3.7	3.7	3.7	4.0	3.8	3.8
Ordnance and accessories .....	41.0	41.1	40.8	40.3	40.2	40.6	40.8	40.2	41.1	40.2	37.9	39.3	38.5
Lumber and wood products .....	40.0	40.0	39.9	40.4	39.6	40.0	40.1	40.3	40.2	39.4	39.4	40.0	39.8
Furniture and fixtures .....	38.5	38.7	38.9	38.8	39.0	39.2	39.5	39.4	39.5	37.7	39.8	39.9	39.6
Stone, clay, and glass products .....	41.7	41.6	41.6	41.4	41.4	41.0	41.1	41.8	41.6	40.3	40.9	41.4	42.0
Primary metal industries .....	41.4	41.5	41.5	41.1	41.0	40.9	41.3	41.3	41.4	41.0	41.5	41.4	41.5
Fabricated metal products .....	40.8	41.0	41.3	41.0	40.9	40.9	41.1	41.1	41.5	40.3	40.7	41.2	41.3
Machinery, except electrical .....	41.4	41.6	42.0	41.8	41.8	41.8	42.0	41.9	41.9	40.9	41.7	42.1	42.1
Electrical equipment and supplies .....	40.1	40.2	40.4	40.2	40.3	40.3	40.3	40.2	40.3	39.5	39.6	40.2	40.0
Transportation equipment .....	42.0	42.5	42.8	42.0	42.3	42.6	42.7	42.5	42.2	41.1	40.6	41.6	41.8
Instruments and related products .....	40.3	40.4	40.7	40.3	40.3	40.3	40.6	40.4	40.4	39.8	40.3	41.0	40.9
Miscellaneous manufacturing, Ind. ....	39.0	39.0	39.3	38.7	38.8	39.0	39.1	39.0	38.9	38.0	38.3	39.1	39.2
<b>NONDURABLE GOODS</b> .....	39.6	39.5	39.5	39.3	39.3	39.3	39.4	39.5	39.5	38.7	39.1	39.6	39.7
<i>Overtime hours</i> .....	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.2	3.1	3.1	3.4	3.3	3.4
Food and kindred products .....	40.3	40.0	40.0	39.8	39.7	39.5	39.5	39.8	39.7	39.1	39.6	40.0	39.8
Tobacco manufactures .....	38.2	38.4	38.7	38.6	37.8	38.6	38.2	38.8	38.3	37.5	38.5	39.0	39.3
Textile mill products .....	40.5	40.5	40.3	40.1	40.2	40.3	40.5	40.7	40.6	40.0	40.3	40.6	40.7
Apparel and other textile products .....	35.3	35.6	35.8	35.3	35.5	35.3	35.6	35.7	35.8	33.9	35.2	35.8	36.1
Paper and allied products .....	43.5	42.9	43.1	42.7	42.4	42.7	42.8	42.7	42.9	42.2	42.4	43.2	43.4
Printing and publishing .....	37.8	37.6	37.7	37.8	37.7	38.0	37.9	37.9	37.9	37.4	37.5	38.0	38.1
Chemicals and allied products .....	41.8	41.7	41.9	41.7	41.8	41.7	41.6	41.7	41.7	41.6	41.7	42.1	41.6
Petroleum and coal products .....	42.7	42.6	43.1	42.8	43.0	42.8	43.2	43.3	43.9	43.6	43.4	43.8	44.8
Rubber and plastics products, nec .....	41.3	41.3	41.2	40.6	40.8	40.7	40.9	40.9	40.7	39.8	39.4	40.5	40.9
Leather and leather products .....	37.3	37.1	37.2	36.8	37.3	37.6	37.7	37.8	37.2	36.6	36.6	37.4	38.0
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.1	40.3	40.1	39.9	40.0	39.9	39.7	40.3	40.2	39.8	40.4	40.6	40.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	33.4	33.5	33.3	33.3	33.2	33.2	33.5	33.2	33.3	32.8	32.8	33.0	33.1
<b>WHOLESALE TRADE</b> .....	38.9	38.8	38.8	38.8	38.8	38.8	39.1	38.9	38.8	38.6	38.8	39.0	39.1
<b>RETAIL TRADE</b> .....	31.8	31.9	31.7	31.7	31.6	31.6	31.9	31.6	31.7	31.1	31.1	31.3	31.4
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.6	36.7	36.6	36.6	36.7	36.6	36.7	36.7	36.6	36.5	36.5	36.7	36.9
<b>SERVICES</b> .....	33.5	33.5	33.3	33.2	33.2	33.2	33.5	33.3	33.4	33.5	33.2	33.4	33.5

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

p = preliminary.

**C-8. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>Average hourly earnings</b>													
<b>TOTAL PRIVATE</b> .....	\$ 5.17	\$ 5.20	\$ 5.22	\$ 5.27	\$ 5.28	\$ 5.32	\$ 5.38	\$ 5.41	\$ 5.42	\$ 5.49	\$ 5.52	\$ 5.56	\$ 5.62
<b>MINING</b> .....	6.79	6.82	6.91	6.95	6.92	7.03	7.13	7.12	6.64	6.76	6.80	6.86	7.36
<b>CONTRACT CONSTRUCTION</b> .....	7.95	7.97	8.04	8.06	8.08	8.09	8.17	8.18	8.21	8.32	8.32	8.37	8.38
<b>MANUFACTURING</b> .....	5.53	5.57	5.61	5.66	5.68	5.73	5.79	5.81	5.83	5.90	5.95	5.97	6.00
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	6.83	6.88	6.88	7.00	6.93	7.03	7.11	7.18	7.24	7.29	7.32	7.39	7.45
<b>WHOLESALE AND RETAIL TRADE</b> .....	4.23	4.24	4.26	4.30	4.31	4.33	4.37	4.39	4.43	4.51	4.52	4.56	4.60
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4.53	4.56	4.54	4.60	4.61	4.65	4.74	4.74	4.75	4.83	4.80	4.83	4.91
<b>SERVICES</b> .....	4.64	4.66	4.67	4.72	4.76	4.78	4.85	4.86	4.89	4.98	4.99	5.00	5.06
<b>Average weekly earnings</b>													
<b>TOTAL PRIVATE:</b>													
Current dollars .....	187.15	188.76	188.96	190.25	190.08	191.52	194.76	195.84	196.20	195.44	197.62	200.72	203.44
1967 dollars .....	104.03	104.34	103.94	104.30	103.81	104.20	105.62	105.75	105.48	104.23	104.73	105.53	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>2,3</sup> .....	91.53	91.69	94.98	95.22	94.78	95.04	96.11	96.16	95.89	93.07	93.35	93.84	-

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

<sup>2</sup> A major revision in the CPI was introduced beginning with the January 1978 data (see note on table C-5, and Explanatory Notes).

<sup>3</sup> See footnote 2, table C-5.

p=preliminary.  
c=corrected.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

**C-9. 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	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. P	Apr. P
<b>TOTAL</b> .....	115.4	115.9	115.8	115.8	115.6	115.9	116.8	117.2	117.5	116.1	117.0	118.9	120.3
<b>GOODS-PRODUCING</b> .....	100.8	101.4	101.8	101.4	100.6	100.9	101.7	102.3	102.1	99.5	101.4	104.0	106.3
<b>MINING</b> .....	141.6	140.6	142.3	139.9	134.7	142.5	143.9	144.8	113.3	110.7	112.6	118.3	148.7
<b>CONTRACT CONSTRUCTION</b> .....	111.7	112.4	111.8	112.8	110.8	110.4	112.3	114.0	113.5	104.7	108.9	115.7	123.5
<b>MANUFACTURING</b> .....	97.5	98.1	98.7	98.0	97.6	97.8	98.4	98.8	99.7	98.2	99.7	101.5	101.8
<b>DURABLE GOODS</b> .....	96.9	97.8	98.7	98.3	98.1	98.4	99.3	99.5	100.8	99.3	100.9	102.6	102.9
Ordinance and accessories .....	40.1	40.7	41.0	40.5	39.3	39.1	38.2	38.2	40.2	39.8	38.1	39.5	38.7
Lumber and wood products .....	103.5	104.1	104.0	105.3	104.0	106.0	106.8	109.5	109.8	107.6	106.8	109.4	108.9
Furniture and fixtures .....	106.1	107.1	107.9	108.4	107.2	108.3	110.6	111.7	113.8	109.3	116.5	117.6	116.9
Stone, clay, and glass products .....	103.9	104.2	105.4	104.9	104.1	103.3	103.2	106.7	107.0	104.3	105.4	107.5	110.9
Primary metal industries .....	89.7	90.7	90.9	89.0	88.2	89.0	89.7	89.5	89.7	89.5	91.2	90.8	91.0
Fabricated metal products .....	101.3	102.8	104.2	103.7	103.3	103.1	105.0	105.7	107.7	105.3	107.6	108.9	109.5
Machinery, except electrical .....	98.8	100.2	101.6	103.2	103.5	103.6	105.5	104.9	106.0	104.0	107.0	108.8	109.7
Electrical equipment and supplies .....	96.3	97.2	97.9	98.3	98.3	97.8	98.8	99.4	100.4	98.9	100.3	103.0	102.5
Transportation equipment .....	94.7	95.3	96.5	94.8	95.4	96.5	96.2	94.5	96.7	96.5	96.3	98.5	98.3
Instruments and related products .....	111.7	112.3	113.2	111.7	111.3	112.4	113.2	113.4	114.4	113.4	114.8	117.5	117.2
Miscellaneous manufacturing, Ind. ....	95.0	94.7	94.6	91.4	91.3	90.3	91.1	91.5	93.9	92.3	93.9	96.1	96.7
<b>NONDURABLE GOODS</b> .....	98.5	98.5	98.7	97.7	96.9	96.9	97.1	97.8	98.1	96.5	97.8	99.7	100.1
Food and kindred products .....	98.5	97.3	97.3	95.9	94.5	94.1	92.8	94.2	94.6	94.4	96.0	97.8	97.0
Tobacco manufactures .....	80.5	78.2	80.2	77.2	71.7	73.2	72.4	72.2	74.0	72.4	74.4	76.7	74.5
Textile mill products .....	99.6	100.2	99.7	99.9	98.9	99.4	100.2	101.4	100.8	99.3	100.4	101.4	101.3
Apparel and other textile products .....	87.7	88.6	89.8	87.6	87.8	87.2	87.8	88.6	89.0	84.2	87.2	89.0	90.4
Paper and allied products .....	100.8	100.4	101.1	100.3	99.4	99.7	100.2	99.6	100.8	99.3	100.2	102.8	103.5
Printing and publishing .....	95.2	95.1	95.3	95.6	95.1	95.7	95.7	95.9	95.9	94.6	95.3	97.0	97.4
Chemicals and allied products .....	102.9	103.3	103.8	103.7	103.4	103.0	102.6	103.0	103.5	103.8	104.5	105.5	104.4
Petroleum and coal products .....	119.6	119.3	121.6	119.9	120.4	120.8	122.8	124.8	125.7	126.6	127.8	129.0	130.1
Rubber and plastics products, nec .....	134.8	135.3	133.9	132.5	129.7	129.3	130.5	132.5	133.8	131.3	131.9	137.1	139.9
Leather and leather products .....	73.4	73.3	72.9	69.9	71.8	72.7	73.8	73.7	71.9	70.7	70.7	72.3	74.1
<b>SERVICE-PRODUCING</b> .....	125.5	125.9	125.6	125.8	126.1	126.4	127.2	127.5	128.2	127.6	127.8	129.2	130.0
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	103.8	104.6	104.1	103.1	103.5	103.9	120.9	105.1	105.6	103.5	105.4	106.3	106.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	121.0	121.4	121.2	121.6	121.6	121.8	122.7	122.4	123.2	122.3	122.3	123.7	124.4
<b>WHOLESALE TRADE</b> .....	117.3	117.3	117.3	117.5	117.5	117.8	118.7	118.8	118.9	118.9	120.3	121.5	122.2
<b>RETAIL TRADE</b> .....	122.4	123.0	122.7	123.1	123.1	123.3	124.2	123.7	124.8	123.5	123.1	124.5	125.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	131.0	131.6	131.7	132.3	132.7	133.2	134.2	134.9	134.9	135.4	135.9	137.1	138.8
<b>SERVICES</b> .....	140.1	140.3	139.6	140.1	140.6	140.9	142.7	142.6	143.4	143.8	143.4	144.9	146.0

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

p = 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 1978	MARCH 1978p	APRIL 1978p	April 1977 to April 1978	Feb. 1978 to Mar. 1978	March 1978 to April 1978p
<b>TOTAL</b> .....	158,963	160,940	162,642	4.4	1.2	1.1
<b>PRIVATE SECTOR</b> .....	128,455	130,409	131,873	4.5	1.5	1.1
<b>MINING</b> .....	1,612	1,685	2,048	5.0	4.5	21.5
<b>CONTRACT CONSTRUCTION</b> .....	7,327	7,718	8,157	9.8	5.3	5.7
<b>MANUFACTURING</b> .....	41,545	42,152	42,308	4.2	1.5	0.4
<b>DURABLE GOODS</b> .....	24,942	25,319	25,403	5.8	1.5	0.3
<b>NONDURABLE GOODS</b> .....	16,603	16,833	16,905	1.8	1.4	0.4
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	9,771	9,868	9,874	3.5	1.0	0.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	32,119	32,486	32,686	3.2	1.1	0.6
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	8,820	8,916	9,011	6.1	1.1	1.1
<b>SERVICES</b> .....	27,262	27,584	27,790	5.1	1.2	0.7
<b>GOVERNMENT</b> .....	30,508	30,532	30,768	3.7	0.1	0.8

<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 Survey 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										
			1975		1976				1977				1978
	1976	1977	III	IV	I	II	III	IV	I	II	III	IV	I (p)
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons . . . .	116.5	119.5	113.8	113.3	115.4	116.4	117.2	117.3	118.9	118.6	120.2	120.8	119.7
Output . . . . .	126.9	134.7	120.6	121.8	124.9	126.7	127.7	128.4	131.3	134.0	135.7	137.7	137.1
Hours . . . . .	108.9	112.7	106.0	107.5	108.2	108.9	109.0	109.5	110.5	113.0	113.0	113.9	114.5
Compensation per hour . . . . .	196.5	214.0	181.1	184.6	190.5	194.4	198.6	202.8	208.3	211.6	216.0	220.0	227.4
Real compensation per hour . . . . .	115.3	117.9	111.3	111.7	113.9	114.8	115.7	116.8	117.6	117.0	117.9	118.8	N.A.
Unit labor costs . . . . .	168.7	179.0	159.1	163.0	165.1	167.1	169.4	173.0	175.2	178.4	179.7	182.1	189.9
Unit nonlabor payments . . . . .	159.9	164.9	159.8	159.0	158.7	160.5	160.8	159.5	160.4	163.0	167.0	169.0	162.8
Implicit price deflator . . . . .	165.6	174.1	159.4	161.6	162.9	164.8	166.5	168.3	170.1	173.1	175.4	177.6	180.6
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons . . . .	114.3	116.9	112.0	111.0	112.9	114.4	115.2	114.7	116.0	116.3	117.4	118.0	117.1
Output . . . . .	127.4	135.0	120.6	121.8	125.2	127.2	128.3	128.7	131.6	134.5	136.0	137.9	137.6
Hours . . . . .	111.4	115.5	107.7	109.7	111.0	111.2	111.4	112.2	113.4	115.6	115.9	116.9	117.6
Compensation per hour . . . . .	193.1	210.0	179.1	181.9	186.9	191.3	195.2	198.9	204.2	208.0	211.8	216.0	222.8
Real compensation per hour . . . . .	113.3	115.7	110.1	110.1	111.7	112.9	113.7	114.5	115.3	115.0	115.7	116.6	N.A.
Unit labor costs . . . . .	168.9	179.7	160.0	163.9	165.6	167.1	169.5	173.3	176.0	178.9	180.5	183.0	190.4
Unit nonlabor payments . . . . .	157.4	162.9	154.4	153.6	155.3	156.8	159.2	158.1	157.2	160.7	166.3	166.9	160.8
Implicit price deflator . . . . .	165.0	173.9	158.1	160.3	162.1	163.6	166.0	168.1	169.6	172.7	175.6	177.5	180.3
<b>MANUFACTURING:</b>													
Output per hour of all persons . . . .	124.2	126.9	120.5	121.2	122.1	124.3	125.5	125.0	125.0	126.2	127.8	127.5	126.4
Output . . . . .	120.0	127.1	111.2	114.3	117.8	119.9	121.1	121.2	123.0	126.5	128.3	129.4	129.4
Hours . . . . .	96.6	100.1	92.3	94.3	96.4	96.5	96.5	97.0	98.4	100.3	100.4	101.5	102.3
Compensation per hour . . . . .	194.8	212.0	180.8	183.5	189.0	193.7	196.7	200.0	206.1	210.1	213.6	217.8	225.5
Real compensation per hour . . . . .	114.3	116.8	111.1	111.0	113.0	114.4	114.6	115.2	116.4	116.2	116.7	117.6	N.A.
Unit labor costs . . . . .	156.9	167.0	150.0	151.5	154.8	155.9	156.7	160.0	164.9	166.5	167.2	170.8	178.4
<b>DURABLE GOODS</b>													
Output per hour of all persons . . . .	120.3	122.2	116.8	116.8	118.0	120.7	121.9	120.8	120.3	122.1	123.2	122.6	120.9
Output . . . . .	114.9	122.3	105.6	107.7	111.7	114.9	116.8	116.2	117.6	121.8	124.0	125.2	124.8
Hours . . . . .	95.5	100.0	90.4	92.2	94.6	95.2	95.8	96.2	97.7	99.8	100.6	102.1	103.2
Compensation per hour . . . . .	197.0	213.8	182.9	185.8	191.6	196.4	198.8	201.1	207.5	212.3	215.3	219.6	226.9
Real compensation per hour . . . . .	115.5	117.8	112.4	112.4	114.5	116.0	115.8	115.9	117.2	117.4	117.6	118.6	N.A.
Unit labor costs . . . . .	163.7	174.9	156.6	159.1	162.4	162.8	163.1	166.6	172.5	173.9	174.8	179.0	187.7
<b>NONDURABLE GOODS</b>													
Output per hour of all persons . . . .	130.5	134.5	126.6	128.2	128.8	130.1	131.3	131.8	132.6	132.8	135.2	135.3	135.5
Output . . . . .	128.3	134.9	120.3	124.9	127.6	128.1	128.1	129.4	131.7	134.2	135.3	136.2	136.8
Hours . . . . .	98.3	100.3	95.0	97.4	99.1	98.4	97.5	98.2	99.3	101.1	100.0	100.6	101.0
Compensation per hour . . . . .	191.7	208.9	178.3	180.8	185.5	189.9	193.4	198.4	204.0	206.6	210.6	214.3	222.5
Real compensation per hour . . . . .	112.5	115.1	109.6	109.4	110.9	112.1	112.7	114.3	115.2	114.2	115.0	115.7	N.A.
Unit labor costs . . . . .	147.0	155.3	140.8	141.0	144.0	145.9	147.3	150.6	153.9	155.6	155.7	158.4	164.3
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour . . . .	117.2	119.9	115.4	114.8	116.2	117.5	118.0	117.2	118.9	119.4	120.7	121.1	N.A.
Output . . . . .	133.9	141.9	126.9	128.2	131.8	134.0	135.0	135.0	138.0	141.4	143.1	145.0	N.A.
Hours . . . . .	114.3	118.3	110.0	111.7	113.4	114.1	114.4	115.2	116.1	118.4	118.6	119.8	N.A.
Compensation per hour . . . . .	194.9	212.3	180.8	183.8	189.1	193.2	196.9	200.6	206.7	210.5	214.2	218.3	N.A.
Real compensation per hour . . . . .	114.3	117.0	111.1	111.2	113.0	114.0	114.7	115.5	116.7	116.4	117.0	117.9	N.A.
Total unit costs . . . . .	172.1	181.8	164.4	167.6	168.8	170.3	172.5	176.8	179.0	180.6	182.3	185.1	N.A.
Unit labor costs . . . . .	166.3	177.0	156.6	160.2	162.7	164.5	166.8	171.2	173.9	176.2	177.4	180.3	N.A.
Unit nonlabor costs . . . . .	190.1	196.8	188.5	190.6	187.7	188.3	190.1	194.1	195.0	194.3	197.5	200.1	N.A.
Unit profits . . . . .	113.2	115.5	111.2	107.8	113.1	115.0	117.7	107.0	103.7	115.5	123.1	119.1	N.A.
Implicit price deflator . . . . .	163.4	172.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	170.9	173.5	175.3	N.A.

p=preliminary.  
r=revised.  
N.A. = Not available.

**NOTE:** Scheduling of the release of the new Consumer Price Index for all urban consumers (CPI-U) precludes the use of real hourly compensation (hourly compensation adjusted for quarterly changes in the CPI-U) with preliminary productivity and cost measures. These will be published together with revised output and labor input measures with the next regular edition of Productivity and Costs, approximately 30 days after the preliminary measures.

**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 1976	IV 1976	I 1977	II 1977	(p) III 1977	IV 1977	IV 1975	I 1976	II 1976	III 1976	IV 1976	(p) I 1977
	to IV 1976	to I 1977	to II 1977	to III 1977	to IV 1977	to I 1978	to IV 1976	to I 1977	to II 1977	to III 1977	to IV 1977	to I 1978
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons	0.2	5.7	-1.0	5.3	2.3	-3.6	3.5	3.0	1.9	2.5	3.0	0.7
Output	2.1	9.6	8.5	5.2	5.9	-1.8	5.4	5.1	5.8	6.3	7.3	4.4
Hours	1.8	3.7	9.6	-0.2	3.5	1.9	1.8	2.1	3.8	3.7	4.1	3.6
Compensation per hour	8.9	11.3	6.5	8.4	7.7	14.0	9.9	9.4	8.8	8.8	8.5	9.1
Real compensation per hour	4.1	2.8	-2.1	3.2	2.9	N.A.	4.6	3.3	1.9	2.0	1.7	N.A.
Unit labor costs	8.7	5.3	7.5	2.9	5.3	18.3	6.1	6.2	6.8	6.1	5.3	8.4
Unit nonlabor payments	-3.3	2.4	6.6	10.2	4.9	-14.0	0.3	1.1	1.6	3.8	6.0	1.5
Implicit price deflator	4.6	4.4	7.2	5.2	5.2	6.9	4.1	4.5	5.1	5.3	5.5	6.1
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	-1.6	4.7	0.8	3.8	2.3	-3.3	3.3	2.8	1.6	1.9	2.9	0.9
Output	1.3	9.5	8.8	4.8	5.7	-1.0	5.6	5.1	5.7	6.1	7.2	4.5
Hours	2.9	4.6	8.0	0.9	3.3	2.4	2.2	2.2	4.0	4.1	4.2	3.6
Compensation per hour	7.7	11.3	7.6	7.5	8.2	13.2	9.3	9.3	8.8	8.5	8.6	9.1
Real compensation per hour	3.0	2.7	-1.1	2.3	3.4	N.A.	4.1	3.2	1.9	1.7	1.8	N.A.
Unit labor costs	9.4	6.3	6.8	3.5	5.8	17.0	5.8	6.3	7.1	6.5	5.6	8.2
Unit nonlabor payments	-2.8	-2.2	9.0	14.8	1.4	-13.8	3.0	1.3	2.5	4.4	5.5	2.3
Implicit price deflator	5.3	3.5	7.5	7.0	4.3	6.4	4.9	4.6	5.6	5.8	5.6	6.3
<b>MANUFACTURING:</b>												
Output per hour of all persons	-1.6	0.1	3.8	5.2	-0.9	-3.3	3.1	2.3	1.5	1.8	2.0	1.1
Output	0.5	5.8	12.2	5.6	3.5	-0.1	6.1	4.4	5.5	5.9	6.7	5.2
Hours	2.1	5.7	8.1	.4	4.5	3.3	2.9	2.0	3.9	4.0	4.6	4.0
Compensation per hour	6.9	12.8	8.1	6.9	8.0	14.9	9.0	9.0	8.4	8.6	8.9	9.4
Real compensation per hour	2.2	4.1	-0.7	1.7	3.2	N.A.	3.7	3.0	1.6	1.8	2.1	N.A.
Unit labor costs	8.7	12.7	4.1	1.6	9.0	18.8	5.6	6.5	6.8	6.7	6.8	8.2
<b>DURABLE GOODS</b>												
Output per hour of all persons	-3.6	-1.5	6.1	3.5	-1.7	-5.7	3.4	1.9	1.2	1.1	1.6	0.5
Output	-2.0	4.8	15.4	7.2	4.0	-1.4	7.8	5.2	6.0	6.2	7.8	6.1
Hours	1.6	6.5	8.7	3.5	5.8	4.5	4.3	3.3	4.8	5.0	6.1	5.6
Compensation per hour	4.8	13.2	9.6	5.7	8.3	14.0	8.2	8.3	8.1	8.3	9.2	9.4
Real compensation per hour	0.2	4.5	0.7	0.7	3.4	N.A.	3.1	2.3	1.2	1.5	2.3	N.A.
Unit labor costs	8.7	15.0	3.3	2.1	10.1	20.9	4.7	6.2	6.8	7.2	7.5	8.8
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	1.3	2.5	0.5	7.7	0.3	0.4	2.8	2.9	2.0	3.0	2.7	2.2
Output	4.3	7.2	7.7	3.3	2.8	1.8	3.6	3.2	4.7	5.6	5.2	3.9
Hours	2.9	4.6	7.2	-4.1	2.5	1.4	0.8	0.3	2.7	2.5	2.4	1.7
Compensation per hour	10.7	11.8	5.3	7.9	7.3	16.2	9.7	10.0	8.8	8.9	8.0	9.1
Real compensation per hour	5.8	3.2	-3.2	2.7	2.5	N.A.	4.5	3.9	1.9	2.1	1.3	N.A.
Unit labor costs	9.2	9.0	4.7	0.2	7.0	15.7	6.8	6.8	6.7	5.7	5.2	6.8
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	-2.9	6.0	1.9	4.4	1.1	N.A.	2.1	2.3	1.7	2.3	3.3	N.A.
Output	-0.1	9.4	10.1	5.0	5.3	N.A.	5.3	4.7	5.5	6.1	7.5	N.A.
Hours	2.9	3.3	8.1	0.6	4.2	N.A.	3.1	2.4	3.8	3.7	4.0	N.A.
Compensation per hour	7.7	12.8	7.5	7.2	8.0	N.A.	9.1	9.3	9.0	8.8	8.9	N.A.
Real compensation per hour	2.9	4.2	-1.2	2.1	3.2	N.A.	3.9	3.3	2.0	2.0	2.0	N.A.
Total unit costs	10.3	5.2	3.6	3.7	6.4	N.A.	5.5	6.1	6.1	5.7	4.7	N.A.
Unit labor costs	10.9	6.4	5.5	2.7	6.8	N.A.	6.9	6.9	7.1	6.3	5.3	N.A.
Unit nonlabor costs	8.9	1.7	-1.3	6.7	5.4	N.A.	1.9	3.9	3.2	3.9	3.1	N.A.
Unit profits	-31.7	-11.6	53.5	29.1	-12.3	N.A.	-0.7	-8.3	0.4	4.6	11.3	N.A.
Implicit price deflator	5.1	3.5	7.6	6.1	4.3	N.A.	4.9	4.6	5.5	5.6	5.4	N.A.

p=preliminary.  
r=revised.  
N.A. = Not available.

**NOTE:** Scheduling of the release of the new Consumer Price Index for all urban consumers (CPI-U) precludes the use of real hourly compensation (hourly compensation adjusted for quarterly changes in the CPI-U) with preliminary productivity and cost measures. These will be published together with revised output and labor input measures with the next regular edition of Productivity and Costs, approximately 30 days after the preliminary measures.

**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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>ALABAMA</b> .....	\$191.35	\$215.06	\$212.74	40.2	41.2	40.6	\$4.76	\$5.22	\$5.24
Birmingham .....	227.37	250.30	(*)	40.1	41.1	(*)	5.67	6.09	(*)
Mobile .....	234.77	265.85	(*)	41.7	42.4	(*)	5.63	6.27	(*)
<b>ALASKA</b> .....	356.57	407.94	450.40	41.9	39.0	44.2	8.51	10.46	10.19
<b>ARIZONA</b> .....	215.28	230.50	234.63	39.5	39.2	39.7	5.45	5.88	5.91
Phoenix .....	216.11	228.15	240.78	39.8	39.0	40.4	5.43	5.85	5.96
Tucson .....	213.46	219.84	221.65	38.6	38.5	39.3	5.53	5.71	5.64
<b>ARKANSAS</b> .....	165.11	180.64	182.40	39.5	39.7	40.0	4.18	4.55	4.56
Fayetteville—Springdale .....	150.13	160.16	164.34	39.3	38.5	39.6	3.82	4.16	4.15
Fort Smith .....	164.01	185.46	187.29	38.5	38.8	39.1	4.26	4.78	4.79
Little Rock—North Little Rock .....	195.98	210.12	208.55	41.0	40.1	39.8	4.78	5.24	5.24
Pine Bluff .....	199.59	234.62	229.96	40.9	41.6	40.7	4.88	5.64	5.65
<b>CALIFORNIA</b> .....	234.00	245.74	(*)	40.0	39.7	(*)	5.85	6.19	(*)
Anaheim—Santa Ana—Garden Grove .....	217.62	231.15	(*)	40.3	40.2	(*)	5.40	5.75	(*)
Bakersfield .....	245.86	258.84	(*)	39.4	39.7	(*)	6.24	6.52	(*)
Fresno .....	208.43	222.15	(*)	39.4	38.5	(*)	5.29	5.77	(*)
Los Angeles—Long Beach .....	219.64	230.98	(*)	40.3	40.1	(*)	5.45	5.76	(*)
Modesto .....	227.12	244.29	(*)	38.3	38.9	(*)	5.93	6.28	(*)
Oxnard—Simi Valley—Ventura .....	201.33	209.17	(*)	39.4	38.1	(*)	5.11	5.49	(*)
Riverside—San Bernardino—Ontario .....	237.61	251.62	(*)	39.8	39.5	(*)	5.97	6.37	(*)
Sacramento .....	244.48	266.17	(*)	38.5	39.2	(*)	6.35	6.79	(*)
Salinas—Seaside—Monterey .....	206.64	237.71	(*)	36.0	37.2	(*)	5.74	6.39	(*)
San Diego .....	225.23	228.92	(*)	38.5	37.9	(*)	5.85	6.04	(*)
San Francisco—Oakland .....	288.08	298.29	(*)	39.9	39.3	(*)	7.22	7.59	(*)
San Jose .....	259.94	265.86	(*)	40.3	39.8	(*)	6.45	6.68	(*)
Santa Barbara—Santa Maria—Lompoc .....	208.96	225.37	(*)	39.5	39.4	(*)	5.29	5.72	(*)
Santa Rosa .....	216.79	219.70	(*)	37.9	36.8	(*)	5.72	5.97	(*)
Stockton .....	259.64	277.50	(*)	39.7	39.7	(*)	6.54	6.99	(*)
Vallejo—Fairfield—Napa .....	221.86	250.04	(*)	37.1	38.0	(*)	5.98	6.58	(*)
<b>COLORADO</b> .....	216.01	237.77	239.95	38.3	39.3	39.4	5.64	6.05	6.09
Denver—Boulder <sup>1</sup> .....	216.41	234.78	238.55	38.1	39.0	38.3	5.68	6.02	6.07
<b>CONNECTICUT</b> .....	225.09	225.38	(*)	41.3	38.2	(*)	5.45	5.90	(*)
Bridgeport .....	234.73	237.58	259.37	42.6	40.2	43.3	5.51	5.91	5.99
Hartford .....	254.65	248.71	282.58	42.3	38.5	44.5	6.02	6.46	6.35
New Britain .....	232.81	219.48	255.42	42.1	37.2	43.0	5.53	5.90	5.94
New Haven—West Haven .....	222.08	213.30	240.54	40.6	36.4	40.7	5.47	5.86	5.91
Stamford .....	225.89	229.10	247.38	41.6	39.5	42.0	5.43	5.80	5.89
Waterbury .....	193.49	183.50	219.22	41.7	36.7	42.9	4.64	5.00	5.11
<b>DELAWARE</b> .....	228.07	229.15	245.50	40.8	35.2	38.6	5.59	6.51	6.36
Wilmington .....	255.31	263.15	278.14	39.4	35.9	38.9	6.48	7.33	7.15
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	210.10	210.10	(*)	38.2	38.2	(*)	5.50	5.50	(*)
<b>FLORIDA</b> .....	183.92	200.41	200.00	40.6	40.9	40.9	4.53	4.90	4.89
Fort Lauderdale—Hollywood .....	181.85	188.50	193.91	40.5	40.8	41.7	4.49	4.62	4.65
Jacksonville .....	209.21	247.68	247.81	39.4	43.0	42.8	5.31	5.76	5.79
Miami .....	157.99	169.18	166.72	39.4	39.9	39.6	4.01	4.24	4.21
Orlando .....	191.35	216.52	224.70	40.2	41.8	42.8	4.76	5.18	5.25
Pensacola .....	230.71	256.03	259.55	42.1	42.6	42.9	5.48	6.01	6.05
Tampa—St. Petersburg .....	195.23	200.77	206.15	41.1	39.6	40.5	4.75	5.07	5.09
West Palm Beach—Boca Raton .....	237.23	243.17	241.66	45.1	43.5	43.7	5.26	5.59	5.53
<b>GEORGIA</b> .....	177.32	188.89	193.52	40.3	39.6	39.9	4.40	4.77	4.85
Atlanta .....	220.32	212.01	227.60	40.5	38.9	40.0	5.44	5.45	5.69
Savannah .....	229.73	256.54	259.20	42.7	42.9	43.2	5.38	5.98	6.00
<b>HAWAII</b> .....	221.26	226.78	233.04	39.3	38.7	39.1	5.63	5.86	5.96
Honolulu .....	222.39	223.23	229.58	39.5	37.9	38.2	5.63	5.89	6.01
<b>IDAHO</b> .....	201.70	220.69	(*)	37.7	36.6	(*)	5.35	6.03	(*)
Boise City .....	200.94	222.00	(*)	39.4	40.0	(*)	5.10	5.55	(*)

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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>ILLINOIS</b> .....	\$247.75	\$264.65	\$267.02	40.5	40.3	40.5	\$6.12	\$6.57	\$6.60
Bloomington—Normal .....	191.51	206.88	210.87	38.9	37.3	37.9	4.92	5.55	5.57
Champaign—Urbana—Rantoul .....	239.61	259.28	242.56	40.0	39.8	38.3	6.00	6.51	6.33
Chicago SMSA .....	254.45	264.82	265.81	41.4	41.2	41.4	6.14	6.43	6.42
Davenport—Rock Island—Moline .....	261.14	265.96	267.82	40.3	37.9	38.1	6.49	7.01	7.02
Decatur .....	259.61	301.35	283.20	39.8	43.6	40.9	6.53	6.91	6.92
Peoria .....	286.67	294.38	296.11	38.6	36.7	37.0	7.42	8.02	8.01
Rockford .....	244.56	290.94	278.18	41.1	43.2	42.4	5.95	6.73	6.57
Springfield .....	273.37	298.57	294.37	40.6	42.7	41.9	6.73	7.00	7.03
<b>INDIANA</b> .....	261.62	287.16	281.40	41.2	41.2	40.2	6.35	6.97	7.00
Gary—Hammond—East Chicago .....	328.00	387.49	(*)	41.0	41.8	(*)	8.00	9.27	(*)
Indianapolis .....	262.08	290.34	(*)	41.6	42.2	(*)	6.30	6.88	(*)
<b>IOWA</b> <sup>2</sup> .....	254.97	265.28	(*)	40.6	39.3	(*)	6.28	6.75	(*)
Cedar Rapids <sup>2</sup> .....	248.86	265.17	267.33	40.4	40.3	40.2	6.16	6.58	6.65
Des Moines <sup>2</sup> .....	256.14	275.71	277.75	38.5	38.4	38.9	6.66	7.18	7.14
Dubuque <sup>2</sup> .....	320.12	327.53	326.80	41.2	39.7	40.0	7.77	8.25	8.17
Sioux City <sup>2</sup> .....	207.93	218.42	228.27	37.6	37.4	38.3	5.53	5.84	5.96
Waterloo—Cedar Falls <sup>2</sup> .....	324.31	337.79	355.24	41.9	40.6	41.5	7.74	8.32	8.56
<b>KANSAS</b> .....	214.70	222.61	226.97	41.3	39.4	40.1	5.20	5.65	5.65
Topeka .....	227.59	228.44	212.86	41.6	38.2	36.2	5.47	5.98	5.88
Wichita .....	227.78	236.01	244.62	40.8	39.4	40.5	5.58	5.99	6.03
<b>KENTUCKY</b> .....	217.40	239.57	(*)	39.6	40.4	(*)	5.49	5.93	(*)
Louisville .....	249.82	276.62	278.52	40.1	40.8	40.6	6.23	6.78	6.86
<b>LOUISIANA</b> .....	232.96	252.96	253.78	41.6	40.8	40.8	5.60	6.20	6.22
Baton Rouge .....	284.13	316.48	328.74	41.6	43.0	43.6	6.83	7.36	7.54
New Orleans .....	236.57	241.74	243.54	41.0	39.5	39.6	5.77	6.12	6.15
Shreveport .....	203.42	227.98	226.70	41.6	41.3	40.7	4.89	5.52	5.57
<b>MAINE</b> .....	174.36	186.03	192.56	39.9	39.0	40.2	4.37	4.77	4.79
Lewiston—Auburn .....	136.86	151.13	154.25	36.4	37.5	37.9	3.76	4.03	4.07
Portland .....	180.00	189.92	193.84	40.0	39.9	40.3	4.50	4.76	4.81
<b>MARYLAND</b> .....	236.40	240.92	251.62	40.0	38.0	39.5	5.91	6.34	6.37
Baltimore .....	250.91	253.65	268.54	40.6	38.2	40.2	6.18	6.64	6.66
<b>MASSACHUSETTS</b> .....	201.20	200.91	(*)	40.0	37.0	(*)	5.03	5.43	(*)
Boston .....	222.56	211.75	(*)	40.1	35.0	(*)	5.55	6.05	(*)
Brockton .....	158.80	159.36	(*)	37.9	36.3	(*)	4.19	4.39	(*)
Fall River .....	145.75	150.15	(*)	35.9	35.0	(*)	4.06	4.29	(*)
Lawrence—Haverhill .....	197.20	161.73	(*)	40.0	30.4	(*)	4.93	5.32	(*)
Lowell .....	170.37	166.11	(*)	38.2	35.8	(*)	4.46	4.64	(*)
New Bedford .....	169.94	182.02	(*)	38.8	38.4	(*)	4.38	4.74	(*)
Springfield—Chicopee—Holyoke .....	211.14	212.46	(*)	41.4	39.2	(*)	5.10	5.42	(*)
Worcester .....	203.89	219.46	(*)	39.9	39.4	(*)	5.11	5.57	(*)
<b>MICHIGAN</b> .....	318.30	323.23	332.08	43.2	41.6	42.1	7.37	7.77	7.89
Ann Arbor .....	338.21	368.40	366.26	43.1	43.8	43.1	7.85	8.41	8.50
Battle Creek .....	289.55	326.78	324.73	41.2	42.6	42.7	7.03	7.67	7.61
Bay City .....	327.03	316.92	325.08	48.1	43.2	43.5	6.80	7.34	7.47
Detroit .....	337.46	346.94	361.12	43.0	41.5	42.5	7.85	8.36	8.50
Flint .....	384.43	373.78	382.07	46.7	43.6	43.8	8.23	8.57	8.72
Grand Rapids .....	249.81	261.45	266.08	41.4	40.8	41.1	6.03	6.41	6.47
Jackson .....	256.26	291.46	283.63	40.8	42.9	42.1	6.28	6.79	6.74
Kalamazoo—Portage .....	272.69	280.59	288.11	41.6	40.7	41.2	6.56	6.89	6.99
Lansing—East Lansing .....	357.52	315.21	318.40	45.9	38.9	39.0	7.79	8.10	8.16
Muskegon—Norton Shores—Muskegon Heights .....	258.63	292.71	291.90	41.5	42.8	42.2	6.23	6.84	6.92
Saginaw .....	370.89	378.64	395.69	44.6	42.5	44.5	8.32	8.83	8.69
<b>MINNESOTA</b> .....	233.78	250.97	251.77	40.1	39.9	39.9	5.83	6.29	6.31
Duluth—Superior .....	208.56	235.46	236.61	39.5	38.6	39.5	5.28	6.10	5.99
Minneapolis—St. Paul .....	251.51	268.40	270.95	40.5	40.3	40.5	6.21	6.66	6.69
<b>MISSISSIPPI</b> .....	162.79	178.35	180.80	39.9	39.9	40.0	4.08	4.47	4.52
Jackson .....	175.01	194.75	197.00	40.7	41.0	41.3	4.30	4.75	4.77

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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>MISSOURI</b> .....	\$217.14	\$235.61	\$244.82	39.6	39.4	40.2	\$5.49	\$5.98	\$6.09
Kansas City .....	258.45	254.79	278.39	40.7	38.2	40.7	6.35	6.67	6.84
St. Joseph .....	202.87	208.30	222.05	39.7	37.6	39.3	5.11	5.54	5.65
St. Louis .....	250.22	278.12	283.04	40.1	40.9	41.2	6.24	6.80	6.87
Springfield .....	188.10	193.77	196.09	39.6	38.6	38.6	4.75	5.02	5.08
<b>MONTANA</b> .....	246.84	323.95	(*)	40.4	43.6	(*)	6.11	7.43	(*)
<b>NEBRASKA</b> .....	210.53	222.12	234.19	40.3	38.9	40.8	5.22	5.71	5.74
Lincoln .....	193.99	204.63	223.40	37.4	35.9	39.4	5.19	5.70	5.67
Omaha .....	236.69	249.24	253.57	41.3	40.2	41.5	5.73	6.20	6.11
<b>NEVADA</b> .....	233.02	240.63	247.73	39.9	39.0	39.7	5.84	6.17	6.24
Las Vegas .....	289.10	303.38	(*)	41.3	39.4	(*)	7.00	7.70	(*)
<b>NEW HAMPSHIRE</b> .....	178.44	187.20	194.17	40.1	39.0	40.2	4.45	4.80	4.83
Manchester .....	160.36	168.25	169.94	39.4	38.5	38.8	4.07	4.37	4.38
Nashua .....	205.26	210.11	216.14	41.3	39.2	40.4	4.97	5.36	5.35
<b>NEW JERSEY</b> .....	236.97	229.36	(*)	41.5	37.6	(*)	5.71	6.10	(*)
Atlantic City .....	179.08	189.74	(*)	37.7	35.6	(*)	4.75	5.33	(*)
Camden <sup>3</sup> .....	220.15	228.51	(*)	40.1	37.4	(*)	5.49	6.11	(*)
Hackensack <sup>4</sup> .....	228.23	214.83	(*)	42.9	38.5	(*)	5.32	5.58	(*)
Jersey City <sup>4</sup> .....	226.33	229.74	(*)	40.2	37.6	(*)	5.63	6.11	(*)
New Brunswick—Perth Amboy—Sayreville <sup>4</sup> .....	252.00	236.16	(*)	42.0	36.5	(*)	6.00	6.47	(*)
Newark <sup>4</sup> .....	249.05	231.48	(*)	42.5	37.7	(*)	5.86	6.14	(*)
Paterson—Clifton—Passaic <sup>4</sup> .....	221.68	223.23	(*)	40.9	37.9	(*)	5.42	5.89	(*)
Trenton .....	239.85	224.39	(*)	41.0	35.1	(*)	5.85	6.41	(*)
<b>NEW MEXICO</b> .....	165.07	185.00	188.33	38.3	39.7	40.5	4.31	4.66	4.65
Albuquerque .....	164.87	188.10	188.19	37.9	38.0	42.1	4.35	4.95	4.47
<b>NEW YORK</b> .....	220.89	230.83	(*)	39.8	38.6	(*)	5.55	5.98	(*)
Albany—Schenectady—Troy .....	237.18	255.67	(*)	40.2	40.2	(*)	5.90	6.36	(*)
Binghamton .....	194.44	209.20	(*)	39.6	40.0	(*)	4.91	5.23	(*)
Buffalo .....	297.37	303.35	(*)	42.3	40.5	(*)	7.03	7.49	(*)
Elmira .....	214.67	232.46	(*)	40.2	39.4	(*)	5.34	5.90	(*)
Monroe County <sup>5</sup> .....	286.18	303.48	(*)	41.9	40.9	(*)	6.83	7.42	(*)
Nassau—Suffolk <sup>6</sup> .....	212.40	216.58	(*)	40.0	37.6	(*)	5.31	5.76	(*)
New York—Northeastern New Jersey .....	215.46	204.98	(*)	39.9	36.8	(*)	5.40	5.57	(*)
New York and Nassau—Suffolk <sup>4</sup> .....	196.35	197.64	(*)	38.2	36.0	(*)	5.14	5.49	(*)
New York SMSA <sup>6</sup> .....	195.19	193.49	(*)	37.9	35.7	(*)	5.15	5.42	(*)
New York City <sup>7</sup> .....	193.40	191.16	(*)	37.7	35.4	(*)	5.13	5.40	(*)
Poughkeepsie .....	226.85	244.53	(*)	41.7	41.8	(*)	5.44	5.85	(*)
Rochester .....	272.30	286.94	(*)	41.7	40.7	(*)	6.53	7.05	(*)
Rockland County <sup>7</sup> .....	219.63	227.43	(*)	42.4	39.9	(*)	5.18	5.70	(*)
Syracuse .....	246.33	264.50	(*)	41.4	41.2	(*)	5.95	6.42	(*)
Utica—Rome .....	206.92	220.80	(*)	40.1	40.0	(*)	5.16	5.52	(*)
Westchester County <sup>7</sup> .....	211.46	211.30	(*)	39.6	37.8	(*)	5.34	5.59	(*)
<b>NORTH CAROLINA</b> .....	167.20	171.90	172.73	39.3	39.7	39.8	4.00	4.33	4.34
Asheville .....	152.49	168.75	169.18	39.1	39.8	39.9	3.90	4.24	4.24
Charlotte—Gastonia .....	163.20	176.20	177.53	40.8	40.6	41.0	4.00	4.34	4.33
Greensboro—Winston-Salem—High Point .....	169.85	186.73	188.54	39.5	39.9	40.2	4.30	4.68	4.69
Raleigh—Durham .....	176.47	190.70	191.58	38.7	39.4	39.5	4.56	4.84	4.85
<b>NORTH DAKOTA</b> .....	192.53	210.75	206.21	38.2	39.1	38.4	5.04	5.39	5.37
Fargo—Moorhead .....	194.69	218.52	216.13	38.1	37.1	37.2	5.11	5.89	5.81
<b>OHIO</b> .....	273.14	296.67	296.94	41.7	42.2	42.0	6.55	7.03	7.07
Akron .....	276.36	291.75	291.90	42.0	42.1	41.7	6.58	6.93	7.00
Canton .....	259.91	289.52	282.50	39.5	40.1	39.4	6.58	7.22	7.17
Cincinnati .....	253.15	276.64	276.54	41.5	42.3	41.9	6.10	6.54	6.60
Cleveland .....	283.76	305.44	313.47	42.8	42.6	43.0	6.63	7.17	7.29
Columbus .....	245.62	266.20	263.40	40.8	41.4	40.9	6.02	6.43	6.44
Dayton .....	296.29	306.02	308.29	43.7	42.8	42.7	6.78	7.15	7.22
Toledo .....	268.09	306.98	309.10	39.6	42.4	42.4	6.77	7.24	7.29
Youngstown—Warren .....	301.44	320.30	328.45	40.3	39.3	40.3	7.48	8.15	8.15

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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>OKLAHOMA</b> .....	\$207.14	\$217.62	\$225.36	40.3	39.0	40.1	\$5.14	\$5.58	\$5.62
Oklahoma City .....	204.00	215.91	226.08	40.0	39.4	40.3	5.10	5.48	5.61
Tulsa .....	221.84	231.48	242.40	39.9	39.3	40.4	5.56	5.89	6.00
<b>OREGON</b> .....	246.91	268.27	268.73	38.7	38.6	38.5	6.38	6.95	6.98
Eugene—Springfield .....	263.07	297.20	(*)	39.5	40.0	(*)	6.66	7.43	(*)
Jackson County .....	247.98	264.48	(*)	39.3	38.0	(*)	6.31	6.96	(*)
Portland .....	245.60	258.34	(*)	38.8	38.5	(*)	6.33	6.71	(*)
<b>PENNSYLVANIA</b> .....	222.83	237.39	248.44	39.3	38.6	40.2	5.67	6.15	6.18
Allentown—Bethlehem—Easton .....	217.93	229.68	243.46	38.1	36.0	38.4	5.72	6.38	6.34
Altoona .....	187.67	201.63	206.45	38.3	37.9	39.1	4.90	5.32	5.28
Delaware Valley <sup>8</sup> .....	234.63	237.45	256.71	39.7	36.7	39.8	5.91	6.47	6.45
Erie .....	233.95	262.06	262.48	40.9	42.2	42.2	5.72	6.21	6.22
Harrisburg .....	199.14	213.92	221.84	39.2	38.2	39.9	5.08	5.60	5.56
Johnstown .....	243.42	281.39	284.13	38.7	40.9	41.6	6.29	6.88	6.83
Lancaster .....	202.07	201.11	222.63	39.7	36.9	40.7	5.09	5.45	5.47
Northeast Pennsylvania .....	164.53	168.22	178.45	36.4	34.9	37.1	4.52	4.78	4.81
Philadelphia SMSA .....	(*)	235.89	256.00	(*)	36.8	40.0	(*)	6.41	6.40
Pittsburgh .....	271.60	303.40	301.10	40.0	40.4	40.2	6.79	7.51	7.49
Reading .....	208.15	204.05	222.91	39.8	35.0	38.7	5.23	5.83	5.76
Scranton <sup>9</sup> .....	174.65	181.54	197.80	38.3	37.2	40.7	4.56	4.88	4.86
Wilkes-Barre—Hazleton <sup>10</sup> .....	156.80	158.22	171.12	35.0	33.1	35.8	4.48	4.78	4.78
Williamsport .....	197.46	216.38	221.13	39.1	39.2	40.5	5.05	5.52	5.46
York .....	206.04	218.18	237.97	40.8	39.1	42.8	5.05	5.58	5.56
<b>RHODE ISLAND</b> .....	169.85	165.44	179.40	39.5	35.2	39.0	4.30	4.70	4.60
Providence—Warwick—Pawtucket .....	170.68	165.09	182.42	39.6	35.2	39.4	4.31	4.69	4.63
<b>SOUTH CAROLINA</b> .....	166.84	181.75	183.51	40.3	40.3	40.6	4.14	4.51	4.52
Charleston—North Charleston .....	190.34	209.51	212.99	41.2	41.0	41.6	4.62	5.11	5.12
Columbia .....	168.30	178.82	182.34	39.6	39.3	39.9	4.25	4.52	4.57
Greenville—Spartanburg .....	164.77	180.95	183.60	39.8	40.3	40.8	4.14	4.48	4.50
<b>SOUTH DAKOTA</b> .....	192.32	211.42	209.07	39.9	41.7	41.4	4.82	5.07	5.05
Rapid City .....	178.35	191.04	189.15	39.9	39.8	39.0	4.47	4.80	4.85
Sioux Falls .....	241.70	265.61	216.24	41.6	43.4	36.1	5.81	6.12	5.99
<b>TENNESSEE</b> .....	180.64	201.00	199.10	39.7	40.2	39.9	4.55	5.00	4.99
Chattanooga .....	192.82	206.40	200.43	41.2	40.0	39.3	4.68	5.16	5.10
Knoxville .....	210.54	235.35	235.25	39.8	40.3	40.7	5.29	5.84	5.78
Memphis .....	210.25	226.06	225.60	40.2	39.8	40.0	5.23	5.68	5.64
Nashville—Davidson .....	193.20	215.60	212.10	40.0	40.3	40.4	4.83	5.35	5.25
<b>TEXAS</b> .....	215.83	232.18	239.04	40.8	40.1	41.5	5.29	5.79	5.76
Amarillo .....	232.58	239.97	254.48	44.3	42.7	45.2	5.25	5.62	5.63
Austin .....	179.17	179.55	187.62	41.0	40.9	41.6	4.37	4.32	4.51
Beaumont .....	312.48	344.44	346.45	40.9	41.3	41.0	7.64	8.54	8.45
Corpus Christi .....	232.30	267.32	251.22	40.4	41.9	39.5	5.75	6.38	6.36
Dallas—Fort Worth .....	198.19	205.35	220.13	40.2	38.6	41.3	4.93	5.32	5.33
El Paso .....	148.21	167.27	164.48	38.9	38.9	38.7	3.81	4.30	4.25
Galveston—Texas City .....	338.67	362.90	371.36	42.6	43.1	44.0	7.95	8.42	8.44
Houston .....	269.86	299.81	301.37	42.1	43.2	43.3	6.41	6.94	6.96
Lubbock .....	161.05	168.60	167.60	41.4	39.3	40.0	3.89	4.29	4.19
San Antonio .....	164.03	173.49	180.54	40.5	39.7	41.6	4.05	4.37	4.34
Waco .....	176.51	185.33	193.83	40.3	37.9	39.8	4.38	4.69	4.87
Wichita Falls .....	184.22	198.14	217.98	38.3	38.7	41.6	4.81	5.12	5.24
<b>UTAH</b> .....	205.36	214.63	216.36	40.4	39.6	39.7	5.08	5.42	5.45
Salt Lake City—Ogden .....	195.80	204.85	209.30	40.1	39.7	40.8	4.88	5.16	5.13
<b>VERMONT</b> .....	187.68	199.75	204.85	40.8	40.6	41.3	4.60	4.92	4.96
Burlington .....	224.37	232.52	229.90	42.9	42.2	41.8	5.23	5.51	5.50
Springfield .....	208.00	235.04	240.83	40.0	41.6	42.4	5.20	5.65	5.66
<b>VIRGINIA</b> .....	179.78	197.21	195.22	39.6	39.6	39.2	4.54	4.98	4.98
Bristol .....	162.57	177.25	180.31	38.8	38.2	37.8	4.19	4.64	4.77
Lynchburg .....	179.15	203.59	198.70	39.9	40.8	39.9	4.49	4.99	4.98
Norfolk—Virginia Beach—Portsmouth .....	213.18	217.46	231.84	41.8	39.9	41.4	5.10	5.45	5.60
Northern Virginia <sup>11</sup> .....	212.22	226.59	230.30	40.5	38.8	39.3	5.24	5.84	5.86
Petersburg-Colonial Heights-Hopewell .....	207.62	232.97	254.56	39.1	38.7	40.6	5.31	6.02	6.27

See footnotes at end of table.

**ESTABLISHMENTS 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. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P	MAR. 1977	FEB. 1978	MAR. 1978P
<b>VIRGINIA—Continued</b>									
Richmond .....	\$211.85	\$236.40	\$241.00	38.8	39.4	40.1	\$5.46	\$6.00	\$6.01
Roanoke .....	165.15	177.51	180.91	39.7	39.1	39.5	4.16	4.54	4.58
<b>WASHINGTON</b>									
Seattle—Everette .....	260.13	(*)	(*)	39.0	(*)	(*)	6.67	(*)	(*)
Spokane .....	266.85	(*)	(*)	39.3	(*)	(*)	6.79	(*)	(*)
Spokane .....	223.88	(*)	(*)	38.6	(*)	(*)	5.80	(*)	(*)
Tacoma .....	259.90	(*)	(*)	39.2	(*)	(*)	6.63	(*)	(*)
<b>WEST VIRGINIA</b>									
Charleston .....	232.22	253.34	250.38	39.9	39.4	39.0	5.82	6.43	6.42
Huntington—Ashland .....	271.28	295.26	298.75	41.8	42.0	41.9	6.49	7.03	7.13
Parkersburg—Marietta .....	253.53	269.79	275.58	39.8	39.1	39.2	6.37	6.90	7.03
Wheeling .....	246.04	272.24	267.49	40.6	41.0	40.9	6.06	6.64	6.54
Wheeling .....	233.78	269.07	275.81	40.1	40.1	40.8	5.83	6.71	6.76
<b>WISCONSIN</b>									
Appleton—Oshkosh .....	241.01	265.75	268.76	40.3	40.8	40.9	5.99	6.51	6.57
Eau Claire .....	236.56	261.24	263.84	41.4	42.0	42.2	5.72	6.22	6.25
Green Bay .....	242.28	257.13	253.30	40.3	40.7	40.0	6.01	6.32	6.33
Kenosha .....	247.38	264.22	266.92	42.0	41.0	40.8	5.90	6.44	6.55
La Crosse .....	263.48	279.12	295.11	39.6	38.9	39.3	6.66	7.18	7.51
Madison .....	209.01	214.68	214.73	40.6	39.5	40.2	5.15	5.44	5.34
Milwaukee .....	260.32	274.91	271.32	39.5	40.2	39.8	6.59	6.84	6.82
Racine .....	266.02	295.05	296.73	40.6	41.2	41.3	6.56	7.16	7.19
Racine .....	256.20	294.10	294.00	40.0	42.1	41.9	6.40	6.95	7.01
<b>WYOMING</b>									
Casper .....	225.01	232.54	239.12	39.2	38.5	39.2	5.74	6.04	6.10
Cheyenne .....	276.89	283.51	291.82	40.9	40.1	40.7	6.77	7.07	7.17
Cheyenne .....	221.34	(*)	(*)	38.9	(*)	(*)	5.69	(*)	(*)

<sup>1</sup> Based on the 1967 Standard Industrial Classification Manual.

<sup>2</sup> Based on 1972 Standard Industrial Classification and adjusted to 1976 benchmark; not strictly comparable with previously published data.

<sup>3</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>4</sup> Subarea of New York—Northeastern New Jersey.

<sup>5</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>6</sup> Area included in New York and Nassau—Suffolk combined SMSA's.

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

<sup>8</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

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

<sup>10</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>11</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.

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	4.4	4.1	3.7	4.0	4.0	4.9	5.3	4.6	6.0	5.3	4.8	3.6	2.7
1973	4.8	4.6	4.0	4.4	4.5	5.3	5.9	5.1	6.2	5.7	5.2	3.8	2.6
1974	4.2	4.2	3.6	4.0	4.4	5.1	5.4	4.8	5.4	4.9	3.8	2.4	1.8
1975	3.7	3.0	2.7	3.2	3.7	3.9	4.5	4.5	5.1	4.6	3.7	2.8	2.2
1976	3.9	3.8	3.5	4.2	3.9	4.4	4.8	4.2	5.1	4.4	3.5	3.0	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.2	5.2	4.6	3.8	3.0	2.3
1978	-	3.7	3.2	P3.7									
<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	2.4	2.7	2.9	3.6	4.1	3.4	4.4	4.3	3.8	2.9	2.0
1973	3.9	3.5	3.1	3.5	3.6	4.4	5.0	4.1	5.0	4.7	4.3	3.0	2.0
1974	3.2	3.2	2.7	3.0	3.3	3.9	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	3.0	2.4	1.7	1.3
1976	2.6	2.1	2.1	2.6	2.5	3.0	3.6	2.8	3.5	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.4	3.7	3.0	3.9	3.5	2.9	2.2	1.6
1978	-	2.4	2.2	P2.6									
<b>Recalls</b>													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.8	1.0	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	1.0	1.0	.8	.6	.6	.5
1978	-	1.0	.7	P.8									
<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	4.2	4.0	3.5	3.8	3.8	3.9	4.2	4.8	5.4	5.3	4.3	3.7	3.7
1973	4.6	4.3	3.7	4.2	4.1	4.4	4.5	5.1	6.5	5.7	4.9	4.2	3.9
1974	4.8	4.9	4.0	4.4	4.2	4.4	4.2	4.9	6.1	5.4	5.0	5.0	5.2
1975	4.2	6.2	4.5	4.2	4.0	3.9	3.6	4.4	4.6	4.3	4.0	3.5	3.4
1976	3.8	3.7	3.1	3.5	3.5	3.4	3.5	4.3	4.9	4.6	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.8	3.8	3.3	3.3
1978	-	3.5	3.1	P3.5									
<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	2.2	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	1.9	1.6
1973	2.7	2.2	2.1	2.5	2.5	2.7	2.8	2.8	4.5	3.9	3.0	2.2	1.6
1974	2.3	2.2	1.9	2.3	2.4	2.6	2.5	2.5	4.0	3.2	2.2	1.4	.9
1975	1.4	1.1	.9	1.0	1.1	1.3	1.3	1.5	2.4	2.0	1.6	1.2	.9
1976	1.7	1.3	1.2	1.5	1.6	1.7	1.8	1.8	2.8	2.4	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	-	1.5	1.4	P1.7									
<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	1.4	1.1	1.1	1.0	.8	1.1	1.7	.9	.9	.9	1.0	1.3
1973	.9	1.0	.7	.8	.7	.6	.6	1.4	.8	.7	.8	1.1	1.5
1974	1.5	1.7	1.2	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.1	2.9	2.5	2.1	1.8	1.5	2.0	1.3	1.4	1.6	1.7	1.9
1976	1.3	1.6	1.1	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	1.5	1.0	1.1	1.1	1.1	1.5
1978	-	1.2	.9	P.9									

p=preliminary.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1978	Mar. 1978P	Feb. 1978	Mar. 1978P	Feb. 1978	Mar. 1978P	Feb. 1978	Mar. 1978P	Feb. 1978	Mar. 1978P	Feb. 1978	Mar. 1978P
-	<b>MANUFACTURING</b>	3.2	3.7	2.2	2.6	0.7	0.8	3.1	3.5	1.4	1.7	0.9	0.9
19,24,25,32-39	<b>DURABLE GOODS</b>	3.0	3.5	2.1	2.4	.6	.8	2.8	3.2	1.2	1.5	.8	.8
20-23,26-31	<b>NONDURABLE GOODS</b>	3.5	3.9	2.4	2.8	.9	.9	3.5	3.9	1.7	2.1	1.1	1.1
	<b>DURABLE GOODS</b>												
19	<b>ORDNANCE AND ACCESSORIES</b>	1.5	1.6	1.0	1.2	.3	.2	1.7	2.0	.5	.6	.7	.7
192	Ammunition, except for small arms	1.3	-	.8	-	.3	-	1.9	-	.4	-	1.0	-
24	<b>LUMBER AND WOOD PRODUCTS</b>	4.2	5.7	3.3	4.0	.8	1.5	4.7	4.8	2.4	3.0	1.4	.9
242	Sawmills and planing mills	3.9	-	3.1	-	.7	-	4.4	-	2.5	-	1.2	-
2421	Sawmills and planing mills, general	3.6	-	2.8	-	.7	-	4.2	-	2.3	-	1.3	-
243	Millwork, plywood and related products	4.2	-	3.5	-	.5	-	5.2	-	2.5	-	1.8	-
2431	Millwork	4.8	-	4.2	-	.4	-	5.2	-	2.7	-	1.4	-
2432	Veneer and plywood	3.0	-	2.6	-	.2	-	2.5	-	1.7	-	.2	-
244	Wooden containers	7.6	-	5.4	-	2.2	-	6.1	-	3.7	-	1.2	-
2441,2	Wooden boxes, shooks, and crates	8.1	-	5.4	-	2.7	-	6.4	-	3.6	-	1.3	-
249	Miscellaneous wood products	4.8	-	4.1	-	.6	-	4.2	-	2.7	-	.6	-
25	<b>FURNITURE AND FIXTURES</b>	4.7	5.0	4.1	4.3	.4	.4	4.5	5.1	2.9	3.5	.5	.6
251	Household furniture	5.2	-	4.5	-	.4	-	4.8	-	3.2	-	.4	-
2511	Wood household furniture	5.1	-	4.6	-	.3	-	4.6	-	3.2	-	.3	-
2512	Upholstered household furniture	4.9	-	4.1	-	.4	-	4.7	-	3.2	-	.6	-
2515	Mattresses and bedsprings	4.4	-	3.9	-	.3	-	4.9	-	2.3	-	.8	-
252	Office furniture	2.6	-	2.5	-	.1	-	2.7	-	1.6	-	.3	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	3.1	4.4	1.9	2.6	1.0	1.6	3.2	3.0	1.2	1.5	1.2	.6
321	Fiat glass	.8	-	.1	-	.4	-	1.8	-	.3	-	.6	-
322	Glass and glassware, pressed or blown	2.5	-	1.2	-	1.0	-	2.7	-	.7	-	1.1	-
3221	Glass containers	2.6	-	1.2	-	1.3	-	2.9	-	.8	-	1.5	-
3229	Pressed and blown glass, nec	2.3	-	1.1	-	.7	-	2.3	-	.5	-	.6	-
324	Cement, hydraulic	1.4	-	.5	-	.9	-	4.0	-	.2	-	3.3	-
325	Structural clay products	4.4	-	3.2	-	1.1	-	3.9	-	2.3	-	.8	-
3251	Brick and structural clay tile	5.7	-	4.4	-	1.2	-	5.6	-	3.1	-	1.4	-
326	Pottery and related products	2.3	-	1.9	-	.3	-	2.5	-	1.3	-	.2	-
3291	Abrasive products	2.1	-	1.7	-	.2	-	1.5	-	.6	-	.2	-
33	<b>PRIMARY METAL INDUSTRIES</b>	2.2	2.5	1.2	1.3	.8	1.0	2.4	2.6	.6	.7	.9	1.0
331	Blast furnace and basic steel products	2.0	-	.6	-	1.2	-	2.6	-	.2	-	1.3	-
3312	Blast furnaces and steel mills	1.9	-	.5	-	1.1	-	2.6	-	.2	-	1.2	-
332	Iron and steel foundries	3.1	-	2.1	-	.7	-	2.6	-	1.1	-	.6	-
3321	Gray iron foundries	2.9	-	2.0	-	.6	-	2.4	-	1.2	-	.4	-
3322	Malleable iron foundries	3.3	-	1.7	-	.8	-	2.9	-	1.1	-	.8	-
3323	Steel foundries	3.4	-	2.5	-	.8	-	2.9	-	.9	-	.9	-
333,4	Nonferrous metals	1.5	-	1.1	-	.2	-	1.6	-	.6	-	.2	-
335	Nonferrous rolling and drawing	1.7	-	1.2	-	.3	-	1.4	-	.4	-	.3	-
3351	Copper rolling and drawing	2.3	-	1.9	-	.4	-	1.5	-	.5	-	.4	-
3352	Aluminum rolling and drawing	1.4	-	.9	-	.3	-	1.0	-	.3	-	.1	-
3357	Nonferrous wire drawing, and insulating	1.7	-	1.1	-	.1	-	1.7	-	.5	-	.5	-
336	Nonferrous foundries	2.7	-	2.1	-	.4	-	3.2	-	1.3	-	1.1	-
3361	Aluminum castings	3.1	-	2.6	-	.4	-	3.6	-	1.6	-	1.1	-
3362,9	Other nonferrous castings	2.0	-	1.4	-	.5	-	2.7	-	.9	-	1.2	-
339	Miscellaneous primary metal products	1.8	-	1.3	-	.4	-	2.2	-	.7	-	.8	-
3391	Iron and steel forgings	1.7	-	1.2	-	.4	-	2.0	-	.6	-	.6	-
34	<b>FABRICATED METAL PRODUCTS</b>	3.4	3.7	2.4	2.7	.7	.8	3.3	3.6	1.4	1.8	1.0	.9
341	Metal cans	4.2	-	1.4	-	2.4	-	2.2	-	.4	-	1.0	-
342	Cutlery, hand tools, and hardware	3.2	-	2.3	-	.2	-	3.2	-	1.3	-	1.1	-
3421,3,5	Cutlery and hand tools, incl. saws	2.8	-	2.5	-	.2	-	2.4	-	1.3	-	.4	-
3429	Hardware, nec	3.4	-	2.1	-	.2	-	3.7	-	1.3	-	1.5	-
343	Plumbing and heating, except electric	3.3	-	2.6	-	.6	-	3.0	-	1.2	-	.9	-
3431,2	Sanitary ware and plumbers' brass goods	2.9	-	2.2	-	.6	-	2.2	-	.4	-	.4	-
3433	Heating equipment, except electric	3.7	-	2.9	-	.7	-	3.6	-	1.5	-	1.3	-
344	Fabricated structural metal products	3.6	-	2.6	-	.8	-	4.1	-	1.8	-	1.4	1
3441	Fabricated structural steel	3.9	-	2.6	-	1.0	-	4.9	-	1.8	-	2.1	-
3443	Fabricated plate work (boiler shops)	2.2	-	1.5	-	.5	-	2.7	-	1.0	-	.9	-
3448,9	Architectural and misc. metal work	4.1	-	2.7	-	1.3	-	3.3	-	1.9	-	.8	-
345	Screw machine products, bolts, etc.	3.2	-	2.8	-	.2	-	2.9	-	1.4	-	.5	-
3452	Bolts, nuts, rivets, and washers	2.4	-	1.7	-	.2	-	2.9	-	1.1	-	.8	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>
<b>DURABLE GOODS — Continued</b>													
<b>FABRICATED METAL PRODUCTS — Continued</b>													
346	Metal stampings .....	2.7	-	1.4	-	0.9	-	2.6	-	0.9	-	1.0	-
348	Miscellaneous fabricated wire products .....	3.8	-	3.1	-	.5	-	3.3	-	1.9	-	.5	-
349	Miscellaneous fabricated metal products .....	2.8	-	2.4	-	.3	-	2.8	-	1.3	-	.6	-
3494,8	Valves, pipe, and pipe fittings .....	2.3	-	2.1	-	.2	-	2.5	-	1.1	-	.6	-
35	<b>MACHINERY, EXCEPT ELECTRICAL .....</b>	<b>2.4</b>	<b>2.6</b>	<b>1.9</b>	<b>2.0</b>	<b>.3</b>	<b>0.4</b>	<b>2.1</b>	<b>2.5</b>	<b>.9</b>	<b>1.1</b>	<b>.4</b>	<b>0.6</b>
351	Engines and turbines .....	1.2	-	.7	-	.1	-	1.7	-	.4	-	.5	-
3511	Steam engines and turbines .....	.7	-	.3	-	(1)	-	1.5	-	.2	-	.5	-
3519	Internal combustion engines, nec .....	1.5	-	.9	-	.1	-	1.9	-	.4	-	.5	-
352	Farm machinery .....	3.4	-	2.2	-	.9	-	3.5	-	1.2	-	.8	-
353	Construction and related machinery .....	2.4	-	2.0	-	.3	-	1.9	-	.8	-	.5	-
3531,2	Construction and mining machinery .....	1.9	-	1.4	-	.3	-	1.4	-	.5	-	.4	-
3533	Oil field machinery .....	3.7	-	3.4	-	.2	-	2.5	-	1.5	-	.1	-
3535,6	Conveyors, hoists, cranes, monorails .....	2.1	-	1.8	-	.3	-	1.9	-	.7	-	.6	-
354	Metal working machinery .....	2.3	-	1.9	-	.3	-	2.0	-	.9	-	.4	-
3541	Machine tools, metal cutting types .....	1.9	-	1.6	-	.2	-	1.3	-	.7	-	.1	-
3545	Machine tool accessories .....	2.2	-	1.8	-	.4	-	1.7	-	.9	-	.1	-
3542,8	Miscellaneous metal working machinery .....	2.2	-	1.7	-	.4	-	2.3	-	.9	-	.8	-
355	Special industry machinery .....	2.0	-	1.6	-	.3	-	2.1	-	.9	-	.6	-
3551	Food products machinery .....	2.2	-	1.8	-	.3	-	2.2	-	1.0	-	.4	-
3552	Textile machinery .....	2.3	-	1.3	-	.6	-	2.6	-	1.0	-	.9	-
356	General industrial machinery .....	2.1	-	1.6	-	.3	-	1.7	-	.8	-	.4	-
3561	Pumps and compressors .....	1.9	-	1.4	-	.3	-	1.5	-	.7	-	.2	-
3562	Ball and roller bearings .....	1.5	-	.9	-	.2	-	1.5	-	.5	-	.4	-
3566	Power transmission equipment .....	1.7	-	1.5	-	.2	-	1.7	-	.8	-	.4	-
357	Office and computing machines .....	2.2	-	1.9	-	.1	-	1.7	-	.9	-	.2	-
3573	Electronic computing equipment .....	2.3	-	2.0	-	.1	-	1.6	-	.8	-	.1	-
358	Service industry machines .....	3.0	-	2.3	-	.4	-	2.5	-	1.0	-	.6	-
3585	Refrigeration machinery .....	3.1	-	2.4	-	.4	-	2.5	-	1.0	-	.5	-
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES .....</b>	<b>2.8</b>	<b>3.2</b>	<b>2.0</b>	<b>2.3</b>	<b>.4</b>	<b>.5</b>	<b>2.6</b>	<b>3.1</b>	<b>1.1</b>	<b>1.4</b>	<b>.6</b>	<b>.7</b>
361	Electric test and distributing equipment .....	2.9	-	2.2	-	.3	-	2.0	-	1.0	-	.1	-
3611	Electric measuring instruments .....	3.4	-	2.9	-	.1	-	1.7	-	1.2	-	.1	-
3612	Transformers .....	2.8	-	2.0	-	.3	-	2.1	-	.9	-	(1)	-
3613	Switchgear and switchboard apparatus .....	2.4	-	1.6	-	.4	-	2.1	-	.9	-	.2	-
362	Electrical industrial apparatus .....	2.0	-	1.5	-	.2	-	2.0	-	.9	-	.3	-
3621	Motors and generators .....	2.1	-	1.5	-	.2	-	1.9	-	.9	-	.2	-
3622	Industrial controls .....	2.1	-	1.4	-	.3	-	2.1	-	.9	-	.3	-
363	Household appliances .....	3.9	-	2.3	-	.9	-	3.2	-	1.2	-	1.1	-
3632	Household refrigerators and freezers .....	5.5	-	3.0	-	1.2	-	2.3	-	.8	-	.3	-
3633	Household laundry equipment .....	3.6	-	1.9	-	1.4	-	1.6	-	.6	-	.4	-
3634	Electric housewares and fans .....	4.0	-	2.6	-	1.1	-	5.5	-	2.0	-	2.6	-
364	Electric lighting and wiring equipment .....	3.3	-	2.1	-	.5	-	2.6	-	1.1	-	.6	-
3641	Electric lamps .....	1.7	-	.8	-	.2	-	2.3	-	.6	-	.6	-
3642	Lighting fixtures .....	5.1	-	2.8	-	.8	-	3.1	-	1.6	-	.5	-
3643,4	Wiring devices .....	2.7	-	2.1	-	.4	-	2.4	-	1.0	-	.5	-
365	Radio and TV receiving equipment .....	4.4	-	2.3	-	.6	-	5.8	-	1.4	-	2.4	-
366	Communication equipment .....	1.8	-	1.4	-	.1	-	1.7	-	.7	-	.2	-
3661	Telephone and telegraph apparatus .....	1.0	-	.8	-	.1	-	1.2	-	.3	-	.1	-
3662	Radio and TV communication equipment .....	2.2	-	1.7	-	.2	-	1.9	-	.8	-	.3	-
367	Electronic components and accessories .....	3.3	-	2.5	-	.3	-	2.9	-	1.5	-	.4	-
3671-3	Electron tubes .....	2.9	-	1.9	-	.3	-	2.5	-	1.0	-	.2	-
3674,9	Other electronic components .....	3.4	-	2.6	-	.3	-	2.9	-	1.6	-	.4	-
369	Miscellaneous electrical equipment and supplies .....	2.6	-	1.9	-	.5	-	3.3	-	1.2	-	1.3	-
3694	Engine electrical equipment .....	2.9	-	2.1	-	.7	-	3.2	-	1.4	-	1.1	-
37	<b>TRANSPORTATION EQUIPMENT .....</b>	<b>3.2</b>	<b>-</b>	<b>1.9</b>	<b>-</b>	<b>.9</b>	<b>-</b>	<b>2.8</b>	<b>-</b>	<b>1.0</b>	<b>-</b>	<b>1.1</b>	<b>-</b>
371	Motor vehicles and equipment .....	1.8	-	.8	-	.5	-	2.2	-	.6	-	1.0	-
3711	Motor vehicles .....	1.6	-	.7	-	.4	-	1.8	-	.6	-	.6	-
3712	Passenger car bodies .....	.9	-	.4	-	.1	-	1.4	-	.2	-	.5	-
3713	Truck and bus bodies .....	3.7	-	2.8	-	.9	-	3.2	-	1.6	-	1.0	-
3714	Motor vehicle parts and accessories .....	1.7	-	.6	-	.6	-	2.5	-	.5	-	1.3	-
372	Aircraft and parts .....	2.2	-	1.5	-	.4	-	1.5	-	.6	-	.3	-
3721	Aircraft .....	2.3	-	1.4	-	.5	-	1.5	-	.5	-	.4	-
3722	Aircraft engines and engine parts .....	1.5	-	1.1	-	.1	-	1.1	-	.5	-	.1	-
3723,9	Other aircraft parts and equipment .....	2.9	-	2.3	-	.4	-	2.2	-	1.0	-	.5	-
373	Ship and boat building and repairing .....	7.0	-	3.5	-	3.1	-	6.2	-	1.9	-	3.2	-
3731	Ship building and repairing .....	7.2	-	3.1	-	3.7	-	6.6	-	1.7	-	3.9	-
374	Railroad equipment .....	2.4	-	1.1	-	.8	-	2.4	-	.4	-	.7	-
375,9	Other transportation equipment .....	8.8	-	6.7	-	2.0	-	5.5	-	3.3	-	1.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>
<b>DURABLE GOODS — Continued</b>													
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	2.3	2.8	1.9	2.3	0.2	0.3	2.1	2.6	1.0	1.5	0.4	0.4
381	Engineering and scientific instruments .....	2.4	-	2.1	-	.1	-	1.7	-	.9	-	.2	-
382	Mechanical measuring and control devices .....	2.5	-	2.0	-	.2	-	2.0	-	.8	-	.4	-
3821	Mechanical measuring devices .....	2.3	-	1.9	-	.1	-	1.9	-	.8	-	.4	-
3822	Automatic temperature controls .....	2.8	-	2.1	-	.2	-	2.0	-	.9	-	.3	-
383.5	Optical and ophthalmic goods .....	2.5	-	2.2	-	.2	-	2.5	-	1.3	-	.5	-
384	Medical instruments and supplies .....	2.7	-	2.3	-	.3	-	2.5	-	1.3	-	.4	-
386	Photographic equipment and supplies .....	1.0	-	.8	-	.1	-	1.3	-	.6	-	.3	-
387	Watches, clocks, and watchcases .....	5.0	-	3.5	-	1.1	-	4.0	-	1.6	-	1.3	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> ..	4.7	5.4	2.8	4.2	1.6	1.0	3.7	4.7	1.7	2.4	1.1	1.2
391	Jewelry, silverware, and plated ware .....	3.5	-	2.4	-	1.0	-	3.7	-	1.7	-	1.4	-
394	Toys and sporting goods .....	7.4	-	3.4	-	3.6	-	4.4	-	2.0	-	1.1	-
3941-3	Games, toys, dolls and play vehicles .....	10.3	-	3.3	-	6.5	-	4.4	-	2.2	-	.9	-
3949	Sporting and athletic goods, nec .....	4.7	-	3.4	-	.8	-	4.5	-	1.8	-	1.2	-
395	Pens, pencils, office and art supplies .....	2.7	-	2.2	-	.4	-	2.3	-	1.2	-	.4	-
396	Costume jewelry and notions .....	4.7	-	3.2	-	1.3	-	3.4	-	1.8	-	.8	-
393.9	Other manufacturing industries .....	3.7	-	2.7	-	.8	-	3.6	-	1.5	-	1.3	-
<b>NONDURABLE GOODS</b>													
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	4.3	4.7	2.8	3.0	1.3	1.5	4.5	4.9	2.1	2.2	1.7	2.0
201	Meat products .....	5.7	-	4.2	-	1.1	-	6.0	-	3.5	-	1.7	-
2011	Meat packing plants .....	4.1	-	2.6	-	1.1	-	4.0	-	1.6	-	1.7	-
2015	Poultry dressing plants .....	8.6	-	7.5	-	.5	-	9.2	-	7.3	-	1.0	-
204	Grain mill products .....	3.2	-	2.3	-	.7	-	3.7	-	1.6	-	1.3	-
2041	Flour and other grain mill products .....	2.2	-	1.7	-	.4	-	3.2	-	1.3	-	1.5	-
2042	Prepared feeds for animals and fowls .....	3.9	-	3.3	-	.5	-	3.6	-	2.3	-	.5	-
205	Bakery products .....	2.2	-	1.8	-	.3	-	2.4	-	1.3	-	.7	-
2051	Bread, cake, and related products .....	2.0	-	1.8	-	.2	-	2.1	-	1.3	-	.3	-
2052	Cookies and crackers .....	3.1	-	1.9	-	1.1	-	3.8	-	1.0	-	2.3	-
207	Confectionery and related products .....	4.6	-	1.6	-	2.9	-	6.9	-	1.8	-	4.5	-
2071	Confectionery products .....	5.7	-	1.8	-	3.7	-	8.2	-	2.2	-	5.4	-
208	Beverages .....	4.6	-	2.6	-	1.8	-	3.9	-	1.7	-	1.5	-
2082	Malt liquors .....	5.7	-	1.1	-	4.4	-	4.2	-	.3	-	3.3	-
21	<b>TOBACCO MANUFACTURES</b> .....	2.0	-	.7	-	.9	-	4.8	-	.5	-	3.1	-
211	Cigarettes .....	.8	-	.2	-	.2	-	1.2	-	.2	-	(1)	-
212	Cigars .....	3.6	-	2.8	-	.6	-	4.5	-	1.6	-	.2	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	3.6	4.3	2.8	3.4	.6	.7	3.8	4.6	2.2	2.9	.7	.7
221	Weaving mills, cotton .....	2.6	-	2.1	-	.2	-	3.1	-	1.8	-	.4	-
222	Weaving mills, synthetics .....	3.0	-	2.4	-	.3	-	3.7	-	2.2	-	.6	-
223	Weaving and finishing mills, wool .....	3.8	-	3.1	-	.4	-	3.0	-	1.9	-	.3	-
224	Narrow fabric mills .....	3.9	-	3.1	-	.5	-	2.9	-	1.8	-	.6	-
225	Knitting mills .....	4.7	-	3.4	-	1.0	-	4.8	-	2.5	-	1.4	-
2251	Women's hosiery, except socks .....	3.3	-	2.4	-	.3	-	3.5	-	2.3	-	.5	-
2252	Hosiery, nec .....	4.2	-	3.8	-	.3	-	3.8	-	2.9	-	.3	-
2254	Knit underwear mills .....	4.4	-	3.9	-	.4	-	3.7	-	2.8	-	.1	-
226	Textile finishing, except wool .....	2.7	-	2.0	-	.5	-	2.3	-	1.3	-	.3	-
227	Floor covering mills .....	1.9	-	1.4	-	.4	-	3.3	-	1.3	-	1.2	-
228	Yarn and thread mills .....	4.9	-	3.8	-	.8	-	4.8	-	3.5	-	.3	-
229	Miscellaneous textile goods .....	2.8	-	1.9	-	.5	-	2.9	-	1.3	-	.6	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	5.0	5.4	3.2	3.5	1.5	1.6	4.6	5.4	2.3	2.9	1.4	1.7
231	Men's and boys' suits and coats .....	2.6	-	1.3	-	1.0	-	3.4	-	1.2	-	1.0	-
232	Men's and boys' furnishings .....	5.0	-	3.4	-	1.4	-	4.6	-	2.9	-	1.0	-
2321	Men's and boys' shirts and nightwear .....	4.2	-	3.1	-	.7	-	4.0	-	2.6	-	.7	-
2327	Men's and boys' separate trousers .....	4.0	-	2.7	-	1.1	-	3.9	-	2.7	-	.6	-
2328	Men's and boys' work clothing .....	5.0	-	4.2	-	.6	-	5.2	-	3.7	-	.7	-
234	Women's and children's undergarments .....	4.6	-	3.4	-	.9	-	4.9	-	2.5	-	1.5	-
2341	Women's and children's underwear .....	4.8	-	3.6	-	.8	-	4.9	-	2.8	-	1.4	-
2342	Corsets and allied garments .....	3.9	-	2.7	-	.9	-	4.8	-	1.5	-	1.8	-
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	2.3	2.6	1.6	1.8	.6	.6	2.2	2.3	.9	1.1	.7	.5
261,2.6	Paper and pulp mills .....	1.2	-	.7	-	.5	-	1.2	-	.4	-	.4	-
263	Paperboard mills .....	1.7	-	1.2	-	.3	-	2.0	-	.6	-	.5	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>	Feb. 1978	Mar. 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>												
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>												
264	Miscellaneous converted paper products . . . . .	2.6	-	2.0	-	0.6	-	2.5	-	1.1	-	0.7	-
2643	Bags, except textile bags . . . . .	3.6	-	2.8	-	.8	-	3.4	-	1.4	-	1.3	-
265	Paperboard containers and boxes . . . . .	3.0	-	2.1	-	.7	-	2.9	-	1.2	-	.9	-
2651,2	Folding and setup paperboard boxes . . . . .	3.4	-	2.0	-	1.3	-	3.7	-	1.1	-	1.8	-
2653	Corrugated and solid fiber boxes . . . . .	2.1	-	1.6	-	.3	-	2.3	-	1.0	-	.6	-
27	<b>PRINTING AND PUBLISHING</b> . . . . .	2.9	3.3	2.3	2.7	.5	0.5	2.6	2.8	1.5	1.7	.6	0.5
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> . . . . .	1.5	1.7	1.1	1.3	.3	.3	1.3	1.4	.5	.7	.3	.3
281	Industrial chemicals . . . . .	1.1	-	.8	-	.1	-	1.2	-	.4	-	.2	-
282	Plastics materials and synthetics . . . . .	1.2	-	.8	-	.2	-	1.0	-	.4	-	.3	-
2821	Plastics materials and resins . . . . .	1.1	-	.8	-	.2	-	1.2	-	.4	-	.4	-
2823,4	Synthetic fibers . . . . .	1.3	-	.9	-	.3	-	.9	-	.4	-	.2	-
283	Drugs . . . . .	1.5	-	1.2	-	.2	-	1.1	-	.5	-	.3	-
2834	Pharmaceutical preparations . . . . .	1.5	-	1.2	-	.2	-	1.2	-	.5	-	.4	-
284	Soap, cleaners, and toilet goods . . . . .	2.6	-	1.8	-	.7	-	2.0	-	.6	-	.7	-
2841	Soap and other detergents . . . . .	1.6	-	.7	-	.8	-	1.8	-	.3	-	.5	-
2844	Toilet preparations . . . . .	2.7	-	1.9	-	.6	-	2.2	-	.8	-	.8	-
285	Paints and allied products . . . . .	1.9	-	1.6	-	.2	-	1.5	-	.8	-	.2	-
286,9	Other chemical products . . . . .	1.7	-	1.3	-	.3	-	1.4	-	.6	-	.4	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> . . . . .	2.1	2.0	1.6	1.5	.4	.5	1.8	1.6	.6	.6	.5	.4
291	Petroleum refining . . . . .	1.5	-	1.2	-	.2	-	1.2	-	.3	-	.2	-
295,9	Other petroleum and coal products . . . . .	3.8	-	2.8	-	1.0	-	3.8	-	1.4	-	1.4	-
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> . . . . .	3.9	4.6	2.8	3.4	.8	.8	4.1	4.8	1.9	2.5	1.3	1.2
301	Tires and inner tubes . . . . .	1.9	-	.4	-	1.2	-	3.2	-	.4	-	2.3	-
302,3,6	Other rubber products . . . . .	2.7	-	1.8	-	.6	-	3.2	-	1.4	-	1.1	-
307	Miscellaneous plastics products . . . . .	4.9	-	4.0	-	.7	-	4.8	-	2.6	-	1.1	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	5.1	6.6	3.5	5.0	1.2	1.2	5.2	6.4	3.0	3.8	1.2	1.5
311	Leather tanning and finishing . . . . .	4.1	-	2.8	-	1.3	-	4.1	-	1.5	-	1.6	-
314	Footwear, except rubber . . . . .	5.4	-	3.9	-	1.0	-	5.8	-	3.6	-	1.2	-
	<b>NONMANUFACTURING</b>												
10	<b>METAL MINING</b> . . . . .	2.3	2.0	1.7	1.7	.4	.2	2.2	2.1	1.0	1.0	.5	.5
101	Iron ores . . . . .	2.8	-	1.7	-	1.0	-	1.6	-	.7	-	.1	-
102	Copper ores . . . . .	1.2	-	.7	-	.2	-	1.2	-	.4	-	.1	-
11,12	<b>COAL MINING</b> . . . . .	1.1	2.0	.2	.4	.5	.7	1.3	1.5	.4	.5	.6	.4
12	Bituminous coal and lignite mining . . . . .	1.0	-	.2	-	.4	-	.9	-	.4	-	.2	-
	<b>COMMUNICATION:</b>												
481	Telephone communication . . . . .	1.0	-	-	-	( <sup>1</sup> )	-	.9	-	.3	-	.1	-
482	Telegraph communication <sup>2</sup> . . . . .	(*)	-	-	-	(*)	-	(*)	-	(*)	-	(*)	-

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

<sup>P</sup> = preliminary.

<sup>2</sup> Data relate to all employees except messengers.

\* = not available.

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

**D-3. Labor turnover rates in manufacturing, 1966 to date, seasonally adjusted**

[Per 100 employees]

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1966	4.9	5.0	5.3	5.1	5.0	4.9	4.9	5.0	5.0	4.9	4.7	4.7
1967	4.5	4.4	4.3	4.3	4.4	4.5	4.4	4.3	4.4	4.4	4.5	4.6
1968	4.4	4.4	4.6	4.6	4.6	4.5	4.5	4.7	4.6	4.8	4.9	4.9
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	4.3	4.4	4.2	4.3	4.4	4.4	4.6	4.6	4.9
1973	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.6	4.7	4.8	4.9	4.7
1974	4.7	4.6	4.5	4.5	4.6	4.3	4.2	4.1	3.9	3.6	3.1	3.1
1975	3.1	3.2	3.2	3.7	3.6	3.7	4.0	4.0	3.8	3.7	3.8	3.9
1976	4.1	4.2	4.3	4.1	4.0	3.8	3.8	3.8	3.7	3.6	3.9	4.1
1977	4.0	4.6	4.2	4.0	4.1	3.9	3.8	3.8	3.9	3.8	3.9	4.5
1978	4.0	4.0	P4.0									
<b>New hires</b>												
1966	3.7	3.8	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.9	3.7	3.6
1967	3.4	3.4	3.2	3.1	3.1	3.3	3.2	3.1	3.3	3.3	3.4	3.5
1968	3.3	3.3	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.7
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.6	3.5	3.7	3.6	3.5	3.5
1970	3.4	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	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.5	3.7	3.8
1973	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.7	3.8	3.9	3.8
1974	3.8	3.6	3.6	3.5	3.5	3.3	3.2	3.1	2.9	2.6	2.2	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.3	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.5	2.5	2.4	2.4	2.5	2.6
1977	2.7	2.9	3.0	3.0	3.0	2.8	2.7	2.7	2.7	2.7	2.9	3.3
1978	2.9	3.0	P3.0									
<b>Total separations</b>												
1966	4.3	4.3	4.5	4.5	4.6	4.7	4.9	4.8	4.6	4.6	4.8	4.9
1967	4.8	4.9	4.9	4.7	4.6	4.6	4.5	4.3	4.5	4.5	4.4	4.5
1968	4.7	4.6	4.5	4.5	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.6
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	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.4
1973	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.4	4.6	4.7	4.9
1974	4.9	4.9	4.9	4.8	4.6	4.6	4.5	4.6	4.5	4.8	5.1	5.0
1975	5.2	5.0	4.6	4.5	4.6	4.3	3.9	3.9	3.8	3.8	3.8	3.6
1976	3.5	3.6	3.9	3.9	3.8	3.9	3.9	4.0	3.9	3.9	3.6	3.7
1977	3.8	4.1	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.7	3.6	3.9
1978	3.6	3.8	P3.8									
<b>Quits</b>												
1966	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
1967	2.5	2.5	2.4	2.4	2.3	2.4	2.2	2.2	2.3	2.3	2.3	2.4
1968	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5	2.6	2.6
1969	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6
1970	2.5	2.5	2.3	2.3	2.1	2.1	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	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.8
1974	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.8	1.6
1975	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.5	1.6	1.6
1976	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.7
1977	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.1
1978	1.9	2.0	P2.0									
<b>Layoffs</b>												
1966	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.2	1.0	1.1	1.2	1.3
1967	1.4	1.5	1.6	1.5	1.4	1.3	1.4	1.3	1.3	1.3	1.2	1.2
1968	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1
1969	1.0	1.1	1.1	1.0	1.1	1.3	1.1	1.2	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.6	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	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973	.8	.7	.8	.8	.8	.8	.8	.9	.8	.8	.9	1.1
1974	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.4	1.4	1.9	2.4	2.5
1975	2.9	2.9	2.6	2.5	2.5	2.2	1.7	1.7	1.7	1.6	1.5	1.3
1976	1.1	1.0	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.2
1977	1.2	1.4	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.1	.9	1.0
1978	.9	.9	P.9									

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. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>
<b>ALABAMA:</b>												
Birmingham .....	2.5	2.5	1.3	1.2	0.9	1.1	2.6	1.8	0.8	0.6	1.0	0.4
Mobile <sup>1</sup> .....	7.5	5.5	1.6	1.6	5.7	3.8	5.0	6.0	1.7	1.5	2.8	3.9
<b>ALASKA</b> .....	4.6	13.9	3.2	10.2	.6	3.4	7.3	12.3	1.9	6.3	4.5	5.2
<b>ARIZONA</b> .....	4.2	3.8	3.4	3.1	.6	.5	4.1	3.7	2.1	1.9	.9	.7
Phoenix .....	4.3	4.0	3.6	3.2	.5	.5	4.1	3.7	2.1	2.0	.8	.4
<b>ARKANSAS</b> .....	6.3	5.1	4.8	4.1	1.2	.6	5.4	4.9	3.4	3.2	1.0	.7
Fort Smith .....	7.0	6.3	4.9	4.9	1.4	.6	5.1	5.5	3.8	3.4	.1	.5
Little Rock-North Little Rock .....	8.2	4.9	4.5	4.2	3.1	.2	3.8	3.8	2.5	2.5	.3	.3
Pine Bluff .....	4.4	4.1	3.6	3.0	.7	.7	5.2	4.3	2.9	2.4	1.3	1.2
<b>COLORADO</b> <sup>2</sup> .....	4.5	4.1	3.5	3.0	.8	.8	4.4	3.2	2.2	1.9	1.5	.5
Denver-Boulder <sup>2</sup> .....	4.1	3.8	3.5	3.1	.4	.5	4.6	3.4	2.1	2.0	1.7	.5
<b>CONNECTICUT</b> .....	2.3	2.1	1.5	1.4	.5	.5	2.4	1.8	.9	.8	.8	.4
Hartford .....	2.0	2.1	1.5	1.4	.4	.5	1.8	1.6	.8	.9	.5	.3
<b>DELAWARE</b> <sup>1</sup> .....	2.9	3.1	1.5	1.4	.5	.3	1.7	3.3	.7	.6	.3	1.8
Wilmington <sup>1</sup> .....	2.3	1.9	.9	1.2	.6	.4	1.6	3.1	.5	.5	.4	2.0
<b>DISTRICT OF COLUMBIA:</b>												
Washington SMSA .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>FLORIDA</b> .....	5.5	4.6	4.6	3.9	.7	.6	4.9	4.1	2.9	2.4	1.0	.7
Fort Lauderdale-Hollywood .....	7.3	4.4	6.9	4.2	.3	.1	4.2	4.0	3.1	3.1	.1	.1
Jacksonville .....	4.4	4.5	2.9	2.6	1.4	1.9	4.4	6.2	2.2	1.7	1.3	2.9
Miami .....	6.5	4.1	5.3	3.7	1.1	.3	4.8	3.1	2.7	2.1	1.3	.3
Orlando .....	5.6	3.7	4.6	3.2	.7	.2	3.7	3.1	2.1	1.9	.7	.4
Pensacola .....	1.1	.8	.6	.6	.4	.1	2.0	1.0	.7	.6	.1	( <sup>3</sup> )
Tampa-St. Petersburg .....	5.9	5.3	5.0	4.2	.8	1.0	5.7	4.5	3.3	3.1	1.4	.4
West Palm Beach-Boca Raton .....	3.4	2.7	3.2	2.6	.2	.1	3.8	3.2	2.6	1.4	.1	.6
<b>GEORGIA</b> .....	4.0	3.4	3.1	2.6	.5	.5	3.5	3.3	2.1	2.0	.5	.5
Atlanta <sup>4</sup> .....	3.2	2.8	2.5	1.9	.6	.7	2.8	2.9	1.4	1.5	.6	.6
<b>HAWAII</b> <sup>5</sup> .....	2.5	3.1	1.3	1.7	1.0	1.1	2.5	2.7	.7	.9	1.3	1.2
<b>IDAHO</b> <sup>6</sup> .....	5.4	4.4	4.2	3.8	1.1	.3	5.9	5.5	3.3	3.1	1.9	1.5
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.4	3.1	2.3	2.4	.7	.4	3.1	3.0	1.5	1.4	.6	.7
<b>INDIANA</b> .....	3.5	2.5	2.3	1.5	.7	.5	2.9	3.1	1.0	.9	1.1	1.5
Indianapolis <sup>7</sup> .....	2.0	2.0	1.4	1.2	.1	.3	2.6	2.1	1.0	.8	.9	.6
<b>IOWA</b> <sup>8</sup> .....	3.4	2.5	2.1	1.6	1.1	.8	3.1	2.3	1.3	1.1	1.1	.7
Cedar Rapids <sup>8</sup> .....	3.2	1.8	1.4	.9	1.7	.7	2.4	1.8	.9	.6	1.0	.8
Des Moines <sup>8</sup> .....	5.3	3.4	2.4	1.6	1.9	1.4	4.6	3.4	1.4	1.2	2.4	.5
<b>KANSAS</b> .....	4.9	3.9	4.0	3.4	.7	.4	4.1	3.4	2.5	2.1	.6	.4
Topeka .....	4.3	3.2	3.2	2.9	.9	.2	2.9	3.3	1.3	1.8	.7	.8
Wichita .....	5.9	4.2	4.8	3.4	.8	.7	4.2	3.2	2.7	2.1	.4	.1
<b>KENTUCKY</b> .....	2.5	2.3	1.5	1.5	.7	.6	2.8	2.6	1.0	1.0	1.1	.7
Louisville .....	1.6	2.1	1.0	1.3	.4	.4	1.8	1.8	.6	.7	.3	.3
<b>LOUISIANA</b> .....												
New Orleans .....	4.8	4.4	3.5	3.5	1.0	.7	4.7	3.5	1.9	2.0	1.7	.4
<b>MAINE</b> .....	6.0	4.3	4.0	3.1	1.7	.9	4.4	4.6	2.4	2.2	1.1	1.5
Portland .....	4.5	3.2	3.3	2.5	1.0	.5	2.9	2.9	1.6	1.8	.7	.3
<b>MARYLAND</b> .....	2.9	2.4	1.4	1.2	1.3	1.1	3.1	2.3	.8	.8	1.7	1.0
Baltimore .....	2.9	2.7	1.2	1.2	1.5	1.3	3.2	2.4	.7	.8	1.9	1.1
<b>MASSACHUSETTS</b> .....	3.8	2.7	2.4	1.9	1.1	.6	3.1	2.4	1.4	1.1	.9	.7
Boston .....	3.0	2.5	2.1	1.6	.6	.7	3.0	2.2	1.2	.9	1.0	.7
<b>MICHIGAN</b> .....	2.4	2.0	1.2	1.0	.6	.5	2.5	2.1	.7	.7	1.0	.8
Detroit .....	2.5	1.9	1.4	1.0	.6	.5	2.2	2.2	.8	.8	.7	.7
Flint .....	1.7	1.7	.1	.4	.3	( <sup>3</sup> )	2.8	1.8	.3	.3	1.7	.7
Grand Rapids .....	4.0	3.2	2.6	1.9	1.0	1.0	3.8	3.3	1.2	1.0	1.7	1.6
Lansing-East Lansing .....	1.5	1.3	.6	.4	.2	.6	2.1	4.4	.3	.4	.4	2.9

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. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>
MINNESOTA .....	3.8	3.7	2.6	2.4	1.0	1.1	3.2	2.8	1.4	1.3	1.1	0.9
Minneapolis—St. Paul .....	3.3	3.3	2.4	2.2	.8	1.0	2.7	2.4	1.2	1.1	.9	.7
MISSISSIPPI:												
Jackson .....	3.1	2.7	2.2	2.2	.6	.5	4.0	2.3	1.8	1.7	1.6	.1
MISSOURI .....	3.3	2.9	2.3	2.1	.8	.6	3.4	2.7	1.4	1.3	1.2	.7
Kansas City .....	3.3	3.0	2.7	2.6	.4	.4	3.2	2.4	1.3	1.2	1.1	.4
St. Louis .....	3.0	2.4	1.5	1.6	1.0	.7	2.8	2.0	.9	.8	1.1	.5
MONTANA .....	2.4	1.8	1.3	1.2	(*)	(*)	3.5	2.4	1.4	.8	1.2	1.3
NEBRASKA .....	4.1	4.0	3.1	3.4	.9	.6	3.8	3.2	2.1	1.7	.8	.8
NEVADA .....	8.2	6.8	6.3	5.5	1.0	.7	7.2	6.2	3.6	2.9	1.3	1.9
NEW HAMPSHIRE .....	4.3	3.7	3.4	3.0	.3	.3	3.8	3.3	2.1	2.0	.5	.5
NEW JERSEY:												
Camden <sup>9</sup> ID .....	3.3	3.6	1.9	2.5	.9	.9	2.6	2.6	.8	.9	.7	.8
Hackensack <sup>9</sup> .....	4.1	2.9	2.8	2.2	1.1	.7	4.0	3.4	1.5	1.3	1.4	1.1
Jersey City <sup>9</sup> .....	3.6	2.6	2.0	1.7	1.4	.9	4.0	2.2	.9	.7	2.1	.8
Newark <sup>9</sup> .....	3.0	2.6	1.8	1.6	.6	.5	3.1	2.5	1.0	.9	1.2	.9
New Brunswick—Perth Amboy—Sayreville <sup>9</sup> .....	3.9	3.0	2.3	2.0	1.1	.7	2.6	2.8	1.1	1.1	.5	.5
Paterson—Clifton—Passaic <sup>9</sup> .....	3.8	3.6	2.5	2.2	1.1	1.2	4.5	2.4	1.1	1.2	2.3	.5
Trenton <sup>9</sup> .....	3.4	1.9	1.2	1.1	1.5	.5	2.8	2.4	.7	.8	1.3	.9
NEW YORK .....	3.5	3.2	1.9	1.8	1.3	1.2	3.9	3.0	1.0	.9	2.0	1.4
Albany—Schenectady—Troy .....	2.6	2.0	1.2	.9	.6	.7	3.0	2.5	.8	.5	1.0	1.1
Binghamton .....	2.0	2.0	1.5	1.4	.4	.4	2.3	1.9	1.1	.9	.4	.4
Buffalo .....	2.4	2.0	.9	.9	1.1	.8	2.8	3.0	.5	.5	1.4	1.7
Elmira .....	2.3	1.8	1.2	.8	.5	.5	3.1	3.4	.7	.6	1.3	2.1
Monroe County <sup>11</sup> .....	1.1	1.2	.8	1.0	.1	.1	1.5	1.5	.7	.5	.3	.2
Nassau—Suffolk <sup>12</sup> .....	4.5	3.9	3.6	2.9	.7	.9	5.2	3.2	2.0	1.7	2.2	.7
New York and Nassau—Suffolk .....	4.7	4.3	2.6	2.4	1.9	1.8	5.5	3.8	1.3	1.1	3.4	2.0
New York SMSA <sup>12</sup> .....	4.7	4.4	2.4	2.2	2.1	2.1	5.6	4.0	1.1	.9	3.7	2.4
New York City <sup>13</sup> .....	5.0	4.6	2.5	2.3	2.4	2.4	6.2	4.2	1.2	.9	4.2	2.6
Rochester .....	1.5	1.6	1.0	1.1	.3	.3	2.2	1.8	.7	.6	.9	.5
Syracuse .....	1.9	2.6	1.2	1.4	.5	1.0	2.2	2.1	.7	.7	.8	.7
Utica—Rome .....	3.1	3.2	1.9	1.6	1.0	1.5	2.3	2.8	.8	.7	1.0	1.6
Westchester County <sup>13</sup> .....	2.6	2.0	1.7	1.6	.7	.2	1.8	2.2	.7	.9	.5	.5
NORTH CAROLINA .....	4.2	3.5	3.5	2.9	.3	.4	4.1	3.9	2.6	2.4	.7	.6
Charlotte—Gastonia .....	5.1	4.3	4.2	3.7	.5	.4	4.9	4.2	3.3	3.2	.5	.2
Greensboro—Winston-Salem—High Point .....	4.0	3.2	3.3	2.8	.2	.1	3.7	4.0	2.3	2.3	.6	.5
NORTH DAKOTA .....	4.4	3.6	2.7	2.4	1.4	.6	4.4	4.1	1.7	1.9	1.5	1.4
Fargo—Moorhead .....	3.9	3.5	3.3	2.9	.5	.5	6.0	4.6	1.7	1.8	2.7	1.7
OHIO .....	2.5	2.1	1.3	1.2	(*)	(*)	2.8	2.2	.8	.7	1.2	.8
Akron .....	1.6	1.3	1.0	.8	(*)	(*)	1.6	1.4	.5	.5	.6	.5
Canton .....	2.6	2.2	1.1	.6	(*)	(*)	3.2	2.6	.7	.5	1.4	1.1
Cincinnati .....	2.2	2.0	1.6	1.4	(*)	(*)	2.2	1.7	.8	.7	.6	.5
Cleveland .....	2.2	2.4	1.4	1.7	(*)	(*)	2.7	2.3	.8	.9	1.0	.6
Columbus .....	2.2	1.9	1.2	1.3	(*)	(*)	2.8	2.0	.7	.8	1.4	.4
Dayton .....	1.8	1.3	1.3	.9	(*)	(*)	2.2	1.8	.7	.7	.8	.6
Toledo .....	2.3	2.4	1.2	1.3	(*)	(*)	2.8	2.1	.7	.6	1.3	.8
Youngstown—Warren .....	2.6	1.8	.5	.5	(*)	(*)	5.4	2.4	.3	.4	3.2	1.1
OKLAHOMA .....	5.5	4.8	4.9	4.3	.5	.3	4.8	4.8	3.3	3.1	.5	.7
Oklahoma City .....	5.5	4.5	4.9	4.0	.5	.4	4.9	4.4	3.6	3.2	.4	.3
Tulsa <sup>14</sup> .....	5.1	4.9	4.8	4.5	.3	.2	5.1	5.3	3.0	3.3	.8	.9
OREGON <sup>1</sup> .....	4.6	4.5	3.6	3.4	.7	.9	3.9	3.8	1.9	1.9	1.1	1.0
Portland <sup>1</sup> .....	4.8	5.1	3.8	3.9	.8	1.1	3.7	3.5	1.9	1.9	1.1	.8
PENNSYLVANIA .....	3.5	(*)	1.5	(*)	1.7	(*)	3.2	(*)	.8	(*)	1.6	(*)
Allentown—Bethlehem—Easton .....	3.4	(*)	1.0	(*)	2.0	(*)	2.9	(*)	.8	(*)	1.3	(*)
Altoona .....	3.4	(*)	.7	(*)	2.6	(*)	5.8	(*)	.8	(*)	4.4	(*)
Erie .....	2.2	(*)	1.4	(*)	.5	(*)	2.7	(*)	.8	(*)	1.0	(*)
Harrisburg .....	2.3	(*)	1.4	(*)	.8	(*)	2.0	(*)	.9	(*)	.5	(*)
Johnstown .....	3.5	(*)	.6	(*)	2.8	(*)	7.5	(*)	1.0	(*)	4.8	(*)
Lancaster .....	4.1	(*)	3.0	(*)	1.1	(*)	2.9	(*)	1.4	(*)	.7	(*)

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. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	6.1	(*)	2.2	(*)	3.3	(*)	5.0	(*)	1.0	(*)	3.3	(*)
Philadelphia SMSA .....	2.8	(*)	1.3	(*)	1.2	(*)	3.0	(*)	.8	(*)	1.5	(*)
Pittsburgh .....	3.0	(*)	1.2	(*)	1.5	(*)	2.7	(*)	.4	(*)	1.6	(*)
Reading <sup>15</sup> .....	3.8	(*)	2.3	(*)	1.4	(*)	3.1	(*)	1.2	(*)	1.2	(*)
Scranton .....	5.5	(*)	1.8	(*)	3.5	(*)	7.3	(*)	1.1	(*)	5.7	(*)
Wilkes-Barre—Hazleton <sup>15</sup> .....	6.6	(*)	2.2	(*)	3.3	(*)	3.5	(*)	.9	(*)	1.6	(*)
Williamsport .....	2.1	(*)	1.3	(*)	.6	(*)	1.8	(*)	.6	(*)	.9	(*)
York .....	3.4	(*)	2.8	(*)	.4	(*)	3.7	(*)	1.6	(*)	1.5	(*)
<b>RHODE ISLAND</b>												
Providence—Warwick—Pawtucket .....	4.8	4.3	3.5	2.8	.9	1.2	5.0	3.8	2.4	1.8	1.8	1.0
	4.8	4.2	3.7	2.8	.9	1.2	4.7	3.7	2.4	1.8	1.6	1.0
<b>SOUTH CAROLINA</b>												
Charleston—North Charleston .....	3.8	3.1	3.1	2.6	.4	.3	3.5	3.1	2.1	1.9	.5	.4
Columbia .....	5.3	4.6	4.5	3.2	.7	1.3	3.5	2.6	2.0	1.4	.1	.3
Greenville—Spartanburg .....	3.9	4.3	3.5	3.4	.1	.9	3.2	3.1	2.0	2.4	.7	.1
	4.0	3.3	3.4	2.9	.2	.2	3.7	3.6	2.4	2.2	.3	.5
<b>SOUTH DAKOTA</b>												
Sioux Falls .....	2.8	2.7	2.2	1.9	.6	.4	2.8	2.6	1.7	1.7	.5	.5
	2.9	2.5	1.5	1.8	1.4	.6	1.8	2.0	1.0	1.0	.6	.9
<b>TENNESSEE:</b>												
Memphis .....	3.8	3.4	2.6	2.3	.9	.9	3.3	3.2	1.3	1.4	1.1	.8
<b>TEXAS:</b>												
Dallas—Fort Worth .....	4.9	4.6	4.3	4.2	.3	.2	4.1	3.6	2.8	2.6	.3	.2
Houston .....	4.6	4.2	4.2	3.8	.2	.3	3.8	3.6	2.4	2.4	.3	.1
San Antonio .....	4.5	4.4	4.0	3.9	.3	.3	3.9	3.3	2.6	2.2	.5	.3
<b>UTAH <sup>5</sup></b>												
Salt Lake City—Ogden <sup>5</sup> .....	5.6	4.5	4.5	3.8	.8	.5	5.1	4.3	2.8	2.7	1.3	.5
	5.5	4.2	4.7	3.9	.6	.2	4.4	4.4	2.9	2.9	.5	.5
<b>VERMONT</b>												
Burlington .....	5.5	(*)	2.4	(*)	2.9	(*)	3.4	(*)	1.2	(*)	1.6	(*)
Springfield .....	2.5	(*)	1.5	(*)	.5	(*)	1.4	(*)	.5	(*)	.6	(*)
	3.1	(*)	1.8	(*)	1.2	(*)	2.2	(*)	1.2	(*)	.4	(*)
<b>VIRGINIA</b>												
Richmond .....	3.3	2.4	2.3	1.8	.7	.3	2.8	2.9	1.5	1.4	.5	.7
	2.0	1.7	1.4	1.2	.2	.2	1.7	1.4	.6	.6	.2	.1
<b>WASHINGTON:</b>												
Seattle—Everett <sup>9</sup> <sup>16</sup> .....	4.5	4.2	2.9	3.0	1.3	1.0	3.2	3.1	1.4	1.2	1.2	1.3
<b>WISCONSIN</b>												
Milwaukee .....	2.9	2.7	2.0	1.8	.7	.7	3.3	2.7	1.1	1.0	1.4	1.0
	2.6	2.4	1.8	1.6	.4	.5	2.9	2.6	1.0	.8	1.0	.9
<b>WYOMING</b>												
	4.0	5.6	3.6	4.9	.4	.7	4.3	17.3	2.4	3.8	1.0	11.5

<sup>1</sup> Excludes canning and preserving.

<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual.

<sup>3</sup> Less than 0.05.

<sup>4</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>5</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>6</sup> Excludes canning and preserving, and sugar.

<sup>7</sup> Excludes canning and preserving, and newspapers.

<sup>8</sup> Based on the 1972 Standard Industrial Classification Manual; not strictly comparable with previously published data.

<sup>9</sup> Revised series; not strictly comparable with previously published data.

<sup>10</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

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

<sup>12</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>13</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>14</sup> Excludes new-hire rate for transportation equipment.

<sup>15</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>16</sup> Excludes canning and preserving, printing and publishing.

p=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. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P
<b>ALABAMA</b> .....	1,498.2	1,538.5	1,550.4	117.3	100.2	97.3	7.8	6.5	6.3
Birmingham .....	353.4	362.3	364.0	24.7	20.8	18.6	7.0	5.7	5.1
Huntsville .....	124.3	126.3	127.6	9.8	8.0	8.2	7.9	6.3	6.4
Mobile .....	167.6	175.6	176.1	13.9	12.9	12.2	8.3	7.3	6.9
Montgomery .....	102.2	109.1	110.4	6.2	5.0	5.2	6.1	4.6	4.7
Tuscaloosa .....	51.9	53.6	53.6	3.7	3.6	4.7	7.1	7.1	8.7
<b>ALASKA</b> .....	170.4	172.9	178.1	18.0	20.7	22.3	10.6	12.0	12.5
<b>ARIZONA</b> .....	974.9	981.7	973.1	87.5	67.5	60.3	9.0	6.9	6.2
Phoenix .....	574.0	585.0	580.2	48.7	34.2	31.1	8.5	5.8	5.4
Tucson .....	185.0	183.2	182.2	14.9	11.6	10.4	8.0	6.3	5.7
<b>ARKANSAS</b> .....	893.2	916.1	931.5	63.5	68.5	57.9	7.1	7.5	6.2
Fayetteville-Springdale .....	67.3	70.2	70.1	3.7	4.6	3.3	5.4	6.6	4.7
Fort Smith <sup>1</sup> .....	78.8	81.2	81.6	5.4	6.1	5.1	6.9	7.5	6.3
Little Rock-North Little Rock .....	170.5	177.3	178.7	8.1	8.5	7.2	4.6	4.8	4.0
Pine Bluff .....	34.5	36.1	36.7	2.3	2.8	2.5	6.6	7.7	6.9
<b>CALIFORNIA</b> <sup>2</sup> .....	9,957.3	10,386.0	10,524.1	867.5	853.6	843.2	8.7	8.2	8.0
Anaheim-Santa Ana-Garden Grove .....	891.6	968.7	987.7	53.5	50.3	50.8	6.0	5.2	5.1
Bakersfield .....	159.4	161.5	169.2	16.1	15.3	18.1	10.1	9.5	10.7
Fresno .....	226.3	246.6	247.8	24.1	27.9	29.8	10.6	11.3	12.0
Los Angeles-Long Beach <sup>2</sup> .....	3,314.0	3,383.0	3,393.0	270.0	282.0	258.0	8.1	8.3	7.6
Modesto .....	123.9	129.6	132.0	21.9	20.5	21.3	17.7	15.8	16.1
Oxnard-Simi Valley-Ventura .....	192.9	200.9	208.4	14.3	16.4	18.0	7.4	8.2	8.6
Riverside-San Bernardino-Ontario .....	511.0	534.1	544.5	42.6	37.1	37.5	8.3	6.9	6.9
Sacramento .....	413.9	440.1	446.9	40.6	38.6	40.0	9.8	8.8	8.9
Salinas-Seaside-Monterey .....	115.1	122.5	124.2	11.6	11.6	13.1	10.1	12.3	10.5
San Diego .....	632.4	660.4	676.5	57.1	48.4	50.6	9.0	7.3	7.5
San Francisco-Oakland .....	1,506.9	1,550.3	1,572.5	118.4	95.6	100.2	7.9	6.2	6.4
San Jose .....	601.9	643.4	654.7	44.4	42.2	43.4	7.4	6.6	6.6
Santa Barbara-Santa Maria-Lompoc .....	130.8	134.5	136.7	9.5	9.8	9.3	7.3	7.3	6.8
Santa Rosa .....	110.7	116.4	116.8	11.9	10.9	10.2	10.6	9.4	8.7
Stockton .....	146.5	153.2	157.2	19.5	21.9	21.8	13.5	14.3	13.8
Vallejo-Fairfield-Napa .....	113.4	118.6	119.6	9.5	8.9	8.8	8.3	7.5	7.3
<b>COLORADO</b> .....	1,231.3	1,232.1	1,246.2	90.2	72.7	78.3	7.3	5.9	6.3
Denver-Boulder .....	726.5	730.8	736.4	49.4	38.4	40.9	6.8	5.3	5.5
<b>CONNECTICUT</b> .....	1,479.0	1,505.9	1,506.6	125.8	95.9	88.6	8.6	6.4	5.9
Bridgeport .....	183.0	185.4	185.0	15.7	12.6	11.1	8.5	6.8	6.0
Hartford .....	350.7	359.9	360.1	27.6	20.2	18.4	7.9	5.6	5.1
New Britain .....	70.2	71.4	71.9	6.8	5.1	4.4	9.7	7.2	6.2
New Haven-West Haven .....	197.5	191.8	191.3	20.0	11.4	10.7	10.1	5.9	5.6
Stamford .....	108.2	115.3	114.6	6.5	5.5	4.9	6.0	4.7	4.2
Waterbury .....	106.9	106.8	107.6	10.3	7.7	8.1	9.6	7.2	7.5
<b>DELAWARE</b> .....	266.0	261.0	263.9	26.1	25.3	21.8	9.8	9.7	8.3
Wilmington <sup>1</sup> .....	234.8	229.3	230.6	22.5	21.5	17.8	9.6	9.4	7.7
<b>DISTRICT OF COLUMBIA</b> .....	326.2	323.7	327.6	33.2	26.1	25.7	10.2	8.1	7.9
Washington SMSA <sup>1</sup> .....	1,524.4	1,503.6	1,525.0	85.0	76.1	75.7	5.6	5.1	5.0
<b>FLORIDA</b> <sup>2</sup> .....	3,437.5	3,639.1	3,607.7	305.0	222.9	226.6	8.9	6.1	6.3
Fort Lauderdale-Hollywood .....	351.5	367.9	369.1	36.3	24.5	25.1	10.3	6.7	6.8
Jacksonville .....	280.0	298.4	293.8	19.4	16.5	16.9	6.9	5.5	5.8
Miami .....	663.7	692.4	686.9	64.6	45.2	46.1	9.7	6.5	6.7
Orlando .....	264.9	279.3	278.4	22.3	16.2	16.2	8.4	5.8	5.8
Pensacola .....	100.9	107.4	107.4	5.8	5.1	5.2	5.7	4.8	4.8
Tampa-St. Petersburg .....	528.6	558.4	552.9	46.5	31.8	33.0	8.8	5.7	6.0
West Palm Beach-Boca Raton .....	195.3	210.5	206.2	20.5	12.7	12.9	10.6	6.0	6.3
<b>GEORGIA</b> .....	2,212.9	2,252.3	2,275.5	144.1	129.3	119.2	6.5	5.7	5.2
Atlanta .....	861.0	858.1	867.4	60.0	47.5	44.2	7.0	5.5	5.1
Augusta <sup>1</sup> .....	116.6	120.2	121.3	8.4	8.0	7.2	7.2	6.6	6.0
Columbus <sup>1</sup> .....	82.6	85.8	86.5	5.2	5.2	4.9	6.3	6.1	5.7
Macon .....	102.3	103.7	103.3	7.6	8.1	7.3	7.4	7.9	7.1
Savannah .....	85.7	86.2	86.7	5.6	4.9	4.8	6.6	5.7	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. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P
<b>HAWAII</b> .....	403.6	399.6	402.3	31.2	24.3	25.1	7.7	6.1	6.2
Honolulu .....	319.9	315.5	318.1	24.3	18.8	19.4	7.6	6.0	6.1
<b>IDAHO</b> .....	374.2	388.5	398.3	26.8	25.6	25.1	7.2	6.6	6.3
Boise City .....	75.1	81.4	83.2	3.2	3.2	2.9	4.3	3.9	3.5
<b>ILLINOIS</b> <sup>2</sup> .....	5,150.4	5,234.8	5,230.3	319.1	374.0	350.0	6.2	7.1	6.7
Bloomington—Normal .....	58.0	N.A.	N.A.	2.4	N.A.	N.A.	4.1	N.A.	N.A.
Champaign—Urbana—Rantoul .....	74.2	N.A.	N.A.	3.4	N.A.	N.A.	4.5	N.A.	N.A.
Chicago .....	3,268.6	N.A.	N.A.	192.7	N.A.	N.A.	5.9	N.A.	N.A.
Davenport—Rock Island—Moline <sup>1</sup> .....	172.3	N.A.	N.A.	8.7	N.A.	N.A.	5.0	N.A.	N.A.
Decatur .....	60.1	N.A.	N.A.	4.5	N.A.	N.A.	7.5	N.A.	N.A.
Peoria .....	165.7	N.A.	N.A.	8.9	N.A.	N.A.	5.4	N.A.	N.A.
Rockford .....	127.9	N.A.	N.A.	7.8	N.A.	N.A.	6.1	N.A.	N.A.
Springfield .....	94.8	N.A.	N.A.	5.6	N.A.	N.A.	5.9	N.A.	N.A.
<b>INDIANA</b> .....	2,429.0	2,486.3	2,496.4	159.1	160.9	141.0	6.5	6.5	5.6
Evansville <sup>1</sup> .....	133.0	N.A.	N.A.	7.1	N.A.	N.A.	5.3	N.A.	N.A.
Fort Wayne .....	176.5	N.A.	N.A.	10.2	N.A.	N.A.	5.8	N.A.	N.A.
Gary—Hammond—East Chicago .....	274.7	N.A.	N.A.	19.5	N.A.	N.A.	7.1	N.A.	N.A.
Indianapolis .....	545.2	N.A.	N.A.	35.1	N.A.	N.A.	6.4	N.A.	N.A.
Muncie .....	54.6	N.A.	N.A.	3.5	N.A.	N.A.	6.4	N.A.	N.A.
South Bend .....	132.0	N.A.	N.A.	7.9	N.A.	N.A.	5.9	N.A.	N.A.
Terre Haute .....	76.0	N.A.	N.A.	5.6	N.A.	N.A.	7.4	N.A.	N.A.
<b>IOWA</b> .....	1,353.8	1,364.4	1,393.1	64.7	67.9	64.1	4.8	5.0	4.6
Cedar Rapids .....	81.4	82.6	83.6	3.9	3.3	3.1	4.7	4.0	3.7
Des Moines .....	171.0	172.2	174.1	7.8	7.7	7.6	4.5	4.5	4.4
Dubuque .....	43.2	44.1	44.3	2.6	2.6	2.5	5.9	5.9	5.7
Sioux City <sup>1</sup> .....	57.9	N.A.	N.A.	3.1	N.A.	N.A.	5.4	N.A.	N.A.
Waterloo—Cedar Falls .....	64.8	64.3	65.1	3.5	3.2	3.3	5.3	5.0	5.0
<b>KANSAS</b> .....	1,097.2	1,110.0	1,129.8	45.4	44.6	39.3	4.1	4.0	3.5
Topeka .....	90.7	93.3	94.3	3.6	4.2	3.8	4.0	4.5	4.0
Wichita .....	203.0	203.0	205.7	10.8	8.3	7.3	5.3	4.1	3.6
<b>KENTUCKY</b> .....	1,443.1	1,489.9	1,500.5	77.7	101.3	81.6	5.4	6.8	5.4
Lexington—Fayette .....	150.1	151.0	153.6	4.9	5.5	5.6	3.3	3.7	3.7
Louisville <sup>1</sup> .....	387.2	399.8	399.2	22.7	23.6	18.5	5.9	5.9	4.6
<b>LOUISIANA</b> .....	1,605.6	1,622.3	1,632.3	113.1	128.1	122.4	7.0	7.9	7.5
Baton Rouge .....	204.2	206.3	206.1	12.2	14.9	14.2	6.0	7.2	6.9
Lake Charles .....	66.3	66.3	68.5	5.8	7.2	7.6	8.7	10.8	11.1
Monroe .....	54.0	53.7	53.8	4.3	4.2	3.9	8.0	7.9	7.2
New Orleans .....	474.7	475.7	475.2	36.2	34.2	32.4	7.5	7.2	6.8
Shreveport .....	150.8	151.7	152.4	8.8	10.3	10.0	5.8	6.8	6.6
<b>MAINE</b> .....	452.0	450.6	455.3	45.2	33.8	32.3	10.0	7.5	7.1
Lewiston—Auburn .....	36.0	36.2	36.6	2.9	2.3	2.2	8.0	6.3	5.9
Portland .....	82.1	82.2	83.1	7.5	4.8	4.5	9.1	5.8	5.4
<b>MARYLAND</b> .....	1,926.7	1,969.1	2,004.8	133.9	142.5	140.3	6.9	7.2	7.0
Baltimore .....	960.8	1,010.2	1,029.0	72.6	78.5	77.5	7.5	7.8	7.5
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,696.0	2,793.7	2,798.9	234.0	199.5	172.4	8.7	7.1	6.2
Boston .....	1,307.0	1,346.8	1,348.9	104.8	91.9	79.0	8.0	6.8	5.9
Brockton .....	75.5	78.5	77.8	7.5	6.3	4.9	9.9	8.1	6.3
Fall River <sup>1</sup> .....	72.8	76.6	76.2	7.4	6.3	5.1	10.2	8.7	6.7
Lawrence—Haverhill <sup>1</sup> .....	N.A.	135.7	138.1	N.A.	10.8	8.9	N.A.	7.9	6.5
Lowell <sup>1</sup> .....	104.6	111.6	111.7	9.5	8.0	6.9	9.1	7.2	6.2
New Bedford .....	79.4	81.9	82.0	9.0	7.9	6.8	11.3	9.7	8.3
Springfield—Chicopee—Holyoke <sup>1</sup> .....	266.1	276.4	277.0	21.0	15.9	14.6	7.9	5.7	5.3
Worcester .....	189.0	195.8	196.6	13.7	11.5	10.1	7.3	5.9	5.2
<b>MICHIGAN</b> <sup>2</sup> .....	4,098.8	4,160.6	4,125.2	398.4	298.6	296.0	9.7	7.2	7.2
Ann Arbor .....	132.0	136.0	133.7	10.1	6.9	7.3	7.7	5.1	5.5
Battle Creek .....	81.1	81.2	79.3	7.6	5.9	4.6	9.4	7.3	5.8
Bay City .....	50.9	53.6	52.8	4.8	3.7	3.8	9.4	6.9	7.1
Detroit .....	1,963.5	1,991.6	1,977.5	178.6	141.1	135.8	9.1	7.1	6.9
Flint .....	212.4	221.4	217.5	20.2	15.9	15.6	9.3	7.2	7.2

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. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P
<b>MICHIGAN—Continued</b>									
Grand Rapids .....	279.0	285.1	282.6	21.4	14.4	14.2	7.7	5.0	5.0
Jackson .....	65.5	64.6	64.9	7.2	3.9	4.0	11.0	6.0	6.1
Kalamazoo—Portage .....	130.1	130.5	129.4	10.1	7.1	7.5	7.8	5.4	5.8
Lansing—East Lansing .....	221.4	226.0	224.3	18.8	13.4	14.2	8.3	5.9	6.3
Muskegon—Norton Shores—Muskegon Heights .....	75.2	75.7	74.8	7.7	6.9	6.4	10.3	9.2	8.5
Saginaw .....	97.5	102.7	101.3	7.7	5.3	5.4	7.7	5.2	5.3
<b>MINNESOTA</b>									
Duluth—Superior .....	1,847.2	1,905.7	1,921.4	117.4	94.3	88.4	6.4	4.9	4.6
Minneapolis—St. Paul .....	112.3	N.A.	N.A.	10.7	N.A.	N.A.	9.5	N.A.	N.A.
.....	985.2	1,019.6	1,028.4	46.5	36.2	34.5	4.7	3.6	3.4
<b>MISSISSIPPI</b>									
.....	942.2	968.5	983.2	71.8	73.4	68.3	7.6	7.6	6.9
Jackson .....	132.4	139.7	140.9	7.8	7.8	7.1	5.7	5.6	5.0
<b>MISSOURI</b>									
.....	2,196.2	2,202.6	2,222.5	134.6	151.4	131.5	6.1	6.9	5.9
Kansas City <sup>1</sup> .....	644.1	649.7	655.9	36.8	34.2	30.0	5.7	5.3	4.6
St. Joseph .....	44.7	45.5	46.0	2.9	3.0	2.6	6.5	6.6	5.7
St. Louis <sup>1</sup> .....	1,048.3	N.A.	N.A.	71.8	N.A.	N.A.	6.7	N.A.	N.A.
Springfield .....	96.9	97.1	98.3	4.5	5.1	4.4	4.5	5.2	4.4
<b>MONTANA</b>									
.....	328.4	341.3	351.3	25.3	30.0	29.0	7.7	8.8	8.3
Billings .....	N.A.	53.8	52.9	N.A.	3.6	3.6	N.A.	6.7	6.8
Great Falls .....	N.A.	36.2	35.5	N.A.	3.4	2.8	N.A.	9.3	8.0
<b>NEBRASKA</b>									
.....	731.8	N.A.	N.A.	31.4	N.A.	N.A.	4.3	N.A.	N.A.
Lincoln .....	101.6	N.A.	N.A.	3.3	N.A.	N.A.	3.2	N.A.	N.A.
Omaha <sup>1</sup> .....	265.4	N.A.	N.A.	15.4	N.A.	N.A.	5.5	N.A.	N.A.
<b>NEVADA</b>									
.....	312.2	323.1	326.7	25.3	19.2	15.6	8.1	5.9	4.8
Las Vegas .....	171.3	174.1	175.9	14.7	10.9	9.1	8.6	6.3	5.2
Reno .....	86.9	93.3	93.9	5.8	4.4	3.4	6.7	4.7	3.6
<b>NEW HAMPSHIRE</b>									
.....	385.0	400.3	406.0	24.7	20.1	17.5	6.4	5.0	4.3
Manchester .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>NEW JERSEY<sup>2</sup></b>									
.....	3,310.4	3,326.1	3,267.1	342.0	276.8	230.4	10.3	8.3	7.1
Atlantic City .....	78.4	77.0	75.0	11.8	11.1	8.8	15.1	14.4	11.7
Jersey City .....	259.7	253.2	247.6	37.8	28.4	24.4	14.5	11.2	9.8
Long Branch—Asbury Park .....	211.2	212.5	209.5	22.0	17.9	14.9	10.4	8.4	7.1
Newark .....	921.3	936.7	920.5	89.3	72.9	59.7	9.7	7.8	6.5
New Brunswick—Perth Amboy—Sayreville .....	295.2	305.4	299.8	28.1	21.6	17.2	9.5	7.1	5.7
Paterson—Clifton—Passaic .....	211.0	208.3	204.9	25.7	20.5	17.6	12.2	9.8	8.6
Trenton .....	154.8	156.1	152.8	10.9	9.2	7.6	7.1	5.9	5.0
Vineland—Millville—Bridgeton .....	57.5	59.1	58.0	7.3	6.1	5.3	12.9	10.3	9.1
<b>NEW MEXICO</b>									
.....	486.7	501.5	510.4	43.7	32.3	28.8	9.0	6.4	5.7
Albuquerque .....	181.3	186.9	189.8	17.5	11.3	10.5	9.5	6.0	5.5
<b>NEW YORK<sup>2</sup></b>									
.....	7,730.5	7,743.4	7,773.2	778.8	688.1	641.2	10.1	8.9	8.3
Albany—Schenectady—Troy .....	352.7	356.4	358.0	31.8	24.6	22.8	9.0	6.9	6.4
Binghamton <sup>1</sup> .....	130.1	130.4	131.3	10.8	9.4	9.2	8.3	7.2	7.0
Buffalo .....	563.9	554.8	556.7	61.9	49.7	48.2	11.0	9.0	8.7
Elmira .....	40.1	39.9	39.9	5.0	3.7	3.3	12.4	9.4	8.3
Nassau—Suffolk .....	1,186.4	1,207.4	1,220.4	119.2	94.9	89.1	10.0	7.9	7.3
New York .....	3,654.9	3,644.8	3,648.6	354.7	345.2	316.9	9.7	9.5	8.7
New York City <sup>2</sup> .....	3,109.0	3,080.0	3,080.0	313.0	301.0	275.0	10.1	9.8	8.9
Poughkeepsie .....	95.1	97.8	98.9	6.6	5.7	5.6	6.9	5.9	5.7
Rochester .....	444.7	445.9	445.4	37.2	32.7	29.4	8.4	7.3	6.6
Syracuse .....	279.9	288.9	288.3	27.2	22.2	21.0	9.7	7.7	7.3
Utica—Rome .....	134.9	132.9	133.6	16.2	11.5	11.1	12.0	8.6	8.3
<b>NORTH CAROLINA</b>									
.....	2,575.4	2,622.2	2,632.7	173.7	143.3	118.7	6.7	5.5	4.5
Asheville .....	78.5	80.4	81.6	5.8	4.5	3.7	7.4	5.5	4.5
Charlotte—Gastonia .....	314.9	323.5	324.6	16.2	11.3	9.4	5.1	3.5	2.9
Greensboro—Winston-Salem—High Point .....	399.8	405.2	406.6	23.4	19.2	14.8	5.9	4.7	3.6
Raleigh—Durham .....	254.7	265.0	265.8	10.6	9.3	7.8	4.2	3.5	2.9
<b>NORTH DAKOTA</b>									
.....	276.4	278.7	289.7	17.3	16.4	16.0	6.3	5.9	5.5
Fargo—Moorehead .....	65.6	68.5	69.2	3.1	2.8	3.0	4.7	4.1	4.3

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. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P
OHIO <sup>2</sup>	4,731.1	4,732.7	4,743.8	389.2	296.1	291.3	8.2	6.3	6.1
Akron	290.1	287.8	287.7	25.3	18.0	17.6	8.7	6.3	6.1
Canton	173.1	170.1	170.8	16.7	11.3	11.2	9.7	6.7	6.6
Cincinnati <sup>1</sup>	602.5	N.A.	N.A.	40.1	N.A.	N.A.	6.7	N.A.	N.A.
Cleveland	893.1	887.2	890.1	67.0	45.0	46.6	7.5	5.1	5.2
Columbus	498.7	500.2	501.3	36.9	26.0	26.1	7.4	5.2	5.2
Dayton	362.3	364.6	365.6	25.0	18.3	19.2	6.9	5.0	5.2
Toledo <sup>1</sup>	351.8	352.3	353.1	33.9	23.7	23.6	9.6	6.7	6.7
Youngstown—Warren	230.3	230.3	230.1	22.4	20.6	20.7	9.7	8.9	9.0
OKLAHOMA	1,197.8	1,239.3	1,248.7	63.1	58.6	51.3	5.3	4.7	4.1
Oklahoma City	352.9	376.1	380.9	17.8	14.9	13.2	5.0	4.0	3.5
Tulsa	285.1	296.7	296.3	14.8	14.3	11.8	5.2	4.8	4.0
OREGON	1,096.4	1,135.4	1,150.5	97.3	69.2	63.9	8.9	6.1	5.6
Eugene—Springfield	115.4	118.0	119.2	10.7	7.6	6.9	9.2	6.4	5.8
Portland <sup>1</sup>	532.0	554.0	562.9	42.2	28.2	25.6	7.9	5.1	4.6
Salem	100.7	105.0	106.7	8.3	6.0	5.8	8.3	5.7	5.5
PENNSYLVANIA <sup>2</sup>	5,137.6	5,138.2	5,232.3	453.5	392.5	414.2	8.8	7.6	7.9
Allentown—Bethlehem—Easton <sup>1</sup>	300.0	297.3	299.0	24.2	20.0	19.9	8.1	6.7	6.7
Altoona	55.1	56.5	57.9	4.6	4.5	4.9	8.3	8.0	8.5
Erie	119.2	119.6	122.4	11.1	8.0	8.8	9.3	6.6	7.2
Harrisburg	206.4	206.2	209.9	12.9	11.4	11.8	6.2	5.6	5.6
Johnstown	105.6	105.6	108.1	9.0	13.2	14.4	8.5	12.5	13.3
Lancaster	161.6	163.0	166.9	9.5	8.2	8.5	5.9	5.1	5.1
Northeast Pennsylvania	272.1	266.0	272.7	31.0	24.5	26.2	11.4	9.2	9.6
Philadelphia <sup>1</sup>	2,064.3	2,038.2	2,065.8	196.7	152.1	157.0	9.5	7.5	7.6
Pittsburgh	960.8	966.7	981.3	75.6	69.4	74.6	7.9	7.2	7.6
Reading	144.9	146.9	148.8	10.5	8.8	9.0	7.3	6.0	6.0
Williamsport	50.5	50.6	50.7	5.6	4.9	4.2	11.1	9.6	8.2
York	154.7	157.4	160.2	11.6	9.4	9.4	7.5	6.0	5.8
RHODE ISLAND	434.1	431.2	439.0	41.7	40.9	37.6	9.5	9.5	8.6
Providence—Warwick—Pawtucket <sup>1</sup>	438.9	437.2	446.4	41.6	40.1	36.9	9.5	9.2	8.3
SOUTH CAROLINA	1,247.2	1,253.7	1,271.7	91.3	81.3	76.6	7.3	6.5	6.0
Charleston—North Charleston	141.4	144.6	145.9	10.3	9.8	9.2	7.3	6.8	6.3
Columbia	161.0	166.8	168.9	9.1	8.1	7.1	5.6	4.8	4.2
Greenville—Spartanburg	248.3	246.6	250.2	15.3	13.9	13.0	6.2	5.6	5.2
SOUTH DAKOTA	302.0	308.3	318.5	12.3	11.0	10.5	4.1	3.6	3.3
Sioux Falls	52.7	56.3	57.7	1.6	1.5	1.6	3.1	2.6	2.7
TENNESSEE	1,874.1	1,880.6	1,887.9	128.1	116.0	113.3	6.8	6.2	6.0
Chattanooga <sup>1</sup>	181.0	182.7	182.2	10.3	10.5	9.5	5.7	5.8	5.2
Knoxville	194.8	194.2	194.4	10.9	9.5	9.4	5.5	4.9	4.8
Memphis <sup>1</sup>	369.0	366.7	367.2	24.4	19.9	20.1	6.5	5.4	5.5
Nashville—Davidson	377.6	379.2	380.3	17.7	16.6	15.7	4.7	4.4	4.1
TEXAS <sup>2</sup>	5,692.3	5,842.8	5,950.0	299.7	317.7	280.1	5.3	5.4	4.7
Amarillo	82.2	84.2	86.1	3.0	3.5	3.4	3.6	4.1	4.0
Austin	220.7	230.9	235.6	8.5	8.1	7.3	3.9	3.5	3.1
Beaumont—Port Arthur—Orange	164.8	166.0	167.4	11.9	12.6	10.5	7.3	7.6	6.3
Corpus Christi	125.7	127.5	129.1	9.1	8.2	7.3	7.2	6.4	5.7
Dallas—Fort Worth	1,299.4	1,334.2	1,362.8	60.2	62.9	55.3	4.6	4.7	4.1
El Paso	162.4	159.1	160.9	19.4	15.6	14.6	12.0	9.8	9.1
Galveston—Texas City	83.6	87.0	88.0	6.5	6.1	5.4	7.8	7.0	6.1
Houston	1,238.8	1,308.6	1,331.1	52.4	58.2	49.5	4.2	4.4	3.7
Lubbock	94.4	98.8	100.4	3.6	4.3	3.6	3.9	4.3	3.6
San Antonio	383.7	395.3	401.6	24.1	26.6	24.4	6.3	6.7	6.1
Waco	73.4	76.5	78.2	3.2	4.2	4.0	4.3	5.5	5.1
Wichita Falls	56.7	59.5	60.4	2.4	2.5	2.2	4.2	4.3	3.6
UTAH	517.5	523.1	529.6	31.8	28.6	26.8	6.2	5.5	5.1
Salt Lake City—Ogden	345.7	349.5	353.3	20.5	18.2	16.9	5.9	5.2	4.8
VERMONT	222.4	232.8	232.6	18.2	16.8	15.6	8.2	7.2	6.7

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. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P	MAR. 1977R	FEB. 1978R	MAR. 1978P
<b>VIRGINIA</b> .....	2,363.6	2,404.7	2,418.8	151.2	165.4	149.4	6.4	6.9	6.2
Lynchburg .....	69.3	71.0	70.9	3.6	4.7	3.9	5.2	6.6	5.5
Newport News—Hampton .....	153.1	153.1	155.4	11.5	11.4	10.4	7.5	7.4	6.7
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	303.5	308.5	312.3	20.1	24.2	21.2	6.6	7.8	6.8
Richmond .....	306.4	316.7	318.5	14.8	13.9	12.8	4.8	4.4	4.0
Roanoke .....	109.0	110.8	110.7	7.3	10.4	8.7	6.7	9.4	7.8
<b>WASHINGTON</b> .....	1,603.5	1,629.0	1,669.2	160.9	109.7	108.8	10.0	6.7	6.5
Seattle—Everett .....	683.9	708.7	722.2	64.4	39.5	39.3	9.4	5.6	5.4
Spokane .....	130.9	131.6	134.2	12.1	8.0	7.9	9.2	6.1	5.9
Tacoma .....	155.1	154.5	157.9	16.7	10.9	10.9	10.7	7.1	6.9
<b>WEST VIRGINIA</b> .....	680.0	N.A.	N.A.	54.3	N.A.	N.A.	8.0	N.A.	N.A.
Charleston .....	111.4	N.A.	N.A.	5.9	N.A.	N.A.	5.3	N.A.	N.A.
Huntington—Ashland <sup>1</sup> .....	113.2	N.A.	N.A.	7.9	N.A.	N.A.	7.0	N.A.	N.A.
Parkersburg—Marietta <sup>1</sup> .....	63.2	N.A.	N.A.	4.8	N.A.	N.A.	7.6	N.A.	N.A.
Wheeling <sup>1</sup> .....	75.6	N.A.	N.A.	5.5	N.A.	N.A.	7.9	N.A.	N.A.
<b>WISCONSIN</b> .....	2,170.8	2,191.1	2,211.3	137.1	120.4	110.9	6.3	5.5	5.0
Appleton—Oshkosh .....	135.6	N.A.	N.A.	7.8	N.A.	N.A.	5.8	N.A.	N.A.
Green Bay .....	83.5	N.A.	N.A.	5.4	N.A.	N.A.	6.5	N.A.	N.A.
Kenosha .....	56.1	N.A.	N.A.	8.5	N.A.	N.A.	15.2	N.A.	N.A.
La Crosse .....	42.3	N.A.	N.A.	2.7	N.A.	N.A.	6.3	N.A.	N.A.
Madison .....	168.8	N.A.	N.A.	7.2	N.A.	N.A.	4.3	N.A.	N.A.
Milwaukee .....	700.0	N.A.	N.A.	36.9	N.A.	N.A.	5.3	N.A.	N.A.
Racine .....	88.0	N.A.	N.A.	6.7	N.A.	N.A.	7.6	N.A.	N.A.
<b>WYOMING</b> .....	178.0	186.3	191.9	7.3	7.3	6.8	4.1	3.9	3.5

<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.)

p=preliminary.

r=revised.

N.A.=not available.

NOTE: Estimates have been benchmarked to 1977 Current Population Survey annual averages. Data refer to place of residence.

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," or "Unemployment Rates for States and Local Governments, Fourth Quarter 1977." 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.

# **Annual Averages**

## **States and Areas**

# 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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
1 ALABAMA	1,155.4	1,207.0	1,259.8	12.5	13.3	13.8	68.3	68.7	75.9	321.9	340.2	352.5
2 Birmingham	310.2	320.6	330.6	7.9	8.2	8.4	18.9	19.4	21.8	67.4	66.0	66.0
3 Huntsville	99.7	105.1	109.3	(1)	(1)	(1)	4.6	3.8	4.0	25.7	29.0	31.5
4 Mobile	126.3	133.2	138.6	(1)	(1)	(1)	10.4	10.9	11.0	26.1	27.2	28.9
5 Montgomery	86.5	89.8	94.3	(1)	(1)	(1)	5.7	6.0	6.3	13.2	13.7	14.7
6 Tuscaloosa	46.2	47.2	48.8	.6	.7	.8	2.8	3.0	3.4	11.1	10.3	10.2
7 ALASKA	161.8	171.7	162.5	3.8	4.0	4.5	25.9	30.2	20.1	9.6	10.3	10.3
8 ARIZONA	729.1	758.7	796.7	24.6	24.0	21.8	43.8	41.5	48.9	99.8	105.6	112.0
9 Phoenix	429.8	450.9	483.2	.4	.4	.6	24.3	23.8	29.6	72.9	77.1	83.3
10 Tucson	144.1	147.3	151.0	8.0	7.6	7.0	9.4	9.0	9.3	12.1	12.5	13.0
11 ARKANSAS	623.8	660.0	692.7	4.4	4.6	4.5	33.5	34.5	37.1	179.2	195.1	209.1
12 Fayetteville-Springdale	49.1	52.6	55.4	(1)	(1)	(1)	2.2	2.5	2.8	14.9	16.2	17.4
13 Fort Smith	55.4	59.6	62.4	.4	.5	.6	2.7	2.7	2.8	18.9	21.5	23.2
14 Little Rock-North Little Rock	152.1	158.1	164.0	(1)	(1)	(1)	8.7	8.6	9.0	27.4	28.5	30.4
15 Pine Bluff	26.0	26.8	28.2	(1)	(1)	(1)	1.2	1.1	1.0	5.7	5.7	6.2
16 CALIFORNIA	7,848.2	8,152.7	8,522.1	33.9	34.7	35.0	303.3	317.6	360.7	1,586.9	1,650.9	1,709.9
17 Anaheim-Santa Ana-Garden Grove	562.9	610.3	669.8	2.1	2.0	2.1	23.8	29.9	40.3	151.0	161.3	172.4
18 Bakersfield	103.4	108.2	112.2	8.3	8.6	9.2	4.0	4.5	5.2	8.1	8.7	8.9
19 Fresno	149.4	155.8	163.1	.8	.8	.7	7.0	7.7	8.6	20.1	20.7	21.8
20 Los Angeles-Long Beach	3,024.5	3,107.2	3,212.5	11.2	11.2	11.3	95.8	95.7	99.1	766.8	789.9	812.8
21 Modesto	70.0	73.6	78.9	.1	.1	.1	3.7	4.2	5.1	17.8	18.1	18.8
22 Oxnard-Simi Valley-Ventura	114.5	118.8	125.4	2.0	2.1	2.2	4.1	4.8	5.7	17.4	18.7	19.7
23 Riverside-San Bernardino-Ontario	333.0	347.4	368.2	2.3	2.2	2.3	12.8	14.5	17.7	51.1	54.3	57.1
24 Sacramento	318.3	332.2	350.6	.3	.3	.4	13.5	14.5	17.3	22.0	23.1	24.5
25 Salinas-Seaside-Monterey	74.5	76.3	80.6	.7	.6	.7	2.7	2.8	3.2	9.2	8.6	9.4
26 San Diego	477.6	500.1	536.9	.8	.8	.8	22.8	26.5	32.4	71.9	72.6	77.0
27 San Francisco-Oakland	1,331.1	1,360.5	1,395.7	2.1	2.2	1.9	62.4	58.6	60.8	182.6	186.7	190.3
28 San Jose	468.6	499.8	530.5	.1	.1	.1	17.0	17.9	21.6	153.8	164.7	172.3
29 Santa Barbara-Santa Maria-Lompoc	96.6	101.3	105.1	.9	1.0	1.0	3.1	3.5	4.0	12.9	13.8	14.0
30 Santa Rosa	65.0	70.2	74.6	.4	.4	.3	3.4	3.6	4.3	8.8	10.1	10.7
31 Stockton	101.0	103.8	107.5	.1	.1	.1	3.8	3.9	4.6	19.4	19.3	19.7
32 Vallejo-Fairfield-Napa	82.2	85.5	89.5	.2	.2	.2	3.5	3.7	3.9	8.4	8.7	9.0
33 COLORADO <sup>1</sup>	946.6	974.7	992.4	19.7	21.2	23.2	50.7	49.6	51.7	135.9	141.1	144.4
34 Denver-Boulder <sup>2</sup>	598.1	612.5	625.8	9.1	9.9	11.4	29.9	28.4	30.7	93.1	95.3	98.2
35 CONNECTICUT	1,223.4	1,239.7	1,282.7	(3)	(3)	(3)	44.9	40.5	42.4	389.8	397.0	404.9
36 Bridgeport	147.5	146.5	153.2	(3)	(3)	(3)	4.4	4.0	4.1	59.0	58.2	61.0
37 Hartford	338.9	340.7	348.5	(3)	(3)	(3)	11.5	10.4	10.2	85.8	84.0	83.5
38 New Britain	54.1	53.8	55.9	(3)	(3)	(3)	2.0	1.8	1.7	26.5	25.3	27.2
39 New Haven-West Haven	171.4	171.6	175.5	(3)	(3)	(3)	6.1	5.3	5.7	43.7	43.0	43.9
40 Stamford	88.3	90.6	97.5	(3)	(3)	(3)	2.9	3.1	4.2	27.7	27.9	29.1
41 Waterbury	80.3	80.3	84.0	(3)	(3)	(3)	2.7	2.3	2.6	33.1	32.3	33.5
42 DELAWARE	229.9	236.4	236.1	(1)	(1)	(1)	14.5	14.5	14.2	65.7	68.2	67.7
43 Wilmington	201.6	207.4	209.1	(1)	(1)	(1)	12.2	12.0	13.1	62.5	65.0	64.0
44 DISTRICT OF COLUMBIA	576.5	575.8	577.3	(1)	(1)	(1)	19.6	16.3	14.4	15.5	15.3	14.9
45 Washington SMSA	1,336.8	1,361.6	1,385.8	(1)	(1)	(1)	73.1	71.4	71.1	48.7	49.0	49.4
46 FLORIDA	2,746.4	2,784.3	2,873.2	9.4	8.8	8.8	182.5	166.7	172.4	339.4	354.0	374.6
47 Fort Lauderdale-Hollywood	239.7	245.5	257.3	(1)	(1)	(1)	19.3	16.9	19.0	25.3	26.9	30.0
48 Jacksonville	256.7	259.2	262.0	(1)	(1)	(1)	15.9	14.6	14.7	29.1	29.6	31.6
49 Miami	579.7	595.5	611.2	(1)	(1)	(1)	26.3	24.4	26.3	81.6	84.0	86.9
50 Orlando	207.3	213.8	222.8	(1)	(1)	(1)	12.6	11.7	12.3	24.5	25.7	27.1
51 Pensacola	85.3	86.9	88.6	(1)	(1)	(1)	6.6	5.9	6.2	13.7	13.5	13.4
52 Tampa-St. Petersburg	418.4	425.7	438.0	(1)	(1)	(1)	29.9	26.8	26.9	57.0	58.1	60.7
53 West Palm Beach-Boca Raton	140.2	145.3	153.5	(1)	(1)	(1)	11.0	9.9	11.0	18.1	18.3	20.6
54 GEORGIA	1,755.7	1,835.9	1,889.7	6.9	7.0	7.1	87.5	83.6	87.6	439.3	476.3	488.8
55 Albany	-	36.4	37.7	-	(1)	(1)	-	2.1	2.6	-	9.6	9.5
56 Atlanta	741.3	769.8	790.1	(1)	(1)	(1)	36.0	32.1	33.0	116.7	124.5	128.5
57 Augusta	101.6	106.7	112.1	(1)	(1)	(1)	5.8	6.4	6.9	31.2	33.9	35.5
58 Columbus	72.8	75.6	78.4	(1)	(1)	(1)	4.4	4.4	4.9	19.1	19.8	20.2
59 Macon	91.6	93.7	94.2	(1)	(1)	(1)	5.2	4.9	4.5	14.8	16.3	16.3
60 Savannah	72.5	76.1	79.0	(1)	(1)	(1)	4.9	5.0	5.2	14.3	15.7	16.4

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			
1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	
59.9	61.9	64.9	229.3	245.3	258.2	50.4	53.2	56.0	165.6	171.5	177.1	247.5	252.9	261.4	1
22.4	23.8	24.6	73.0	77.9	80.8	19.8	20.9	22.3	52.9	55.9	57.6	47.9	48.5	49.1	2
2.1	2.3	2.5	18.3	19.9	20.8	2.7	2.8	3.0	14.3	15.2	16.1	32.0	32.1	31.4	3
9.9	10.0	10.5	30.1	32.0	34.1	5.8	6.0	6.4	23.9	25.8	25.7	20.1	21.3	22.0	4
4.2	4.1	4.4	20.2	20.9	22.8	5.1	5.3	5.4	15.3	16.3	17.0	22.8	23.5	23.7	5
1.8	1.8	1.8	8.0	8.6	9.3	1.4	1.5	1.6	4.7	5.1	5.4	15.8	16.2	16.3	6
16.5	15.8	15.2	26.2	27.6	27.8	6.0	7.1	7.7	26.1	28.6	27.0	47.7	48.2	49.9	7
38.8	39.5	41.1	175.8	183.8	193.6	42.2	42.6	45.0	134.4	144.4	152.1	169.7	177.3	182.2	8
23.1	23.7	24.9	112.6	118.5	127.0	32.3	32.8	34.4	81.7	87.4	93.2	82.5	87.1	90.2	9
7.7	7.7	7.8	32.1	33.4	34.4	6.2	6.0	6.7	28.0	29.4	30.3	40.6	41.7	42.5	10
36.8	37.5	38.1	133.1	141.7	149.3	27.0	27.9	29.2	88.9	93.4	97.3	120.9	125.3	128.1	11
3.0	3.0	2.9	11.0	12.4	13.2	1.8	1.8	1.9	6.8	6.9	7.0	9.4	9.8	10.2	12
3.0	3.1	2.9	11.7	12.7	13.1	2.0	2.1	2.2	9.7	9.9	10.4	7.0	7.1	7.2	13
11.0	11.1	11.2	35.2	37.1	38.4	10.9	11.4	11.8	26.7	28.3	29.4	32.2	33.1	33.8	14
3.3	3.4	3.5	5.3	5.6	5.8	1.1	1.2	1.2	3.9	4.1	4.5	5.5	5.7	6.0	15
458.1	463.9	474.4	1,786.3	1,875.6	1,969.8	446.4	468.7	499.3	1,564.5	1,649.0	1,738.3	1,668.8	1,692.3	1,734.7	16
17.7	18.9	20.4	135.0	147.7	162.1	29.9	33.6	38.9	110.6	120.1	132.5	92.8	96.8	101.1	17
6.6	6.6	6.8	26.2	27.3	28.6	3.7	3.9	4.1	16.5	17.6	18.1	30.0	31.0	31.3	18
8.6	8.9	9.0	36.3	41.0	43.3	7.4	7.9	8.7	27.8	28.9	30.5	39.4	39.9	40.5	19
170.7	173.5	177.2	690.7	713.6	741.7	184.3	188.4	196.2	626.9	654.9	688.9	478.1	480.0	485.3	20
3.2	3.3	3.4	15.9	17.1	19.1	1.9	2.1	2.3	13.2	13.7	14.3	14.2	15.0	15.6	21
4.3	4.6	5.2	26.9	27.6	29.1	4.0	4.5	5.0	19.8	20.5	21.8	36.0	36.0	36.7	22
19.0	19.0	20.1	77.9	82.7	88.8	12.6	13.5	14.5	68.1	71.2	74.8	89.2	90.0	92.9	23
16.7	17.4	18.3	70.3	74.7	78.7	13.8	15.0	16.7	53.4	57.1	60.0	128.3	130.1	134.7	24
4.4	4.5	4.7	18.5	19.6	20.5	3.1	3.3	3.6	14.7	15.2	15.9	21.2	21.7	22.6	25
22.5	22.8	24.2	108.1	115.5	123.7	24.6	26.7	29.9	99.6	104.9	113.8	127.3	130.3	135.1	26
121.3	119.8	119.8	294.7	307.3	319.6	111.2	116.2	121.5	269.1	282.2	291.1	287.7	287.5	290.7	27
17.9	18.1	18.4	91.3	97.4	102.7	18.7	20.0	21.4	97.3	106.1	114.6	72.5	75.5	80.0	28
3.4	3.3	3.7	22.6	24.4	25.4	4.4	4.4	4.5	24.2	25.1	26.6	25.1	25.8	25.9	29
3.4	3.5	3.8	15.6	16.8	17.6	3.6	3.8	4.1	12.4	13.7	14.4	17.4	18.3	19.4	30
7.2	7.3	7.4	22.7	23.6	24.3	3.9	4.2	4.5	17.8	19.0	19.8	26.1	26.4	27.1	31
3.9	4.0	3.8	15.3	16.0	17.1	2.5	2.6	2.9	14.1	14.6	15.7	34.4	35.7	36.4	32
59.8	60.3	62.6	230.4	236.2	240.9	56.3	59.0	61.0	183.6	193.0	194.7	210.2	214.2	213.4	33
41.3	40.8	42.8	148.8	152.8	154.8	41.1	42.9	44.0	119.8	125.8	126.3	115.2	116.5	117.6	34
53.1	52.9	55.4	251.0	256.2	268.7	86.0	87.7	90.5	219.9	230.4	242.7	178.7	175.1	178.5	35
5.8	5.5	5.5	29.9	29.5	31.4	5.9	6.0	6.4	25.2	25.9	28.1	17.3	17.4	16.7	36
12.3	12.5	14.1	70.9	72.3	73.2	50.0	50.1	52.1	57.4	60.6	64.7	51.1	50.8	50.3	37
1.4	1.3	1.3	8.9	9.1	9.4	1.5	1.5	1.5	7.4	8.1	8.8	6.4	6.4	6.3	38
14.1	13.8	14.4	35.1	36.3	36.9	9.3	9.6	9.6	39.9	40.3	41.9	23.1	23.3	23.3	39
3.1	3.1	3.1	19.3	20.5	22.4	6.0	6.0	6.6	19.9	20.1	22.0	9.5	9.9	9.4	40
3.0	3.0	3.0	14.0	14.6	15.3	2.6	2.7	2.9	14.4	14.6	15.3	10.5	10.8	11.1	41
11.8	11.9	12.2	50.3	52.3	51.6	10.9	11.0	11.0	36.4	38.3	38.9	40.3	40.2	40.4	42
10.3	10.7	11.2	41.5	42.2	42.4	10.0	10.0	9.9	31.7	33.6	34.4	33.3	33.9	34.4	43
28.7	24.7	25.3	64.9	63.9	64.2	33.2	33.2	33.5	145.0	146.5	150.3	269.7	275.9	274.4	44
64.1	61.1	63.0	253.7	260.4	266.9	76.4	77.7	80.8	308.9	319.7	330.9	512.0	522.4	523.3	45
182.9	181.4	184.1	713.6	730.8	751.9	188.3	191.3	199.1	584.3	608.5	627.0	546.0	542.8	555.4	46
14.2	13.4	13.3	69.7	71.5	74.5	18.4	19.9	21.4	55.9	59.3	60.4	36.9	37.5	38.4	47
21.4	21.3	21.4	67.6	68.3	68.3	26.8	27.4	27.5	46.3	47.7	48.1	49.6	49.8	49.8	48
58.4	58.0	59.2	150.9	154.6	160.3	43.0	43.4	44.7	137.6	144.1	145.2	81.9	87.0	88.4	49
11.8	11.5	11.0	57.3	59.8	61.5	14.4	14.3	15.3	51.5	54.7	57.8	35.2	36.1	37.0	50
4.1	4.2	4.3	19.1	20.0	20.3	3.6	3.7	3.7	14.4	15.6	16.1	23.8	24.0	24.5	51
26.8	26.1	26.0	119.3	122.2	125.1	29.7	30.4	31.9	88.5	92.1	95.8	67.2	70.0	71.5	52
6.8	6.8	6.9	37.3	38.4	40.3	10.7	11.1	11.9	32.7	35.5	37.2	23.6	25.3	25.3	53
113.4	116.5	118.8	396.3	419.0	433.8	97.3	98.1	99.5	260.0	272.5	281.3	354.8	362.9	372.4	54
-	1.7	1.8	-	8.3	8.5	-	1.7	1.8	-	4.7	4.9	-	8.3	8.5	55
67.8	68.7	70.7	207.4	216.7	223.0	57.0	56.7	56.7	130.8	143.1	146.2	125.6	127.9	131.1	56
3.9	4.0	3.8	17.8	18.5	19.6	3.6	3.8	4.1	13.1	13.1	14.2	26.2	27.0	26.5	57
2.9	3.0	3.1	14.8	15.8	16.5	4.4	4.5	4.7	9.5	10.0	10.8	17.7	18.1	18.5	58
3.7	4.1	4.4	17.7	18.6	18.7	5.5	5.5	5.5	14.2	14.4	14.9	30.5	29.8	29.5	59
7.9	8.0	7.5	16.3	17.5	18.1	3.6	3.6	3.7	12.2	12.5	13.1	13.1	13.8	14.4	60

**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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
1 HAWAII .....	342.8	349.2	357.0	(1)	(1)	(1)	26.3	21.4	19.6	23.7	23.4	23.3
2 Honolulu .....	287.4	291.2	296.8	(1)	(1)	(1)	22.5	17.8	16.2	17.2	17.1	17.4
3 IDAHO .....	273.0	291.0	305.7	3.7	3.3	3.5	16.1	17.1	19.2	47.8	52.0	53.8
4 Boise City .....	61.0	65.7	69.9	(1)	(1)	(1)	5.0	5.1	5.6	6.0	6.5	7.1
5 ILLINOIS .....	4,418.9	4,509.0	4,607.9	25.9	25.9	26.4	172.3	174.4	173.2	1,199.8	1,208.4	1,238.4
6 Bloomington—Normal .....	45.6	46.8	48.7	(3)	(3)	(3)	1.4	1.4	1.3	6.9	7.5	7.7
7 Champaign—Urbana—Rantoul .....	66.0	66.0	66.1	(3)	(3)	(3)	2.5	2.7	2.7	6.3	6.4	6.4
8 Chicago—Gary .....	(*)	3,239.3	(*)	(*)	4.4	(*)	(*)	119.2	(*)	(*)	902.4	(*)
9 Chicago SMSA <sup>4</sup> .....	2,978.1	3,032.0	3,115.3	4.5	4.5	4.5	104.6	105.9	111.9	807.0	814.0	840.6
10 Davenport—Rock Island—Moline .....	149.5	152.6	156.0	(3)	(3)	(3)	6.5	6.9	6.7	47.8	45.6	47.9
11 Decatur .....	52.3	54.0	55.2	(3)	(3)	(3)	2.7	3.3	3.7	19.4	18.4	18.2
12 Peoria .....	143.5	145.7	146.9	(3)	(3)	(3)	8.0	8.1	8.5	51.6	50.9	50.6
13 Rockford .....	109.6	111.6	114.9	(3)	(3)	(3)	3.4	3.3	3.4	49.2	49.9	51.2
14 Springfield .....	78.9	82.1	83.7	(3)	(3)	(3)	3.9	4.3	4.5	8.9	8.8	9.0
15 INDIANA .....	1,941.7	2,023.8	2,089.4	7.7	8.2	8.3	79.7	82.0	87.8	647.2	685.1	707.4
16 Anderson .....	48.3	50.3	51.9	(1)	(1)	(1)	1.0	1.1	1.1	24.2	25.2	25.8
17 Evansville .....	107.7	113.6	117.3	2.3	2.4	2.3	5.2	5.7	6.3	34.0	35.7	37.1
18 Fort Wayne .....	149.8	157.5	162.7	(1)	(1)	(1)	6.2	6.2	6.4	52.1	56.6	59.0
19 Gary—Hammond—East Chicago <sup>4</sup> .....	232.3	239.0	247.1	(1)	(1)	(1)	12.3	13.4	14.4	96.3	98.0	99.8
20 Indianapolis .....	454.9	470.0	482.5	(1)	(1)	(1)	17.5	17.9	18.7	117.9	120.7	123.7
21 Lafayette—West Lafayette .....	49.5	51.2	53.4	(1)	(1)	(1)	1.6	1.8	2.2	10.6	10.6	11.5
22 Muncie .....	45.3	46.4	49.0	(1)	(1)	(1)	1.5	1.7	2.0	14.3	14.2	14.8
23 South Bend .....	100.6	103.4	105.3	(1)	(1)	(1)	4.1	4.3	4.2	30.1	31.7	32.8
24 Terre Haute .....	57.2	58.1	59.5	1.0	1.1	1.1	2.0	2.0	2.3	15.4	15.5	15.9
25 IOWA .....	998.7	1,036.9	1,066.4	2.8	2.5	2.3	49.8	53.0	53.9	230.4	234.0	242.3
26 Cedar Rapids .....	74.6	77.0	79.2	(1)	(1)	(1)	3.3	3.6	3.5	26.8	27.2	27.7
27 Des Moines .....	161.0	166.1	169.0	(1)	(1)	(1)	8.0	7.9	7.1	25.4	24.4	25.1
28 Dubuque .....	40.5	40.8	42.8	(1)	(1)	(1)	1.7	1.6	1.6	15.9	15.6	16.6
29 Sioux City .....	49.9	51.6	52.8	(1)	(1)	(1)	3.3	3.3	3.9	11.6	12.1	11.7
30 Waterloo—Cedar Falls .....	58.9	59.1	63.0	(1)	(1)	(1)	2.6	2.6	2.7	20.8	19.2	21.8
31 KANSAS .....	801.2	834.8	864.4	10.3	10.9	11.8	38.8	42.5	44.7	164.2	166.6	171.2
32 Topeka .....	75.9	77.7	81.4	.2	.2	.2	2.6	3.3	3.4	10.6	9.7	11.2
33 Wichita .....	170.1	175.2	178.4	1.6	1.7	1.7	9.1	9.3	9.5	52.5	51.2	51.3
34 KENTUCKY .....	1,064.3	1,111.7	1,157.2	46.6	45.8	48.0	50.3	54.2	60.4	259.7	273.3	283.2
35 Lexington—Fayette .....	120.8	127.6	131.6	(1)	(1)	(1)	6.3	6.7	6.7	26.5	28.8	29.6
36 Louisville .....	350.5	356.8	372.1	(1)	(1)	(1)	15.8	15.8	17.6	105.0	103.7	107.0
37 Owensboro .....	-	26.9	28.4	-	.6	.6	-	1.5	1.7	-	6.9	7.4
38 LOUISIANA .....	1,249.5	1,314.4	1,334.5	59.1	62.5	65.3	96.1	110.7	104.6	186.2	195.4	201.5
39 Alexandria .....	42.9	45.3	46.6	(1)	(1)	(1)	2.6	3.2	3.0	5.4	5.9	6.0
40 Baton Rouge .....	161.2	172.2	174.2	.9	1.0	1.0	19.8	23.9	22.8	22.6	23.4	24.0
41 Lafayette .....	49.3	53.3	56.7	7.3	8.4	9.1	3.6	4.2	4.7	2.7	2.9	3.2
42 Lake Charles .....	48.9	52.0	52.5	1.4	1.5	1.4	4.9	5.3	5.5	10.6	11.2	11.2
43 Monroe .....	42.9	45.2	45.9	.4	.4	.4	3.8	4.8	4.5	6.8	7.3	7.7
44 New Orleans .....	425.4	438.7	446.1	13.5	14.0	14.3	26.8	27.2	26.3	51.3	52.2	51.3
45 Shreveport .....	124.4	129.1	132.9	4.5	4.6	4.7	8.2	8.3	8.4	24.5	25.6	27.8
46 MAINE .....	356.9	375.3	387.8	(1)	(1)	(1)	18.6	22.1	20.5	96.3	102.5	105.9
47 Lewiston—Auburn .....	29.5	31.3	32.7	(1)	(1)	(1)	1.2	1.2	1.3	10.7	11.8	12.2
48 Portland .....	77.5	79.9	82.3	(1)	(1)	(1)	3.7	4.0	3.9	15.6	15.7	15.4
49 MARYLAND .....	1,479.3	1,501.3	1,528.6	1.7	1.5	1.5	90.9	88.9	90.2	230.0	232.5	235.7
50 Baltimore .....	839.9	849.6	865.2	(1)	(1)	(1)	42.5	40.9	42.4	161.0	160.9	161.9
51 MASSACHUSETTS .....	2,272.4	2,309.1	2,363.5	(1)	(1)	(1)	79.8	71.6	68.9	577.8	592.9	608.0
52 Boston .....	1,259.8	1,261.9	1,272.3	(1)	(1)	(1)	46.8	42.0	39.9	251.6	253.6	257.9
53 Brockton .....	48.0	49.6	51.3	-	-	-	1.6	1.5	1.5	11.1	11.5	11.9
54 Fall River .....	49.1	51.0	52.2	(1)	(1)	(1)	1.4	1.4	1.3	19.9	20.7	20.7
55 Lawrence—Haverhill .....	96.1	94.3	96.4	(1)	(1)	(1)	2.6	2.4	2.4	39.1	36.7	37.5
56 Lowell .....	59.4	61.5	63.0	(1)	(1)	(1)	2.1	2.2	2.3	19.9	20.7	21.8
57 New Bedford .....	56.6	59.1	61.1	(1)	(1)	(1)	1.4	1.5	1.5	22.5	23.9	24.8
58 Springfield—Chicopee—Holyoke .....	206.8	210.8	215.8	(1)	(1)	(1)	6.0	5.2	5.1	60.2	62.2	64.1
59 Worcester .....	142.3	145.8	148.9	(1)	(1)	(1)	4.4	3.8	3.5	42.3	43.6	44.9
60 MICHIGAN .....	3,136.1	3,264.3	3,411.6	13.8	12.7	12.2	106.3	105.3	124.1	983.7	1,056.7	1,105.6
61 Ann Arbor .....	111.5	118.6	125.0	(1)	(1)	(1)	2.7	2.6	2.7	31.5	36.4	40.5
62 Battle Creek .....	61.3	63.6	64.7	(1)	(1)	(1)	1.5	1.5	1.5	23.0	23.3	23.3

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			
1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	
26.4	27.1	28.2	83.7	87.9	90.8	24.3	24.7	24.6	76.4	79.9	84.8	82.0	84.8	85.7	1
22.1	22.6	23.3	70.6	74.2	76.2	21.5	21.8	21.8	62.7	65.1	68.9	70.8	72.6	73.0	2
16.3	17.1	17.9	67.8	72.8	76.4	14.4	15.4	16.2	44.6	48.8	51.8	62.3	64.5	66.9	3
3.8	4.0	4.3	16.0	17.8	18.7	4.8	5.0	5.7	9.8	11.2	11.9	15.6	16.1	16.6	4
272.6	269.4	274.4	999.0	1,033.3	1,056.2	254.7	260.0	268.0	780.0	817.1	843.6	714.5	720.5	727.7	5
2.9	2.9	2.9	10.4	10.5	11.2	6.4	6.7	7.0	7.4	7.5	7.7	10.2	10.5	10.9	6
2.4	2.4	2.4	13.9	14.8	14.7	1.9	2.1	2.1	9.0	9.3	9.7	29.9	28.4	28.0	7
(*)	200.7	(*)	(*)	752.1	(*)	(*)	202.4	(*)	(*)	609.3	(*)	(*)	448.8	(*)	8
190.7	186.5	189.5	686.0	706.7	725.2	194.8	198.8	202.3	572.0	595.5	613.5	418.7	420.0	427.9	9
7.6	7.5	7.5	35.8	37.7	38.5	6.1	6.5	6.5	20.3	22.9	23.6	25.5	25.6	25.2	10
3.9	4.5	4.6	9.9	10.9	11.7	2.1	2.2	2.4	9.1	9.5	9.4	5.0	5.1	5.2	11
7.5	7.5	7.7	31.7	33.6	34.3	6.3	6.5	6.8	22.2	24.3	25.5	16.1	14.8	13.6	12
4.4	4.2	4.5	22.2	22.9	23.7	3.4	3.6	3.7	15.5	16.0	16.4	11.6	11.9	11.9	13
5.0	5.0	5.1	15.8	16.9	17.1	6.6	6.4	6.5	13.4	15.6	16.6	25.3	25.1	24.9	14
100.9	102.6	104.9	420.2	437.3	454.0	89.1	91.0	92.5	273.6	285.0	293.1	323.3	332.5	341.5	15
1.4	1.4	1.4	9.0	9.3	9.7	1.5	1.5	1.6	5.9	6.1	6.4	5.3	5.7	5.9	16
5.8	6.0	6.3	25.2	27.0	27.8	3.8	3.9	3.9	19.6	20.7	21.4	11.8	12.2	12.2	17
9.8	10.0	10.2	35.2	37.0	38.0	8.6	8.9	9.1	22.5	23.5	24.6	15.4	15.3	15.4	18
14.3	14.3	14.5	42.7	44.3	47.2	7.5	8.0	8.5	29.5	30.6	31.8	29.7	30.4	30.9	19
27.4	28.6	29.6	108.7	114.3	118.0	32.5	33.1	33.7	69.5	72.4	74.8	81.4	83.0	84.0	20
1.5	1.5	1.5	9.6	10.2	10.4	2.4	2.5	2.6	6.9	7.4	7.7	17.3	17.2	17.5	21
1.9	1.9	2.0	10.1	10.3	11.2	1.5	1.5	1.5	6.3	6.6	6.8	9.7	10.2	10.7	22
4.9	5.1	5.1	23.3	24.1	24.9	5.6	5.2	4.9	21.0	21.2	21.7	11.6	11.8	11.7	23
4.1	4.0	3.9	13.7	14.2	14.4	1.8	1.9	1.9	8.1	8.2	8.6	11.1	11.2	11.4	24
53.3	53.8	54.5	250.8	265.2	271.2	48.3	49.9	51.7	171.5	181.7	187.2	192.0	197.0	203.2	25
3.8	3.7	3.7	15.7	16.6	17.1	3.5	3.6	3.9	12.7	13.3	14.0	8.8	9.0	9.4	26
10.4	10.7	10.8	41.4	43.9	45.3	17.9	18.0	18.5	31.8	34.1	34.4	25.9	27.2	28.0	27
1.7	1.7	1.7	8.3	8.6	9.1	1.2	1.2	1.2	8.1	8.5	8.7	3.7	3.6	3.9	28
3.7	3.6	3.6	12.8	13.4	13.6	2.5	2.6	2.7	9.9	10.3	10.8	6.0	6.3	6.7	29
2.4	2.5	2.5	12.5	13.3	13.5	1.7	1.8	1.8	9.4	9.8	10.2	9.6	10.0	10.5	30
55.8	56.7	58.2	192.7	203.9	209.3	39.4	40.7	42.6	132.3	141.9	150.0	168.7	171.6	176.6	31
7.1	7.1	7.4	16.5	17.2	17.8	5.3	5.6	5.6	13.5	14.2	14.9	20.2	20.7	20.9	32
9.0	9.4	10.0	37.6	40.2	40.5	8.3	8.9	9.0	30.5	32.9	34.2	21.7	21.9	22.2	33
60.2	60.9	64.2	222.9	234.1	247.5	41.4	43.4	46.5	168.2	177.4	184.7	215.0	221.6	222.7	34
5.6	5.6	6.3	26.3	28.5	29.8	5.3	5.7	6.1	21.4	22.2	23.0	29.4	30.1	30.1	35
21.8	22.2	23.3	77.4	79.5	82.1	19.1	19.6	20.6	61.2	64.8	68.4	50.2	51.1	52.9	36
-	1.9	2.0	-	6.5	6.7	-	1.1	1.1	-	4.3	4.7	-	4.1	4.2	37
99.0	102.0	101.3	286.1	305.5	319.3	60.4	62.6	64.6	213.9	222.7	222.9	248.7	253.0	255.0	38
2.3	2.3	2.3	10.3	10.7	10.9	2.5	2.7	2.7	7.8	8.3	8.8	12.0	12.2	12.9	39
7.8	8.5	8.3	32.7	35.2	36.8	9.0	9.4	10.1	22.7	25.0	26.0	45.7	45.8	45.2	40
4.0	3.9	4.2	12.5	14.0	15.1	1.7	1.7	1.8	9.2	9.4	9.7	8.3	8.8	8.9	41
2.8	3.0	2.9	10.6	11.6	12.3	2.0	2.2	2.2	7.7	8.3	8.3	8.9	8.9	8.7	42
2.4	2.3	2.3	11.0	11.5	12.0	2.9	3.0	3.0	6.3	6.6	6.9	9.3	9.3	9.1	43
44.8	44.9	45.0	106.5	113.4	117.4	26.3	26.7	27.1	87.5	91.4	94.5	68.7	68.9	70.2	44
10.1	9.6	9.3	30.8	32.6	33.9	5.8	5.9	6.1	20.7	21.8	21.9	19.8	20.7	20.8	45
17.7	17.9	18.0	75.7	79.2	83.7	14.2	14.6	15.1	59.6	63.8	67.3	74.8	75.2	77.3	46
1.1	1.2	1.1	6.8	7.1	7.6	1.3	1.3	1.3	5.6	5.9	6.3	2.8	2.8	2.9	47
4.8	4.8	5.0	20.2	20.8	21.6	6.1	6.3	6.5	14.7	15.9	17.0	12.4	12.4	12.9	48
78.1	78.0	78.7	353.4	360.6	367.9	79.8	80.2	82.0	279.3	287.0	294.9	366.1	372.6	377.7	49
54.0	53.5	53.6	192.2	194.5	198.5	48.5	49.3	50.5	154.5	158.6	163.6	187.2	191.9	194.7	50
113.7	112.1	111.8	511.8	521.1	536.1	135.1	135.2	136.1	489.1	509.7	530.9	365.1	366.5	371.7	51
69.7	67.9	67.0	292.9	293.0	296.0	92.8	92.9	94.4	312.6	319.6	325.3	193.4	192.9	191.8	52
3.5	3.6	3.8	13.7	13.9	14.2	1.6	1.7	1.8	7.5	7.9	8.5	9.0	9.5	9.6	53
2.0	1.9	1.9	9.9	10.5	11.1	2.2	2.3	2.3	8.1	8.5	9.8	5.6	5.7	6.1	54
3.5	3.5	3.5	19.1	19.3	19.5	3.3	3.5	3.6	13.8	13.7	14.0	14.7	15.2	15.9	55
2.9	3.0	3.0	13.0	13.5	13.7	1.9	1.9	1.9	9.5	9.7	9.9	10.1	10.5	10.4	56
2.6	2.6	2.6	11.2	11.8	11.9	1.7	1.7	1.8	9.6	9.8	10.4	7.6	7.8	8.1	57
8.8	8.8	8.7	44.5	44.4	44.4	10.7	10.6	11.0	35.4	37.2	39.4	41.2	42.4	43.1	58
6.7	7.0	6.6	30.8	31.7	32.3	8.6	8.0	8.1	26.0	27.4	28.5	24.1	24.3	25.0	59
143.5	144.6	146.9	656.4	674.7	698.9	134.0	136.9	139.5	515.3	539.3	570.3	583.1	594.0	614.1	60
2.4	2.1	2.2	15.7	16.5	17.5	3.2	3.3	3.6	15.4	17.1	17.7	40.3	40.6	40.8	61
2.1	2.1	2.1	9.8	10.6	10.7	3.5	3.5	3.5	10.0	10.7	11.1	11.4	11.9	12.5	62

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**1. Employees on nonagricultural payrolls for Stated areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>MICHIGAN—Continued</b>												
1 Bay City	32.4	33.8	34.7	(1)	(1)	(1)	1.0	1.1	1.4	9.3	10.3	10.6
2 Detroit	1,567.6	1,628.4	1,686.1	1.2	1.3	1.2	49.7	49.7	60.3	505.5	544.4	568.7
3 Flint	166.9	180.3	192.0	(1)	(1)	(1)	4.1	4.6	6.1	68.2	77.0	83.7
4 Grand Rapids	215.8	227.1	237.6	(1)	(1)	(1)	9.0	8.7	9.8	70.3	76.6	82.3
5 Jackson	49.4	48.9	50.6	(1)	(1)	(1)	1.6	1.6	1.5	16.1	14.9	15.7
6 Kalamazoo—Portage	96.6	100.1	103.7	(1)	(1)	(1)	4.0	3.9	3.9	31.8	33.6	35.1
7 Lansing—East Lansing	163.5	170.1	177.5	(1)	(1)	(1)	4.9	4.9	4.9	34.2	37.7	40.6
8 Muskegon—Norton Shores—Musk. Hgts.	55.9	57.9	59.2	(1)	(1)	(1)	2.0	2.2	2.5	21.2	21.8	21.9
9 Saginaw	77.0	81.4	86.5	(1)	(1)	(1)	2.3	2.3	2.5	29.0	32.2	35.6
10 MINNESOTA	1,474.2	1,520.8	1,596.3	14.4	14.9	12.0	63.6	65.4	69.5	312.9	321.6	338.4
11 Duluth—Superior	56.9	56.4	58.0	(1)	(1)	(1)	2.0	2.2	2.5	7.7	7.7	7.6
12 Minneapolis—St. Paul	892.7	914.1	964.2	(1)	(1)	(1)	33.8	33.3	37.1	203.6	208.5	220.1
13 MISSISSIPPI	692.3	727.5	761.0	6.5	6.9	7.6	37.5	39.1	40.5	201.8	218.9	230.0
14 Jackson	117.9	122.4	127.5	.9	1.0	1.0	6.6	6.7	7.0	17.1	18.2	18.4
15 MISSOURI	1,740.6	1,797.8	1,844.2	9.0	8.6	8.3	69.5	72.2	76.5	405.3	424.9	436.9
16 Kansas City	550.0	563.5	572.4	.6	.6	.6	25.0	22.9	21.8	108.6	113.0	117.8
17 St. Joseph	34.8	35.9	36.0	(3)	(3)	(3)	1.6	2.0	1.9	9.0	9.3	9.3
18 St. Louis	907.4	918.8	926.8	2.7	2.8	2.6	37.4	36.5	36.2	235.6	241.6	247.5
19 Springfield	70.8	74.8	76.6	.1	.1	.1	2.9	3.2	3.4	17.3	18.4	18.3
20 MONTANA	238.1	251.1	263.8	6.4	6.1	6.1	12.1	13.8	15.8	22.1	23.7	24.2
21 Billings	38.7	40.3	43.1	(1)	(1)	(1)	2.3	2.7	2.8	3.2	3.2	3.6
22 Great Falls	26.6	27.4	29.5	(1)	(1)	(1)	1.6	1.9	2.0	1.8	1.7	1.7
23 NEBRASKA	557.8	572.1	585.5	1.6	1.7	1.6	28.1	30.0	31.9	85.4	87.9	90.6
24 Lincoln	87.8	89.5	93.3	-	-	-	4.5	4.3	4.2	12.8	12.6	13.8
25 Omaha	235.4	242.9	251.4	(3)	(3)	(3)	10.8	11.8	12.3	32.7	33.3	34.8
26 NEVADA	263.1	279.8	307.4	4.4	3.7	4.2	12.6	14.8	19.4	12.2	13.0	15.0
27 Las Vegas	143.5	153.3	167.5	.3	.2	.2	7.0	8.0	10.0	5.0	5.1	5.6
28 Reno	74.0	79.7	89.1	.4	.4	.6	3.8	4.7	6.9	4.9	5.6	6.7
29 NEW HAMPSHIRE	292.8	313.4	336.4	.4	.4	.4	12.9	14.3	17.9	85.1	94.5	101.1
30 Manchester	56.3	60.5	65.3	(3)	(3)	(3)	2.4	2.6	3.0	15.9	17.7	18.7
31 Nashua	42.9	46.0	49.4	(3)	(3)	(3)	1.2	1.5	2.2	19.5	21.1	22.2
32 NEW JERSEY	2,700.2	2,743.4	(*)	2.8	2.7	(*)	99.2	94.6	(*)	747.4	753.3	(*)
33 Atlantic City	64.2	65.6	(*)	-	-	(*)	2.8	3.0	(*)	8.5	8.4	(*)
34 Camden	284.6	292.5	(*)	.1	.1	(*)	12.9	12.6	(*)	64.2	64.6	(*)
35 Hackensack	345.0	354.8	(*)	(1)	(1)	(*)	13.0	12.3	(*)	102.7	105.1	(*)
36 Jersey City	233.4	231.5	(*)	-	-	(*)	3.9	4.3	(*)	76.7	74.0	(*)
37 Long Branch—Asbury Park	136.0	139.5	(*)	(1)	(1)	(*)	5.4	5.7	(*)	20.7	21.5	(*)
38 New Bruns.—Perth Amboy—Sayreville	241.9	243.3	(*)	(1)	(1)	(*)	9.3	8.5	(*)	83.0	81.3	(*)
39 Newark	845.9	857.0	(*)	.9	.9	(*)	30.3	29.0	(*)	234.7	237.7	(*)
40 Paterson—Clifton—Passaic	175.8	178.0	(*)	(1)	(1)	(*)	5.2	5.2	(*)	63.6	64.5	(*)
41 Trenton	145.7	149.5	(*)	(1)	(1)	(*)	2.7	2.8	(*)	35.8	37.0	(*)
42 Vineland—Millville—Bridgeton	50.1	51.8	(*)	(1)	(1)	(*)	1.5	1.4	(*)	18.0	19.0	(*)
43 NEW MEXICO	370.2	390.0	414.8	20.3	21.5	23.4	25.2	26.1	30.5	28.6	30.3	32.1
44 Albuquerque	146.7	155.6	164.7	(1)	(1)	(1)	10.1	10.3	12.1	15.3	16.2	16.4
45 NEW YORK	6,826.8	6,778.8	6,827.4	7.4	7.1	7.1	211.7	189.4	189.9	1,421.9	1,438.9	1,459.2
46 Albany—Schenectady—Troy	309.6	313.0	319.3	(1)	(1)	(1)	11.6	10.7	10.2	60.7	62.3	63.3
47 Binghamton	105.8	107.8	111.1	(1)	(1)	(1)	4.3	3.9	4.1	38.2	38.8	40.2
48 Buffalo	485.0	490.1	497.6	(1)	(1)	(1)	17.0	17.3	17.6	139.9	142.8	145.2
49 Elmira	37.4	37.3	36.5	(1)	(1)	(1)	1.6	1.5	1.5	12.4	12.3	11.4
50 Monroe County	315.4	317.4	320.5	(1)	(1)	(1)	10.6	8.9	9.2	125.7	127.1	128.8
51 Nassau—Suffolk	789.4	801.8	824.0	(1)	(1)	(1)	34.6	31.5	31.6	141.9	145.2	150.9
52 New York—Northeastern New Jersey	6,311.0	6,253.7	(*)	3.3	3.4	(*)	193.9	170.5	(*)	1,316.5	1,329.7	(*)
53 New York and Nassau—Suffolk	4,462.2	4,392.8	4,398.5	2.0	2.0	1.9	132.2	113.3	111.8	755.9	765.2	772.8
54 New York SMSA	3,672.8	3,591.0	3,574.5	1.9	1.9	1.7	97.6	81.8	80.1	614.0	620.1	621.9
55 New York City	3,283.2	3,201.3	3,175.0	1.6	1.6	1.5	80.0	67.0	65.6	536.9	541.1	539.8
56 Poughkeepsie	87.3	85.8	86.8	(1)	(1)	(1)	3.0	2.5	2.6	28.6	28.0	28.3
57 Rochester	384.9	388.2	393.3	(1)	(1)	(1)	12.8	10.9	11.2	143.8	145.8	148.8
58 Rockland County	72.7	72.9	74.6	(1)	(1)	(1)	2.1	2.0	2.1	13.6	14.2	14.9
59 Syracuse	234.7	237.8	245.9	(1)	(1)	(1)	9.9	9.4	10.4	53.5	54.8	57.9
60 Utica—Rome	110.6	110.5	111.1	(1)	(1)	(1)	3.0	2.8	2.8	31.2	30.2	30.0
61 Westchester County	306.4	305.8	313.7	(1)	(1)	(1)	14.7	12.1	11.7	62.4	63.6	66.0

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			
1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	
2.0	1.9	2.0	8.4	8.5	8.5	.9	1.0	1.1	5.8	5.9	6.0	5.0	5.1	5.1	1
80.3	81.0	80.3	320.0	327.9	334.2	77.5	79.3	81.4	282.4	293.6	306.5	250.8	251.1	253.5	2
5.5	5.8	6.0	33.8	35.8	37.1	5.0	5.2	5.5	23.4	23.9	25.8	26.9	28.0	27.8	3
9.3	9.3	9.5	51.3	53.3	55.1	8.4	8.3	8.5	39.1	41.8	42.7	28.3	29.0	29.7	4
4.3	4.3	4.4	9.5	9.7	9.8	1.5	1.5	1.5	8.3	8.4	9.0	8.1	8.5	8.7	5
3.1	3.2	3.4	18.4	18.6	19.8	3.2	3.4	3.4	16.4	17.2	17.5	19.7	20.2	20.6	6
4.0	4.1	4.3	30.2	31.6	32.7	7.8	7.9	8.3	22.9	23.4	24.2	59.5	60.5	62.5	7
2.9	2.9	3.0	9.8	10.6	11.0	1.5	1.6	1.7	8.4	8.6	8.7	10.1	10.2	10.4	8
3.9	4.0	4.0	15.6	16.3	17.3	3.5	3.6	3.8	11.7	11.7	11.7	11.0	11.3	11.6	9
89.1	89.9	92.9	369.8	383.5	404.9	75.4	77.9	82.5	277.5	291.5	311.5	271.4	276.0	284.7	10
6.6	6.2	6.3	15.2	14.9	15.9	2.0	2.0	2.0	11.5	11.6	12.0	11.8	11.7	11.8	11
57.9	57.5	60.1	223.1	229.0	240.5	55.9	58.0	61.3	176.1	184.7	198.0	142.3	143.0	147.2	12
34.3	34.7	35.9	134.3	141.4	149.3	28.0	28.5	29.9	96.5	101.8	107.4	153.5	156.2	160.5	13
7.4	7.5	7.9	27.4	28.6	30.5	9.4	9.4	9.8	22.4	23.5	24.6	26.8	27.6	28.3	14
123.0	125.5	128.3	412.0	428.5	441.8	94.2	95.1	95.9	311.6	326.5	335.7	316.0	316.5	320.8	15
49.5	49.8	50.3	140.7	145.4	147.6	36.6	36.6	37.3	103.6	109.6	111.7	85.4	85.6	85.3	16
2.5	2.6	2.6	8.4	8.5	8.9	1.7	1.7	1.8	6.2	6.3	5.9	5.4	5.5	5.6	17
62.3	63.2	64.8	209.1	210.2	208.4	49.5	49.6	49.9	176.2	181.6	183.1	134.6	133.1	134.3	18
5.4	5.5	5.7	18.7	19.8	20.8	2.8	2.9	2.9	13.5	14.4	15.0	10.1	10.5	10.4	19
19.0	19.5	20.2	59.1	63.6	66.3	10.2	10.8	11.4	44.3	47.8	49.2	64.9	65.7	70.6	20
3.5	3.6	3.7	13.0	13.3	14.2	1.8	1.9	2.0	7.6	8.0	8.3	7.3	7.6	8.5	21
1.9	1.7	1.8	8.4	8.4	9.7	1.7	1.6	1.9	5.3	6.1	6.4	5.9	5.9	6.1	22
38.7	40.6	42.0	144.7	150.9	153.9	34.4	35.7	37.8	100.2	101.0	101.4	124.7	124.3	126.6	23
5.5	6.2	6.6	18.6	19.4	20.2	6.2	6.4	6.7	14.6	14.9	14.9	25.5	25.7	26.7	24
21.2	21.3	21.7	60.4	62.1	64.1	20.3	20.7	21.8	48.4	50.5	52.2	41.6	43.2	44.6	25
17.0	17.6	18.7	51.5	56.5	61.0	10.6	11.4	12.7	109.2	116.0	127.2	45.6	46.8	49.2	26
9.1	9.8	10.4	27.8	30.8	34.1	5.6	6.1	6.7	68.9	72.5	78.5	19.8	20.8	22.0	27
5.6	5.7	5.9	16.4	17.9	18.7	3.9	4.3	4.8	25.8	27.9	31.7	13.2	13.2	13.8	28
12.0	12.1	12.3	64.2	68.1	73.7	14.1	15.0	16.2	56.1	59.0	63.0	47.8	49.9	51.8	29
3.7	3.8	3.9	13.2	14.2	16.0	3.9	4.2	4.7	10.4	11.0	11.5	6.8	7.0	7.5	30
1.8	1.8	1.6	8.6	9.2	9.8	1.4	1.5	1.6	6.0	6.5	7.3	4.4	4.4	4.7	31
174.3	175.9	(*)	599.3	618.3	(*)	135.2	138.2	(*)	472.1	490.1	(*)	470.0	470.4	(*)	32
3.3	3.3	(*)	17.4	17.7	(*)	4.1	4.4	(*)	14.9	15.1	(*)	13.3	13.7	(*)	33
14.9	15.0	(*)	74.5	78.2	(*)	13.3	13.8	(*)	51.1	53.3	(*)	53.6	54.9	(*)	34
18.1	18.2	(*)	100.4	104.1	(*)	13.5	13.9	(*)	59.3	62.4	(*)	38.2	38.7	(*)	35
29.2	29.4	(*)	43.2	42.6	(*)	8.5	8.6	(*)	29.1	29.1	(*)	43.0	43.6	(*)	36
5.7	5.6	(*)	33.6	35.2	(*)	5.4	5.5	(*)	32.5	33.9	(*)	32.7	32.2	(*)	37
16.5	16.5	(*)	52.7	53.5	(*)	6.9	8.4	(*)	30.4	32.2	(*)	43.2	43.0	(*)	38
61.8	64.1	(*)	164.5	166.3	(*)	59.1	59.1	(*)	156.2	161.6	(*)	138.4	138.5	(*)	39
6.9	6.9	(*)	40.4	40.1	(*)	8.4	8.7	(*)	27.3	28.0	(*)	24.1	24.7	(*)	40
5.3	5.2	(*)	21.9	22.9	(*)	6.2	5.8	(*)	35.0	36.4	(*)	38.9	39.5	(*)	41
3.1	3.1	(*)	7.9	8.0	(*)	2.5	2.4	(*)	7.0	7.5	(*)	10.2	10.5	(*)	42
23.0	23.4	24.7	83.6	90.4	95.4	16.3	17.0	18.2	68.3	73.3	79.7	104.8	108.0	110.8	43
8.3	8.6	9.2	36.5	40.3	42.5	8.4	8.6	9.3	33.0	35.3	37.2	35.2	36.4	38.0	44
434.0	428.1	425.4	1,403.8	1,416.1	1,425.7	577.3	575.3	577.4	1,443.4	1,456.4	1,482.9	1,327.2	1,267.5	1,259.8	45
15.0	14.8	15.2	60.3	62.2	63.6	13.6	13.9	14.4	58.3	60.4	61.8	90.1	88.7	90.7	46
4.3	4.2	4.6	19.2	20.1	20.8	3.5	3.5	3.6	14.0	15.0	15.4	22.4	22.4	22.3	47
27.2	26.6	26.6	106.0	108.2	110.6	20.0	20.4	21.2	87.0	88.1	89.8	87.9	86.7	86.5	48
1.4	1.3	1.4	7.8	8.1	8.1	1.0	1.0	1.0	6.4	6.4	6.3	6.7	6.6	6.7	49
9.9	10.1	10.2	58.0	59.3	60.0	13.5	13.8	14.2	58.5	59.7	60.3	39.2	38.5	37.8	50
34.8	34.8	35.2	207.9	213.5	220.3	42.5	44.2	45.4	161.7	166.9	172.0	166.1	165.6	168.5	51
458.8	454.6	(*)	1,334.1	1,334.4	(*)	577.8	577.1	(*)	1,326.9	1,340.7	(*)	1,099.8	1,043.3	(*)	52
326.2	320.0	315.5	933.1	935.2	934.6	481.5	479.0	478.6	1,018.5	1,022.3	1,039.6	813.0	755.7	743.7	53
291.4	285.2	280.4	725.2	721.7	714.3	438.9	434.8	433.2	856.9	855.5	867.8	646.9	590.1	575.1	54
269.5	263.7	258.7	635.4	630.5	621.1	420.1	416.3	414.3	767.3	763.7	773.1	572.4	517.3	500.9	55
2.9	2.9	2.9	14.8	14.4	14.8	2.4	2.5	2.5	14.9	15.1	15.1	20.7	20.3	20.7	56
12.6	12.8	13.0	73.5	75.3	76.3	15.0	15.3	15.7	68.5	70.0	70.8	58.7	58.2	57.6	57
3.7	3.4	3.5	15.6	16.0	15.9	2.3	2.2	2.2	15.5	15.7	16.1	19.8	19.4	19.9	58
13.6	13.5	13.9	52.6	54.1	55.1	14.1	14.4	14.8	44.0	45.3	47.2	46.9	46.3	46.5	59
4.0	3.9	3.9	20.2	20.7	20.8	5.0	5.1	5.3	17.8	18.5	19.1	29.3	29.2	29.2	60
17.7	17.4	17.5	71.5	72.4	74.2	16.2	15.9	16.3	72.0	73.9	76.4	51.9	50.4	51.5	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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
1 NORTH CAROLINA .....	1,969.7	2,067.2	2,128.3	4.2	4.6	4.8	105.9	105.3	103.1	715.5	756.0	779.3
2 Asheville .....	59.3	62.0	64.5	(1)	(1)	(1)	3.0	3.1	3.2	19.1	20.1	21.0
3 Charlotte—Gastonia .....	269.8	279.0	290.8	(1)	(1)	(1)	15.8	14.3	14.1	76.5	80.0	84.0
4 Greensboro—Winston-Salem—High Pt.	328.3	342.9	352.7	(1)	(1)	(1)	14.7	14.9	15.3	131.1	136.7	141.2
5 Raleigh—Durham .....	211.3	218.6	227.0	(1)	(1)	(1)	11.4	10.6	10.8	34.4	35.5	36.4
6 NORTH DAKOTA .....	203.6	214.6	(*)	2.1	2.5	(*)	13.9	15.8	(*)	16.2	16.1	(*)
7 Fargo—Moorhead .....	52.6	55.8	(*)	(3)	(3)	(*)	3.4	3.8	(*)	4.7	5.1	(*)
8 OHIO .....	4,016.2	4,094.5	4,215.5	26.8	28.2	28.4	154.9	154.2	160.5	1,267.5	1,295.3	1,340.5
9 Akron .....	248.4	247.3	258.6	.3	.3	.3	7.5	7.0	7.4	84.5	80.3	85.1
10 Canton .....	145.0	145.9	148.8	.7	.8	.9	5.5	5.6	5.6	55.3	54.8	55.3
11 Cincinnati .....	531.2	541.9	559.7	.4	.4	.4	22.2	22.4	24.0	153.9	155.6	160.5
12 Cleveland .....	850.6	860.0	879.0	1.4	1.5	1.5	30.5	28.8	29.1	260.3	265.1	270.6
13 Columbus .....	445.4	456.1	469.3	.7	.7	.8	18.0	17.4	18.4	93.1	94.2	98.8
14 Dayton .....	321.4	331.5	342.2	.4	.4	.4	11.2	11.6	12.6	100.1	104.0	108.9
15 Toledo .....	275.5	282.6	292.1	.6	.6	.6	11.5	11.4	11.2	80.7	84.8	87.8
16 Youngstown—Warren .....	200.7	203.5	208.3	.3	.3	.3	6.5	6.6	7.3	80.8	80.6	81.1
17 OKLAHOMA .....	899.7	931.1	975.0	43.6	44.4	48.9	45.9	46.1	49.4	150.7	156.1	162.8
18 Oklahoma City .....	308.0	315.2	333.5	9.2	9.9	11.3	15.9	14.8	16.9	39.9	40.9	43.5
19 Tulsa .....	232.3	244.1	254.2	15.8	15.3	15.6	13.6	14.0	13.7	51.9	52.4	53.7
20 OREGON .....	837.4	878.5	929.5	1.7	1.5	1.7	35.3	36.6	41.5	182.1	193.7	204.7
21 Eugene—Springfield .....	83.1	89.2	95.3	(1)	(1)	(1)	3.5	3.8	4.8	18.3	19.8	20.2
22 Jackson County .....										6.5	7.1	7.7
23 Portland .....	441.5	461.2	485.5	(1)	(1)	(1)	18.3	20.1	22.0	90.2	93.9	98.9
24 Salem .....	69.3	73.6	80.3	(1)	(1)	(1)	3.4	3.7	4.5	11.9	12.8	13.6
25 PENNSYLVANIA .....	4,435.2	4,512.4	4,550.1	46.1	48.3	47.2	184.5	180.3	181.1	1,334.8	1,335.2	1,341.6
26 Allentown—Bethlehem—Easton .....	252.2	257.8	261.1	(1)	(1)	(1)	10.5	9.8	9.4	108.2	107.3	107.2
27 Altoona .....	48.9	50.6	51.6	(1)	(1)	(1)	2.0	2.0	2.3	12.7	13.1	13.0
28 Delaware Valley <sup>10</sup> .....	1,491.5	1,510.5	1,518.8	(1)	(1)	(1)	57.1	52.4	52.1	386.0	381.7	381.0
29 Erie .....	110.0	108.5	110.7	(1)	(1)	(1)	3.4	3.3	3.3	44.2	41.9	42.8
30 Harrisburg .....	200.3	202.8	206.0	(1)	(1)	(1)	9.2	9.0	9.0	37.3	39.4	39.5
31 Johnstown .....	85.8	87.8	86.9	8.3	9.2	8.4	2.7	3.0	3.0	23.0	22.1	20.8
32 Lancaster .....	131.1	134.8	139.6	(1)	(1)	(1)	6.7	6.7	7.0	52.6	54.1	56.5
33 Northeast Pennsylvania .....	226.2	230.1	230.4	1.2	1.3	1.4	10.8	11.9	11.8	71.6	71.6	69.9
34 Philadelphia SMSA .....	1,780.5	1,803.9	1,819.0	(1)	(1)	(1)	70.0	64.5	62.9	450.2	446.1	447.3
35 Philadelphia City <sup>11</sup> .....	810.9	805.3	793.9	(1)	(1)	(1)	21.1	17.3	16.2	163.0	158.7	155.3
36 Pittsburgh .....	892.8	901.3	906.0	10.6	11.5	11.0	41.5	42.8	43.5	251.6	248.6	247.1
37 Reading .....	125.9	129.6	132.9	(1)	(1)	(1)	4.4	4.4	4.7	47.9	49.9	51.5
38 Scranton <sup>12</sup> .....	80.8	81.4	82.6	(1)	(1)	(1)	2.3	2.6	2.5	26.2	26.2	26.1
39 Wilkes-Barre—Hazleton <sup>13</sup> .....	120.5	123.0	122.0	1.0	1.2	1.2	7.2	7.8	8.1	40.7	40.9	39.3
40 Williamsport .....	44.4	44.5	45.6	(1)	(1)	(1)	1.4	1.3	1.5	17.6	17.5	17.7
41 York .....	133.4	138.1	140.8	(1)	(1)	(1)	6.1	6.1	6.2	56.1	58.0	59.2
42 RHODE ISLAND .....	349.2	366.7	378.7	(1)	(1)	(1)	11.5	11.9	12.2	112.7	122.9	127.6
43 Providence—Warwick—Pawtucket .....	361.5	379.0	389.0	(1)	(1)	(1)	11.7	12.3	12.4	126.1	138.1	143.8
44 SOUTH CAROLINA .....	982.6	1,038.1	1,078.8	1.9	1.8	1.8	61.8	61.5	65.9	339.9	371.0	379.9
45 Charleston—North Charleston .....	115.3	122.2	130.1	(1)	(1)	(1)	8.8	9.4	10.2	14.5	17.0	18.0
46 Columbia .....	143.2	148.8	159.7	(1)	(1)	(1)	7.6	6.9	7.9	21.7	22.9	24.1
47 Greenville—Spartanburg .....	221.2	234.8	241.9	(1)	(1)	(1)	14.4	13.4	14.3	92.7	101.6	102.0
48 SOUTH DAKOTA .....	209.3	218.6	(*)	2.6	2.5	(*)	10.2	11.1	(*)	19.8	22.2	(*)
49 Rapid City .....	23.6	25.4	(*)	(3)	(3)	(*)	1.9	2.1	(*)	2.0	2.2	(*)
50 Sioux Falls .....	44.1	46.7	(*)	(3)	(3)	(*)	2.2	2.5	(*)	6.3	6.5	(*)
51 TENNESSEE .....	1,505.7	1,575.4	1,628.7	9.5	9.4	9.2	76.0	73.8	75.6	459.0	486.1	506.5
52 Chattanooga .....	153.5	159.6	161.7	1.0	1.1	1.1	6.0	5.9	5.6	53.8	55.5	55.5
53 Knoxville .....	171.7	177.8	183.4	1.9	1.7	1.6	9.9	9.7	11.1	46.4	49.4	51.6
54 Memphis .....	320.2	327.2	336.7	.2	.2	.1	16.1	14.6	13.8	56.6	57.6	60.3
55 Nashville—Davidson .....	299.8	316.0	326.9	(1)	(1)	(1)	17.6	16.9	17.1	70.8	76.8	80.9
56 TEXAS .....	4,462.9	4,683.7	4,871.9	133.2	139.9	155.1	290.0	320.4	340.6	815.9	862.3	896.5
57 Amarillo .....	62.4	66.0	68.6	(1)	(1)	(1)	4.9	4.1	4.6	7.1	8.8	8.6
58 Austin .....	168.8	188.2	199.1	(1)	(1)	(1)	9.6	10.2	11.1	15.3	19.6	22.5
59 Beaumont—Port Arthur—Orange .....	126.6	138.1	141.5	(1)	(1)	(1)	9.1	15.5	16.2	40.3	41.1	39.8
60 Corpus Christi .....	98.5	102.2	102.6	3.6	3.8	4.1	10.0	11.0	9.0	11.8	12.8	12.8
61 Dallas-Fort Worth .....	1,078.8	1,131.2	1,182.7	12.0	12.9	14.0	49.2	49.6	55.3	235.1	251.3	265.9
62 El Paso .....	134.1	140.4	139.5	(1)	(1)	(1)	7.7	6.8	8.0	29.8	31.6	28.5
63 Galveston—Texas City .....	62.9	65.3	68.2	(1)	(1)	(1)	6.1	6.4	4.9	11.6	11.7	11.8

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			
1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	
98.3	99.1	103.2	377.8	402.8	413.4	82.3	82.6	83.9	267.6	284.1	295.0	318.1	332.7	345.6	1
3.2	3.3	3.3	12.1	12.9	13.1	2.3	2.3	2.3	10.2	10.6	11.1	9.4	9.7	10.5	2
25.1	25.7	26.8	64.0	67.6	69.6	17.6	17.7	18.5	38.6	40.8	43.5	32.2	32.9	34.3	3
19.1	19.3	19.8	63.6	68.6	70.4	15.6	16.0	16.3	44.0	46.4	49.3	40.2	41.0	40.4	4
10.1	10.1	10.6	41.4	44.1	45.8	13.6	13.3	13.7	41.5	44.6	47.6	58.9	60.4	62.1	5
12.7	13.1	(*)	56.6	60.7	(*)	8.5	9.1	(*)	39.1	41.1	(*)	54.5	56.2	(*)	6
3.5	3.5	(*)	16.1	17.1	(*)	3.0	3.2	(*)	10.8	11.5	(*)	11.1	11.6	(*)	7
213.2	213.7	219.0	868.0	890.8	918.3	173.1	177.0	183.7	686.3	703.2	728.0	626.4	632.2	637.1	8
14.1	14.1	14.3	53.1	54.8	57.1	8.2	8.4	8.9	41.4	42.6	44.8	39.3	39.8	40.5	9
6.6	7.0	7.3	30.9	31.1	31.9	5.1	5.3	5.5	24.2	24.7	25.1	16.6	16.8	17.2	10
31.5	30.8	31.7	119.3	124.9	129.9	28.2	28.9	29.7	97.4	100.3	104.6	78.2	78.6	78.8	11
48.0	45.9	46.2	193.0	196.5	201.8	43.2	44.1	45.0	158.0	160.4	165.9	116.2	117.7	119.0	12
21.9	22.4	23.2	104.7	109.6	111.6	30.0	30.7	31.5	82.2	86.6	89.3	94.7	94.7	95.8	13
11.6	12.0	12.1	66.8	69.1	71.5	10.9	11.2	11.8	57.6	60.4	62.1	62.8	62.9	62.7	14
17.9	18.6	19.6	63.0	64.4	66.2	9.0	9.2	9.8	50.1	51.5	53.4	42.6	42.1	43.6	15
9.5	9.6	9.9	41.8	43.3	44.3	6.3	6.5	6.8	32.2	32.7	33.8	23.4	24.0	24.8	16
56.5	57.3	59.2	208.5	222.2	231.9	44.8	46.6	48.9	143.4	151.4	159.4	206.3	207.0	214.5	17
19.5	19.5	20.3	75.9	79.1	82.8	19.9	20.3	21.3	49.9	52.8	56.2	77.8	77.9	81.2	18
18.5	18.7	19.4	54.2	60.2	62.8	12.3	13.0	13.3	41.9	45.8	49.2	24.1	24.7	26.5	19
50.2	51.2	53.5	199.4	210.9	223.7	48.9	51.9	57.0	142.7	151.1	161.9	177.1	181.6	185.5	20
4.3	4.6	4.8	20.0	21.6	23.3	3.7	4.2	4.6	13.9	14.9	16.7	19.4	20.3	20.9	21
30.5	30.7	31.9	111.5	117.1	123.6	32.1	33.5	37.1	86.2	90.7	95.5	72.7	75.2	76.5	22
2.4	2.5	3.0	13.7	14.9	16.5	3.8	4.2	4.7	10.7	11.4	12.5	23.4	24.1	25.5	23
256.5	256.5	258.7	886.8	919.3	925.7	207.3	211.4	217.3	798.5	839.7	864.3	720.9	721.6	714.3	24
12.9	12.9	12.6	43.2	44.9	46.0	7.4	7.7	7.9	36.6	38.1	39.6	33.4	37.1	38.6	25
7.4	7.8	8.2	10.4	11.0	11.2	1.3	1.4	1.4	7.4	7.8	7.9	7.7	7.5	7.5	26
82.3	81.2	82.1	308.1	315.8	320.7	94.3	97.4	99.2	321.6	337.5	346.2	242.0	244.5	237.4	27
5.2	5.2	5.2	20.8	21.2	21.4	4.3	4.3	4.5	17.9	18.6	19.5	14.1	14.1	14.0	28
14.5	14.7	15.1	41.0	40.8	40.7	10.8	10.9	11.5	32.4	33.6	35.3	55.1	54.4	54.9	29
5.6	5.6	5.6	15.8	16.2	16.4	2.9	3.3	3.5	13.3	14.4	15.0	14.3	14.1	14.2	30
5.8	5.7	6.1	28.0	29.3	30.4	4.1	4.2	4.3	20.9	21.4	21.7	13.0	13.5	13.6	31
11.9	11.9	12.3	46.9	47.7	48.2	8.7	8.7	8.8	37.7	39.5	40.3	37.4	37.4	37.8	32
97.2	96.4	97.2	382.6	393.3	400.3	107.7	111.2	113.5	372.6	392.0	402.6	300.3	300.4	295.3	33
56.9	55.2	55.8	154.2	153.3	153.6	64.7	65.4	65.6	191.6	197.7	197.6	159.5	157.7	149.8	34
56.9	57.0	57.0	189.6	193.9	196.4	41.4	40.9	41.7	174.8	180.8	186.2	126.5	125.7	123.0	35
6.4	6.4	6.3	24.0	24.2	25.0	5.0	5.1	5.2	20.0	20.9	21.6	18.3	18.7	18.6	36
4.7	4.4	4.4	18.4	18.3	18.5	3.1	3.0	3.2	15.0	15.7	16.3	11.0	11.1	11.5	37
5.9	6.0	6.2	24.2	24.9	25.0	4.7	4.9	4.8	16.6	17.3	17.5	20.2	20.0	20.0	38
2.0	2.1	2.3	8.4	8.6	8.9	1.8	1.8	1.8	7.3	7.5	7.6	5.9	5.7	5.8	39
6.2	6.4	6.5	27.2	28.5	29.6	3.0	3.2	3.5	18.1	18.8	19.0	16.8	17.1	16.9	40
13.3	13.3	13.3	71.4	74.3	76.6	17.9	18.2	19.2	65.8	69.1	71.6	56.6	57.0	58.2	41
13.2	13.3	13.2	73.2	75.8	76.8	18.1	18.3	19.1	65.9	67.5	68.7	53.3	53.7	55.0	42
40.5	42.7	45.2	175.6	187.6	198.8	39.1	39.7	41.2	123.9	130.5	133.9	199.8	203.3	212.0	43
6.8	7.2	7.7	24.5	26.1	27.9	4.8	4.9	5.5	17.0	18.5	19.5	38.9	39.1	41.2	44
8.0	8.1	8.4	29.0	30.9	33.5	10.7	11.1	12.0	20.8	22.2	24.0	45.2	46.5	49.8	45
8.9	9.3	9.6	40.1	43.0	45.3	8.1	8.2	8.6	30.3	31.3	31.3	26.8	28.0	30.9	46
12.1	12.1	(*)	56.5	60.6	(*)	9.0	9.5	(*)	43.4	44.7	(*)	55.7	55.9	(*)	47
1.6	1.6	(*)	6.6	7.3	(*)	1.1	1.2	(*)	5.0	5.5	(*)	5.4	5.5	(*)	48
4.2	4.1	(*)	13.3	14.9	(*)	2.3	2.5	(*)	9.6	10.0	(*)	6.2	6.2	(*)	49
70.8	73.7	77.0	320.8	339.5	349.8	68.9	69.3	70.4	229.4	240.5	250.5	271.3	283.1	289.7	50
6.0	6.3	6.4	28.7	29.7	29.7	8.5	8.4	8.5	23.3	24.4	25.5	26.2	28.2	29.4	51
7.2	7.3	7.5	36.6	37.6	37.7	6.5	6.7	6.9	25.1	26.1	27.4	38.1	39.3	39.6	52
21.1	22.0	23.5	84.1	87.9	89.8	18.6	18.2	18.7	60.0	62.6	65.8	63.5	64.1	64.7	53
15.7	16.2	17.2	65.6	69.0	72.6	19.6	19.9	19.8	56.5	59.2	60.1	54.0	58.0	59.2	54
293.1	294.3	309.0	1,100.4	1,161.4	1,199.6	247.1	258.7	273.5	767.4	799.7	837.3	815.8	847.0	860.3	55
5.8	6.3	6.6	18.7	20.1	20.7	3.1	3.2	3.5	12.1	12.5	13.2	10.7	11.0	11.4	56
5.6	5.9	6.2	35.1	39.5	41.3	5.5	10.6	11.6	26.7	31.5	33.1	57.0	70.9	73.3	57
9.4	9.7	10.7	26.3	28.3	29.6	4.6	4.8	5.0	19.5	20.9	22.0	17.4	17.8	18.2	58
5.8	5.8	6.1	24.2	25.2	25.4	4.7	4.8	5.2	15.8	16.2	17.1	22.6	22.6	22.9	59
74.9	75.4	78.2	290.5	307.0	317.1	81.4	83.2	86.8	188.7	197.5	204.8	147.0	154.3	158.6	60
9.7	9.8	9.5	33.4	35.5	35.7	6.3	6.3	6.7	21.0	22.3	23.4	26.2	28.1	27.7	61
5.7	5.5	6.8	10.5	11.5	12.3	4.0	4.2	4.5	9.2	9.7	10.2	15.8	16.3	17.7	62

# 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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>TEXAS—Continued</b>												
1 Houston .....	1,032.5	1,097.5	1,163.7	43.6	46.7	50.2	102.6	115.6	125.3	182.1	188.2	192.4
2 Lubbock .....	72.4	76.7	81.7	(1)	(1)	(1)	4.3	4.4	5.0	9.6	10.7	12.4
3 San Antonio .....	317.0	331.6	341.2	1.6	1.7	1.7	19.0	18.6	21.1	37.1	40.7	41.8
4 Waco .....	56.7	60.6	63.6	(1)	(1)	(1)	2.6	2.9	3.2	12.6	14.2	15.4
5 Wichita Falls .....	43.7	45.7	47.5	2.1	2.3	2.5	1.9	2.5	2.4	7.1	7.5	8.1
6 UTAH .....	440.3	462.8	484.2	13.3	14.0	14.7	24.3	27.9	30.6	67.5	70.7	74.4
7 Salt Lake City—Ogden .....	318.0	332.2	348.8	6.1	6.4	6.6	17.2	19.2	22.2	46.0	47.5	49.9
8 VERMONT .....	162.1	168.4	175.5	.8	.7	.7	7.4	7.8	8.1	39.5	41.0	43.3
9 Burlington <sup>14</sup> .....	41.3	43.6	45.9	-	-	-	-	-	-	9.2	9.8	10.7
10 Springfield <sup>14</sup> .....	13.0	12.4	13.0	-	-	-	-	-	-	5.8	5.2	5.4
11 VIRGINIA .....	1,778.7	1,848.2	1,911.7	20.9	21.8	21.8	112.0	111.8	113.7	371.5	387.8	400.0
12 Bristol .....	23.2	24.5	24.4	(1)	(1)	(1)	.9	1.0	1.0	8.2	8.7	8.4
13 Lynchburg .....	58.9	61.2	63.3	(1)	(1)	(1)	3.0	2.7	2.9	25.1	26.9	27.8
14 Newport News—Hampton .....	128.7	132.5	134.8	(1)	(1)	(1)	6.8	6.4	5.6	30.8	32.4	34.6
15 Norfolk—Virginia Beach—Portsmouth .....	244.7	251.2	258.2	(1)	(1)	(1)	15.7	15.2	15.8	25.9	26.2	27.6
16 Northern Virginia <sup>15</sup> .....	345.2	362.0	375.0	.3	.3	.3	23.4	24.1	24.9	13.3	13.5	14.1
17 Petersburg-Colonial Heights-Hopewell .....	42.6	43.8	44.4	(1)	(1)	(1)	2.0	2.2	2.2	12.6	12.8	12.6
18 Richmond .....	280.0	286.9	295.8	.3	.3	.3	17.5	16.0	17.0	49.9	51.8	52.0
19 Roanoke .....	95.3	97.5	98.4	.2	.2	.2	5.9	5.4	5.4	21.2	21.5	21.3
20 WASHINGTON .....	1,218.8	1,271.4	1,343.4	2.0	2.1	2.1	59.5	67.0	74.8	244.0	247.4	261.4
21 Seattle—Everett .....	568.9	587.9	627.0	(1)	(1)	(1)	23.7	25.9	31.4	123.7	119.7	126.1
22 Spokane .....	101.9	108.2	111.9	(1)	(1)	(1)	5.2	5.9	5.9	13.3	14.6	15.5
23 Tacoma .....	116.7	120.3	123.6	(1)	(1)	(1)	5.6	5.9	6.6	20.4	20.3	20.5
24 WEST VIRGINIA .....	574.7	596.3	605.2	63.9	68.6	66.0	30.5	33.2	36.3	121.1	124.4	124.4
25 Charleston .....	102.7	105.8	107.4	6.0	6.2	6.1	6.9	6.9	7.4	18.5	19.2	19.5
26 Huntington—Ashland .....	95.3	99.2	99.5	.7	.8	.9	3.1	6.3	6.3	27.7	28.9	28.6
27 Parkersburg—Marietta .....	50.8	52.7	52.8	.4	.4	.5	2.8	2.7	2.9	16.1	16.7	16.5
28 Wheeling .....	63.8	63.9	63.9	8.2	7.2	6.9	2.5	3.2	3.2	13.9	13.5	13.9
29 WISCONSIN .....	1,676.8	1,723.9	1,785.3	2.7	2.5	2.4	60.6	64.8	74.0	507.0	519.1	533.1
30 Appleton—Oshkosh .....	106.2	110.9	111.4	(1)	(1)	(1)	4.5	5.2	5.0	40.5	43.2	43.6
31 Eau Claire .....	-	39.6	40.9	-	(1)	(1)	-	1.7	1.5	-	8.3	8.9
32 Green Bay .....	65.7	67.7	69.9	(1)	(1)	(1)	2.9	3.1	3.4	19.6	20.0	20.4
33 Kenosha .....	42.2	40.1	39.7	(1)	(1)	(1)	1.1	1.1	1.2	18.9	16.8	15.7
34 La Crosse .....	34.5	36.7	39.1	(1)	(1)	(1)	1.2	1.4	1.9	8.8	9.6	9.9
35 Madison .....	138.9	143.5	148.3	(1)	(1)	(1)	5.9	6.3	7.1	16.1	17.3	18.2
36 Milwaukee .....	598.2	604.7	612.4	(1)	(1)	(1)	18.5	19.9	21.4	197.7	197.2	198.6
37 Racine .....	62.6	63.7	65.5	(1)	(1)	(1)	1.8	1.9	2.3	27.1	27.5	28.2
38 WYOMING .....	146.0	156.5	167.5	18.9	20.7	24.9	14.3	14.9	16.5	8.3	8.4	9.0
39 Casper .....	25.7	27.6	30.3	4.9	5.0	5.7	2.0	2.3	2.9	1.7	1.6	1.7
40 Cheyenne .....	23.2	23.8	24.0	(1)	(1)	(1)	1.6	1.6	1.7	1.5	1.5	1.5

<sup>1</sup> Combined with services.

<sup>2</sup> Data based on the 1967 Standard Industrial Classification Manual and adjusted to 1975 benchmark; not strictly comparable with data published in table B-8.

<sup>3</sup> Combined with construction.

<sup>4</sup> Area included in Chicago—Gary Standard Consolidated Statistical Area.

<sup>5</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>6</sup> Subarea of New York—Northeastern New Jersey.

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

<sup>11</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

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

<sup>13</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>14</sup> Total includes data for industry divisions not shown separately.

<sup>15</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.

\* Not available.

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			
1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	
81.5	79.5	85.6	248.6	269.9	286.2	59.2	62.9	68.6	195.1	209.8	224.4	119.8	124.9	131.0	1
4.3	4.6	4.7	21.9	23.8	25.4	3.6	3.7	3.9	13.2	13.5	13.6	15.5	16.0	16.7	2
13.9	14.4	14.9	79.0	84.7	86.5	20.8	21.6	22.9	59.2	61.7	63.9	86.4	88.2	88.4	3
2.8	3.0	3.1	13.2	13.8	14.7	3.4	3.5	3.6	11.9	12.4	12.7	10.2	10.8	10.9	4
2.2	2.3	2.4	11.3	11.7	12.2	1.9	2.0	2.2	6.7	6.8	7.2	10.5	10.6	10.5	5
27.0	28.1	29.2	104.4	112.0	118.1	19.7	20.6	22.0	73.7	77.4	80.9	110.3	112.2	114.1	6
21.6	22.4	23.3	78.0	83.5	87.9	16.4	17.1	18.4	50.6	53.2	56.7	82.1	82.9	83.7	7
8.2	8.2	8.3	33.7	35.0	36.5	6.6	6.8	7.0	35.5	38.2	40.1	30.5	30.9	31.6	8
2.1	2.0	2.1	8.8	9.5	9.8	-	-	-	8.6	9.3	10.0	-	-	-	9
.8	.7	.7	2.0	2.0	2.1	-	-	-	2.2	2.3	2.5	-	-	-	10
103.8	105.6	106.9	368.0	386.7	399.4	84.0	86.3	90.3	296.9	312.8	324.9	421.6	435.4	454.7	11
.9	.9	.9	5.3	5.9	6.0	.8	.9	.8	3.1	3.1	3.0	4.0	4.0	4.3	12
2.5	2.6	2.6	9.6	10.0	10.4	2.6	2.7	2.8	8.1	8.2	8.5	8.0	8.1	8.3	13
4.4	4.4	4.4	23.4	24.3	24.3	4.3	4.2	4.3	23.0	24.2	24.3	36.0	36.6	37.3	14
17.1	17.6	17.9	58.4	60.5	62.7	12.5	12.9	12.8	42.6	43.9	45.3	72.5	74.9	76.1	15
25.2	25.7	26.6	81.6	86.1	89.4	19.7	21.2	23.5	76.5	82.8	87.1	105.2	108.3	109.1	16
1.4	1.4	1.3	7.7	7.9	8.1	1.1	1.1	1.1	5.1	5.1	5.1	12.7	13.3	14.0	17
17.4	17.5	18.1	63.0	66.2	68.0	22.0	22.0	23.0	46.6	49.0	50.6	63.3	63.7	66.8	18
10.3	10.1	9.9	22.1	23.4	23.6	5.2	5.3	5.5	17.2	17.8	17.7	13.2	13.8	14.8	19
72.5	75.4	77.6	285.6	306.8	328.0	65.0	68.2	74.8	216.6	231.4	247.0	273.6	273.1	277.7	20
39.8	42.3	44.1	134.2	144.2	155.0	39.2	40.4	44.1	102.9	109.3	118.5	135.4	106.1	107.8	21
7.2	7.3	7.5	28.0	30.0	31.2	6.2	6.9	7.2	22.9	24.2	25.1	15.1	19.3	19.5	22
5.3	5.7	5.9	27.2	28.2	29.4	5.6	5.7	6.1	22.6	24.4	25.5	30.0	30.1	29.6	23
39.6	39.6	40.4	113.5	117.8	121.6	18.4	18.9	19.5	79.6	84.1	86.0	108.1	109.6	111.0	24
8.9	9.0	9.0	23.2	24.0	24.2	4.3	4.6	4.6	16.6	17.3	18.1	18.3	18.7	18.5	25
9.4	9.3	9.3	19.7	20.4	20.5	3.4	3.4	3.5	13.0	13.6	13.8	16.2	16.6	16.6	26
2.4	2.4	2.4	11.0	11.5	11.3	1.7	1.8	1.8	7.9	8.0	8.0	8.6	9.2	9.5	27
3.7	3.6	3.6	13.7	13.9	14.1	2.4	2.5	2.4	11.8	12.2	12.3	7.6	7.7	7.5	28
81.7	82.3	84.5	374.7	387.2	404.7	74.5	76.9	79.3	290.2	302.4	320.1	285.4	288.6	287.1	29
4.1	4.1	4.1	21.7	22.3	22.3	4.1	4.2	4.3	16.4	17.1	17.3	14.9	14.8	14.8	30
-	1.9	2.3	-	9.9	10.1	-	1.3	1.3	-	7.6	7.9	-	8.8	8.8	31
4.6	4.5	4.4	15.9	16.3	16.7	2.0	2.0	2.2	11.4	12.2	12.8	9.3	9.6	9.8	32
1.4	1.4	1.4	7.6	7.6	7.7	.8	.8	.8	6.7	6.7	7.1	5.7	5.8	5.8	33
1.9	2.1	2.1	9.0	9.6	10.2	.9	.9	.9	7.2	7.6	8.1	5.4	5.6	5.9	34
5.3	5.2	5.2	29.4	30.4	32.4	8.8	9.4	10.0	23.4	24.4	24.7	49.9	50.4	50.7	35
30.5	30.6	31.4	130.4	133.2	134.4	32.5	32.5	32.3	112.4	115.8	120.6	76.2	75.6	73.7	36
2.1	2.3	2.5	11.8	12.0	12.0	1.7	1.8	2.0	9.8	9.8	10.0	8.3	8.4	8.5	37
12.5	12.8	13.2	32.2	35.1	37.4	4.5	5.1	5.5	20.7	23.4	23.7	34.5	36.1	37.3	38
1.9	2.0	2.1	6.3	7.0	7.8	1.0	1.2	1.3	3.7	4.0	4.4	4.2	4.5	4.4	39
3.3	3.2	3.2	5.3	5.6	5.7	1.2	1.3	1.4	3.6	3.8	3.9	6.8	6.8	6.6	40

NOTE: Data are adjusted to 1977 benchmark levels except for the following: Colorado and Denver—Boulder (1975); Illinois and areas (1976); Chicago—Gary (Illinois portion 1975, Indiana portion 1976); Iowa and areas (1976); Maryland and Baltimore (1976); Massachusetts and areas (1976); Michigan and areas (1976); Kansas City, St. Joseph, St. Louis and Springfield, Missouri (1976); North Dakota and Fargo—Moorhead (1976); and Wisconsin and areas (1976).

**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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>ALABAMA</b> .....	\$161.95	\$181.08	\$198.04	39.5	40.6	40.5	\$4.10	\$4.46	\$4.89
Birmingham .....	209.50	220.04	234.77	40.1	40.3	40.2	5.00	5.46	5.84
Mobile .....	207.05	214.93	246.61	41.0	40.4	42.3	5.05	5.32	5.83
<b>ALASKA</b> .....	296.09	316.71	394.90	36.6	40.5	43.3	8.09	7.82	9.12
<b>ARIZONA</b> .....	189.15	205.00	(*)	39.0	39.5	(*)	4.85	5.19	(*)
Phoenix .....	190.81	203.42	(*)	39.1	39.5	(*)	4.88	5.15	(*)
Tucson .....	190.81	208.94	(*)	39.1	39.2	(*)	4.88	5.33	(*)
<b>ARKANSAS</b> .....	139.29	154.84	170.71	38.8	39.6	39.7	3.59	3.91	4.30
Fayetteville-Springdale .....	128.43	143.24	155.22	38.8	39.9	39.8	3.31	3.59	3.90
Fort Smith .....	137.63	155.99	171.77	37.5	38.9	38.6	3.67	4.01	4.45
Little Rock-North Little Rock .....	157.92	176.12	197.69	38.8	39.4	40.1	4.07	4.47	4.93
Pine Bluff .....	169.26	193.23	211.74	39.0	41.2	41.6	4.34	4.69	5.09
<b>CALIFORNIA</b> .....	205.67	221.92	240.60	39.4	39.7	40.1	5.22	5.59	6.00
Anaheim-Santa Ana-Garden Grove .....	196.21	207.72	222.75	39.8	40.1	40.5	4.93	5.18	5.50
Bakersfield .....	218.90	235.42	248.35	39.8	39.7	39.8	5.50	5.93	6.24
Fresno .....	183.52	201.76	216.76	38.8	39.1	39.7	4.73	5.16	5.46
Los Angeles-Long Beach .....	194.13	206.96	224.72	39.7	39.8	40.2	4.89	5.20	5.59
Modesto .....	199.56	216.06	240.58	38.9	39.0	39.7	5.13	5.54	6.06
Oxnard-Simi Valley-Ventura .....	184.69	195.00	202.93	38.8	39.0	39.1	4.76	5.00	5.19
Riverside-San Bernardino-Ontario .....	210.01	230.62	242.59	39.7	39.9	39.9	5.29	5.78	6.08
Sacramento .....	219.40	239.95	259.12	38.9	39.4	39.5	5.64	6.09	6.56
Salinas-Seaside-Monterey .....	188.50	206.72	224.79	37.4	38.0	38.1	5.04	5.44	5.90
San Diego .....	202.22	215.81	230.29	38.3	38.4	38.9	5.28	5.62	5.92
San Francisco-Oakland .....	244.29	269.39	291.67	38.9	39.5	39.9	6.28	6.82	7.31
San Jose .....	223.18	241.79	260.18	39.5	39.9	40.4	5.65	6.06	6.44
Santa Barbara-Santa Maria-Lompoc .....	186.36	197.61	213.19	39.4	38.9	39.7	4.73	5.08	5.37
Santa Rosa .....	194.30	208.30	220.02	36.8	37.6	38.0	5.28	5.54	5.79
Stockton .....	227.66	244.33	265.73	39.8	39.6	39.9	5.72	6.17	6.66
Vallejo-Fairfield-Napa .....	222.69	230.89	239.40	39.0	38.1	38.0	5.71	6.06	6.30
<b>COLORADO</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Denver-Boulder .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>CONNECTICUT</b> .....	193.59	208.90	230.74	40.5	40.8	41.5	4.78	5.12	5.56
Bridgeport .....	202.62	220.39	237.71	40.8	41.9	42.6	4.97	5.26	5.58
Hartford .....	216.84	232.96	254.58	41.7	41.6	42.5	5.20	5.60	5.99
New Britain .....	199.02	212.79	239.98	40.7	41.0	42.4	4.89	5.19	5.66
New Haven-West Haven .....	191.35	207.43	228.07	39.7	40.2	40.8	4.82	5.16	5.59
Stamford .....	201.28	216.42	235.20	40.5	41.7	42.0	4.97	5.19	5.60
Waterbury .....	167.26	180.78	197.30	40.5	40.9	41.8	4.13	4.42	4.72
<b>DELAWARE</b> .....	197.29	220.40	232.65	39.3	40.0	39.5	5.02	5.51	5.89
Wilmington .....	226.55	249.42	270.12	39.4	40.1	39.9	5.75	6.22	6.77
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	212.52	209.98	211.20	38.5	38.6	38.4	5.52	5.44	5.50
<b>FLORIDA</b> .....	164.40	176.14	188.44	40.0	40.4	40.7	4.11	4.36	4.63
Fort Lauderdale-Hollywood .....	157.90	174.12	185.73	38.7	40.4	41.0	4.08	4.31	4.53
Jacksonville .....	202.46	218.06	223.45	40.9	41.3	41.0	4.95	5.28	5.45
Miami .....	144.20	153.26	161.57	39.4	39.5	39.6	3.66	3.88	4.08
Orlando .....	164.42	183.37	203.50	40.3	41.3	41.7	4.08	4.44	4.88
Pensacola .....	189.85	218.08	238.57	39.8	42.1	42.3	4.77	5.18	5.64
Tampa-St. Petersburg .....	173.32	183.82	197.55	40.4	40.4	40.9	4.29	4.55	4.83
West Palm Beach-Boca Raton .....	183.08	217.58	226.08	39.8	43.0	42.1	4.60	5.06	5.37
<b>GEORGIA</b> .....	152.10	164.41	180.63	39.2	40.1	40.5	3.88	4.10	4.46
Atlanta .....	180.03	201.16	219.37	38.8	39.6	40.4	4.64	5.08	5.43
Savannah .....	190.11	222.13	239.33	41.6	42.8	43.2	4.57	5.19	5.54
<b>HAWAII</b> .....	182.99	200.46	209.38	39.1	39.0	38.0	4.68	5.14	5.51
Honolulu .....	177.63	193.29	206.42	38.2	38.2	37.6	4.65	5.06	5.49
<b>IDAHO</b> .....	185.08	204.72	228.73	38.8	38.7	39.3	4.77	5.29	5.82
Boise City .....	-	193.12	207.50	-	39.9	39.6	-	4.84	5.24

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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>ILLINOIS</b> .....	\$219.13	\$236.11	\$254.91	39.7	40.4	40.6	\$5.53	\$5.85	\$6.22
Bloomington—Normal .....	(*)	(*)	192.02	(*)	(*)	37.7	(*)	(*)	5.10
Champaign—Urbana—Rantoul .....	(*)	(*)	240.12	(*)	(*)	39.7	(*)	(*)	6.05
Chicago SMSA .....	217.13	241.92	258.92	39.8	40.7	41.5	5.46	5.94	6.24
Davenport—Rock Island—Moline .....	(*)	(*)	271.57	(*)	(*)	40.6	(*)	(*)	6.69
Decatur .....	(*)	(*)	275.01	(*)	(*)	44.6	(*)	(*)	6.17
Peoria .....	(*)	(*)	287.52	(*)	(*)	38.0	(*)	(*)	7.56
Rockford .....	(*)	(*)	236.44	(*)	(*)	42.0	(*)	(*)	5.63
Springfield .....	(*)	(*)	294.24	(*)	(*)	42.8	(*)	(*)	6.88
<b>INDIANA</b> .....	218.50	243.60	271.92	39.8	40.6	41.2	5.49	6.00	6.60
Gary—Hammond—East Chicago .....		310.49	344.81	-	40.8	41.0	-	7.61	8.41
Indianapolis .....	221.10	244.39	282.15	40.2	40.8	41.8	5.50	5.99	6.75
<b>IOWA</b> .....	214.38	233.42	257.84	39.7	39.9	40.1	5.40	5.85	6.43
Cedar Rapids <sup>2</sup> .....	217.35	(*)	(*)	40.4	(*)	(*)	5.38	(*)	(*)
Des Moines <sup>2</sup> .....	224.25	(*)	(*)	39.0	(*)	(*)	5.75	(*)	(*)
Dubuque <sup>2</sup> .....	251.55	(*)	(*)	38.7	(*)	(*)	6.50	(*)	(*)
Sioux City <sup>2</sup> .....	188.57	(*)	(*)	38.8	(*)	(*)	4.86	(*)	(*)
Waterloo—Cedar Falls <sup>2</sup> .....	267.87	(*)	(*)	40.1	(*)	(*)	6.68	(*)	(*)
<b>KANSAS</b> .....	188.98	202.93	219.29	40.9	41.0	41.1	4.62	4.95	5.33
Topeka .....	193.16	207.56	238.04	40.2	41.6	41.7	4.80	4.98	5.72
Wichita .....	216.29	222.89	234.12	42.4	41.4	41.3	5.10	5.39	5.67
<b>KENTUCKY</b> .....	180.42	203.03	(*)	38.8	39.5	(*)	4.65	5.14	(*)
Louisville .....	212.46	235.60	260.90	39.2	40.0	40.2	5.42	5.89	6.49
<b>LOUISIANA</b> .....	197.69	220.13	240.35	41.1	41.3	41.8	4.81	5.33	5.75
Baton Rouge .....	248.30	277.10	303.02	42.3	42.5	42.8	5.87	6.52	7.08
New Orleans .....	193.26	215.47	233.74	40.6	40.2	40.3	4.76	5.36	5.80
Shreveport .....	177.32	191.70	216.42	40.3	40.7	41.7	4.40	4.71	5.19
<b>MAINE</b> .....	152.02	165.98	179.90	39.9	39.9	39.8	3.81	4.16	4.52
Lewiston—Auburn .....	125.07	138.48	143.99	37.9	38.9	37.4	3.30	3.56	3.85
Portland .....	160.40	172.30	182.62	39.9	39.7	39.7	4.02	4.34	4.60
<b>MARYLAND</b> .....	197.06	218.59	241.40	39.1	39.6	39.9	5.04	5.52	6.05
Baltimore .....	206.33	232.00	254.06	39.3	40.0	40.2	5.25	5.80	6.32
<b>MASSACHUSETTS</b> .....	175.17	190.16	(*)	39.1	39.7	(*)	4.48	4.79	(*)
Boston .....	193.16	209.82	(*)	39.5	39.7	(*)	4.89	5.26	(*)
Brockton .....	145.16	152.78	(*)	37.9	38.1	(*)	3.83	4.01	(*)
Fall River .....	124.61	134.85	(*)	35.2	35.3	(*)	3.54	3.82	(*)
Lawrence—Haverhill .....	169.99	182.75	(*)	38.9	39.3	(*)	4.37	4.65	(*)
Lowell .....	159.01	167.96	(*)	38.5	38.7	(*)	4.13	4.34	(*)
New Bedford .....	145.43	157.59	(*)	37.1	37.7	(*)	3.92	4.18	(*)
Springfield—Chicopee—Holyoke .....	175.82	194.95	(*)	39.6	40.7	(*)	4.44	4.79	(*)
Worcester .....	177.00	189.82	(*)	38.9	39.3	(*)	4.55	4.83	(*)
<b>MICHIGAN</b> .....	250.76	290.97	326.27	40.8	42.7	43.3	6.15	6.81	7.54
Ann Arbor .....	265.60	318.60	363.67	41.0	43.6	44.6	6.48	7.29	8.15
Battle Creek .....	261.71	283.57	306.19	41.6	41.7	41.4	6.29	6.81	7.40
Bay City .....	264.22	310.01	347.52	44.7	47.6	48.1	5.91	6.51	7.23
Detroit .....	266.66	310.44	349.78	41.0	42.9	43.5	6.50	7.23	8.04
Flint .....	285.08	344.05	391.53	41.4	45.7	46.6	6.89	7.52	8.40
Grand Rapids .....	206.28	229.55	256.26	39.7	40.7	41.6	5.20	5.64	6.16
Jackson .....	229.58	244.93	272.56	40.8	40.9	41.9	5.63	5.99	6.51
Kalamazoo—Portage .....	224.78	254.64	279.17	40.5	41.4	41.5	5.55	6.15	6.73
Lansing—East Lansing .....	260.14	314.37	340.51	40.8	43.9	43.7	6.38	7.16	7.79
Muskegon—Norton Shores—Muskegon Heights .....	217.89	244.89	270.90	40.5	41.3	42.0	5.38	5.93	6.45
Saginaw .....	292.33	344.13	388.82	41.4	44.4	45.7	7.06	7.75	8.51
<b>MINNESOTA</b> .....	200.43	220.09	238.80	39.3	39.8	40.0	5.10	5.53	5.97
Duluth—Superior .....	187.23	199.02	216.61	39.5	39.1	39.1	4.74	5.09	5.54
Minneapolis—St. Paul .....	214.38	235.57	257.75	39.7	40.2	40.4	5.40	5.86	6.38
<b>MISSISSIPPI</b> .....	140.69	153.20	166.42	39.3	40.0	40.1	3.58	3.83	4.15
Jackson .....	146.21	158.39	184.09	40.5	40.2	41.0	3.61	3.94	4.49

**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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>MISSOURI</b> <sup>1</sup>	\$185.25	\$206.96	\$231.15	39.0	39.8	40.2	\$4.75	\$5.20	\$5.75
Kansas City <sup>1</sup>	211.33	236.52	263.04	39.5	40.5	41.1	5.35	5.84	6.40
St. Joseph <sup>1</sup>	185.84	195.77	212.13	40.4	40.4	40.1	4.60	4.87	5.29
St. Louis <sup>1</sup>	215.56	243.05	268.79	39.4	40.4	41.1	5.47	6.01	6.54
Springfield <sup>1</sup>	160.24	173.26	189.83	38.8	39.2	38.9	4.13	4.42	4.88
<b>MONTANA</b> <sup>1</sup>	195.78	236.01	272.95	36.8	39.8	41.8	5.32	5.93	6.53
<b>NEBRASKA</b> <sup>1</sup>	183.68	202.57	(*)	40.7	41.1	(*)	4.51	4.93	(*)
Lincoln <sup>1</sup>	168.17	191.20	(*)	38.9	39.1	(*)	4.32	4.89	(*)
Omaha <sup>1</sup>	202.11	224.03	(*)	40.9	42.0	(*)	4.94	5.33	(*)
<b>NEVADA</b> <sup>1</sup>	200.93	218.23	236.68	38.2	38.9	38.8	5.26	5.61	6.10
Las Vegas <sup>1</sup>	248.52	269.84	325.68	39.7	40.7	41.1	6.26	6.63	7.33
<b>NEW HAMPSHIRE</b>	155.23	163.30	(*)	39.1	39.6	(*)	3.97	4.25	(*)
Manchester	140.19	151.71	(*)	38.2	38.8	(*)	3.67	3.91	(*)
Nashua	179.25	189.74	(*)	40.1	40.2	(*)	4.47	4.72	(*)
<b>NEW JERSEY</b> <sup>1</sup>	199.99	215.67	(*)	40.5	40.3	(*)	4.93	5.35	(*)
Atlantic City <sup>1</sup>	150.62	168.70	(*)	36.0	37.6	(*)	4.19	4.49	(*)
Camden <sup>1,3</sup>	182.18	200.21	(*)	39.1	39.4	(*)	4.66	5.09	(*)
Hackensack <sup>1,4</sup>	191.60	209.05	(*)	39.6	40.9	(*)	4.84	5.11	(*)
Jersey City <sup>1,4</sup>	191.00	207.43	(*)	39.9	38.8	(*)	4.79	5.34	(*)
New Brunswick—Perth Amboy—Sayreville <sup>1,4</sup>	213.73	236.69	(*)	40.3	41.3	(*)	5.31	5.73	(*)
Newark <sup>1,4</sup>	208.37	221.76	(*)	41.6	40.7	(*)	5.01	5.44	(*)
Paterson—Clifton—Passaic <sup>1,4</sup>	191.24	209.31	(*)	40.5	41.2	(*)	4.72	5.08	(*)
Trenton <sup>1</sup>	222.03	221.94	(*)	43.3	40.9	(*)	5.12	5.42	(*)
<b>NEW MEXICO</b> <sup>1</sup>	143.50	160.77	172.33	39.1	39.5	38.9	3.67	4.07	4.43
Albuquerque <sup>1</sup>	149.69	162.76	175.50	39.6	39.6	39.0	3.78	4.11	4.50
<b>NEW YORK</b>	191.00	207.64	224.53	38.9	39.4	39.6	4.91	5.27	5.67
Albany—Schenectady—Troy	199.40	227.00	245.83	39.8	40.9	40.7	5.01	5.55	6.04
Binghamton	185.03	195.91	200.10	40.4	40.9	40.1	4.58	4.79	4.99
Buffalo	236.40	269.86	304.08	40.0	41.2	42.0	5.91	6.55	7.24
Elmira	184.14	203.89	222.86	39.6	39.9	40.3	4.65	5.11	5.53
Monroe County <sup>5</sup>	239.90	269.22	292.88	40.8	42.0	41.9	5.88	6.41	6.99
Nassau—Suffolk <sup>6</sup>	186.98	198.47	215.17	39.2	39.3	39.7	4.77	5.05	5.42
New York—Northeastern New Jersey	187.59	199.68	(*)	39.0	39.0	(*)	4.81	5.12	(*)
New York and Nassau-Suffolk <sup>4</sup>	176.81	185.86	197.84	37.7	37.7	37.9	4.69	4.93	5.22
New York SMSA <sup>6</sup>	175.03	184.38	196.65	37.4	37.4	37.6	4.68	4.93	5.23
New York City <sup>7</sup>	174.00	182.65	193.07	37.1	37.2	37.2	4.69	4.91	5.19
Poughkeepsie	198.40	218.92	235.19	40.0	41.7	42.3	4.96	5.25	5.56
Rochester	228.98	254.18	276.47	40.6	41.6	41.7	5.64	6.11	6.63
Rockland County <sup>7</sup>	190.03	206.57	222.60	41.4	41.9	42.0	4.59	4.93	5.30
Syracuse	204.93	227.28	251.93	40.5	41.1	41.3	5.06	5.53	6.10
Utica—Rome	179.84	198.09	213.59	39.7	40.1	40.3	4.53	4.94	5.30
Westchester County <sup>7</sup>	182.75	198.18	220.70	38.8	39.4	40.2	4.71	5.03	5.49
<b>NORTH CAROLINA</b> <sup>1</sup>	135.14	149.33	162.36	38.5	39.4	39.6	3.51	3.79	4.10
Asheville <sup>1</sup>	133.52	146.59	160.39	38.7	39.3	39.8	3.45	3.73	4.03
Charlotte—Gastonia <sup>1</sup>	136.50	153.90	167.28	39.0	40.5	40.8	3.50	3.80	4.10
Greensboro—Winston-Salem—High Point <sup>1</sup>	147.84	162.72	176.22	38.5	39.4	39.6	3.84	4.13	4.45
Raleigh—Durham <sup>1</sup>	150.90	166.99	182.75	38.3	39.2	39.3	3.94	4.26	4.65
<b>NORTH DAKOTA</b>	171.97	189.03	(*)	39.9	39.3	(*)	4.31	4.81	(*)
Fargo—Moorhead	180.97	203.38	(*)	39.6	39.8	(*)	4.57	5.11	(*)
<b>OHIO</b>	224.47	252.54	283.08	40.3	41.4	42.0	5.57	6.10	6.74
Akron	232.63	253.44	285.53	41.1	42.1	42.3	5.66	6.02	6.75
Canton	222.22	244.73	273.14	39.4	39.6	39.7	5.64	6.18	6.88
Cincinnati	211.75	232.22	260.83	40.8	41.1	41.6	5.19	5.65	6.27
Cleveland	227.45	260.62	292.75	40.4	41.9	42.8	5.63	6.22	6.84
Columbus	205.13	226.16	245.02	39.6	40.1	40.3	5.18	5.64	6.08
Dayton	236.65	271.30	301.02	41.3	43.2	43.5	5.73	6.28	6.92
Toledo	234.32	262.28	298.90	40.4	41.5	42.7	5.80	6.32	7.00
Youngstown—Warren	246.65	277.29	313.50	38.6	39.5	40.4	6.39	7.02	7.76

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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>OKLAHOMA</b> <sup>1</sup>	\$176.84	\$194.27	\$214.52	40.1	40.3	40.4	\$4.41	\$4.82	\$5.31
Oklahoma City <sup>1</sup>	175.82	194.80	212.22	39.6	40.5	40.5	4.44	4.81	5.24
Tulsa <sup>1</sup>	194.17	211.58	229.77	40.2	40.3	40.1	4.83	5.25	5.73
<b>OREGON</b> <sup>1</sup>	212.74	236.12	257.46	38.4	38.9	38.6	5.54	6.07	6.67
Eugene—Springfield <sup>1</sup>	220.77	256.77	280.89	38.8	40.5	40.3	5.69	6.34	6.97
Jackson County <sup>1</sup>	210.48	237.29	261.58	38.2	38.9	39.1	5.51	6.10	6.69
Portland <sup>1</sup>	212.74	231.81	247.04	38.4	38.7	38.3	5.54	5.99	6.45
<b>PENNSYLVANIA</b>	193.22	210.11	231.08	38.8	39.2	39.5	4.98	5.36	5.85
Allentown—Bethlehem—Easton	190.89	206.50	225.76	37.8	38.1	38.2	5.05	5.42	5.91
Altoona	158.30	172.97	190.12	37.6	38.1	38.1	4.21	4.54	4.99
Delaware Valley <sup>8</sup>	203.70	222.78	240.98	38.8	39.5	39.7	5.25	5.64	6.07
Erie	204.09	217.08	242.67	40.9	40.2	41.2	4.99	5.40	5.89
Harrisburg	174.27	187.29	206.19	38.9	39.1	39.5	4.48	4.79	5.22
Johnstown	216.38	235.46	249.60	37.5	38.6	39.0	5.77	6.10	6.40
Lancaster	172.97	188.97	205.65	39.4	39.7	39.7	4.39	4.76	5.18
Northeast Pennsylvania	144.51	153.43	167.50	36.4	36.1	36.1	3.97	4.25	4.64
Philadelphia SMSA	(*)	(*)	239.60	(*)	(*)	39.8	(*)	(*)	6.02
Pittsburgh	232.85	257.20	288.16	39.6	40.0	40.7	5.88	6.43	7.08
Reading	172.93	191.30	210.75	38.6	39.2	39.1	4.48	4.88	5.39
Scranton <sup>9</sup>	150.44	158.15	176.34	37.8	37.3	37.6	3.98	4.24	4.69
Wilkes-Barre—Hazleton <sup>10</sup>	139.91	149.32	160.30	35.6	35.3	35.0	3.93	4.23	4.58
Williamsport	176.62	183.52	201.63	39.6	38.8	39.0	4.46	4.73	5.17
York	178.64	192.17	212.90	40.6	40.8	41.1	4.40	4.71	5.18
<b>RHODE ISLAND</b> <sup>1</sup>	149.04	163.93	(*)	38.9	39.5	(*)	3.84	4.15	(*)
Providence—Warwick—Pawtucket <sup>1</sup>	148.92	165.17	(*)	38.9	39.8	(*)	3.83	4.15	(*)
<b>SOUTH CAROLINA</b>	141.45	157.96	173.77	39.4	40.4	40.6	3.59	3.91	4.28
Charleston—North Charleston	165.24	179.45	196.94	40.5	40.6	41.2	4.08	4.42	4.78
Columbia	143.93	154.45	174.80	38.9	39.2	40.0	3.70	3.94	4.37
Greenville—Spartanburg	140.37	157.17	172.53	39.1	40.3	40.5	3.59	3.90	4.26
<b>SOUTH DAKOTA</b> <sup>1</sup>	172.20	179.95	(*)	41.0	39.9	(*)	4.20	4.51	(*)
Rapid City	-	170.94	(*)	-	40.7	(*)	-	4.20	(*)
Sioux Falls <sup>1</sup>	222.04	234.21	(*)	42.7	42.2	(*)	5.20	5.55	(*)
<b>TENNESSEE</b>	156.41	170.87	188.14	39.8	40.3	40.2	3.93	4.24	4.68
Chattanooga	168.05	179.34	198.36	40.3	40.3	40.9	4.17	4.45	4.85
Knoxville	176.91	199.70	223.53	39.4	40.1	40.8	4.49	4.98	5.48
Memphis	187.80	203.50	218.83	40.3	40.7	40.6	4.66	5.00	5.39
Nashville—Davidson	163.80	181.54	203.71	39.0	39.9	40.1	4.20	4.55	5.08
<b>TEXAS</b> <sup>1</sup>	185.54	203.68	222.76	40.6	40.9	41.1	4.57	4.98	5.42
Amarillo	170.11	191.41	233.20	40.6	40.9	44.0	4.19	4.68	5.30
Austin <sup>1</sup>	157.47	177.12	180.46	40.9	41.0	41.2	3.85	4.32	4.38
Beaumont—Port Arthur—Orange <sup>1</sup>	244.61	276.69	313.47	40.1	40.1	40.5	6.10	6.90	7.74
Corpus Christi	213.52	237.97	249.67	41.3	42.8	41.2	5.17	5.56	6.06
Dallas—Fort Worth <sup>1</sup>	174.10	189.60	205.44	40.3	40.6	40.6	4.32	4.67	5.06
El Paso <sup>1</sup>	129.03	141.64	150.48	37.4	38.7	39.6	3.45	3.66	3.80
Galveston—Texas City <sup>1</sup>	287.74	325.87	344.68	43.4	43.8	42.5	6.63	7.44	8.11
Houston <sup>1</sup>	225.78	251.55	277.95	42.6	43.0	42.5	5.30	5.85	6.54
Lubbock <sup>1</sup>	143.60	149.81	163.61	40.0	40.6	40.8	3.59	3.69	4.01
San Antonio	144.13	156.67	170.15	40.6	40.8	41.0	3.55	3.84	4.15
Waco	157.95	170.87	184.01	40.5	40.3	40.8	3.90	4.24	4.51
Wichita Falls	158.79	176.73	191.39	39.5	39.1	39.3	4.02	4.52	4.87
<b>UTAH</b> <sup>1</sup>	155.52	191.69	207.15	38.4	39.2	40.0	4.05	4.89	5.18
Salt Lake City—Ogden <sup>1</sup>	156.00	185.57	196.04	39.0	39.4	39.8	4.00	4.71	4.93
<b>VERMONT</b>	164.43	180.40	191.76	40.4	41.0	40.8	4.07	4.40	4.70
Burlington	187.50	216.72	223.12	41.3	43.0	42.5	4.54	5.04	5.25
Springfield	186.86	190.95	217.01	40.8	40.2	41.1	4.58	4.75	5.28
<b>VIRGINIA</b>	156.41	171.57	187.13	39.2	39.9	39.9	3.99	4.30	4.69
Bristol	-	149.72	165.55	-	38.0	38.5	-	3.94	4.30
Lynchburg	154.45	173.29	186.26	39.4	40.3	39.8	3.92	4.30	4.68
Norfolk—Virginia Beach—Portsmouth	159.20	182.61	213.72	39.8	40.4	41.5	4.00	4.52	5.15
Northern Virginia <sup>11</sup>	198.09	198.60	213.86	40.1	39.8	40.2	4.94	4.99	5.32
Petersburg-Colonial Heights-Hopewell	-	200.46	223.62	-	39.0	39.3	-	5.14	5.69

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		
	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>VIRGINIA</b> —Continued									
Richmond .....	\$183.35	\$207.25	\$218.96	39.6	40.4	39.1	\$4.63	\$5.13	\$5.60
Roanoke .....	141.93	154.43	165.90	39.1	39.7	39.5	3.63	3.89	4.20
<b>WASHINGTON</b> <sup>1</sup>	224.07	248.68	(*)	38.7	39.1	(*)	5.79	6.36	(*)
Seattle—Everett <sup>1</sup> .....	233.05	255.84	(*)	39.3	39.3	(*)	5.93	6.51	(*)
Spokane <sup>1</sup> .....	203.81	220.56	(*)	38.6	38.9	(*)	5.28	5.67	(*)
Tacoma <sup>1</sup> .....	221.95	247.17	(*)	38.4	38.5	(*)	5.78	6.42	(*)
<b>WEST VIRGINIA</b>	192.27	212.46	(*)	39.0	39.2	(*)	4.93	5.42	(*)
Charleston .....	225.91	250.30	277.97	41.0	41.1	41.8	5.51	6.09	6.65
Huntington—Ashland .....	212.62	239.00	258.57	38.8	39.9	39.0	5.48	5.99	6.63
Parkersburg—Marietta .....	212.13	235.89	253.03	40.1	40.6	40.1	5.29	5.81	6.31
Wheeling .....	204.80	220.89	249.46	40.0	39.8	40.3	5.12	5.55	6.19
<b>WISCONSIN</b>	212.25	230.91	250.06	40.4	40.6	40.6	5.26	5.69	6.16
Appleton—Oshkosh .....	201.77	220.99	246.21	40.9	41.1	42.0	4.93	5.38	5.86
Eau Claire .....	—	234.90	254.08	—	41.9	41.2	—	5.61	6.16
Green Bay .....	216.69	235.62	254.98	41.7	42.2	42.1	5.20	5.58	6.05
Kenosha .....	259.00	261.19	283.15	39.9	39.2	39.6	6.49	6.66	7.15
La Crosse .....	183.83	195.21	210.78	41.3	40.6	40.2	4.45	4.81	5.24
Madison .....	231.15	250.47	268.95	39.9	40.1	40.1	5.79	6.24	6.70
Milwaukee .....	231.92	252.05	275.40	40.3	40.3	40.7	5.75	6.26	6.76
Racine .....	227.76	243.66	265.25	39.7	40.0	40.3	5.74	6.10	6.59
<b>WYOMING</b> <sup>1</sup>	205.34	218.11	227.97	40.2	40.2	39.8	5.11	5.43	5.72
Casper <sup>1</sup> .....	236.49	266.31	276.58	39.2	41.4	40.4	6.03	6.42	6.85
Cheyenne <sup>1</sup> .....	213.60	248.44	(*)	40.0	40.7	(*)	5.34	6.10	(*)

<sup>1</sup> Based on the 1972 Standard Industrial Classification Manual beginning in 1976; not strictly comparable with previous years.

<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual.

<sup>3</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>4</sup> Subarea of New York—Northeastern New Jersey.

<sup>5</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>6</sup> Area included in New York and Nassau—Suffolk combined SMSA's.

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

<sup>8</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

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

<sup>10</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>11</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.

\* Not available.

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 <sup>1</sup>		Total			Quits			Layoffs		
	1975	1976	1977	1975	1976	1977	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>ALABAMA:</b>																	
Birmingham	2.9	2.9	3.2	1.5	1.5	1.8	1.2	1.2	3.9	3.0	3.5	1.0	1.0	1.1	2.1	1.2	1.6
Mobile <sup>2</sup>	7.7	6.7	7.3	3.3	3.0	2.3	3.6	4.8	7.3	7.8	7.2	2.1	2.3	2.1	4.5	4.7	4.4
<b>ALASKA<sup>3</sup></b>	22.0	19.7	14.7	15.6	14.6	10.6	4.6	3.7	19.3	17.3	14.3	7.9	8.3	5.9	9.7	7.5	7.2
<b>ARIZONA<sup>3</sup></b>	3.5	4.1	4.5	2.5	3.0	3.6	.8	.6	3.8	3.7	4.0	1.6	1.8	2.2	1.4	1.0	.7
Phoenix <sup>3</sup>	3.3	4.0	4.6	2.2	3.0	3.7	.8	.7	3.6	3.5	4.0	1.4	1.7	2.2	1.5	.9	.6
<b>ARKANSAS<sup>3</sup></b>	6.1	6.8	6.9	4.1	5.3	5.8	1.0	.7	6.5	6.3	6.5	3.3	4.1	4.5	2.3	1.1	.8
Fort Smith <sup>3</sup>	7.8	7.4	8.2	4.3	5.4	7.0	1.2	.4	7.0	6.9	7.5	3.1	4.1	5.4	2.7	1.2	.5
Little Rock-North Little Rock <sup>3</sup>	4.9	5.8	5.5	3.6	4.7	4.7	.9	.5	5.5	5.4	5.5	2.7	3.3	3.3	1.8	1.0	1.0
Pine Bluff <sup>3</sup>	4.1	5.9	5.3	2.8	4.6	4.1	1.0	.9	5.5	5.6	4.9	2.6	3.4	3.3	2.2	1.8	.7
<b>COLORADO<sup>4</sup></b>	3.6	(*)	(*)	2.5	(*)	(*)	(*)	(*)	4.1	(*)	(*)	1.8	(*)	(*)	1.5	(*)	(*)
Denver-Boulder <sup>4</sup>	3.1	(*)	(*)	2.2	(*)	(*)	(*)	(*)	3.9	(*)	(*)	1.8	(*)	(*)	1.4	(*)	(*)
<b>CONNECTICUT</b>	2.2	2.4	2.3	1.2	1.5	1.6	.6	.6	2.9	2.4	2.4	.8	1.0	1.0	1.3	.8	.6
Hartford	1.6	1.6	2.0	.9	1.1	1.4	(*)	.4	2.1	1.9	2.2	.7	.8	1.0	.9	.6	.5
<b>DELAWARE<sup>2</sup></b>	3.3	3.0	4.0	.8	1.3	1.3	1.1	1.9	4.0	2.9	3.4	.6	.8	.8	2.3	1.3	2.0
Wilmington <sup>2</sup>	2.9	2.8	3.9	.6	1.1	1.1	1.1	2.0	3.3	2.7	3.4	.5	.7	.7	2.1	1.3	2.1
<b>DISTRICT OF COLUMBIA:</b>																	
Washington SMSA <sup>3</sup>	1.5	1.8	(*)	1.2	1.5	(*)	.2	(*)	1.9	1.7	(*)	1.0	1.0	(*)	.4	.3	(*)
<b>FLORIDA</b>	4.7	5.0	5.3	3.3	3.8	4.3	1.0	.8	5.3	4.8	4.8	2.2	2.4	2.7	2.2	1.4	1.2
Fort Lauderdale-Hollywood	3.9	5.2	5.7	3.3	4.6	5.2	.5	.3	4.3	4.5	4.8	2.1	2.6	3.1	1.1	.7	.5
Jacksonville	5.4	4.6	5.0	3.5	3.3	3.5	1.2	1.3	5.4	4.7	4.5	2.0	2.0	1.9	2.2	1.7	1.5
Miami	4.3	4.3	5.2	3.4	3.7	4.5	.5	.6	4.5	4.0	4.6	1.9	2.1	2.6	1.9	1.1	1.1
Orlando	4.4	4.5	4.9	2.9	3.3	3.8	1.0	1.0	5.1	4.1	4.5	1.9	2.1	2.4	2.3	1.2	1.3
Pensacola	1.7	2.0	1.7	1.0	1.4	1.3	.4	.4	2.9	2.2	2.1	1.1	1.2	1.1	1.4	.5	.6
Tampa-St. Petersburg	4.9	4.9	6.1	3.5	3.7	5.0	.9	.9	5.6	5.0	5.8	2.5	2.6	3.5	2.1	1.5	1.3
West Palm Beach-Boca Raton	2.7	3.1	4.1	2.3	2.4	3.0	.6	.5	3.5	3.1	3.4	1.4	1.5	1.7	1.5	1.0	.9
<b>GEORGIA<sup>3</sup></b>	3.9	4.1	4.1	2.6	3.3	3.4	.4	.5	4.4	4.0	3.9	2.1	2.5	2.5	1.5	.6	.5
Atlanta <sup>3 5</sup>	3.2	3.4	3.6	2.0	2.6	2.8	.5	.5	3.8	3.1	3.3	1.4	1.7	1.8	1.6	.6	.7
<b>HAWAII<sup>6</sup></b>	2.2	2.4	2.5	1.6	1.3	1.5	.6	.6	2.2	2.5	2.4	1.0	.8	.9	.6	1.0	.7
<b>IDAHO<sup>7</sup></b>	6.5	6.0	6.3	4.8	4.7	4.9	.9	1.2	6.6	6.4	6.1	3.0	3.3	3.4	2.1	2.1	1.7
<b>ILLINOIS:</b>																	
Chicago SMSA <sup>8</sup>	2.5	3.1	3.2	1.6	2.3	2.5	.4	.4	3.3	2.9	3.3	1.1	1.5	1.6	1.3	.7	.7
<b>INDIANA</b>	2.9	3.2	3.3	1.1	1.9	2.2	.7	.6	3.6	3.0	3.0	.8	1.2	1.4	2.1	1.0	.9
Indianapolis <sup>3 9</sup>	2.2	2.5	2.9	.9	1.2	1.9	.4	.3	3.0	2.4	2.5	.7	.9	1.1	1.4	.6	.6
<b>IOWA<sup>3</sup></b>	3.2	3.6	3.4	2.0	2.6	2.4	.8	.7	3.8	3.3	3.2	1.5	1.8	1.6	1.7	.8	.9
Cedar Rapids <sup>3</sup>	3.2	3.2	2.6	1.3	1.9	1.4	1.1	1.0	3.3	2.6	2.3	.9	1.0	.9	1.9	1.1	1.1
Des Moines <sup>3</sup>	3.6	3.4	3.6	2.4	2.3	2.4	.6	.7	4.5	3.3	3.7	2.1	2.0	1.7	1.5	.4	1.0
<b>KANSAS</b>	3.8	4.6	4.6	3.0	3.9	3.9	.4	.5	4.6	4.8	4.3	2.4	2.9	2.9	1.4	1.0	.6
Topeka	2.6	3.7	3.6	1.8	2.7	2.8	.9	.6	3.5	3.8	3.3	1.4	1.7	1.8	1.4	1.2	.8
Wichita	3.6	4.4	4.5	3.0	3.9	3.8	.1	.4	4.0	4.4	3.9	2.4	2.6	2.7	.7	.8	.3
<b>KENTUCKY</b>	3.5	3.8	4.1	1.3	2.2	2.6	1.1	1.0	3.9	3.7	3.9	1.1	1.5	1.8	2.3	1.3	1.1
Louisville	2.7	2.5	2.7	1.0	1.2	1.4	.7	.7	3.1	2.5	2.3	.6	.7	.8	1.3	.8	.5
<b>LOUISIANA:</b>																	
New Orleans <sup>3</sup>	4.1	3.7	4.3	3.2	2.9	3.3	.5	.6	4.5	4.0	4.2	2.0	2.1	2.2	1.3	.9	.9
<b>MAINE<sup>3</sup></b>	5.9	6.2	6.1	3.7	4.4	4.6	1.4	1.2	6.1	5.9	5.7	2.5	3.2	3.2	2.8	1.9	1.5
Portland <sup>3</sup>	2.9	3.3	3.6	2.1	2.7	2.9	.4	.5	3.8	3.8	3.5	1.6	2.1	2.1	1.6	.9	.7
<b>MARYLAND</b>	3.6	3.1	3.2	1.5	1.8	1.8	1.2	1.3	4.1	3.1	3.2	1.0	1.1	1.1	2.4	1.4	1.5
Baltimore	3.6	2.8	3.1	1.4	1.5	1.6	1.1	1.4	4.1	3.0	3.1	.9	.9	.9	2.5	1.4	1.5
<b>MASSACHUSETTS</b>	3.2	3.5	3.7	1.7	2.4	2.5	.9	.9	3.8	3.4	3.5	1.1	1.4	1.6	2.0	1.2	1.2
Boston <sup>3</sup>	2.8	2.9	3.1	1.6	2.0	2.2	.6	.7	3.5	3.0	3.1	1.0	1.2	1.3	1.7	1.1	1.0
<b>MICHIGAN<sup>3</sup></b>	3.4	3.1	3.0	.7	1.7	1.8	.8	.6	4.6	2.7	2.8	.6	.8	.9	3.2	1.1	1.1
Detroit <sup>3</sup>	3.1	3.1	3.2	.7	1.8	2.0	.6	.6	4.8	2.8	2.9	.7	.9	1.1	3.2	1.1	1.0
Flint <sup>3</sup>	-	2.4	2.0	-	1.6	1.4	.1	.1	-	1.7	2.7	-	.5	.5	-	.4	1.3
Grand Rapids <sup>3</sup>	-	4.2	4.0	-	2.1	2.3	1.7	1.1	-	4.0	3.3	-	1.2	1.3	-	1.8	1.0
Lansing-East Lansing <sup>3</sup>	-	3.6	4.6	-	2.3	2.4	.8	1.4	-	2.8	6.6	-	.9	.8	-	.6	3.9

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 <sup>1</sup>			Total			Quits			Layoffs		
	1975	1976	1977	1975	1976	1977	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977	
<b>MINNESOTA</b> <sup>3</sup>	3.3	3.8	3.9	2.1	2.8	2.9	0.8	0.9	3.9	3.7	3.6	1.6	1.8	1.9	1.7	1.3	1.6	
Minneapolis—St. Paul <sup>3</sup>	2.3	2.9	3.1	1.4	2.1	2.4	.6	.6	2.9	2.7	2.8	1.2	1.4	1.6	1.2	.7	.6	
<b>MISSISSIPPI:</b>																		
Jackson	4.1	3.7	3.9	3.2	2.8	2.9	.5	.7	3.9	3.4	3.6	1.9	1.9	2.2	1.2	.8	.6	
<b>MISSOURI</b> <sup>3</sup>	3.4	3.6	3.7	1.8	2.4	2.7	.8	.7	4.1	3.4	3.4	1.4	1.7	1.7	2.0	1.0	1.0	
Kansas City <sup>3</sup>	3.0	3.2	3.6	2.0	2.4	2.8	.6	.7	4.0	3.4	3.3	1.4	1.6	1.7	1.9	1.0	.8	
St. Louis <sup>3</sup>	2.9	2.8	2.8	1.2	1.6	1.8	1.0	.8	3.9	2.8	2.7	.8	.9	1.0	2.3	1.2	1.0	
<b>MONTANA</b> <sup>3</sup>	3.7	3.5	(*)	2.7	2.9	(*)	(*)	(*)	3.8	3.0	(*)	1.6	2.4	(*)	1.5	.8	(*)	
<b>NEBRASKA</b>	3.7	4.5	4.3	2.6	3.6	3.6	.7	.6	4.4	4.3	4.2	2.1	2.6	2.6	1.6	.9	.8	
<b>NEVADA</b>	5.9	6.4	6.6	5.0	5.5	5.5	.5	.5	5.4	6.1	6.3	2.5	3.4	3.5	1.4	1.1	1.0	
<b>NEW HAMPSHIRE</b>	4.4	3.9	4.0	2.4	3.1	3.1	.5	.5	3.8	3.6	3.6	1.7	2.3	2.3	1.5	.6	.6	
<b>NEW JERSEY:</b>																		
Camden <sup>3 10</sup>	3.3	3.0	3.1	1.6	1.9	1.8	.8	.9	3.7	3.2	3.0	.8	.9	.9	2.0	1.5	1.2	
Hackensack <sup>3</sup>	3.3	3.7	4.0	2.0	2.6	2.9	.9	1.0	4.1	3.9	4.1	1.2	1.5	1.6	2.1	1.5	1.4	
Jersey City <sup>3</sup>	3.7	3.7	3.6	1.9	2.0	2.1	1.4	1.4	4.7	4.6	3.8	.8	1.0	.9	3.0	2.7	2.0	
Newark <sup>3</sup>	2.6	3.2	3.2	1.5	2.0	2.1	.8	.9	3.7	3.1	3.0	1.0	1.1	1.1	1.9	1.3	1.1	
New Brunswick—Perth Amboy—Sayreville <sup>3</sup>	3.2	3.7	4.1	1.5	2.2	2.8	.9	1.0	4.4	4.0	3.7	.8	1.1	1.3	2.6	1.8	1.2	
Paterson—Clifton—Passaic <sup>3</sup>	3.9	4.0	4.1	1.7	2.4	2.6	1.3	1.2	4.7	4.0	4.4	.9	1.3	1.4	3.0	1.9	1.8	
Trenton <sup>3</sup>	2.6	2.6	2.9	1.3	1.9	1.9	.5	.7	3.0	2.5	2.8	.8	.9	.9	1.4	.8	1.0	
<b>NEW YORK</b> <sup>3</sup>	3.8	3.8	3.8	1.7	2.1	2.2	1.5	1.4	4.3	3.9	3.8	.9	1.1	1.2	2.7	2.0	1.8	
Albany—Schenectady—Troy <sup>3</sup>	2.6	2.8	2.7	.9	1.6	1.5	.7	.7	3.2	2.5	2.7	.7	.7	.8	1.7	.9	.9	
Binghamton <sup>3</sup>	1.8	2.6	3.1	.9	1.5	2.2	.8	.7	2.3	2.5	2.8	.7	.9	1.3	.9	.9	.9	
Buffalo <sup>3</sup>	3.7	3.0	2.9	.8	1.2	1.3	1.5	1.2	4.3	2.8	2.9	.5	.5	.6	3.2	1.5	1.4	
Elmira <sup>3</sup>	2.5	3.0	2.4	1.1	1.6	1.5	1.1	.6	3.4	4.0	2.4	.7	.7	.8	1.7	2.3	.7	
Monroe County <sup>3 11</sup>	1.7	2.0	1.8	1.0	1.6	1.3	.3	.2	2.3	1.8	1.8	.7	.8	.8	1.2	.5	.5	
Nassau—Suffolk <sup>3 12</sup>	3.7	4.2	4.6	2.5	3.1	3.5	1.0	1.0	4.2	4.3	4.5	1.3	1.8	2.0	2.2	1.7	1.4	
New York and Nassau—Suffolk <sup>3</sup>	4.6	4.6	4.6	2.4	2.7	2.7	1.8	1.8	4.9	4.8	4.6	1.1	1.3	1.3	3.2	2.6	2.4	
New York SMSA <sup>3 12</sup>	4.8	4.7	4.6	2.3	2.6	2.5	1.9	1.9	5.1	4.9	4.6	1.0	1.2	1.1	3.4	2.8	2.7	
New York City <sup>3 13</sup>	5.1	4.9	4.9	2.4	2.7	2.6	2.1	2.2	5.4	5.1	5.0	1.0	1.2	1.2	3.7	3.1	2.9	
Rochester <sup>3</sup>	2.3	2.5	2.4	1.3	1.8	1.7	.5	.5	2.8	2.3	2.4	.8	.9	.9	1.5	.9	.8	
Syracuse <sup>3</sup>	2.6	2.6	2.8	.9	1.4	1.7	.9	.8	3.6	2.5	2.7	.7	.9	1.0	2.2	.9	1.0	
Utica—Rome <sup>3</sup>	2.9	2.8	3.3	1.1	1.4	1.8	1.3	1.3	4.0	2.9	3.2	.7	.7	1.0	2.9	1.6	1.6	
Westchester County <sup>3 13</sup>	2.7	2.9	2.9	1.4	1.8	2.1	.9	.6	3.0	2.9	2.6	.8	1.0	1.0	1.5	1.0	.8	
<b>NORTH CAROLINA</b>	3.8	4.3	4.3	2.8	3.5	3.6	.4	.4	4.0	4.3	4.2	2.2	2.8	2.9	1.0	.6	.4	
Charlotte—Gastonia	3.7	4.2	4.9	2.9	3.6	4.2	.2	.2	3.9	4.3	4.7	2.3	3.0	3.5	.7	.5	.3	
Greensboro—Winston-Salem—High Point	3.5	4.1	4.2	2.8	3.5	3.6	.2	.2	3.8	4.0	4.0	2.1	2.7	2.8	.9	.4	.4	
<b>NORTH DAKOTA</b>	5.9	4.9	(*)	4.6	3.5	(*)	1.1	(*)	6.7	5.3	(*)	3.7	3.1	(*)	2.1	1.5	(*)	
Fargo—Moorhead	5.5	6.1	(*)	3.7	4.2	(*)	1.4	(*)	5.8	6.3	(*)	2.8	2.8	(*)	2.3	2.5	(*)	
<b>OHIO</b>	2.8	2.8	2.9	.9	1.5	1.7	(*)	(*)	3.6	2.7	2.8	.6	.9	1.0	2.2	1.1	1.0	
Akron	1.5	1.7	1.8	.5	.8	1.0	(*)	(*)	2.3	1.8	1.7	.4	.5	.6	1.4	.8	.6	
Canton	3.1	3.0	3.0	.9	1.0	1.5	(*)	(*)	4.1	3.1	2.9	.6	.8	.8	2.6	1.9	1.1	
Cincinnati	2.3	2.6	2.8	1.1	1.6	1.6	(*)	(*)	2.9	2.4	2.6	.8	.9	1.0	1.4	.8	.9	
Cleveland	2.5	2.6	2.8	1.0	1.6	1.9	(*)	(*)	3.4	2.4	2.6	.7	1.0	1.1	1.8	.7	.6	
Columbus	2.4	2.4	2.8	.8	1.5	1.8	(*)	(*)	3.2	2.2	2.6	.7	.9	1.0	1.9	.7	.8	
Dayton	2.5	2.4	2.5	.7	1.4	1.8	(*)	(*)	3.5	2.1	2.1	.6	.7	.9	2.0	.6	.4	
Toledo	3.4	2.6	2.7	.9	1.3	1.4	(*)	(*)	3.7	2.6	2.4	.6	.8	.8	2.1	1.0	.9	
Youngstown—Warren	3.1	3.0	3.2	.4	.6	.7	(*)	(*)	4.1	3.6	3.3	.4	.4	.4	2.8	2.2	1.8	
<b>OKLAHOMA</b>	4.8	5.4	6.0	4.1	4.6	5.2	.6	.6	5.1	5.1	5.6	3.2	3.5	3.9	1.0	1.7	.7	
Oklahoma City	4.4	5.1	6.0	3.4	4.2	5.3	.7	.6	5.2	4.7	5.3	2.9	3.1	3.8	1.4	.8	.6	
Tulsa <sup>14</sup>	5.0	4.9	5.5	4.4	4.3	4.9	.5	.4	5.3	5.1	5.1	3.2	3.2	3.5	1.0	.8	.5	
<b>OREGON</b> <sup>1 3</sup>	4.5	4.9	4.8	2.9	3.7	3.7	1.0	.9	4.6	4.5	4.4	1.9	2.3	2.3	1.9	1.3	1.2	
Portland <sup>1 3</sup>	4.0	4.6	4.8	2.5	3.3	3.7	1.1	.9	4.4	4.2	4.1	1.6	2.0	2.1	2.1	1.4	1.2	
<b>PENNSYLVANIA</b>	3.3	3.3	3.4	1.4	1.5	1.7	1.5	1.5	3.9	3.5	3.5	.8	.9	1.0	2.3	1.9	1.8	
Allentown—Bethlehem—Easton	3.2	3.2	3.0	1.1	1.3	1.5	1.7	1.3	3.6	3.5	3.1	.8	.9	.9	2.4	2.0	1.5	
Altoona	4.0	3.9	4.3	1.8	2.3	2.1	1.4	2.0	4.7	4.1	4.0	1.3	1.7	1.6	3.0	1.8	1.8	
Erie	3.0	2.8	3.6	1.1	1.1	1.8	1.3	1.4	4.5	3.3	3.2	.9	.8	1.0	2.5	1.7	1.4	
Harrisburg	3.0	3.1	3.4	1.3	1.8	1.9	1.1	1.3	3.2	3.0	3.5	1.0	1.3	1.3	1.7	1.2	1.6	
Johnstown	2.5	3.6	3.8	1.1	1.0	1.3	2.0	2.3	3.0	4.2	4.6	.8	.8	.9	1.7	2.4	3.2	
Lancaster	2.7	2.8	3.1	1.4	1.9	2.3	.6	.7	3.3	2.4	3.1	1.2	1.3	1.6	1.6	.6	1.0	

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 <sup>1</sup>		Total			Quits			Layoffs		
	1975	1976	1977	1975	1976	1977	1976	1977	1975	1976	1977	1975	1976	1977	1975	1976	1977
<b>PENNSYLVANIA—Continued</b>																	
Northeast Pennsylvania .....	4.8	4.5	4.1	1.3	1.6	1.6	2.5	2.1	5.5	5.0	4.3	0.9	1.1	1.0	4.0	3.3	2.7
Philadelphia SMSA .....	2.9	2.9	3.0	1.3	1.7	1.7	.9	1.1	3.6	2.7	3.1	.8	.9	.9	2.1	1.3	1.4
Pittsburgh .....	3.1	3.1	3.1	.8	.9	1.0	2.0	1.8	4.0	3.4	3.1	.5	.5	.5	2.7	2.2	1.9
Reading .....	3.2	3.6	3.7	1.5	1.9	2.3	1.5	1.3	4.0	3.3	3.7	.9	1.2	1.4	2.6	1.5	1.7
Scranton <sup>15</sup> .....	4.2	4.6	3.9	1.6	1.9	1.8	2.6	1.7	4.8	5.2	3.5	.8	1.2	1.2	3.6	3.5	1.8
Wilkes-Barre—Hazleton <sup>15</sup> .....	5.4	4.5	4.2	1.3	1.5	1.3	2.4	2.2	6.0	5.1	4.9	1.0	1.1	1.0	4.2	3.2	3.2
Williamsport .....	3.3	2.8	2.7	1.5	1.4	1.5	1.2	1.1	3.7	2.8	2.4	.8	.8	.8	2.4	1.4	1.2
York .....	3.7	3.8	3.9	1.9	2.3	2.7	1.3	1.1	4.4	3.9	3.3	1.3	1.5	1.6	2.4	1.7	1.1
<b>RHODE ISLAND<sup>3</sup></b>																	
Providence—Warwick—Pawtucket <sup>3</sup> .....	5.0	5.4	5.3	2.9	4.0	4.0	1.1	.9	5.5	5.1	5.1	1.7	2.6	2.8	2.9	1.5	1.3
.....	5.0	5.4	5.2	2.8	4.0	4.0	1.1	1.0	5.5	5.0	5.0	1.8	2.5	2.7	2.9	1.5	1.4
<b>SOUTH CAROLINA</b>																	
Charleston—North Charleston .....	4.0	4.2	3.9	2.9	3.5	3.2	.3	.5	4.1	4.0	3.9	2.3	2.8	2.5	1.0	.3	.6
Columbia .....	3.7	4.9	4.5	2.8	3.9	3.4	.7	1.0	4.2	4.7	4.7	2.1	2.5	2.3	1.0	.9	1.2
Greenville—Spartanburg .....	3.6	3.9	4.5	2.3	3.2	3.9	.5	.3	4.5	3.6	3.9	2.0	2.3	2.5	1.7	.5	.6
.....	4.4	4.9	4.0	3.3	4.3	3.5	.2	.2	4.7	4.6	4.2	2.6	3.2	2.7	1.0	.3	.4
<b>SOUTH DAKOTA</b>																	
Sioux Falls .....	4.0	5.1	(*)	3.0	4.1	(*)	.8	(*)	4.2	4.4	(*)	2.1	2.8	(*)	1.4	.9	(*)
.....	2.9	4.0	(*)	1.1	2.9	(*)	1.0	(*)	3.2	3.5	(*)	1.0	1.8	(*)	1.8	1.1	(*)
<b>TENNESSEE:</b>																	
Memphis .....	3.7	3.8	3.9	2.3	2.6	3.0	.9	.6	3.8	3.9	3.5	1.4	1.6	1.7	1.4	1.2	.8
<b>TEXAS:</b>																	
Dallas—Fort Worth .....	3.9	4.6	5.0	3.2	4.1	4.5	.3	.4	3.9	4.2	4.6	2.2	2.7	3.2	.8	.5	.5
Houston .....	4.0	4.0	4.1	3.6	3.6	3.7	.2	.2	3.9	3.8	3.8	2.5	2.5	2.6	.4	.4	.3
San Antonio .....	3.7	4.5	4.3	3.3	4.0	3.8	.3	.4	4.1	4.2	4.1	2.5	2.8	2.7	.8	.5	.5
<b>UTAH<sup>3 6</sup></b>																	
Salt Lake City—Ogden <sup>3 6</sup> .....	4.3	5.2	5.2	3.4	4.2	4.4	.5	.5	4.6	4.5	5.0	2.5	3.0	3.2	1.2	.7	.9
.....	3.9	4.6	4.9	3.4	4.1	4.4	.2	.3	4.2	4.4	4.6	2.6	3.0	3.1	.8	.5	.5
<b>VERMONT</b>																	
Burlington .....	3.5	3.7	4.2	1.3	1.9	2.6	1.4	1.4	3.9	3.5	3.7	1.0	1.3	1.5	2.4	1.6	1.6
Springfield .....	1.8	2.1	2.9	.6	1.2	2.0	.4	.6	1.5	1.4	2.0	.4	.5	.6	.8	.5	1.1
.....	2.1	3.2	3.4	.7	1.1	2.0	1.9	1.3	3.7	3.1	2.8	.5	.6	.9	2.7	1.5	1.4
<b>VIRGINIA</b>																	
Richmond .....	3.2	3.4	3.5	1.9	2.5	2.7	.5	.6	3.5	3.2	3.3	1.4	1.8	1.9	1.4	.6	.6
.....	2.4	2.3	2.0	1.7	1.7	1.5	.2	.3	2.7	2.1	2.0	1.0	1.0	.9	.9	.3	.4
<b>WASHINGTON:</b>																	
Seattle—Everett <sup>3 16</sup> .....	2.8	3.9	4.0	1.8	2.4	2.6	1.4	1.1	3.9	3.6	3.2	1.2	1.3	1.4	2.0	1.6	1.2
<b>WISCONSIN</b>																	
Milwaukee .....	3.3	3.1	3.2	1.6	1.9	2.1	.8	.7	3.8	3.0	3.0	1.0	1.1	1.3	2.0	1.2	.9
.....	2.7	2.7	2.9	1.3	1.5	1.8	.7	.6	3.3	2.7	2.6	.9	.9	1.0	1.6	.9	.7
<b>WYOMING</b>																	
.....	6.6	6.3	7.3	5.7	4.9	6.2	1.3	1.1	7.8	6.1	7.3	4.0	3.8	4.4	2.3	1.0	1.6

<sup>1</sup> The earliest year of availability for recall rates is 1976.

<sup>2</sup> Excludes canning and preserving.

<sup>3</sup> Based on the 1972 Standard Industrial Classification Manual beginning 1976; not strictly comparable with previous years.

<sup>4</sup> Based on the 1967 Standard Industrial Classification Manual.

<sup>5</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>6</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>7</sup> Excludes canning and preserving, and sugar.

<sup>8</sup> Based on the 1972 Standard Industrial Classification Manual beginning 1977; not strictly comparable with previous years.

<sup>9</sup> Excludes canning and preserving, and newspapers.

<sup>10</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

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

<sup>12</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>13</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>14</sup> Excludes new-hire rate for transportation equipment.

<sup>15</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>16</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, Staff-  
 ord, 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  
 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, Thoma-  
 ston, 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

Fort Lauderdale-  
 Hollywood.....Broward 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  
 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  
 Peoria.....Peoria, Tazewell, and Woodford Counties  
 Rockford.....Boone and Winnebago Counties  
 Springfield.....Menard and Sangamon Counties

### INDIANA

Anderson.....Madison County  
 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

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

**Area Definitions--Continued**

**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, Caldo, 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, Scarbo-  
 rough, 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, Water-  
 town, Wayland, Weston, Wilmington, and  
 Winchester towns in Middlesex County;  
 Beverly, Lynn, Peabody, and Salem cities,  
 and Boxford, Danvers, Hamilton, Lynnfield,  
 Manchester, Marblehead, Middleton,  
 Nahant, Saugus, Swampscott, Topsfield,  
 and Weuham towns in Essex County;  
 Quincy city, and Bellingham, Braintree,  
 Brookline, Canton, Cohasset, Dedham,  
 Dover, Foxborough, Franklin, Holbrook,  
 Medfield, Medway, Millis, Milton, Need-  
 ham, Norfolk, Norwood, Randolph, Sharon,  
 Stoughton, Walpole, Wellesley, Westwood,  
 Weymouth, and Wrentham towns in Norfolk  
 County; Abington, Duxbury, Hanover,  
 Hanson, Hingham, Hull, Kingston, Marsh-  
 field, Norwell, Prembroke, Rockland, and  
 Scituate towns in Plymouth County  
 Brockton ..... Brockton city, and Bridgewater, East Bridge-  
 water, 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, Grove-  
 land, Merrimac, Methuen, North Andover,  
 Salisbury, and West Newbury towns in  
 Essex County, Mass.; Atkinson, Hampstead,  
 Kingstun, Newton, Plaistow, Salem, and  
 Windham towns in Rockingham County, N. H.  
 Lowell ..... Lowell city, and Billerica, Chelmsford,  
 Dracut, Dunstable, Twerksbury, Tyngsbo-  
 rough, and Westford towns in Middlesex  
 County  
 New Bedford ..... New Bedford city, and Acushnet, Dartmouth,  
 Fairhaven, and Freetown towns in Bristol  
 County; Lakeville, Marion, Mattapoisett,  
 and Rochester towns in Plymouth County  
 Springfield-Chicopee-  
 Holyoke ..... Chicopee, Holyoke, Springfield, and West-  
 field cities, and Agawam, Brimfield, East  
 Longmeadow, Granville, Hampden, Long-  
 meadow, 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

**MASSACHUSETTS--Continued**

Worcester ..... Worcester city, and Auburn, Berlin, Boylston,  
 Brookfield, Charlton, Douglas, East Brook-  
 field, 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  
 Lansing-East Lansing ..... Clinton, Eaton, Ingham, and Ionia  
 Counties  
 Muskegon-Norton  
 Shores-Muskegon  
 Heights ..... Muskegon and Oceana Counties  
 Saginaw ..... Saginaw County

**MINNESOTA**

Duluth-Superior ..... Duluth city, Minn.; Douglas County, Wisc.  
 Minneapolis-St. Paul ..... Anoka, Carver, Chisago, Dakota,  
 Hennepin, Ramsey, Scott, Washington,  
 and Wright Counties

**MISSISSIPPI**

Jackson ..... Hinds and Rankin Counties

**MISSOURI**

Kansas City ..... Cass, Clay, Jackson, Platte, and Ray  
 Counties, Mo.; Johnson and Wyandotte  
 Counties, Kans.  
 St. Joseph ..... Andrew and Buchanan Counties  
 St. Louis ..... St. Louis city, and Franklin, Jefferson, St.  
 Charles, and St. Louis Counties, Mo.;  
 Clinton, Madison, Monroe, and St. Clair  
 Counties, Ill.  
 Springfield ..... Christian and Greene Counties

**MONTANA**

Billings ..... Yellowstone County  
 Great Falls ..... Cascade County

**NEBRASKA**

Lincoln ..... Lancaster County  
 Omaha ..... Douglas and Sarpy Counties, Nebr.;  
 Pottawattamie County, Iowa

**NEVADA**

Las Vegas ..... Clark County; Beatty Township in Nye  
 County  
 Reno ..... Washoe County

**NEW HAMPSHIRE**

Manchester ..... Manchester city, and Bedford and Goffstown  
 towns in Hillsborough County; Allenstown,  
 Hooksett, and Pembroke towns in Merrimack  
 County; Derry and Londerry towns in Rocking-  
 ham County  
 Nashua ..... Nashua city, and Amherst, Hudson,  
 Merrimack, Milford, and Pelham towns  
 in Hillsboro County

**NEW JERSEY**

Atlantic City ..... Atlantic County  
 Camden ..... Burlington, Camden, and Gloucester  
 Counties  
 Hackensack ..... Bergen County  
 Jersey City ..... Hudson County  
 Long Branch-  
 Asbury Park ..... Monmouth County  
 New Brunswick-Perth  
 Amboy-Sayreville ..... Middlesex County  
 Newark ..... Essex, Morris, Somerset, and Union  
 Counties

## Area Definitions--Continued

### NEW JERSEY--Continued

Paterson-Clifton-  
Passaic.....Passaic County  
Trenton.....Mercer County  
Vineland-Millville-  
Bridge-ton.....Cumberland County

### NEW MEXICO

Albuquerque.....Bernalillo and Sandoval Counties

### NEW YORK

Albany-Schenectady-  
Troy.....Albany, Montgomery, Rensselaer,  
Saratoga, and Schenectady Counties  
Binghamton.....Broome and Tioga Counties, N. Y.;  
Susquehanna County, Pa.  
Buffalo.....Erie and Niagara Counties  
Elmira.....Chemung County  
Monroe County.....Monroe County  
Nassau-Suffolk.....Nassau and Suffolk Counties  
New York-  
Northeastern  
New Jersey.....A consolidated area comprised of New  
York, N. Y. SMSA; Nassau-Suffolk, N. Y.  
SMSA; Newark, N. J. SMSA; New Bruns-  
wick-Perth Amboy-Sayreville, N. J.  
SMSA; Jersey City, N. J. SMSA;  
Paterson-Clifton-Passaic, N. J. SMSA;  
and the Hackensack, N. J. area  
New York and Nassau-  
Suffolk.....New York City, and Nassau, Putnam,  
Rockland, Suffolk, and Westchester  
Counties  
New York SMSA.....New York City, and Putnam, Rockland  
and Westchester Counties  
New York City.....Bronx, Kings, New York, Queens, and  
Richmond Counties  
Poughkeepsie.....Dutchess County  
Rochester.....Livingston, Monroe, Ontario, Orleans,  
and Wayne Counties  
Rockland County.....Rockland County  
Syracuse.....Madison, Onondaga, and Oswego Counties  
Utica-Rome.....Herkimer and Oneida Counties  
Westchester County...Westchester County

### NORTH CAROLINA

Asheville.....Buncombe and Madison Counties  
Charlotte-Gastonia....Gaston, Mecklenburg, and Union Counties  
Greensboro-Winston-  
Salem-High Point...Davidson, Forsyth, Guilford, Randolph,  
Stokes, and Yadkin Counties  
Raleigh-Durham.....Durham, Orange, and Wake Counties

### NORTH DAKOTA

Fargo-Moorhead.....Cass County, N. D.; Clay County, Minn.

### OHIO

Akron.....Portage and Summit Counties  
Canton.....Carroll and Stark Counties  
Cincinnati.....Clermont, Hamilton, and Warren Counties,  
Ohio; Boone, Campbell, and Kenton  
Counties, Ky.; Dearborn County, Ind.  
Cleveland.....Cuyahoga, Geauga, Lake, and Medina  
Counties  
Columbus.....Delaware, Fairfield, Franklin, Madison,  
and Pickaway Counties  
Dayton.....Greene, Miami, Montgomery, and Preble  
Counties  
Toledo.....Fulton, Lucas, Ottawa, and Wood Counties,  
Ohio; Monroe County, Mich.  
Youngstown-Warren...Mahoning and Trumbull Counties

### OKLAHOMA

Oklahoma City.....Canadian, Cleveland, McClain, Oklahoma,  
and Pottawatomie Counties  
Tulsa.....Creek, Mayes, Osage, Rogers, Tulsa,  
and Wagoner Counties

### OREGON

Eugene-Springfield...Lane County  
Jackson County.....Jackson County  
Portland.....Clackamas, Multnomah, and Washington  
Counties, Oreg.; Clark County, Wash.  
Salem.....Marion and Polk Counties

### PENNSYLVANIA

Allentown-Bethlehem-  
Easton.....Carbon, Lehigh, and Northampton  
Counties, Pa.; Warren County, N. J.  
Altoona.....Blair County  
Delaware Valley.....Bucks, Chester, Delaware, Montgomery,  
and Philadelphia Counties  
Erie.....Erie County

### PENNSYLVANIA--Continued

Harrisburg.....Cumberland, Dauphin, and Perry  
Counties  
Johnstown.....Cambria and Somerset Counties  
Lancaster.....Lancaster County  
Northeast-  
Pennsylvania.....Lackawanna, Luzerne, and Monroe  
Counties  
Philadelphia SMSA .... Bucks, Chester, Delaware, Montgomery,  
and Philadelphia Counties, Pa.; Burling-  
ton, 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 Burrillville, Cumberland,  
Foster, Glocester, Johnston, Lincoln,  
North Providence, North Smithfield,  
Scituate, and Smithfield towns in  
Providence County, R. I.; Exeter,  
Narragansett, North Kingstown, Richmond,  
and South Kingstown 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 Dorchester  
Counties  
Columbia.....Lexington and Richland Counties  
Greenville-  
Spartanburg.....Greenville, Pickens, and Spartanburg  
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 and Travis 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  
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



## Area Definitions--Continued

**VERMONT--Continued**

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 Washington Counties

Lynchburg..... Lynchburg city, and Amherst, Appomattox, and Campbell Counties

Newport News-Hampton..... Hampton, Newport News, Poquoson, and Williamsburg cities, and 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 terms 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 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 are observed 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, Eskimos, Orientals, and all other "nonwhite" 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*.

#### 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. The most 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 average estimates for States, was incorporated with the existing design.

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.

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.

## 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 sample, 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 contribution to 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 applied within each State that contains nonsample areas and takes into account the differences that existed at the time of the 1970 census in the distribution by race and residence of the population in sample areas and the known race-residence distribution in the portions of the State represented by these areas.

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.

The approximate magnitude of two sources of undercoverage of housing units is known. Of the 83,000,000 housing units in the U.S. about 600,000 new construction housing units, other than mobile homes, are not represented in the CPS sample because they were assigned building permits prior to the 1970 census but building was not completed by the time of the census, (i.e., April 1970). Most conventional new construction, for which building permits were issued after the census, is represented. About 290,000 occupied mobile homes are not represented in the CPS; these units were either missed in the census or have been built or occupied since the census. These estimates of missed units are relevant to the present sample only and not to earlier designs where the extent of undercoverage was generally less. The extent of other sources of undercoverage of housing units is unknown but believed to be small.

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailer, Proceedings of the Annual Meetings of the American Statistical Association, Social Statistics Section, Chicago, Illinois, August 1977; 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.** Since the estimates are based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and enumerators. 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 chances are about 68 out of 100 that an estimate from the survey differs from a complete census figure by less than the standard error. The chances are about 95 out of 100 that the differences would be less than twice the standard error.

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 over other time periods are subject to higher standard errors. For years prior to 1967, the standard errors must be adjusted due to differences in sample size. For years before 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

*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. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 150,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. 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.

**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)
<i>(In thousands)</i>		
Total, 16 years and over:		
Civilian labor force . . . . .	226	173
Employed . . . . .	239	182
Unemployed . . . . .	112	115
Males, 20 years and over:		
Civilian labor force . . . . .	127	111
Employed . . . . .	138	121
Unemployed . . . . .	70	73
Females, 20 years and over:		
Civilian labor force . . . . .	176	129
Employed . . . . .	174	131
Unemployed . . . . .	70	73
Both sexes, 16-19 years:		
Civilian labor force . . . . .	80	85
Employed . . . . .	85	94
Unemployed . . . . .	57	70
Black and other, 16 years and over:		
Civilian labor force . . . . .	80	61
Employed . . . . .	87	66
Unemployed . . . . .	55	58
Males, 20 years and over:		
Civilian labor force . . . . .	47	41
Employed . . . . .	52	46
Unemployed . . . . .	35	38
Females, 20 years and over:		
Civilian labor force . . . . .	62	48
Employed . . . . .	62	49
Unemployed . . . . .	35	38
Both sexes, 16-19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	35
Unemployed . . . . .	28	31

**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	.12	<b>OCCUPATION—Continued</b>		
Males, 20 years and over . . . . .	.13	.14	<b>Blue-collar workers—Continued</b>		
Females, 20 years and over . . . . .	.19	.20	Operatives, except transport . . . . .	.40	.45
Both sexes, 16-19 years . . . . .	.56	.67	Transport equipment operatives . . . . .	.53	.60
White workers . . . . .	.11	.12	Nonfarm laborers . . . . .	.61	.70
Black (and other) workers . . . . .	.48	.55	Service workers . . . . .	.32	.36
Married men, spouse present . . . . .	.13	.14	Farm workers . . . . .	.56	.63
Married women, spouse present . . . . .	.23	.25			
Full-time workers . . . . .	.12	.12	<b>INDUSTRY</b>		
Part-time workers . . . . .	.34	.42	Nonagricultural private wage and salary workers . . . . .	.13	.14
Unemployed 15 weeks and over . . . . .	.06	.08	Construction . . . . .	.54	.61
<b>OCCUPATION</b>			Manufacturing . . . . .	.24	.26
White-collar workers . . . . .	.13	.14	Durable goods . . . . .	.30	.34
Professional and technical . . . . .	.20	.22	Non-durable goods . . . . .	.40	.45
Managers and administrators, except farm . . . . .	.22	.24	Transportation and public utilities . . . . .	.39	.44
Sales workers . . . . .	.40	.44	Wholesale and retail trade . . . . .	.26	.29
Clerical workers . . . . .	.25	.28	Finance and service industries . . . . .	.18	.20
Blue-collar workers . . . . .	.21	.23	Government workers . . . . .	.22	.24
Craft and kindred workers . . . . .	.28	.31	Agricultural wage and salary workers . . . . .	1.10	1.26

**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

# 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 for use in preparing the national series.

### Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Monthly Report on Employment, Payroll, and Hours; and Form DL 1219—Monthly Report on Labor Turnover. These schedules are of the "shuttle" type, with space for each month of the calendar year. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered. This procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures he has 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 most important product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for a few States and areas are classified in accordance with the 1967 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. Most States and areas have converted their series to the 1972 SICM.

### 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.

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 and 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 contract 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 contract construction division: Working supervisors, qualified craft workers, mechanic's 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 similar occupational levels, and other employees 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, reflecting 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. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. 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 causes, 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 service 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 the portion of the gross average weekly hours which were in excess of regular hours and for which overtime premiums were paid. If an employee worked 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 service 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.

**Railroad hours and earnings.** The figures for class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. 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 and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. 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 either none 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, use the unrevised CPI-W as the deflator, whereas those for January 1978, forward use the revised CPI-W as the deflator.

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 data 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, 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 1. Summary of methods for

**Table 1. Summary of methods for computing industry statistics on employment, hours, 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.	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) ratio of women to all employees.	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	Average, weighted by production or nonsupervisory employment, of the average weekly hours for component cells
Average weekly overtime hours .....	Production worker overtime hours divided by number of production workers.	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.	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 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.
Gross average hourly earnings .....	Annual total of aggregate payrolls (production or nonsupervisory worker employment multiplied by weekly 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 aggregate (of each labor turnover action) divided by annual sum of employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

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

**Size and regional stratification**

A number of industries are stratified by size of establishment end/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 1974 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 relating to the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions due to benchmark adjustment for the last 3 years is shown in table J.

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,



**Table J. Nonagricultural payroll employment estimates, by industry divisions, as a percentage of the benchmark for 1971, 1973, and 1974**

Industry division	1971	1973 <sup>1</sup>	1974
Total .....	100.2	98.4	99.9
Mining .....	99.8	96.5	97.0
Contract construction .....	96.9	90.4	100.6
Manufacturing .....	100.4	98.9	99.9
Transportation and public utilities ..	100.9	99.3	100.0
Wholesale and retail trade .....	100.3	97.8	100.1
Finance, insurance, and real estate .....	100.2	99.5	98.9
Services .....	100.4	99.1	99.3
Government .....	100.0	99.5	100.6

<sup>1</sup> 2-year revision.

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. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

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 accept samples in these divisions with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than 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 K 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 L 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

**Table K. Approximate size and coverage of BLS employment and payrolls sample, March 1974<sup>1</sup>**

Industry division	Number of establishments in samples	Employees	
		Number reported	Percent of total
Total .....	158,400	31,637,000	41
Mining .....	2,100	307,000	46
Contract construction ...	16,500	771,000	20
Manufacturing .....	47,000	11,821,000	59
Transportation and public utilities:			
Railroad transportation (ICC) .....	95	537,000	94
Other transportation and public utilities ..	7,300	2,181,000	53
Wholesale and retail trade .....	38,200	3,050,000	18
Finance, insurance, and real estate .....	10,100	1,507,000	36
Services .....	23,500	2,740,000	20
Government:			
Federal (Civil Service Commission) <sup>2</sup> .....	3,200	2,691,000	100
State and local .....	10,400	6,032,000	52

<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 3,200 reports covering about 53 percent of employment in Federal establishments.

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. Improvements brought about by the most recent expansion in unemployment insurance coverage were the major cause of differences in the March 1973 benchmark adjustments. (See article by Carol M. Utter, "BLS Establishment Estimates Revised to March 1973 Benchmark Levels," in the December 1974 issue.) Table M presents the average percent revisions of the 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.

**Table L. Approximate size and coverage of BLS labor turnover sample, March 1974**

Industry	Employees	
	Number reported	Percent of total
Total .....	10,873,730	52
Manufacturing .....	10,007,800	51
Metal mining .....	61,850	66
Coal mining .....	56,770	35
Communications:		
Telephone .....	734,270	74
Telegraph .....	13,040	61

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 for major industries are presented in table M and for individual industries with the specified number of employees in table N. The chances are about 2 out of 3 that the

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

Size of employment estimate	Root-mean-square error of employment estimates <sup>1</sup>	Relative errors (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> Assuming 12-month intervals between benchmark revisions.

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

Industry division	Average benchmark revision in estimates of employment <sup>2</sup>	Relative errors (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>3</sup> .....	.6	—	—

<sup>1</sup> Relative errors relate to March 1971 data.

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

<sup>3</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.

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

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

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) of differences between final estimates and benchmarks are presented in table N.

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

## 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.

## 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 Compre-

## 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.

*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* includes 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.

hensive 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 experience 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:

$$U=A(X+E) + BX, \text{ Where}$$

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 year 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 methods used for these series are an adaptation of the standard ratio-to-moving average method, with a provision for moving "adjustment factors" to take account of changing seasonal patterns. A detailed description of the method 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. All other series are adjusted following past procedures.

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 1977, 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 1978 *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, 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 average 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 good-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods, 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 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 August 1977. Seasonal factors to be used for current adjustment appear in the December 1977 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)*

BLS  
Region

IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 3-7000, Juneau 99802
IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (LAUS and CES).
VIII COLORADO	-Management Services, Department of Labor and Employment, 1210 Sherman Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, Newark 19713
III DIST. OF COL.	-Office of Administration and Management Service, D.C. Department of Manpower, Suite 1000, 605 G Street, N. W., Washington 20001
IV FLORIDA	-Department of Commerce, Caldwell Building, Tallahassee 32304
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
IX HAWAII	-Department of Labor and Industrial Relations, P.O. Box 3680, Honolulu 96811
X IDAHO	-Department of Employment, P.O. Box 35, Boise 83707
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V INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	-Department of Job Services, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Division of Employment, Department of Human Resources, 401 Topeka Avenue, Topeka 66603
IV KENTUCKY	-Department of Human Resources, 275 E. Main Street, 2nd Floor West, Frankfort 40601
VI LOUISIANA	-Department of Labor, P.O. Box 44094--Capitol Station, Baton Rouge 70804
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VIII MONTANA	-Employment Security Division, Department of Labor and Industry, P.O. Box 1728, Helena 59601
VII NEBRASKA	-Division of Employment, Department of Labor, P.O. Box 94600, State House Station, Lincoln 68509
IX NEVADA	-Employment Security Department, P.O. Box 602, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
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VIII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
V OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
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VIII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, Room 519, Cordell Hull Office Building, Nashville 37219
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