



EMPLOYMENT AND EARNINGS

November 1983

U.S. Department of Labor  
Bureau of Labor Statistics





**U.S. DEPARTMENT OF LABOR**  
Raymond J. Donovan, Secretary

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

*Employment and Earnings* is prepared by the Division of Data Development and Users' Services and the Division of Monthly Industry Employment Statistics in collaboration with the Division of Special Publications. The data are collected by the Bureau of the Census (Department of Commerce), State Employment Security Agencies, and State Departments of Labor in cooperation with the Bureau of Labor Statistics. A brief description of the cooperative statistical programs of the BLS with these agencies is presented in the Explanatory Notes. The State agencies are listed on the inside back cover.

*Employment and Earnings* may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price per year \$39 domestic and \$48.75 foreign. Single copy \$6 domestic and \$7.50 foreign. Annual supplement \$7.50 domestic and \$9.40 foreign. Prices are subject to change by the U.S. Government Printing Office. For ordering information call (202) 783-3238.

Communications on material in this publication should be addressed to: Editors, *Employment and Earnings*, Bureau of Labor Statistics, Washington, D.C. 20212, or phone: Gloria P. Green (202) 523-1944. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

The Secretary of Labor has determined that publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through July 1, 1985. Second-class postage paid at Washington, D.C. and at additional mailing addresses.

Material in this publication is in the public domain and may, with appropriate credit, be reproduced without permission.

ISSN 0013-6840

## Calendar of Features

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

### Household data

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

### Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employees detail (final)	Mar.
National data revised to reflect new benchmarks and new seasonal factors	June <sup>1</sup>
Revised historical national data	Supplement <sup>2</sup>
State and area annual averages	May
Area definitions	May

### State and area unemployment data

Annual averages	May
-----------------	-----

<sup>1</sup> Issue varies. Latest revised data introduced June 1983.

<sup>2</sup> Month of publication varies. The latest supplement was published in July 1983.

# Employment and Earnings

Vol. 32 No. 11 November 1983

Editors: Gloria Peterson Green, Rosalie K. Epstein

## Contents

	<i>Page</i>
List of statistical tables .....	2
Employment and unemployment developments, October 1983 .....	4
Statistical tables:	
<b>Not seasonally adjusted—</b>	
Household data .....	8
Establishment data:	
Employment .....	43
Hours and earnings .....	77
State and area unemployment data .....	107
<b>Seasonally adjusted—</b>	
Household data .....	35
Establishment data:	
Employment .....	60
Hours and earnings .....	97
Productivity .....	99
Explanatory notes .....	113

# MONTHLY HOUSEHOLD DATA

Page

## Employment Status

A- 1.	Employment status of the noninstitutional population 16 years and over, 1950 to date . . . . .	6
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1972 to date . . . . .	7
A- 3.	Employment status of the civilian noninstitutional population by age, sex, and race . . . . .	8
A- 4.	Employment status of the black-and-other civilian noninstitutional population by sex and age . . . . .	11
A- 5.	Employment status of the civilian noninstitutional population by race, sex, and age . . . . .	12
A- 6.	Employment status of the civilian noninstitutional population 16 to 21 years of age by major activity, sex, and race . . . . .	13
A- 7.	Employment status of male Vietnam-era veterans and nonveterans by age . . . . .	14
A- 8.	Full-and part-time status of the civilian labor force by sex, age, and race . . . . .	15
A- 9.	Employment status of the civilian noninstitutional population by family relationship . . . . .	16

## Characteristics of the Unemployed

A-10.	Unemployed persons by marital status, race, age, and sex . . . . .	17
A-11.	Unemployed persons by occupation and sex . . . . .	18
A-12.	Unemployed persons by industry and sex . . . . .	19
A-13.	Unemployed persons by reason for unemployment, sex, and race . . . . .	20
A-14.	Unemployed persons by reason for unemployment, sex, age, and duration of unemployment . . . . .	21
A-15.	Unemployed persons by duration of unemployment . . . . .	21
A-16.	Unemployed persons by sex, age, marital status, and duration of unemployment . . . . .	22
A-17.	Unemployed persons by occupation, industry, and duration of unemployment . . . . .	23
A-18.	Unemployed jobseekers by sex, age, race, and jobsearch methods used . . . . .	24
A-19.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used . . . . .	25

## Characteristics of the Employed

A-20.	Employed civilians in agriculture and nonagricultural industries by age and sex . . . . .	26
A-21.	Employed civilians by occupation, sex, and age . . . . .	27
A-22.	Employed civilians by occupation, race, and sex . . . . .	28
A-23.	Employed civilians by age, sex, and class of worker . . . . .	29
A-24.	Employed civilians by industry and occupation . . . . .	30
A-25.	Employed civilians with a job but not at work by reason, sex, and pay status . . . . .	30
A-26.	Persons at work by hours of work and type of industry . . . . .	31
A-27.	Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status . . . . .	31
A-28.	Persons at work in nonagricultural industries by class of worker and full- or part-time status . . . . .	32
A-29.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status . . . . .	33
A-30.	Persons at work in nonfarm occupations by sex and full- or part-time status . . . . .	34

## Seasonally Adjusted Employment and Unemployment Data

A-31.	Employment status of the noninstitutional population, including Armed Forces stationed in the United States, by sex, seasonally adjusted . . . . .	35
A-32.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted . . . . .	36
A-33.	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally . . . . .	37
A-34.	Employed civilians by selected social and economic categories, seasonally adjusted . . . . .	38
A-35.	Employed civilians by sex and age, seasonally adjusted . . . . .	39
A-36.	Unemployed persons by sex and age, seasonally adjusted . . . . .	39
A-37.	Unemployment rates by sex and age, seasonally adjusted . . . . .	40
A-38.	Selected unemployment indicators, seasonally adjusted . . . . .	40
A-39.	Unemployed persons by duration of unemployment, seasonally adjusted . . . . .	41
A-40.	Unemployed persons by reason for unemployment, seasonally adjusted . . . . .	41

# MONTHLY ESTABLISHMENT DATA

Page

## Employment—National

B- 1.	Employees on nonagricultural payrolls by industry division, 1932 to date . . . . .	43
B- 2.	Employees on nonagricultural payrolls by industry . . . . .	44
B- 3.	Women employees on nonagricultural payrolls by industry . . . . .	53
B- 4.	Employees on nonagricultural payrolls by industry, seasonally adjusted . . . . .	60
B- 5.	Women employees on nonagricultural payrolls by industry, seasonally adjusted . . . . .	61
B- 6.	Production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted . . . . .	62
B- 7.	Indexes of diffusion: Percent of industries in which employment increased . . . . .	63

## Employment—State and Area

B- 8.	Employees on nonagricultural payrolls for States and selected areas by industry division . . . . .	64
-------	--	----

## Hours and Earnings—National

C- 1.	Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry division, 1962 to date . . . . .	77
C- 2.	Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry . . . . .	78
C- 3.	Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry . . . . .	94
C- 4.	Gross average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and constant (1977) dollars . . . . .	94
C- 5.	Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls . . . . .	95
C- 6.	Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted . . . . .	97
C- 7.	Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted . . . . .	98
C- 8.	Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted . . . . .	99
C- 9.	Hours of wage and salary workers in nonagricultural establishments by industry division . . . . .	99
C-10.	Indexes of output and compensation per hour, unit costs, and prices, business sector, seasonally adjusted . . . . .	100
C-11.	Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, business sector, seasonally adjusted at annual rate . . . . .	101

## Hours and Earnings—State and Area

C-12.	Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas . . . . .	102
-------	--	-----

# MONTHLY STATE AND AREA UNEMPLOYMENT DATA

D- 1.	Labor force and unemployment by State and selected metropolitan areas . . . . .	107
-------	---	-----

# Employment and Unemployment Developments, October 1983

Unemployment declined markedly in October and the number of nonfarm jobs increased. The overall unemployment rate, 8.7 percent, and the rate for civilian workers, 8.8 percent, each fell by about half a percentage point over the month and were 2 points below last December's recessionary highs.

The number of persons on nonagricultural payrolls—as measured by the monthly survey of establishments—rose by 320,000 in October from the revised September level to 91.1 million. Over-the-month advances were particularly strong in construction, durable goods manufacturing, and services. Total civilian employment—as measured by the monthly survey of households—was unchanged in October at 101.9 million. Since last December, both the number of payroll jobs and total civilian employment have risen sharply—by 2.4 and 2.8 million, respectively.

## Unemployment

Both the number of unemployed persons and the unemployment rate fell substantially in October. After seasonal adjustment, there were 9.9 million unemployed workers, and the civilian worker unemployment rate was 8.8 percent. Last December, the jobless total was 12.0 million and the civilian worker rate was 10.8 percent.

The October improvement occurred primarily among men and women in the prime working ages—25 to 54 years old—as rates for both teenagers and young adults were about unchanged. Adult women continued to have a much lower jobless rate than adult men. Black and white workers both shared in the overall October decline. The rate for blacks fell to 18.1 percent, while that for whites dropped to 7.7 percent. (See tables A-32, A-33, and A-37.)

Joblessness in those industries which had been hardest hit by the recession—mining, construction, and manufacturing—was substantially reduced in October. The unemployment rate for workers in mining, which had continued to rise in the early stages of the 1983 recovery, fell to 11.3 percent, while joblessness among workers in construction and in manufacturing fell to 15.2 and 9.5 percent, respectively. The latter two rates were at their lowest levels since the early part of the 1981-82 recession. Unemployment among full-time workers also continued to decline. (See table A-38.)

Both the number of short-term unemployed (less than 5 weeks) and very long-term unemployed (6 months and over) fell substantially over the month. As a result, both measures of average duration of unemployment—the mean and the median—were about unchanged at 20.1 and 9.3 weeks, respectively. (See table A-39.) Most of the over-the-month decline occurred among job losers—persons on layoff as well as those who had permanently lost their jobs. There was also a drop in unemployment among persons seeking their first job. (See table A-40.)

After increasing in September, the number of persons working part time for economic reasons fell in October by 440,000 to 5.7 million. The reduction occurred about equally among those who could not find full-time work and those whose hours had been cut back. (See table A-34.)

## Civilian employment and the labor force

Following particularly strong advances during the previous 4 months, total civilian employment was about unchanged in October, at 101.9 million, seasonally adjusted. An over-the-month employment gain among persons 25 years and over was offset by a decline among youth under 25 years of age. Youth employment had risen markedly over the summer on a seasonally adjusted basis.

The civilian labor force, at 111.8 million, was down by 550,000 over the month. Nearly two-thirds of the decline occurred among 16 to 24 year olds. The October level was 1.3 million higher than a year earlier. (See table A-32.)

## Industry payroll employment

Total nonagricultural payroll employment rose by 320,000 in October, with two-thirds of the industries in the BLS index of diffusion registering over-the-month increases. At 91.1 million, seasonally adjusted, the number of payroll jobs was 2.4 million higher than last December's recessionary low. In addition to the October increase, there was an unusually large upward revision in the September estimate (285,000); this occurred largely in retail trade and State and local government. (See tables B-4 and B-7.)

Nearly half of the October increase was in durable goods manufacturing, with employment in every industry rising. The largest job gains took place in the major metals and metal-using industries. Employment also rose in several of the nondurable goods industries, particularly in apparel and rubber and plastics. However, jobs declined in food processing, related to the drought conditions experienced throughout much of the country. Since December, manufacturing employment has increased by nearly 850,000, or about 35 percent of the overall payroll job gain.

Construction employment, at 4.1 million in October, continued the strong growth that has been evident since spring. The over-the-month increase was 50,000, and job gains have totaled 330,000 since March. Growth also continued in mining with an October pickup of 10,000.

In the service-producing sector, there were employment gains in trade (up 55,000) and in services (up 100,000). Since December, the increase in the number of jobs in services has totaled 810,000, while trade has risen by 415,000. There was a comparatively small decline in State and local government, most of which resulted from a teacher's strike.

### **Weekly hours**

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.2 hours, seasonally adjusted, unchanged from September. In manufacturing industries, weekly hours declined 0.2 hour, following a half-hour rise in September. Factory overtime hours, however, held steady at 3.3 hours. The workweek fell 1.0 hour in transportation equipment (following a gain of 1.7 hours

in September) and 0.6 hour in textile mill products. Industries with large increases were petroleum and coal products (0.6 hour) and primary metals (0.5 hour). (See table C-6.)

The index of aggregate weekly hours of production or nonsupervisory workers rose 0.6 percent to 108.1 (1977 = 100), reflecting the increase in employment. The manufacturing index advanced 0.8 percent to 92.8, despite some shortening of the workweek; it was 11.7 percent above last December's low and at its highest point since November 1981. (See table C-7.)

### **Hourly and weekly earnings**

Average hourly and weekly earnings of production or nonsupervisory workers both increased in October by 0.6 percent, seasonally adjusted. Prior to seasonal adjustment, average hourly earnings were up 4 cents to \$8.15, and average weekly earnings rose \$1.42 to \$287.70. Since last October, average hourly earnings have risen by 36 cents and average weekly earnings by \$17.39. (See tables C-1 and C-8.)

### **The Hourly Earnings Index**

The Hourly Earnings Index (HEI) was 156.8 (1977 = 100) in October, seasonally adjusted, 0.5 percent higher than in September. For the 12 months ended in October, the increase (before seasonal adjustment) was 4.1 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in overtime in manufacturing and interindustry employment shifts. In dollars of constant purchasing power, the HEI increased 1.2 percent during the 12-month period ended in September. (See table C-8.)

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1950 to date**

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
1950 .....	106,164	63,377	59.7	60,087	1,169	58,918	7,160	51,758	3,288	5.2	42,787	
1951 .....	106,764	64,160	60.1	62,104	2,143	59,961	8,726	53,235	2,055	3.2	42,604	
1952 .....	107,617	64,524	60.0	62,636	2,386	60,250	6,500	53,749	1,883	2.9	43,093	
1953 <sup>1</sup> .....	109,287	65,246	59.7	63,410	2,231	61,179	6,260	54,919	1,834	2.8	44,041	
1954 .....	110,469	65,785	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,678	
1955 .....	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660	
1956 .....	112,919	66,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402	
1957 .....	114,213	66,877	60.3	66,019	1,948	64,071	5,947	56,123	2,859	4.2	45,336	
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	8.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 <sup>1</sup> .....	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963 .....	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964 .....	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	88,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,158	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,848	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	8,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	186,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982 .....	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1982:</b>												
October .....	174,549	112,420	64.4	100,844	1,668	99,176	3,413	95,783	11,576	10.3	62,129	
November .....	174,718	112,702	64.5	100,796	1,660	99,136	3,488	95,870	11,906	10.6	62,016	
December .....	174,864	112,794	64.5	100,758	1,665	99,093	3,411	95,682	12,036	10.7	62,070	
<b>1983:</b>												
January .....	175,021	112,215	64.1	100,770	1,667	99,103	3,412	95,691	11,446	10.2	62,808	
February .....	175,169	112,217	64.1	100,727	1,664	99,083	3,393	95,670	11,490	10.2	62,952	
March .....	175,320	112,148	64.0	100,767	1,664	99,103	3,375	95,729	11,381	10.1	63,172	
April .....	175,465	112,457	64.1	101,129	1,671	99,458	3,371	96,088	11,328	10.1	63,008	
May .....	175,622	112,418	64.0	101,226	1,669	99,557	3,387	96,190	11,192	10.0	63,204	
June .....	175,793	113,600	64.6	102,454	1,668	100,786	3,522	97,264	11,146	9.8	62,193	
July .....	175,970	113,539	64.5	102,949	1,664	101,285	3,527	97,758	10,590	9.3	62,431	
August .....	176,122	113,943	64.7	103,245	1,682	101,583	3,489	98,074	10,899	9.4	62,179	
September .....	176,297	114,063	64.7	103,640	1,695	101,945	3,290	98,655	10,423	9.1	62,234	
October .....	176,474	113,510	64.3	103,623	1,695	101,928	3,202	98,726	9,886	8.7	62,965	

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

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



**HOUSEHOLD DATA  
HISTORICAL**

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1972 to date**

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
1972 <sup>1</sup> .....	69,607	55,327	79.5	52,668	1,772	50,896	2,849	48,047	2,859	4.8	14,280	
1973 <sup>1</sup> .....	71,017	56,349	79.3	54,074	1,725	52,349	2,847	49,502	2,275	4.0	14,667	
1974 .....	72,466	57,397	79.2	54,682	1,858	53,024	2,919	50,105	2,714	4.7	15,069	
1975 .....	73,891	57,899	78.4	53,457	1,800	51,857	2,824	49,032	4,442	7.7	15,993	
1976 .....	75,341	58,756	78.0	54,720	1,582	53,138	2,744	50,394	4,036	6.9	18,585	
1977 .....	76,756	59,959	78.1	56,291	1,583	54,728	2,671	52,057	3,667	6.1	16,797	
1978 <sup>1</sup> .....	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	18,958	
1979 .....	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,932	77.8	58,665	1,479	57,188	2,709	54,477	4,267	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	8,179	9.7	19,073	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1982:</b>												
October .....	83,323	64,300	77.2	57,456	1,524	55,932	2,764	53,188	8,844	10.6	19,023	
November .....	83,402	64,414	77.2	57,408	1,518	55,892	2,793	53,099	7,006	10.9	18,988	
December .....	83,581	64,384	77.0	57,338	1,529	55,809	2,710	53,099	7,048	10.9	19,197	
<b>1983:</b>												
January .....	83,652	63,916	76.4	57,283	1,531	55,752	2,728	53,024	6,633	10.4	19,738	
February .....	83,720	63,996	76.4	57,234	1,528	55,706	2,652	53,054	6,762	10.6	19,724	
March .....	83,789	63,957	76.3	57,300	1,528	55,772	2,671	53,101	6,657	10.4	19,832	
April .....	83,856	64,207	76.8	57,478	1,530	55,946	2,883	53,283	6,731	10.5	19,649	
May .....	83,931	64,276	76.6	57,656	1,528	56,128	2,718	53,411	6,620	10.3	19,855	
June .....	84,014	64,816	77.1	58,484	1,525	56,939	2,824	54,115	8,351	9.8	19,198	
July .....	84,099	64,864	77.1	58,625	1,521	57,104	2,844	54,260	6,238	9.6	19,235	
August .....	84,173	64,814	77.0	58,570	1,538	57,032	2,798	54,234	6,244	9.6	19,359	
September .....	84,261	64,944	77.1	58,826	1,549	57,277	2,667	54,810	6,118	9.4	19,317	
October .....	84,344	64,690	76.7	58,912	1,543	57,369	2,576	54,792	5,778	8.9	19,654	
<b>Annual averages</b>												
<b>WOMEN</b>												
1972 <sup>1</sup> .....	76,331	33,520	43.9	31,298	41	31,257	635	30,622	2,222	8.8	42,811	
1973 <sup>1</sup> .....	77,853	34,853	44.8	32,764	49	32,715	622	32,093	2,089	8.0	43,000	
1974 .....	78,375	36,274	45.7	33,832	83	33,789	596	33,173	2,441	6.7	43,101	
1975 .....	80,938	37,553	46.4	34,067	78	33,989	584	33,404	3,486	9.3	43,386	
1976 .....	82,476	39,089	47.4	35,701	86	35,815	588	35,027	3,369	8.6	43,406	
1977 .....	83,932	40,705	48.5	37,381	92	37,269	612	36,677	3,324	8.2	43,227	
1978 <sup>1</sup> .....	85,434	42,731	50.0	39,869	100	39,589	669	38,900	3,061	7.2	42,703	
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,558	3,018	8.8	42,808	
1980 .....	88,472	45,811	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,881	
1981 .....	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,898	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1982:</b>												
October .....	91,226	48,120	52.7	43,388	144	43,244	649	42,595	4,732	9.8	43,106	
November .....	91,316	48,288	52.9	43,388	144	43,244	673	42,571	4,900	10.1	43,028	
December .....	91,283	48,410	53.0	43,420	136	43,284	701	42,583	4,990	10.3	42,873	
<b>1983:</b>												
January .....	91,369	48,299	52.9	43,486	136	43,350	884	42,666	4,813	10.0	43,070	
February .....	91,449	48,220	52.7	43,493	136	43,357	740	42,617	4,727	9.8	43,229	
March .....	91,532	48,191	52.6	43,487	136	43,331	704	42,627	4,724	9.8	43,341	
April .....	91,609	48,251	52.7	43,653	141	43,512	888	42,824	4,597	9.5	43,358	
May .....	91,691	48,142	52.5	43,589	141	43,428	649	42,779	4,572	9.5	43,549	
June .....	91,779	48,784	53.2	43,990	143	43,847	698	43,149	4,795	9.8	42,895	
July .....	91,871	48,675	53.0	44,324	143	44,181	683	43,498	4,351	8.9	43,196	
August .....	91,949	49,130	53.4	44,675	144	44,531	691	43,840	4,455	9.1	42,819	
September .....	92,036	49,119	53.4	44,814	146	44,666	623	44,048	4,305	8.8	42,917	
October .....	92,129	48,819	53.0	44,712	152	44,580	626	43,934	4,108	8.4	43,310	

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	October 1983										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>TOTAL</b>											
16 years and over .....	174,779	112,042	64.1	102,659	9,383	8.4	62,737	31,501	9,696	2,475	19,066
16 to 19 years .....	15,120	7,618	50.4	5,991	1,627	21.4	7,502	499	6,391	20	592
16 to 17 years .....	7,305	2,756	37.7	2,128	627	22.8	4,550	107	4,216	6	221
18 to 19 years .....	7,815	4,862	62.2	3,863	999	20.6	2,953	392	2,175	14	371
20 to 24 years .....	20,762	15,936	76.8	13,858	2,078	13.0	4,825	1,910	2,183	63	670
25 to 54 years .....	90,821	73,257	80.7	68,248	5,009	6.8	17,565	12,999	1,069	800	2,693
25 to 34 years .....	39,356	32,188	81.8	29,508	2,680	8.3	7,168	5,178	784	178	1,028
25 to 29 years .....	20,605	16,923	82.1	15,377	1,546	9.1	3,682	2,532	516	80	554
30 to 34 years .....	18,751	15,265	81.4	14,131	1,134	7.4	3,486	2,646	269	98	474
35 to 44 years .....	29,303	24,078	82.2	22,661	1,418	5.9	5,224	4,069	206	231	718
35 to 39 years .....	16,168	13,303	82.3	12,438	864	6.5	2,864	2,265	127	105	364
40 to 44 years .....	13,136	10,775	82.0	10,222	554	5.1	2,360	1,801	79	127	353
45 to 54 years .....	22,162	16,990	76.7	16,079	911	5.4	5,172	3,753	79	391	947
45 to 49 years .....	11,137	8,867	79.6	8,422	444	5.0	2,270	1,717	47	149	358
50 to 54 years .....	11,025	8,123	73.7	7,657	467	5.7	2,901	2,036	33	242	590
55 to 64 years .....	22,019	12,060	54.8	11,486	575	4.6	9,959	5,636	35	609	3,679
55 to 59 years .....	11,354	7,286	64.2	6,955	331	4.5	4,067	2,542	21	317	1,187
60 to 64 years .....	10,665	4,774	44.8	4,530	244	5.1	5,892	3,094	14	292	2,492
65 years and over .....	26,057	3,171	12.2	3,076	94	3.0	22,886	10,455	17	982	11,432
65 to 69 years .....	8,901	1,811	20.3	1,749	62	3.4	7,089	3,236	10	238	3,604
70 years and over .....	17,156	1,359	7.9	1,327	32	2.4	15,796	7,219	7	743	7,828
<b>Men</b>											
16 years and over .....	82,801	62,901	76.0	57,693	5,208	8.3	19,900	458	4,952	1,445	13,045
16 to 19 years .....	7,586	3,982	52.5	3,113	869	21.8	3,603	21	3,221	14	348
16 to 17 years .....	3,709	1,412	38.1	1,087	325	23.0	2,298	9	2,162	4	122
18 to 19 years .....	3,876	2,571	66.3	2,027	544	21.2	1,306	12	1,059	9	225
20 to 24 years .....	10,126	8,459	83.5	7,299	1,161	13.7	1,667	22	1,221	38	387
25 to 54 years .....	44,186	41,445	93.8	38,675	2,769	6.7	2,742	106	503	546	1,585
25 to 34 years .....	19,250	18,110	94.1	16,651	1,459	8.1	1,140	37	409	110	585
25 to 29 years .....	10,092	9,433	93.5	8,592	841	8.9	659	18	290	41	310
30 to 34 years .....	9,158	8,677	94.7	8,059	618	7.1	481	19	119	69	275
35 to 44 years .....	14,248	13,591	95.4	12,795	796	5.9	657	35	66	166	391
35 to 39 years .....	7,865	7,519	95.6	7,050	468	6.2	346	22	44	77	203
40 to 44 years .....	6,384	6,072	95.1	5,744	328	5.4	311	13	22	89	187
45 to 54 years .....	10,688	9,744	91.2	9,229	514	5.3	944	35	29	271	609
45 to 49 years .....	5,396	5,031	93.2	4,784	246	4.9	365	23	16	103	224
50 to 54 years .....	5,292	4,713	89.1	4,445	268	5.7	579	12	13	168	386
55 to 64 years .....	10,268	7,125	69.4	6,766	359	5.0	3,143	79	4	414	2,647
55 to 59 years .....	5,346	4,317	80.8	4,124	194	4.5	1,028	26	4	217	782
60 to 64 years .....	4,922	2,808	57.0	2,643	165	5.9	2,115	53	-	196	1,885
65 years and over .....	10,635	1,890	17.8	1,840	50	2.7	8,745	230	4	433	8,078
65 to 69 years .....	3,965	1,058	26.7	1,028	31	2.9	2,906	53	3	121	2,728
70 years and over .....	6,670	831	12.5	812	19	2.3	5,839	177	1	312	5,350
<b>Women</b>											
16 years and over .....	91,977	49,140	53.4	44,966	4,174	8.5	42,837	31,043	4,743	1,030	6,021
16 to 19 years .....	7,534	3,635	48.2	2,878	757	20.8	3,899	478	3,170	7	244
16 to 17 years .....	3,596	1,344	37.4	1,042	302	22.5	2,252	98	2,054	2	98
18 to 19 years .....	3,939	2,291	58.2	1,836	455	19.9	1,647	380	1,116	5	146
20 to 24 years .....	10,635	7,477	70.3	6,559	918	12.3	3,158	1,888	962	25	283
25 to 54 years .....	46,635	31,812	68.2	29,572	2,239	7.0	14,823	12,893	566	254	1,108
25 to 34 years .....	20,106	14,078	70.0	12,857	1,221	8.7	6,028	5,141	376	68	443
25 to 29 years .....	10,513	7,490	71.2	6,785	705	9.4	3,023	2,514	226	39	244
30 to 34 years .....	9,593	6,588	68.7	6,072	516	7.8	3,005	2,627	150	29	199
35 to 44 years .....	15,055	10,488	69.7	9,866	622	5.9	4,567	4,035	140	66	327
35 to 39 years .....	8,303	5,784	69.7	5,388	396	6.8	2,518	2,246	83	28	161
40 to 44 years .....	6,752	4,703	69.7	4,478	226	4.8	2,049	1,788	57	38	186
45 to 54 years .....	11,474	7,246	63.2	6,849	397	5.5	4,228	3,718	51	121	338
45 to 49 years .....	5,741	3,836	66.8	3,638	198	5.2	1,905	1,694	31	46	134
50 to 54 years .....	5,733	3,410	59.5	3,212	199	5.8	2,322	2,024	20	74	204
55 to 64 years .....	11,751	4,935	42.0	4,719	216	4.4	6,816	5,558	31	195	1,032
55 to 59 years .....	6,008	2,969	49.4	2,832	137	4.6	3,039	2,517	18	100	405
60 to 64 years .....	5,743	1,966	34.2	1,887	79	4.0	3,777	3,041	13	95	627
65 years and over .....	15,422	1,281	8.3	1,237	44	3.4	14,141	10,225	14	548	3,354
65 to 69 years .....	4,936	753	15.2	721	31	4.2	4,183	3,183	7	117	876
70 years and over .....	10,486	528	5.0	515	13	2.4	9,957	7,042	6	431	2,478

HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

Age, sex, and race	October 1983										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>WHITE</b>											
16 years and over .....	151,175	97,526	64.5	90,532	6,994	7.2	53,649	27,713	7,486	1,917	16,533
16 to 19 years .....	12,458	6,726	54.0	5,515	1,211	18.0	5,733	378	4,951	17	387
16 to 17 years .....	6,007	2,507	41.7	2,002	505	20.2	3,500	90	3,255	6	150
18 to 19 years .....	6,451	4,218	65.4	3,513	705	16.7	2,233	288	1,696	11	238
20 to 24 years .....	17,447	13,744	78.8	12,294	1,450	10.6	3,703	1,490	1,738	36	439
25 to 54 years .....	78,064	63,376	81.2	59,596	3,780	6.0	14,688	11,278	750	593	2,066
25 to 34 years .....	33,379	27,556	82.6	25,580	1,976	7.2	5,823	4,456	533	118	716
25 to 29 years .....	17,429	14,478	83.1	13,383	1,096	7.6	2,951	2,162	365	51	372
30 to 34 years .....	15,949	13,077	82.0	12,197	880	6.7	2,872	2,294	168	67	344
35 to 44 years .....	25,314	20,845	82.3	19,753	1,092	5.2	4,469	3,575	152	173	569
35 to 39 years .....	13,971	11,527	82.5	10,867	660	8.1	2,444	2,011	94	77	275
40 to 44 years .....	11,342	9,318	82.2	8,886	432	4.6	2,025	1,599	58	95	293
45 to 54 years .....	19,372	14,976	77.3	14,264	712	4.8	4,396	3,247	65	301	783
45 to 49 years .....	9,674	7,768	80.3	7,432	336	4.3	1,905	1,473	37	106	287
50 to 54 years .....	9,698	7,207	74.3	6,831	375	4.7	2,491	1,779	28	195	495
55 to 64 years .....	19,639	10,781	54.9	10,302	480	4.4	8,858	5,083	29	480	3,266
55 to 59 years .....	10,101	6,510	64.4	6,239	271	4.2	3,591	2,269	20	252	1,050
60 to 64 years .....	9,538	4,271	44.8	4,063	208	4.9	5,266	2,813	9	228	2,216
65 years and over .....	23,566	2,899	12.3	2,825	73	2.5	20,668	9,485	17	792	10,374
65 to 69 years .....	8,041	1,645	20.5	1,597	48	2.9	6,396	2,931	10	196	3,259
70 years and over .....	15,525	1,253	8.1	1,227	25	2.0	14,272	6,554	7	596	7,115
<b>Men</b>											
16 years and over .....	72,063	55,375	76.8	51,368	4,007	7.2	16,688	356	3,843	1,124	11,365
16 to 19 years .....	6,262	3,508	56.0	2,835	673	19.2	2,754	15	2,511	10	217
16 to 17 years .....	3,046	1,278	42.0	1,013	265	20.8	1,768	7	1,682	4	75
18 to 19 years .....	3,216	2,230	69.3	1,821	408	18.3	986	8	829	6	142
20 to 24 years .....	8,571	7,282	85.0	6,451	831	11.4	1,289	12	1,000	21	256
25 to 54 years .....	38,401	36,396	94.8	34,237	2,160	5.9	2,005	73	324	416	1,191
25 to 34 years .....	16,540	15,784	95.4	14,644	1,140	7.2	756	21	269	73	392
25 to 29 years .....	8,656	8,220	95.0	7,570	650	7.9	436	10	199	27	200
30 to 34 years .....	7,884	7,564	95.9	7,074	490	6.5	319	11	70	46	193
35 to 44 years .....	12,441	11,946	96.0	11,322	625	5.2	495	25	38	126	305
35 to 39 years .....	6,873	6,617	96.3	6,258	359	5.4	256	18	27	55	156
40 to 44 years .....	5,568	5,330	95.7	5,064	266	5.0	239	8	11	71	149
45 to 54 years .....	9,420	8,666	92.0	8,271	395	4.6	755	27	17	216	495
45 to 49 years .....	4,714	4,437	94.1	4,263	174	3.9	276	14	9	78	175
50 to 54 years .....	4,707	4,228	89.8	4,008	220	5.2	479	13	8	138	319
55 to 64 years .....	9,208	6,433	69.9	6,128	305	4.7	2,774	61	4	337	2,372
55 to 59 years .....	4,789	3,901	81.5	3,737	163	4.2	888	22	4	177	686
60 to 84 years .....	4,419	2,533	57.3	2,391	142	5.6	1,886	40	-	160	1,686
65 years and over .....	9,622	1,755	18.2	1,718	37	2.1	7,867	194	4	341	7,329
65 to 69 years .....	3,603	982	27.3	960	22	2.2	2,621	48	3	98	2,472
70 years and over .....	6,018	773	12.8	757	15	2.0	5,246	146	1	242	4,857
<b>Women</b>											
16 years and over .....	79,111	42,151	53.3	39,164	2,987	7.1	36,960	27,358	3,643	793	5,167
16 to 19 years .....	6,197	3,217	51.9	2,680	537	16.7	2,979	363	2,440	7	170
18 to 17 years .....	2,961	1,229	41.5	989	240	19.5	1,732	83	1,572	2	75
18 to 19 years .....	3,236	1,989	61.5	1,691	297	14.9	1,247	280	868	5	95
20 to 24 years .....	8,876	6,462	72.8	5,843	619	9.6	2,414	1,478	738	15	183
25 to 54 years .....	39,663	26,980	68.0	25,359	1,620	6.0	12,683	11,205	426	177	875
25 to 34 years .....	16,839	11,771	69.9	10,935	836	7.1	5,067	4,435	264	45	323
25 to 29 years .....	8,773	6,258	71.3	5,813	446	7.1	2,515	2,152	166	24	172
30 to 34 years .....	8,085	5,513	68.4	5,123	390	7.1	2,553	2,283	98	21	151
35 to 44 years .....	12,872	8,898	69.1	8,431	467	5.2	3,974	3,550	114	47	264
35 to 39 years .....	7,098	4,910	69.2	4,609	301	6.1	2,188	1,979	67	22	119
40 to 44 years .....	5,774	3,988	69.1	3,822	166	4.2	1,786	1,571	47	24	144
45 to 54 years .....	9,952	6,310	63.4	5,993	317	5.0	3,642	3,220	48	85	288
45 to 49 years .....	4,960	3,331	67.2	3,169	162	4.9	1,629	1,461	28	28	112
50 to 54 years .....	4,991	2,979	59.7	2,823	155	5.2	2,012	1,760	20	57	176
55 to 64 years .....	10,431	4,348	41.7	4,174	174	4.0	6,083	5,021	25	142	894
55 to 59 years .....	5,312	2,609	49.1	2,502	108	4.1	2,703	2,247	16	74	365
60 to 64 years .....	5,119	1,739	34.0	1,672	67	3.8	3,380	2,774	9	68	529
65 years and over .....	13,945	1,144	8.2	1,108	36	3.2	12,801	9,291	13	452	3,045
65 to 69 years .....	4,438	663	14.9	637	26	3.9	3,775	2,883	7	98	787
70 years and over .....	9,507	480	5.1	470	10	2.1	9,026	6,408	6	354	2,258

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	October 1983										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	19,026	11,582	60.9	9,502	2,080	18.0	7,444	3,070	1,877	504	2,191
16 to 19 years .....	2,208	712	32.2	347	365	51.3	1,498	98	1,206	3	192
18 to 17 years .....	1,078	197	18.2	84	113	57.4	882	16	798	-	68
18 to 19 years .....	1,129	515	45.6	263	253	49.0	814	80	408	2	124
20 to 24 years .....	2,748	1,829	66.6	1,255	574	31.4	919	369	308	25	217
25 to 54 years .....	9,955	7,769	78.0	6,724	1,046	13.5	2,188	1,283	157	190	554
25 to 34 years .....	4,650	3,673	79.0	3,060	612	16.7	977	515	123	57	281
25 to 29 years .....	2,494	1,957	78.5	1,555	402	20.5	537	287	70	28	173
30 to 34 years .....	2,158	1,716	79.8	1,508	211	12.3	441	248	54	31	108
35 to 44 years .....	3,041	2,476	81.4	2,220	256	10.3	565	363	29	49	124
35 to 39 years .....	1,671	1,375	82.3	1,208	168	12.2	296	192	15	19	71
40 to 44 years .....	1,371	1,101	80.3	1,014	87	7.9	269	172	15	30	54
45 to 54 years .....	2,264	1,821	71.6	1,443	178	11.0	643	405	5	84	149
45 to 49 years .....	1,171	863	73.7	772	92	10.7	308	196	8	39	67
50 to 54 years .....	1,093	758	69.4	871	88	11.3	336	211	-	44	82
55 to 64 years .....	1,967	1,049	53.3	970	79	7.5	818	451	6	119	342
55 to 59 years .....	1,044	854	82.6	802	52	8.0	390	216	2	59	113
60 to 64 years .....	923	395	42.8	368	27	6.8	528	235	4	60	229
65 years and over .....	2,148	223	10.4	207	16	7.4	1,925	871	-	167	886
65 to 69 years .....	732	131	17.9	119	12	9.2	600	266	-	40	294
70 years and over .....	1,417	92	6.5	88	4	4.3	1,325	605	-	127	593
<b>Men</b>											
16 years and over .....	8,496	5,886	69.3	4,871	1,016	17.3	2,610	89	787	282	1,450
16 to 19 years .....	1,080	372	34.4	202	189	45.6	708	6	580	3	120
16 to 17 years .....	535	98	18.4	46	53	53.5	437	2	388	-	48
18 to 19 years .....	544	273	50.2	156	117	42.7	271	4	192	2	73
20 to 24 years .....	1,266	975	77.1	679	296	30.4	290	10	141	15	124
25 to 54 years .....	4,444	3,886	87.4	3,388	500	12.9	556	29	66	115	344
25 to 34 years .....	2,090	1,820	87.1	1,551	269	14.8	270	14	50	34	170
25 to 29 years .....	1,124	970	86.3	805	165	17.0	154	7	33	12	102
30 to 34 years .....	966	850	88.0	747	104	12.2	118	8	17	23	68
35 to 44 years .....	1,352	1,227	90.7	1,098	129	10.5	125	8	13	32	71
35 to 39 years .....	745	684	91.8	593	90	13.2	61	3	6	16	37
40 to 44 years .....	608	543	89.4	504	39	7.2	64	6	8	16	35
45 to 54 years .....	1,002	840	83.9	738	102	12.1	162	7	3	49	103
45 to 49 years .....	520	440	84.6	363	57	13.0	80	9	3	21	47
50 to 54 years .....	482	400	83.1	355	45	11.2	82	-	-	27	56
55 to 64 years .....	856	543	63.5	504	40	7.3	313	14	-	67	232
55 to 59 years .....	454	340	75.0	317	23	6.8	113	4	-	34	76
60 to 64 years .....	402	203	50.5	187	16	8.0	199	10	-	33	156
65 years and over .....	850	109	12.8	98	11	10.3	742	30	-	82	630
65 to 69 years .....	307	59	19.2	52	7	( <sup>1</sup> )	248	4	-	21	223
70 years and over .....	544	50	9.2	46	4	( <sup>1</sup> )	494	26	-	61	407
<b>Women</b>											
16 years and over .....	10,530	5,696	54.1	4,631	1,064	18.7	4,834	2,981	891	221	741
16 to 19 years .....	1,128	340	30.1	144	196	57.6	788	90	626	-	72
16 to 17 years .....	543	98	18.1	38	60	81.5	445	14	410	-	20
18 to 19 years .....	585	242	41.4	106	136	56.1	343	78	216	-	51
20 to 24 years .....	1,482	853	57.6	576	278	32.5	629	359	167	10	93
25 to 54 years .....	5,511	3,883	70.5	3,336	546	14.1	1,630	1,254	91	75	210
25 to 34 years .....	2,560	1,853	72.4	1,509	344	18.6	708	501	73	23	111
25 to 29 years .....	1,370	987	72.1	750	237	24.0	383	260	37	14	71
30 to 34 years .....	1,190	866	72.7	759	107	12.3	325	240	37	8	40
35 to 44 years .....	1,689	1,249	73.9	1,123	126	10.1	440	355	16	17	53
35 to 39 years .....	926	691	74.6	613	78	11.3	235	189	9	3	34
40 to 44 years .....	763	558	73.1	510	48	8.6	205	166	7	14	19
45 to 54 years .....	1,262	781	61.8	705	76	9.7	482	398	2	35	46
45 to 49 years .....	651	423	65.0	389	35	8.2	228	187	3	18	20
50 to 54 years .....	611	358	58.5	316	41	11.6	254	211	-	17	26
55 to 64 years .....	1,111	506	45.5	466	39	7.8	605	437	6	52	110
55 to 59 years .....	590	313	53.1	285	29	9.2	276	212	2	25	37
60 to 64 years .....	521	192	36.9	181	11	5.6	329	225	4	27	73
65 years and over .....	1,298	114	8.8	109	5	4.6	1,183	841	-	85	258
65 to 69 years .....	425	72	17.0	67	5	( <sup>1</sup> )	352	262	-	19	71
70 years and over .....	873	42	4.8	42	-	( <sup>1</sup> )	831	579	-	66	186

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

**HOUSEHOLD DATA**  
**NOT SEASONALLY ADJUSTED**

**A-4. Employment status of the black and other civilian noninstitutional population by age and sex**

(Numbers in thousands)

Age and sex	October 1983								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	23,804	14,516	61.5	12,127	277	11,850	2,389	16.5	9,088
16 to 19 years .....	2,662	892	33.5	476	10	467	416	46.6	1,770
16 to 17 years .....	1,298	248	19.1	126	7	119	122	49.1	1,050
18 to 19 years .....	1,364	644	47.2	350	2	348	294	45.7	720
20 to 24 years .....	3,315	2,192	66.1	1,564	28	1,537	628	28.6	1,122
25 to 54 years .....	12,756	9,880	77.5	8,651	149	8,502	1,230	12.4	2,876
25 to 34 years .....	5,977	4,832	77.5	3,929	53	3,876	704	15.2	1,345
25 to 29 years .....	3,176	2,444	77.0	1,995	27	1,967	450	18.4	732
30 to 34 years .....	2,801	1,182	42.2	1,934	25	1,909	254	21.5	613
35 to 44 years .....	3,989	3,234	81.1	2,907	51	2,856	326	10.1	756
35 to 39 years .....	2,196	1,776	80.9	1,571	28	1,543	205	11.5	421
40 to 44 years .....	1,793	1,458	81.3	1,336	24	1,313	122	8.4	335
45 to 54 years .....	2,790	2,015	72.2	1,815	45	1,770	200	9.9	776
45 to 49 years .....	1,484	1,098	75.0	989	25	964	108	9.8	365
50 to 54 years .....	1,327	917	69.1	825	19	806	91	9.9	410
55 to 64 years .....	2,380	1,279	53.7	1,184	68	1,116	95	7.4	1,101
55 to 59 years .....	1,253	776	62.0	717	42	675	60	7.7	476
60 to 64 years .....	1,128	503	44.6	467	26	441	35	7.0	625
65 years and over .....	2,490	272	10.9	251	22	229	21	7.7	2,218
65 to 69 years .....	859	165	19.2	151	15	136	14	8.5	694
70 years and over .....	1,831	107	6.6	100	8	92	14	13.1	1,524
<b>Men</b>									
16 years and over .....	10,738	7,526	70.1	6,325	242	6,083	1,202	16.0	3,211
16 to 19 years .....	1,324	474	35.8	278	11	267	196	41.3	850
16 to 17 years .....	683	133	20.1	73	6	67	60	44.9	530
18 to 19 years .....	661	341	51.6	205	5	200	136	39.9	320
20 to 24 years .....	1,556	1,177	75.7	848	24	824	329	28.0	378
25 to 54 years .....	5,785	5,048	87.3	4,438	134	4,305	611	12.1	736
25 to 34 years .....	2,710	2,326	85.8	2,007	44	1,963	319	13.7	384
25 to 29 years .....	1,436	1,213	84.5	1,022	22	1,000	191	15.7	223
30 to 34 years .....	1,274	1,112	87.3	985	22	963	128	11.5	161
35 to 44 years .....	1,807	1,644	91.0	1,473	50	1,423	172	10.4	162
35 to 39 years .....	992	902	90.9	792	28	764	110	12.2	90
40 to 44 years .....	815	743	91.1	681	23	658	62	8.4	72
45 to 54 years .....	1,268	1,078	85.1	958	40	919	120	11.1	189
45 to 49 years .....	683	593	86.9	521	23	498	72	12.1	89
50 to 54 years .....	585	485	82.9	437	18	421	48	9.9	100
55 to 64 years .....	1,060	692	65.2	638	53	586	53	7.7	369
55 to 59 years .....	557	417	74.8	386	32	354	30	7.3	140
60 to 64 years .....	503	275	54.6	252	20	232	23	8.3	228
65 years and over .....	1,013	135	13.3	122	20	102	13	9.5	879
65 to 69 years .....	361	76	21.1	67	13	54	9	11.8	285
70 years and over .....	652	59	9.0	55	8	47	4	6.6	593
<b>Women</b>									
16 years and over .....	12,866	6,989	54.3	5,802	35	5,767	1,187	17.0	5,877
16 to 19 years .....	1,338	418	31.2	198	-	199	220	52.7	920
16 to 17 years .....	635	115	18.1	53	1	51	62	54.0	520
18 to 19 years .....	703	303	43.1	145	-	148	158	52.2	400
20 to 24 years .....	1,759	1,015	57.7	717	4	713	298	29.4	744
25 to 54 years .....	6,971	4,832	69.3	4,213	15	4,197	619	12.8	2,140
25 to 34 years .....	3,267	2,307	70.6	1,822	9	1,813	385	16.7	961
25 to 29 years .....	1,740	1,231	70.8	973	5	967	259	21.0	509
30 to 34 years .....	1,527	1,075	70.4	949	3	946	126	11.7	452
35 to 44 years .....	2,182	1,589	72.8	1,435	1	1,433	155	9.7	593
35 to 39 years .....	1,204	874	72.6	779	-	779	95	10.9	331
40 to 44 years .....	978	715	73.1	655	1	655	60	8.3	263
45 to 54 years .....	1,522	936	61.5	857	5	851	80	8.5	586
45 to 49 years .....	781	505	64.6	468	2	466	36	7.2	276
50 to 54 years .....	742	432	58.2	388	3	385	43	10.1	310
55 to 64 years .....	1,320	587	44.5	546	16	530	42	7.1	733
55 to 59 years .....	696	360	51.7	330	10	321	29	8.1	336
60 to 64 years .....	624	228	36.5	215	6	209	12	5.4	397
65 years and over .....	1,477	137	9.3	129	2	127	8	5.9	1,340
65 to 69 years .....	498	89	17.9	84	2	82	5	5.9	409
70 years and over .....	979	48	4.9	45	-	45	3	(1)	931

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
<b>TOTAL</b>								
Civilian noninstitutional population .....	172,881	174,779	73,984	75,216	83,271	84,443	15,625	15,120
Civilian labor force .....	110,767	112,042	58,193	58,919	44,468	45,505	8,106	7,618
Percent of population .....	64.1	64.1	78.7	78.3	53.4	53.9	51.9	50.4
Employed .....	99,825	102,659	53,056	54,580	40,586	42,088	6,182	5,991
Agriculture .....	3,618	3,407	2,592	2,511	638	635	389	261
Nonagricultural industries .....	96,207	99,252	50,465	52,069	39,948	41,453	5,794	5,730
Unemployed .....	10,942	9,383	5,137	4,339	3,882	3,417	1,924	1,627
Unemployment rate .....	9.9	8.4	8.8	7.4	8.7	7.5	23.7	21.4
Not in labor force .....	62,114	62,737	15,791	16,297	38,803	38,938	7,519	7,502
<b>White</b>								
Civilian noninstitutional population .....	149,838	151,175	64,885	65,802	72,005	72,915	12,948	12,458
Civilian labor force .....	96,479	97,526	51,302	51,867	38,013	38,933	7,164	6,726
Percent of population .....	64.4	64.5	79.1	78.8	52.8	53.4	55.3	54.0
Employed .....	88,145	90,532	47,359	48,534	35,122	36,484	5,663	5,515
Agriculture .....	3,376	3,130	2,409	2,280	598	599	369	251
Nonagricultural industries .....	84,768	87,402	44,950	46,254	34,525	35,885	5,294	5,264
Unemployed .....	8,334	6,994	3,943	3,333	2,890	2,450	1,501	1,211
Unemployment rate .....	8.6	7.2	7.7	6.4	7.6	6.3	20.9	18.0
Not in labor force .....	53,359	53,649	13,582	13,935	33,992	33,981	5,784	5,733
<b>Black</b>								
Civilian noninstitutional population .....	18,692	19,026	7,240	7,416	9,214	9,402	2,238	2,208
Civilian labor force .....	11,462	11,582	5,428	5,515	5,274	5,356	760	712
Percent of population .....	61.3	60.9	75.0	74.4	57.2	57.0	34.0	32.2
Employed .....	9,182	9,502	4,414	4,668	4,389	4,487	380	347
Agriculture .....	157	181	124	161	19	13	15	6
Nonagricultural industries .....	9,025	9,321	4,290	4,507	4,370	4,474	365	340
Unemployed .....	2,280	2,080	1,014	847	885	868	381	365
Unemployment rate .....	19.9	18.0	18.7	15.4	16.8	16.2	50.1	51.3
Not in labor force .....	7,230	7,444	1,812	1,901	3,940	4,047	1,477	1,496

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-6. Employment status of the civilian noninstitutional population 16 to 21 years of age by major activity, sex, and race**

(Numbers in thousands)

Employment status and major activity	October 1983									
	Total			White			Black			
	Both sexes	Men	Women	Both sexes	Men	Women	Both sexes	Men	Women	
<b>TOTAL</b>										
Civilian noninstitutional population .....	23,159	11,505	11,654	19,195	9,546	9,649	3,310	1,594	1,716	
Civilian labor force .....	13,455	7,028	6,428	11,771	6,111	5,659	1,387	733	654	
Percent of population .....	58.1	61.1	55.2	61.3	64.0	58.7	41.9	46.0	38.1	
Employed .....	10,944	5,665	5,279	9,925	5,089	4,836	790	433	356	
Agriculture .....	451	372	79	428	350	78	15	14	1	
Nonagricultural industries .....	10,494	5,294	5,200	9,498	4,739	4,758	775	419	356	
Unemployed .....	2,511	1,362	1,149	1,845	1,022	823	597	300	297	
Looking for full-time work .....	1,559	887	671	1,069	628	442	444	235	209	
Looking for part-time work .....	952	475	478	776	394	381	153	65	88	
Percent of labor force .....	18.7	19.4	17.9	15.7	16.7	14.5	43.1	40.9	45.5	
Not in labor force .....	9,703	4,477	5,226	7,424	3,435	3,990	1,923	860	1,063	
<b>Major activity: Going to school</b>										
Civilian noninstitutional population .....	12,058	6,141	5,916	9,976	5,116	4,859	1,678	802	876	
Civilian labor force .....	4,386	2,219	2,167	3,979	2,016	1,963	302	145	157	
Percent of population .....	36.4	36.1	36.6	39.9	39.4	40.4	18.0	18.1	17.9	
Employed .....	3,502	1,750	1,752	3,258	1,617	1,642	158	88	70	
Agriculture .....	137	114	22	127	107	20	5	5	-	
Nonagricultural industries .....	3,366	1,636	1,730	3,131	1,510	1,621	153	83	70	
Unemployed .....	884	468	415	721	399	321	144	58	87	
Looking for full-time work .....	62	37	24	45	30	15	15	8	7	
Looking for part-time work .....	822	431	391	676	369	306	129	49	79	
Percent of labor force .....	20.1	21.1	19.2	18.1	19.8	16.4	47.7	40.0	55.1	
Not in labor force .....	7,671	3,923	3,749	5,997	3,100	2,897	1,376	657	719	
<b>Major activity: Other</b>										
Civilian noninstitutional population .....	11,101	5,363	5,738	9,219	4,430	4,790	1,631	790	841	
Civilian labor force .....	9,069	4,809	4,260	7,792	4,095	3,697	1,084	588	497	
Percent of population .....	81.7	89.7	74.2	84.5	92.5	77.2	66.5	74.3	59.1	
Employed .....	7,442	3,915	3,527	6,667	3,472	3,195	631	345	286	
Agriculture .....	314	257	57	300	243	58	10	9	1	
Nonagricultural industries .....	7,128	3,658	3,470	6,367	3,230	3,137	622	337	285	
Unemployed .....	1,628	894	734	1,125	623	502	453	242	211	
Looking for full-time work .....	1,497	850	647	1,024	598	427	429	227	202	
Looking for part-time work .....	130	44	86	100	25	75	24	15	8	
Percent of labor force .....	17.9	18.6	17.2	14.4	15.2	13.6	41.8	41.2	42.4	
Not in labor force .....	2,032	554	1,478	1,427	334	1,093	547	203	344	

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-7. Employment status of male Vietnam-era veterans and nonveterans by age**

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Oct. 1982	Oct. 1983	Total		Employed		Unemployed			
			Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Number		Percent of labor force	
							Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
<b>VETERANS</b>										
Total, 25 years and over .....	8,718	7,892	8,217	7,396	7,511	6,892	706	504	8.6	6.8
25 to 39 years .....	7,066	5,775	6,787	5,536	6,172	5,124	615	412	9.1	7.4
25 to 29 years .....	1,127	623	1,055	581	899	514	156	67	14.8	11.5
30 to 34 years .....	2,812	2,036	2,696	1,940	2,454	1,774	242	166	9.0	8.6
35 to 39 years .....	3,127	3,116	3,036	3,015	2,819	2,836	217	179	7.1	5.9
40 years and over .....	1,652	2,117	1,430	1,860	1,339	1,768	91	92	6.4	4.9
<b>NONVETERANS</b>										
Total, 25 to 39 years .....	18,504	20,277	17,529	19,092	15,913	17,690	1,616	1,402	9.2	7.3
25 to 29 years .....	8,253	8,760	7,767	8,191	6,905	7,503	862	688	11.1	8.4
30 to 34 years .....	6,127	6,943	5,824	6,567	5,362	6,133	462	434	7.9	6.6
35 to 39 years .....	4,124	4,574	3,938	4,334	3,646	4,054	292	280	7.4	6.5

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

are limited to those 25 to 39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Sex, age, and race	October 1983								
	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>									
Total, 16 years and over .....	95,511	82,161	5,665	7,685	8.0	16,531	14,833	1,698	10.3
16 to 19 years .....	3,490	2,014	629	846	24.3	4,128	3,347	780	18.9
16 to 17 years .....	436	198	99	140	32.2	2,319	1,832	487	21.0
18 to 19 years .....	3,053	1,817	531	706	23.1	1,809	1,515	293	16.2
20 years and over .....	92,021	80,147	5,036	6,839	7.4	12,403	11,485	918	7.4
20 to 24 years .....	13,331	10,311	1,246	1,774	13.3	2,606	2,301	304	11.7
25 years and over .....	78,690	69,836	3,790	5,065	6.4	9,798	9,183	613	6.3
25 to 54 years .....	66,556	58,879	3,150	4,527	6.8	6,701	6,219	481	7.2
55 years and over .....	12,134	10,957	640	537	4.4	3,097	2,965	132	4.3
<b>Men, 16 years and over .....</b>	<b>57,650</b>	<b>50,534</b>	<b>2,581</b>	<b>4,535</b>	<b>7.9</b>	<b>5,252</b>	<b>4,578</b>	<b>674</b>	<b>12.8</b>
16 to 19 years .....	1,980	1,170	331	480	24.2	2,002	1,613	389	19.4
20 years and over .....	55,669	49,365	2,250	4,055	7.3	3,250	2,965	284	8.7
20 to 24 years .....	7,353	5,731	602	1,020	13.9	1,107	966	141	12.7
25 years and over .....	48,317	43,633	1,648	3,035	6.3	2,143	1,999	143	6.7
25 to 54 years .....	40,545	36,496	1,367	2,681	6.6	901	812	88	9.8
55 years and over .....	7,773	7,138	281	354	4.6	1,242	1,187	55	4.4
<b>Women, 16 years and over .....</b>	<b>37,861</b>	<b>31,627</b>	<b>3,084</b>	<b>3,150</b>	<b>8.3</b>	<b>11,279</b>	<b>10,255</b>	<b>1,024</b>	<b>9.1</b>
16 to 19 years .....	1,509	845	298	366	24.3	2,126	1,735	391	18.4
20 years and over .....	36,352	30,782	2,786	2,784	7.7	9,153	8,520	633	6.9
20 to 24 years .....	5,978	4,580	644	754	12.6	1,499	1,335	164	10.9
25 years and over .....	30,374	26,202	2,142	2,030	6.7	7,654	7,185	470	6.1
25 to 54 years .....	26,012	22,383	1,783	1,846	7.1	5,800	5,407	393	6.8
55 years and over .....	4,362	3,819	359	184	4.2	1,854	1,778	77	4.2
<b>White</b>									
Men, 16 years and over .....	50,656	45,133	2,076	3,447	6.8	4,719	4,159	560	11.9
16 to 19 years .....	1,709	1,071	291	347	20.3	1,799	1,473	326	18.1
20 years and over .....	48,947	44,062	1,786	3,100	6.3	2,920	2,686	234	8.0
20 to 24 years .....	6,300	5,115	473	712	11.3	982	863	119	12.1
25 years and over .....	42,647	38,947	1,311	2,388	5.6	1,937	1,823	114	5.9
25 to 54 years .....	35,612	32,437	1,084	2,091	5.9	785	716	69	8.8
55 years and over .....	7,035	6,510	228	297	4.2	1,153	1,108	45	3.9
Women, 16 years and over .....	31,900	27,203	2,548	2,149	6.7	10,251	9,413	838	8.2
16 to 19 years .....	1,288	795	268	225	17.5	1,929	1,617	313	16.2
20 years and over .....	30,612	26,408	2,280	1,925	6.3	8,321	7,796	525	6.3
20 to 24 years .....	5,123	4,103	521	499	9.7	1,339	1,218	120	9.0
25 years and over .....	25,489	22,305	1,759	1,426	5.6	6,982	6,578	405	5.8
25 to 54 years .....	21,666	18,923	1,462	1,281	5.9	5,314	4,975	340	6.4
55 years and over .....	3,823	3,382	297	145	3.8	1,668	1,603	65	3.9
<b>Black</b>									
Men, 16 years and over .....	5,505	4,155	427	924	16.8	381	289	92	24.2
16 to 19 years .....	227	77	33	117	51.4	144	92	52	36.4
20 years and over .....	5,278	4,078	393	807	15.3	237	197	40	16.7
20 to 24 years .....	886	494	111	282	31.8	89	75	14	15.9
25 years and over .....	4,392	3,584	283	525	12.0	148	122	26	17.6
25 to 54 years .....	3,809	3,088	238	483	12.7	78	62	17	21.8
55 years and over .....	583	496	45	42	7.2	70	60	9	( <sup>2</sup> )
Women, 16 years and over .....	4,908	3,553	452	903	18.4	788	627	161	20.5
16 to 19 years .....	187	38	24	124	66.4	154	82	72	46.9
20 years and over .....	4,721	3,515	427	779	16.5	634	545	89	14.1
20 to 24 years .....	730	383	108	239	32.8	124	85	39	31.3
25 years and over .....	3,991	3,132	320	514	12.9	510	461	50	9.8
25 to 54 years .....	3,537	2,766	268	505	14.3	344	303	42	12.2
55 years and over .....	454	366	52	9	2.0	166	158	8	4.8

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	October 1983									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over .....	112,042	64.1	102,659	9,383	8.4	62,737	31,501	9,696	2,475	19,066
Husbands .....	35,715	79.4	37,797	1,918	4.8	10,298	163	211	858	9,066
With employed wife .....	22,922	91.8	21,951	972	4.2	2,052	58	109	285	1,600
With unemployed wife .....	1,509	91.8	1,270	239	15.8	135	1	8	24	101
With wife not in labor force .....	15,283	65.3	14,576	707	4.6	8,111	104	94	548	7,365
Wives .....	26,618	53.2	24,975	1,644	6.2	23,394	20,523	402	257	2,212
With employed husband .....	23,221	61.4	21,951	1,270	5.5	14,576	13,267	329	72	908
With unemployed husband .....	1,211	63.1	972	239	19.7	707	640	18	8	41
With husband not in labor force .....	2,187	21.2	2,052	135	6.2	8,111	6,615	55	178	1,263
Relatives in married-couple families .....	13,545	61.0	11,357	2,188	16.2	8,676	881	6,113	288	1,394
16 to 19 years .....	5,169	50.5	4,225	944	18.3	5,073	116	4,634	13	310
20 to 24 years .....	5,385	75.0	4,598	788	14.6	1,792	171	1,333	26	262
25 years and over .....	2,991	62.3	2,534	456	15.2	1,811	594	146	249	822
Women who maintain families .....	5,905	60.8	5,208	697	11.8	3,806	2,852	161	146	647
Relatives in families maintained by women .....	5,006	57.7	3,911	1,095	21.9	3,669	799	1,610	257	1,003
16 to 19 years .....	1,281	44.7	845	436	34.0	1,586	102	1,269	5	210
20 to 24 years .....	1,620	73.4	1,278	342	21.1	588	137	272	20	158
25 years and over .....	2,105	58.5	1,788	317	15.1	1,495	560	69	232	635
Men who maintain families .....	1,836	75.0	1,673	163	8.9	613	31	43	66	473
Relatives in families maintained by men .....	1,562	59.7	1,307	255	16.3	1,055	385	339	63	268
16 to 19 years .....	291	51.4	226	65	22.3	274	15	240	-	19
20 to 24 years .....	467	74.6	388	79	16.9	159	40	73	2	44
25 years and over .....	804	56.4	693	111	13.8	622	330	26	61	205
Persons living alone .....	10,630	53.7	9,968	662	6.2	9,163	5,139	221	421	3,382
Men .....	5,634	72.6	5,180	454	8.1	2,123	170	143	168	1,642
Women .....	4,996	41.5	4,788	208	4.2	7,040	4,969	78	253	1,740
All others <sup>1</sup> .....	7,225	77.8	6,463	761	10.5	2,063	728	596	119	621

<sup>1</sup> The majority of these persons are living with nonrelatives. Also included are persons in married-couple families where the husband is in

the Armed Forces, persons in secondary families, and some whose family status is unknown.

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
Total, 16 years and over .....	6,172	5,208	9.9	8.3	4,771	4,174	9.9	8.5
Married, spouse present .....	2,690	2,067	6.6	5.1	2,135	1,743	8.0	6.4
Widowed, divorced, or separated .....	726	670	13.1	11.3	881	876	9.5	9.1
Single (never married) .....	2,756	2,471	17.4	15.2	1,754	1,555	14.1	12.6
White, 16 years and over .....	4,755	4,007	8.6	7.2	3,579	2,987	8.6	7.1
Married, spouse present .....	2,227	1,713	6.0	4.7	1,795	1,457	7.5	6.0
Widowed, divorced, or separated .....	536	500	11.8	10.2	617	601	8.3	7.7
Single (never married) .....	1,992	1,794	14.8	13.1	1,167	930	11.4	9.2
Black, 16 years and over .....	1,215	1,016	20.9	17.3	1,065	1,064	18.9	18.7
Married, spouse present .....	345	271	11.6	9.2	276	221	12.8	10.3
Widowed, divorced, or separated .....	175	149	20.0	16.9	239	257	14.2	15.6
Single (never married) .....	696	596	35.2	28.9	550	587	30.5	30.9
Total, 25 years and over .....	3,757	3,178	7.6	6.3	2,855	2,499	7.7	6.6
Married, spouse present .....	2,361	1,845	6.2	4.8	1,715	1,393	7.2	5.7
Widowed, divorced, or separated .....	664	614	12.5	10.9	768	765	8.8	8.4
Single (never married) .....	731	720	12.0	11.1	372	342	8.2	7.4
White, 25 years and over .....	2,943	2,502	6.7	5.6	2,185	1,831	6.9	5.6
Married, spouse present .....	1,946	1,511	5.6	4.4	1,447	1,156	6.9	5.4
Widowed, divorced, or separated .....	489	453	11.3	9.7	541	516	7.8	7.0
Single (never married) .....	509	539	10.0	10.0	196	158	5.5	4.5
Black, 25 years and over .....	675	550	15.2	12.1	579	591	13.3	13.1
Married, spouse present .....	310	256	11.1	9.1	210	182	11.0	9.2
Widowed, divorced, or separated .....	163	140	19.4	16.4	205	230	12.8	14.5
Single (never married) .....	203	155	25.4	17.7	163	177	19.7	19.1

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-11. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
Total, 16 years and over .....	10,942	9,383	9.9	8.4	9.9	8.3	9.9	8.5
Managerial and professional specialty .....	851	655	3.5	2.7	( <sup>1</sup> )	2.7	( <sup>1</sup> )	2.6
Executive, administrative, and managerial .....	433	328	3.9	2.9	( <sup>1</sup> )	2.8	( <sup>1</sup> )	3.2
Professional specialty .....	418	327	3.1	2.4	( <sup>1</sup> )	2.6	( <sup>1</sup> )	2.3
Technical, sales, and administrative support .....	2,190	1,986	6.6	5.9	( <sup>1</sup> )	4.9	( <sup>1</sup> )	6.4
Technicians and related support .....	171	159	5.4	4.8	( <sup>1</sup> )	4.7	( <sup>1</sup> )	5.0
Sales occupations .....	783	794	6.4	6.2	( <sup>1</sup> )	4.3	( <sup>1</sup> )	8.2
Administrative support, including clerical .....	1,236	1,034	7.0	5.9	( <sup>1</sup> )	6.1	( <sup>1</sup> )	5.8
Service occupations .....	1,638	1,748	10.8	11.1	( <sup>1</sup> )	10.3	( <sup>1</sup> )	11.6
Private household .....	55	88	4.8	7.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.9
Protective service .....	136	123	7.9	7.0	( <sup>1</sup> )	6.6	( <sup>1</sup> )	9.6
Service, except private household and protective .....	1,447	1,538	11.8	11.9	( <sup>1</sup> )	11.6	( <sup>1</sup> )	12.1
Precision production, craft, and repair .....	1,334	1,133	10.3	8.2	( <sup>1</sup> )	7.9	( <sup>1</sup> )	10.6
Mechanics and repairers .....	272	301	6.6	6.7	( <sup>1</sup> )	6.6	( <sup>1</sup> )	10.0
Construction trades .....	655	512	14.1	10.1	( <sup>1</sup> )	9.9	( <sup>1</sup> )	18.3
Other precision production, craft, and repair .....	407	321	9.6	7.4	( <sup>1</sup> )	6.7	( <sup>1</sup> )	9.9
Operators, fabricators, and laborers .....	3,381	2,390	17.1	12.6	( <sup>1</sup> )	12.6	( <sup>1</sup> )	12.5
Machine operators, assemblers, and inspectors .....	1,758	1,122	18.8	12.2	( <sup>1</sup> )	11.9	( <sup>1</sup> )	12.6
Transportation and material moving occupations .....	565	456	11.8	9.5	( <sup>1</sup> )	9.5	( <sup>1</sup> )	8.5
Handlers, equipment cleaners, helpers, and laborers .....	1,058	812	18.9	16.5	( <sup>1</sup> )	17.0	( <sup>1</sup> )	14.1
Construction laborers .....	208	138	25.6	17.9	( <sup>1</sup> )	17.4	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	850	673	17.7	16.2	( <sup>1</sup> )	16.8	( <sup>1</sup> )	13.6
Farming, forestry, and fishing .....	332	370	7.7	9.2	( <sup>1</sup> )	8.8	( <sup>1</sup> )	11.4
No previous work experience .....	1,223	1,044	-	-	-	-	-	-
16 to 19 years .....	859	702	-	-	-	-	-	-
20 to 24 years .....	225	236	-	-	-	-	-	-
25 years and over .....	140	107	-	-	-	-	-	-

<sup>1</sup> Data for 1982 are not shown because they do not meet reliability standards for publication.

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

**A-12. Unemployed persons by industry and sex**

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
Total, 16 years and over .....	10,942	9,383	9.9	8.4	9.9	8.3	9.9	8.5
Nonagricultural private wage and salary workers .....	8,468	7,071	10.4	8.6	10.8	8.6	10.0	8.6
Mining .....	199	116	18.0	11.6	20.8	13.6	2.6	1.8
Construction .....	945	682	18.3	12.5	18.3	12.6	18.9	10.7
Manufacturing .....	2,931	1,958	13.2	9.0	12.6	8.6	14.4	9.8
Durable goods .....	1,949	1,234	14.8	9.6	14.5	9.2	15.5	10.4
Lumber and wood products .....	104	84	15.4	12.3	16.4	12.4	10.4	11.4
Furniture and fixtures .....	104	61	18.4	10.8	17.0	8.1	21.7	15.6
Stone, clay, and glass products .....	90	56	14.7	9.2	13.9	8.7	18.9	10.9
Primary metal industries .....	256	168	23.8	17.1	24.1	17.0	21.9	17.9
Fabricated metal products .....	213	195	16.1	13.5	16.5	12.1	14.8	17.3
Machinery, except electrical .....	409	229	14.5	8.7	14.4	9.0	14.7	7.6
Electrical machinery, equipment, and supplies .....	304	163	11.9	6.8	9.7	5.2	14.8	8.8
Transportation equipment .....	317	172	15.2	7.2	13.7	7.5	21.5	6.1
Automobiles .....	190	86	18.8	7.9	16.1	8.0	31.2	7.1
Other transportation equipment .....	127	86	11.8	6.7	11.4	7.0	13.6	5.4
Professional and photographic equipment .....	60	34	9.3	4.8	9.4	3.6	9.1	6.5
Other durable goods industries .....	92	74	10.9	14.3	9.3	11.6	13.2	17.1
Nondurable goods .....	982	725	10.9	8.3	9.1	7.5	13.4	9.3
Food and kindred products .....	211	210	10.9	11.7	10.6	10.9	11.5	13.3
Textile mill products .....	104	62	13.7	7.7	12.1	5.7	15.4	9.7
Apparel and other textile products .....	210	120	15.7	9.2	12.2	11.5	16.7	8.7
Paper and allied products .....	67	34	8.6	4.8	8.0	3.9	11.4	7.9
Printing and publishing .....	122	92	7.5	5.7	7.5	5.1	7.5	6.5
Chemicals and allied products .....	97	74	7.7	6.2	6.4	5.8	11.0	7.1
Rubber and miscellaneous plastics products .....	99	79	14.1	10.3	12.0	8.9	17.7	12.9
Other nondurable goods industries .....	73	54	11.7	9.6	6.4	8.9	17.9	9.7
Transportation and public utilities .....	404	369	7.0	6.5	7.3	6.5	6.1	6.4
Transportation .....	338	290	10.3	7.4	10.4	7.4	10.1	7.4
Communications and other public utilities .....	66	79	2.6	3.2	2.4	2.8	3.1	3.9
Wholesale and retail trade .....	2,077	2,020	9.9	9.4	8.6	8.2	11.4	10.8
Wholesale trade .....	305	294	7.5	6.7	6.8	6.6	9.1	6.9
Retail trade .....	1,772	1,726	10.5	10.2	9.2	8.8	11.8	11.3
Finance, insurance, and real estate .....	291	256	5.0	4.2	4.7	3.0	5.2	4.9
Service industries .....	1,619	1,669	8.0	7.9	8.3	8.6	7.8	7.5
Professional services .....	646	653	5.5	5.5	4.7	5.0	5.8	5.7
Other service industries .....	973	1,016	11.4	11.0	11.5	11.4	11.4	10.7
Agricultural wage and salary workers .....	216	271	11.5	14.7	10.0	13.4	17.0	20.1
Government, self-employed, and unpaid family workers .....	1,036	996	3.9	3.7	3.6	3.8	4.3	3.6
No previous work experience .....	1,223	1,044	-	-	-	-	-	-

NOTE: Data for 1982 are not fully comparable with 1983 data as a result of revisions in industrial classifications in 1983.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	10,942	9,383	5,137	4,339	3,882	3,417	1,924	1,627	8,334	6,994	2,280	2,080
Job losers .....	6,520	4,971	4,080	3,172	1,982	1,441	458	358	5,082	3,790	1,396	1,156
On layoff .....	1,942	1,098	1,268	696	581	345	93	57	1,659	925	250	150
Other job losers .....	4,578	3,873	2,812	2,476	1,401	1,096	365	301	3,423	2,865	1,146	1,006
Job leavers .....	847	935	285	372	412	433	150	130	656	770	22	22
Reentrants .....	2,357	2,432	636	641	1,261	1,354	460	437	1,776	1,756	517	589
New entrants .....	1,218	1,045	136	155	226	188	856	702	820	679	344	314
<b>PERCENT DISTRIBUTION</b>												
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	59.5	53.0	79.4	73.1	51.1	42.2	23.8	22.0	61.0	54.2	61.2	55.6
On layoff .....	17.7	11.7	24.7	16.0	15.0	10.1	4.8	3.5	19.9	13.2	11.0	7.2
Other job losers .....	41.8	41.3	54.7	57.1	36.1	32.1	19.0	18.5	41.1	41.0	50.3	48.4
Job leavers .....	7.7	10.0	5.6	8.6	10.6	12.7	7.8	8.0	7.9	11.0	1.0	1.1
Reentrants .....	21.5	25.9	12.4	14.8	32.5	39.6	23.9	26.8	21.3	25.1	22.7	28.3
New entrants .....	11.1	11.1	2.6	3.6	5.8	5.5	44.5	43.1	9.8	9.7	15.1	15.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	5.9	4.5	7.0	5.4	4.5	3.2	5.6	4.7	5.2	3.8	12.2	10.0
Job leavers .....	.8	.8	.5	.6	.9	1.0	1.9	1.7	.7	.8	.2	.2
Reentrants .....	2.1	2.2	1.1	1.1	2.8	3.0	5.7	5.7	1.8	1.8	4.5	5.1
New entrants .....	1.1	.9	.2	.3	.5	.4	10.6	9.2	.8	.7	3.0	2.7

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

(Percent distribution)

Reason, sex, and age	October 1983						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	9,383	100.0	37.1	27.7	35.2	12.8	22.4
Job losers .....	4,971	100.0	30.7	24.9	44.5	14.3	30.2
On layoff .....	1,098	100.0	44.5	22.8	32.7	10.7	22.0
Other job losers .....	3,873	100.0	26.7	25.5	47.8	15.3	32.5
Job leavers .....	935	100.0	45.1	30.2	24.7	9.8	14.9
Reentrants .....	2,432	100.0	44.8	31.1	24.1	9.9	14.2
New entrants .....	1,045	100.0	42.2	31.1	26.6	15.0	11.7
Men, 20 years and over .....	4,339	100.0	29.8	25.4	44.9	13.3	31.5
Job losers .....	3,172	100.0	28.2	23.2	48.6	14.1	34.5
On layoff .....	696	100.0	44.6	22.4	33.0	10.2	22.8
Other job losers .....	2,476	100.0	23.6	23.5	53.0	15.1	37.8
Job leavers .....	372	100.0	34.2	35.3	30.5	8.2	22.3
Reentrants .....	641	100.0	35.1	30.9	34.0	10.9	23.2
New entrants .....	155	100.0	29.2	23.4	47.4	20.9	26.5
Women, 20 years and over .....	3,417	100.0	41.0	27.6	31.4	12.6	18.8
Job losers .....	1,441	100.0	30.5	27.4	42.1	15.9	26.2
On layoff .....	345	100.0	41.5	21.7	36.8	12.6	24.3
Other job losers .....	1,096	100.0	27.1	29.1	43.8	17.0	26.8
Job leavers .....	433	100.0	51.2	24.8	24.1	12.0	12.1
Reentrants .....	1,354	100.0	49.2	28.9	21.9	8.9	13.0
New entrants .....	188	100.0	38.3	27.2	34.5	15.3	19.2
Both sexes, 16 to 19 years .....	1,627	100.0	48.3	34.1	17.6	11.7	5.9
Job losers .....	358	100.0	53.3	29.7	17.1	9.8	7.3
On layoff .....	57	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	301	100.0	51.6	28.8	19.6	10.6	9.0
Job leavers .....	130	100.0	55.8	33.7	10.5	7.3	3.1
Reentrants .....	437	100.0	45.5	38.0	16.5	11.7	4.8
New entrants .....	702	100.0	46.1	33.9	19.9	13.6	6.4

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

**A-15. Unemployed persons by duration of unemployment**

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
Total, 16 years and over .....	10,942	9,383	100.0	100.0	9,147	7,685	100.0	100.0
Less than 5 weeks .....	3,846	3,477	35.1	37.1	2,965	2,525	32.4	32.9
5 to 14 weeks .....	3,292	2,600	30.1	27.7	2,699	2,080	29.5	27.1
5 to 10 weeks .....	2,456	1,931	22.4	20.6	1,976	1,510	21.6	19.6
11 to 14 weeks .....	836	669	7.6	7.1	723	570	7.9	7.4
15 weeks and over .....	3,804	3,306	34.8	35.2	3,483	3,080	38.1	40.1
15 to 26 weeks .....	1,727	1,200	15.8	12.8	1,550	1,077	16.9	14.0
27 weeks and over .....	2,077	2,106	19.0	22.4	1,933	2,004	21.1	26.1
27 to 51 weeks .....	1,044	712	9.5	7.6	986	683	10.8	8.9
52 weeks and over .....	1,033	1,393	9.4	14.8	947	1,321	10.4	17.2
Average (mean) duration, in weeks .....	16.9	19.8	-	-	18.2	22.2	-	-
Median duration, in weeks .....	8.8	8.5	-	-	9.8	10.2	-	-

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-16. Unemployed persons by sex, age, race, marital status, and duration of unemployment**

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
	October 1983										
Total, 16 years and over .....	9,383	3,477	2,600	1,200	2,106	19.8	8.5	35.1	37.1	34.8	35.2
16 to 19 years .....	1,627	786	554	191	96	9.6	5.3	44.4	48.3	24.6	17.6
20 to 24 years .....	2,078	861	580	277	360	16.4	7.4	35.5	41.4	31.9	30.7
25 to 34 years .....	2,680	938	709	364	668	21.8	9.6	34.8	35.0	35.3	38.5
35 to 44 years .....	1,418	427	382	163	445	24.7	11.9	29.1	30.1	39.7	42.9
45 to 54 years .....	911	265	219	122	304	26.1	12.8	31.4	29.1	43.2	46.8
55 to 64 years .....	575	176	118	73	208	29.2	14.2	29.8	30.6	46.2	48.9
65 years and over .....	94	24	37	9	25	22.0	9.1	30.5	25.1	42.8	35.6
Men, 16 years and over .....	5,208	1,700	1,402	679	1,428	23.3	10.2	31.7	32.6	39.1	40.4
16 to 19 years .....	869	409	301	101	60	10.4	5.5	42.8	47.0	26.8	18.4
20 to 24 years .....	1,161	431	332	163	234	18.6	8.5	30.2	37.1	35.8	34.2
25 to 34 years .....	1,459	433	353	206	467	26.8	12.8	31.1	29.7	40.2	46.1
35 to 44 years .....	796	198	211	82	305	29.4	14.3	26.8	24.9	44.3	48.6
45 to 54 years .....	514	122	122	78	192	29.0	17.0	28.4	23.8	49.9	52.5
55 to 64 years .....	359	95	68	42	153	32.8	19.7	28.6	26.4	49.1	54.6
65 years and over .....	50	11	16	7	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	4,174	1,777	1,198	521	678	15.5	6.6	39.6	42.6	29.2	28.7
16 to 19 years .....	757	378	253	90	36	8.8	5.0	46.2	49.8	22.0	16.7
20 to 24 years .....	918	430	248	114	125	13.7	5.8	42.7	46.8	26.6	26.1
25 to 34 years .....	1,221	505	357	158	201	15.9	6.8	39.7	41.4	28.9	29.4
35 to 44 years .....	622	229	171	81	140	18.6	9.3	32.1	36.8	33.9	35.7
45 to 54 years .....	397	143	98	45	112	22.3	8.7	35.1	36.0	34.7	39.4
55 to 64 years .....	216	81	50	31	54	23.2	9.0	31.8	37.6	41.6	39.5
65 years and over .....	44	12	21	2	9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	6,994	2,686	1,898	884	1,525	19.0	8.0	35.5	38.4	33.4	34.4
Men .....	4,007	1,336	1,071	531	1,069	22.4	9.9	31.6	33.3	38.0	39.9
Women .....	2,987	1,350	827	353	456	14.6	6.0	40.7	45.2	27.3	27.1
Black, 16 years and over .....	2,080	651	612	287	531	23.1	9.5	33.1	31.3	40.6	39.3
Men .....	1,016	289	271	133	323	27.8	11.8	31.9	28.5	43.7	44.9
Women .....	1,064	361	341	154	208	18.6	8.0	34.4	33.9	37.1	34.1
Men, 16 years and over:											
Married, spouse present .....	2,067	582	466	277	741	28.1	14.5	29.8	28.2	42.3	49.3
Widowed, divorced, or separated .....	670	191	167	94	217	26.5	13.3	29.6	28.6	42.5	46.5
Single (never married) .....	2,471	926	769	307	469	18.4	8.0	34.1	37.5	35.0	31.4
Women, 16 years and over:											
Married, spouse present .....	1,743	766	453	228	296	15.2	6.4	39.8	43.9	26.7	30.1
Widowed, divorced, or separated .....	876	317	258	116	186	19.2	8.4	35.1	36.1	35.2	34.5
Single (never married) .....	1,555	694	487	177	196	13.9	6.1	41.7	44.7	29.1	24.0

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



**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-17. Unemployed persons by occupation, industry, and duration of unemployment**

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
	October 1983										
<b>OCCUPATION</b>											
Managerial and professional specialty .....	655	187	190	100	178	21.9	11.6	34.7	28.5	35.2	42.5
Technical, sales, and administrative support .....	1,986	784	585	263	354	16.6	7.2	36.3	39.5	32.2	31.1
Service occupations .....	1,748	717	509	216	305	16.5	7.1	40.6	41.0	29.7	29.8
Precision production, craft, and repair .....	1,133	366	299	129	339	23.6	10.2	31.7	32.3	40.2	41.4
Operators, fabricators, and laborers .....	2,390	809	547	286	748	26.0	10.8	31.5	33.8	38.4	43.3
Farming, forestry, and fishing .....	370	158	122	37	53	14.1	6.5	36.2	42.7	27.9	24.3
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	271	108	95	31	37	13.8	7.2	39.6	40.0	24.6	25.0
Construction .....	715	266	219	86	144	18.2	7.8	31.9	37.1	36.9	32.3
Manufacturing .....	1,961	574	426	242	720	29.2	14.4	30.5	29.3	40.8	49.0
Durable goods .....	1,237	313	234	162	529	33.7	20.3	26.9	25.3	44.8	55.8
Nondurable goods .....	724	261	192	80	191	21.6	9.0	37.7	36.1	32.8	37.4
Transportation and public utilities .....	436	133	108	53	142	26.3	12.1	24.4	30.4	39.5	44.8
Wholesale and retail trade .....	2,034	866	541	269	357	16.4	6.9	38.1	42.6	30.4	30.8
Finance and service industries .....	2,311	890	672	306	443	17.4	7.5	38.9	38.5	31.2	32.5
Public administration .....	316	97	139	34	46	16.5	8.3	37.0	30.8	38.1	25.2
No previous work experience .....	1,044	441	325	156	122	14.4	6.9	39.3	42.2	32.2	26.6

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-18. Unemployed jobseekers by sex, age, race, and jobsearch methods used**

Sex, age, and race	October 1983								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	9,383	8,156	24.2	5.4	77.4	34.7	15.4	4.7	1.62
16 to 19 years .....	1,627	1,539	13.8	3.1	83.9	26.3	10.9	4.7	1.43
20 to 24 years .....	2,078	1,890	24.4	4.6	78.4	35.7	13.4	4.6	1.61
25 to 34 years .....	2,680	2,282	29.1	5.7	74.8	39.9	16.2	3.6	1.69
35 to 44 years .....	1,418	1,155	26.9	8.8	76.8	33.9	17.5	5.3	1.69
45 to 54 years .....	911	720	25.8	5.1	76.5	34.2	20.7	5.1	1.67
55 to 64 years .....	575	481	24.9	6.9	69.9	36.2	18.9	7.5	1.64
65 years and over .....	94	88	21.6	4.5	67.0	28.4	22.7	11.4	1.56
Men, 16 years and over .....	5,208	4,411	27.0	5.5	78.7	32.7	18.1	5.9	1.68
16 to 19 years .....	869	817	15.2	3.5	82.7	24.5	13.7	4.8	1.44
20 to 24 years .....	1,161	1,043	25.0	4.3	82.6	31.1	15.3	4.9	1.63
25 to 34 years .....	1,459	1,194	32.8	5.8	75.9	40.4	19.3	5.0	1.79
35 to 44 years .....	796	615	33.3	9.1	79.0	31.7	19.3	6.8	1.79
45 to 54 years .....	514	397	29.7	5.8	76.3	33.5	26.2	7.6	1.79
55 to 64 years .....	359	296	28.0	6.1	67.9	33.1	20.6	10.8	1.67
65 years and over .....	50	49	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	4,174	3,745	20.9	5.3	75.9	37.0	12.2	3.4	1.55
16 to 19 years .....	757	722	12.2	2.5	85.2	28.3	7.8	4.7	1.41
20 to 24 years .....	918	847	23.6	5.1	73.3	41.3	11.1	4.1	1.59
25 to 34 years .....	1,221	1,087	24.9	5.5	73.6	39.6	12.8	2.1	1.59
35 to 44 years .....	622	541	19.6	8.7	73.9	36.4	15.3	3.5	1.57
45 to 54 years .....	397	324	21.0	4.3	76.9	34.9	13.9	2.2	1.53
55 to 64 years .....	216	186	20.4	8.1	72.6	41.4	15.6	2.2	1.60
65 years and over .....	44	40	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	6,994	5,951	23.3	5.7	77.2	36.4	15.6	5.1	1.63
Men .....	4,007	3,315	25.8	5.9	78.9	34.6	17.9	6.4	1.70
Women .....	2,987	2,635	20.2	5.4	75.0	38.7	12.6	3.5	1.55
Black, 16 years and over .....	2,080	1,926	26.8	4.7	78.0	13.9	28.2	3.6	1.55
Men .....	1,016	928	31.5	4.2	77.5	17.5	25.2	4.2	1.60
Women .....	1,064	998	22.5	5.0	78.6	10.6	31.0	2.9	1.51

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

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or waiting to begin a new 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.

**A-19. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used**

Sex and reason	October 1983								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	9,383	8,156	24.2	5.4	77.4	34.7	15.4	4.7	1.62
Job losers <sup>1</sup> .....	4,971	3,872	31.0	6.5	78.5	36.3	18.8	4.7	1.76
Job leavers .....	935	927	21.0	5.0	77.1	39.3	14.0	2.7	1.59
Reentrants .....	2,432	2,323	18.0	5.0	73.4	34.4	11.7	5.9	1.48
New entrants .....	1,045	1,034	15.4	2.3	82.5	25.0	12.1	4.3	1.42
Men, 16 years and over .....	5,208	4,411	27.0	5.5	78.7	32.7	18.1	5.9	1.68
Job losers <sup>1</sup> .....	3,416	2,678	32.8	6.3	79.2	34.0	20.0	5.5	1.78
Job leavers .....	431	427	17.6	3.5	77.0	41.7	19.7	4.4	1.64
Reentrants .....	858	805	19.6	5.3	75.9	28.3	12.4	9.7	1.51
New entrants .....	504	501	16.0	2.6	81.4	25.1	15.6	3.2	1.44
Women, 16 years and over .....	4,174	3,745	20.9	5.3	75.9	37.0	12.2	3.4	1.55
Job losers <sup>1</sup> .....	1,555	1,193	27.1	7.0	76.9	41.4	16.0	2.8	1.71
Job leavers .....	505	501	24.0	6.2	77.0	37.1	9.2	1.2	1.55
Reentrants .....	1,574	1,518	17.1	4.7	72.1	37.5	11.2	3.8	1.47
New entrants .....	541	533	15.0	2.1	83.5	25.1	8.8	5.3	1.40

<sup>1</sup> Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

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

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-20. Employed civilians in agriculture and nonagricultural industries by age and sex**

(In thousands)

Industry and age	Total		Men		Women	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
All industries .....	99,825	102,659	56,203	57,693	43,622	44,966
16 to 19 years .....	6,182	5,991	3,147	3,113	3,036	2,878
16 to 17 years .....	2,318	2,128	1,165	1,087	1,152	1,042
18 to 19 years .....	3,865	3,863	1,981	2,027	1,883	1,836
20 to 24 years .....	13,562	13,858	7,123	7,299	6,439	6,559
25 to 54 years .....	65,815	68,248	37,346	38,675	28,270	29,572
25 to 34 years .....	28,387	29,508	18,059	16,651	12,328	12,857
35 to 44 years .....	21,288	22,661	12,073	12,795	9,215	9,866
45 to 54 years .....	15,940	16,079	9,213	9,229	6,727	6,849
55 to 64 years .....	11,517	11,486	6,827	6,766	4,689	4,719
55 to 59 years .....	7,001	6,955	4,157	4,124	2,844	2,832
60 to 64 years .....	4,516	4,530	2,670	2,643	1,846	1,887
65 years and over .....	2,948	3,076	1,760	1,840	1,187	1,237
Agriculture .....	3,618	3,407	2,910	2,726	708	681
16 to 19 years .....	389	261	319	216	70	45
16 to 17 years .....	162	119	131	101	31	18
18 to 19 years .....	227	142	188	115	39	27
20 to 24 years .....	480	470	402	399	79	71
25 to 54 years .....	1,910	1,814	1,481	1,416	429	398
25 to 34 years .....	787	757	633	607	154	149
35 to 44 years .....	579	583	445	454	134	129
45 to 54 years .....	544	474	403	354	141	119
55 to 64 years .....	530	550	432	422	98	128
55 to 59 years .....	302	302	233	226	69	76
60 to 64 years .....	228	248	199	196	28	51
65 years and over .....	310	313	277	274	33	39
Nonagricultural industries .....	96,207	99,252	53,293	54,967	42,914	44,285
16 to 19 years .....	5,794	5,730	2,828	2,898	2,966	2,833
16 to 17 years .....	2,156	2,009	1,035	986	1,121	1,023
18 to 19 years .....	3,638	3,721	1,794	1,912	1,845	1,809
20 to 24 years .....	13,082	13,388	6,721	6,900	6,361	6,488
25 to 54 years .....	83,706	66,434	35,864	37,280	27,840	29,174
25 to 34 years .....	27,600	28,752	15,426	16,044	12,174	12,708
35 to 44 years .....	20,709	22,078	11,628	12,341	9,081	9,737
45 to 54 years .....	15,398	15,605	8,810	8,875	6,588	6,730
55 to 64 years .....	10,987	10,936	6,395	6,344	4,592	4,592
55 to 59 years .....	6,699	6,653	3,925	3,897	2,775	2,756
60 to 64 years .....	4,288	4,282	2,471	2,447	1,817	1,836
65 years and over .....	2,838	2,764	1,483	1,566	1,155	1,198

A-21. Employed civilians by occupation, sex, and age

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
Total .....	99,825	102,659	56,203	57,693	53,056	54,580	43,622	44,966	40,586	42,088
Managerial and professional specialty .....	23,510	23,863	13,869	13,986	13,788	13,909	9,641	9,877	9,522	9,787
Executive, administrative, and managerial .....	10,594	10,841	7,232	7,263	7,186	7,239	3,363	3,579	3,325	3,554
Officials and administrators, public administration .....	( <sup>1</sup> )	526	( <sup>1</sup> )	348	( <sup>1</sup> )	348	( <sup>1</sup> )	178	( <sup>1</sup> )	178
Other executive, administrative, and managerial .....	( <sup>1</sup> )	7,395	( <sup>1</sup> )	5,231	( <sup>1</sup> )	5,211	( <sup>1</sup> )	2,164	( <sup>1</sup> )	2,146
Management-related occupations .....	( <sup>1</sup> )	2,920	( <sup>1</sup> )	1,683	( <sup>1</sup> )	1,679	( <sup>1</sup> )	1,237	( <sup>1</sup> )	1,230
Professional specialty .....	12,916	13,022	6,637	6,724	6,602	6,671	6,279	6,298	6,197	6,233
Engineers .....	1,522	1,595	1,412	1,505	1,411	1,506	110	90	110	90
Mathematical and computer scientists .....	575	432	427	330	427	324	148	101	148	101
Natural scientists .....	363	317	297	260	297	261	66	57	66	57
Health diagnosing occupations .....	677	690	597	600	598	600	80	90	80	88
Health assessment and treating occupations .....	1,856	1,899	286	254	286	254	1,570	1,646	1,563	1,646
Teachers, college and university .....	654	717	397	439	392	436	257	278	251	272
Teachers, except college and university .....	3,582	3,473	1,077	1,071	1,071	1,018	2,505	2,446	2,471	2,405
Lawyers and judges .....	615	641	528	530	528	527	87	112	87	112
Other professional specialty occupations .....	3,073	3,257	1,617	1,778	1,593	1,745	1,456	1,479	1,419	1,461
Technical, sales, and administrative support .....	30,824	31,800	10,930	11,338	10,426	10,793	19,895	20,462	18,389	19,013
Technicians and related support .....	2,997	3,114	1,586	1,636	1,565	1,622	1,411	1,478	1,365	1,455
Health technologists and technicians .....	1,029	1,103	172	166	171	164	857	937	842	925
Engineering and science technicians .....	1,153	1,043	877	857	863	848	276	185	254	179
Technicians, except health, engineering, and science .....	815	968	537	613	530	610	278	355	268	350
Sales occupations .....	11,408	12,084	6,210	6,356	5,897	5,987	5,197	5,728	4,378	4,947
Supervisors and proprietors .....	2,842	3,129	2,228	2,217	2,212	2,196	614	912	598	896
Sales representatives, finance and business services .....	1,788	1,875	1,128	1,175	1,123	1,167	660	700	634	688
Sales representatives, commodities, except retail .....	1,426	1,397	1,208	1,187	1,199	1,173	218	210	207	205
Sales workers, retail and personal services .....	5,329	5,641	1,639	1,755	1,356	1,433	3,690	3,885	2,923	3,141
Sales-related occupations .....	23	42	8	21	7	18	15	21	16	18
Administrative support, including clerical .....	16,420	16,602	3,133	3,346	2,964	3,184	13,286	13,256	12,646	12,611
Supervisors .....	( <sup>1</sup> )	730	( <sup>1</sup> )	322	( <sup>1</sup> )	322	( <sup>1</sup> )	409	( <sup>1</sup> )	408
Computer equipment operators .....	605	621	216	230	208	225	389	391	372	374
Secretaries, stenographers, and typists .....	4,919	4,898	81	81	75	74	4,838	4,817	4,594	4,599
Financial records processing .....	2,438	2,397	213	246	209	239	2,225	2,152	2,170	2,095
Mail and message distributing .....	791	836	538	551	524	535	253	285	239	273
Other administrative support, including clerical .....	( <sup>1</sup> )	7,120	( <sup>1</sup> )	1,916	( <sup>1</sup> )	1,788	( <sup>1</sup> )	5,203	( <sup>1</sup> )	4,862
Service occupations .....	13,467	14,034	5,278	5,498	4,417	4,615	8,189	8,535	7,089	7,493
Private household .....	1,090	1,031	36	57	24	36	1,054	974	867	783
Protective service .....	1,577	1,624	1,401	1,416	1,379	1,392	176	208	165	196
Service, except private household and protective .....	10,800	11,378	3,841	4,025	3,014	3,187	6,959	7,353	6,056	6,514
Food service .....	4,916	4,963	1,767	1,845	1,184	1,224	3,149	3,118	2,506	2,524
Health service .....	1,702	1,752	171	172	160	161	1,531	1,580	1,416	1,469
Cleaning and building service .....	2,520	2,706	1,550	1,630	1,358	1,460	970	1,076	898	1,009
Personal service .....	1,661	1,958	353	378	313	342	1,309	1,580	1,237	1,512
Precision production, craft, and repair .....	11,677	12,745	10,867	11,675	10,579	11,343	810	1,069	789	1,026
Mechanics and repairers .....	3,862	4,196	3,728	4,081	3,602	3,973	133	116	128	112
Construction trades .....	3,999	4,554	3,897	4,474	3,784	4,324	103	81	101	80
Other precision production, craft, and repair .....	3,816	3,994	3,242	3,121	3,192	3,046	574	873	560	834
Operators, fabricators, and laborers .....	16,359	16,556	11,929	12,118	10,949	11,121	4,431	4,437	4,199	4,227
Machine operators, assemblers, and inspectors .....	7,582	8,072	4,373	4,673	4,206	4,493	3,210	3,399	3,090	3,307
Manufacturing industries .....	6,363	6,736	3,563	3,826	3,461	3,696	2,800	2,910	2,709	2,836
Durable goods .....	3,503	3,649	2,247	2,492	2,191	2,413	1,256	1,157	1,220	1,131
Non-durable goods .....	2,860	3,087	1,317	1,334	1,269	1,283	1,544	1,754	1,488	1,705
Nonmanufacturing industries .....	1,219	1,337	809	847	745	798	410	489	381	470
Transportation and material moving occupations .....	4,232	4,368	3,887	4,035	3,750	3,926	345	333	321	314
Motor vehicle operators .....	2,986	3,090	2,691	2,815	2,592	2,740	296	275	273	262
Other transportation and material moving occupations .....	1,246	1,278	1,197	1,220	1,159	1,185	49	58	48	52
Handlers, equipment cleaners, helpers, and laborers .....	4,545	4,115	3,669	3,410	2,992	2,703	876	705	788	606
Construction laborers .....	603	634	590	630	506	554	13	5	13	5
Other handlers, equipment cleaners, helpers, and laborers .....	3,942	3,481	3,078	2,781	2,487	2,148	864	700	775	601
Farming, forestry, and fishing .....	3,970	3,661	3,332	3,077	2,896	2,798	638	584	581	542
Farm operators and managers .....	1,524	1,464	1,332	1,262	1,315	1,247	192	203	190	202
Other farming, forestry, and fishing occupations .....	2,446	2,197	2,000	1,815	1,580	1,551	446	382	392	339

<sup>1</sup> Data for 1982 are not shown because they do not meet reliability standards for publication.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-22. Employed civilians by occupation, race, and sex**

(Percent distribution)

Occupation and race	Total		Men		Women	
	October 1982	October 1983	October 1982	October 1983	October 1982	October 1983
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	99,825	102,659	56,203	57,693	43,622	44,966
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	23.6	23.2	24.7	24.2	22.1	22.0
Executive, administrative, and managerial .....	10.6	10.6	12.9	12.6	7.7	8.0
Professional specialty .....	12.9	12.7	11.8	11.7	14.4	14.0
Technical, sales, and administrative support .....	30.9	31.0	19.4	19.7	45.6	45.5
Technicians and related support .....	3.0	3.0	2.8	2.8	3.2	3.3
Sales occupations .....	11.4	11.8	11.0	11.0	11.9	12.7
Administrative support, including clerical .....	16.5	16.2	5.6	5.8	30.5	29.5
Service occupations .....	13.5	13.7	9.4	9.5	18.8	19.0
Private household .....	1.1	1.0	.1	.1	2.4	2.2
Protective service .....	1.6	1.6	2.5	2.5	.4	.5
Service, except private household and protective .....	10.8	11.1	6.8	7.0	16.0	16.4
Precision production, craft, and repair .....	11.7	12.4	19.3	20.2	1.9	2.4
Operators, fabricators, and laborers .....	16.4	16.1	21.2	21.0	10.2	9.9
Machine operators, assemblers, and inspectors .....	7.6	7.9	7.8	8.1	7.4	7.6
Transportation and material moving occupations .....	4.2	4.3	6.9	7.0	.8	.7
Handlers, equipment cleaners, helpers, and laborers .....	4.6	4.0	6.5	5.9	2.0	1.6
Farming, forestry, and fishing .....	4.0	3.6	5.9	5.3	1.5	1.3
<b>White</b>						
Total, 16 years and over (thousands) .....	88,145	90,532	50,232	51,368	37,913	39,164
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	24.6	24.3	25.8	25.5	22.9	22.7
Executive, administrative, and managerial .....	11.3	11.2	13.7	13.3	8.2	8.3
Professional specialty .....	13.3	13.1	12.2	12.1	14.7	14.4
Technical, sales, and administrative support .....	31.5	31.7	19.9	20.1	46.9	46.9
Technicians and related support .....	3.0	3.0	2.9	2.9	3.2	3.2
Sales occupations .....	12.0	12.4	11.6	11.7	12.6	13.4
Administrative support, including clerical .....	16.4	16.3	5.3	5.6	31.1	30.3
Service occupations .....	12.3	12.3	8.4	8.5	17.4	17.4
Private household .....	.9	.8	( <sup>1</sup> )	.1	2.0	1.7
Protective service .....	1.5	1.5	2.4	2.3	.4	.4
Service, except private household and protective .....	9.9	10.1	6.0	6.1	15.1	15.3
Precision production, craft, and repair .....	12.1	12.8	19.9	20.7	1.8	2.3
Operators, fabricators, and laborers .....	15.5	15.2	20.0	19.8	9.5	9.2
Machine operators, assemblers, and inspectors .....	7.1	7.3	7.3	7.7	6.7	7.0
Transportation and material moving occupations .....	4.2	4.1	6.8	6.6	.8	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.2	3.7	6.0	5.5	1.9	1.5
Farming, forestry, and fishing .....	4.1	3.7	6.0	5.4	1.6	1.4
<b>Black</b>						
Total, 16 years and over (thousands) .....	9,182	9,502	4,609	4,871	4,573	4,631
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	( <sup>2</sup> )	13.1	( <sup>2</sup> )	10.9	( <sup>2</sup> )	15.5
Executive, administrative, and managerial .....	( <sup>2</sup> )	5.1	( <sup>2</sup> )	5.4	( <sup>2</sup> )	4.8
Professional specialty .....	( <sup>2</sup> )	8.0	( <sup>2</sup> )	5.5	( <sup>2</sup> )	10.7
Technical, sales, and administrative support .....	( <sup>2</sup> )	25.0	( <sup>2</sup> )	14.8	( <sup>2</sup> )	35.8
Technicians and related support .....	( <sup>2</sup> )	3.0	( <sup>2</sup> )	1.9	( <sup>2</sup> )	4.1
Sales occupations .....	( <sup>2</sup> )	5.9	( <sup>2</sup> )	4.5	( <sup>2</sup> )	7.4
Administrative support, including clerical .....	( <sup>2</sup> )	16.1	( <sup>2</sup> )	8.3	( <sup>2</sup> )	24.4
Service occupations .....	( <sup>2</sup> )	25.1	( <sup>2</sup> )	18.6	( <sup>2</sup> )	32.0
Private household .....	( <sup>2</sup> )	3.3	( <sup>2</sup> )	.3	( <sup>2</sup> )	6.5
Protective service .....	( <sup>2</sup> )	2.7	( <sup>2</sup> )	4.2	( <sup>2</sup> )	1.0
Service, except private household and protective .....	( <sup>2</sup> )	19.2	( <sup>2</sup> )	14.1	( <sup>2</sup> )	24.5
Precision production, craft, and repair .....	( <sup>2</sup> )	9.4	( <sup>2</sup> )	16.2	( <sup>2</sup> )	2.1
Operators, fabricators, and laborers .....	( <sup>2</sup> )	24.9	( <sup>2</sup> )	34.9	( <sup>2</sup> )	14.4
Machine operators, assemblers, and inspectors .....	( <sup>2</sup> )	12.1	( <sup>2</sup> )	12.6	( <sup>2</sup> )	11.5
Transportation and material moving occupations .....	( <sup>2</sup> )	6.2	( <sup>2</sup> )	11.4	( <sup>2</sup> )	.7
Handlers, equipment cleaners, helpers, and laborers .....	( <sup>2</sup> )	6.7	( <sup>2</sup> )	10.9	( <sup>2</sup> )	2.2
Farming, forestry, and fishing .....	( <sup>2</sup> )	2.4	( <sup>2</sup> )	4.6	( <sup>2</sup> )	.2

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

<sup>2</sup> Data for 1982 are not shown because they do not meet reliability

standards for publication.

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

(In thousands)

Age and sex	October 1983								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over .....	91,073	1,295	15,703	74,075	7,772	408	1,571	1,584	252
16 to 19 years .....	5,623	272	330	5,021	84	23	181	26	54
16 to 17 years .....	1,946	173	82	1,691	50	13	79	8	32
18 to 19 years .....	3,677	99	248	3,330	34	10	102	18	22
20 to 24 years .....	13,003	176	1,285	11,542	361	25	328	112	30
25 to 34 years .....	26,787	151	4,485	22,151	1,904	60	430	288	39
35 to 44 years .....	19,903	170	4,235	15,497	2,042	133	248	295	40
45 to 54 years .....	13,952	193	2,990	10,769	1,567	86	148	288	38
55 to 64 years .....	9,637	192	2,012	7,433	1,241	57	172	338	39
55 to 59 years .....	5,930	89	1,279	4,561	691	33	111	170	21
60 to 64 years .....	3,707	103	733	2,871	551	25	61	168	18
65 years and over .....	2,168	140	365	1,662	572	24	63	237	12
Men, 16 years and over .....	49,697	217	7,653	41,827	5,222	48	1,273	1,360	93
16 to 19 years .....	2,822	78	120	2,625	55	21	142	27	47
16 to 17 years .....	938	46	25	867	35	13	64	9	28
18 to 19 years .....	1,884	32	94	1,758	20	8	78	18	18
20 to 24 years .....	6,640	39	567	6,033	255	6	279	98	21
25 to 34 years .....	14,785	25	2,113	12,648	1,254	5	349	247	12
35 to 44 years .....	10,978	19	2,079	8,880	1,363	-	202	252	-
45 to 54 years .....	7,835	17	1,552	6,265	1,035	6	113	237	4
55 to 64 years .....	5,463	16	1,023	4,424	875	7	131	287	4
55 to 59 years .....	3,408	8	647	2,754	487	2	81	145	1
60 to 64 years .....	2,054	8	376	1,670	388	4	50	142	4
65 years and over .....	1,175	23	200	952	386	5	56	213	5
Women, 16 years and over .....	41,376	1,078	8,050	32,248	2,550	360	298	224	159
16 to 19 years .....	2,801	195	210	2,396	29	2	39	-	8
16 to 17 years .....	1,008	127	57	824	15	-	15	-	4
18 to 19 years .....	1,793	67	153	1,572	14	2	23	-	4
20 to 24 years .....	6,363	137	718	5,508	106	19	49	13	9
25 to 34 years .....	12,002	126	2,372	9,503	651	56	82	41	27
35 to 44 years .....	8,925	151	2,156	6,618	679	133	46	43	40
45 to 54 years .....	6,118	175	1,439	4,504	532	81	35	51	33
55 to 64 years .....	4,174	176	989	3,009	367	51	41	52	35
55 to 59 years .....	2,521	81	632	1,808	204	30	30	25	21
60 to 64 years .....	1,653	95	357	1,201	163	20	11	26	14
65 years and over .....	993	117	165	710	187	19	7	24	7

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-24. Employed civilians by industry and occupation**

(In thousands)

Industry	October 1983												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	3,407	47	48	14	11	101	-	14	49	3	55	26	3,038
Mining .....	903	155	81	41	5	125	-	6	293	43	130	24	-
Construction .....	6,474	711	131	63	77	375	-	45	3,741	91	494	723	24
Manufacturing .....	20,283	2,036	1,568	692	628	2,499	-	392	3,906	6,736	827	900	99
Durable goods .....	12,040	1,176	1,066	491	276	1,503	-	199	2,723	3,649	447	421	90
Nondurable goods .....	8,243	860	501	201	352	996	-	194	1,183	3,087	381	479	10
Transportation and public utilities .....	7,048	676	357	223	227	1,908	-	211	1,256	124	1,588	462	16
Wholesale and retail trade .....	21,652	1,708	371	111	8,988	2,229	-	4,065	1,424	306	797	1,636	16
Wholesale trade .....	4,431	481	79	53	1,680	879	-	63	308	135	445	299	9
Retail trade .....	17,221	1,226	293	59	7,308	1,350	-	4,003	1,116	171	353	1,337	7
Finance, insurance, and real estate .....	6,598	1,467	131	127	1,530	2,854	-	262	135	17	6	22	46
Services .....	31,645	3,088	9,700	1,632	602	5,191	1,031	6,882	1,700	710	430	292	386
Private households .....	1,296	4	10	22	-	23	1,031	45	17	2	5	33	102
Other service industries .....	30,349	3,084	9,690	1,610	603	5,168	-	6,835	1,683	708	425	258	284
Professional services .....	20,993	1,764	8,787	1,363	124	3,866	-	4,098	400	189	244	70	88
Public administration .....	4,649	953	634	210	17	1,320	-	1,126	240	42	40	30	36

<sup>1</sup> Includes protective service, not shown separately.

NOTE: Detail may not add to totals because of changes in the estimation procedures.

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Oct. 1982	Oct. 1983	Total		Wage and salary workers <sup>1</sup>			
			Oct. 1982	Oct. 1983	Paid absences		Unpaid absences	
					Oct. 1982	Oct. 1983	Oct. 1982	Oct. 1983
Total, 16 years and over .....	4,459	4,370	4,372	4,241	2,363	2,206	1,423	1,531
Vacation .....	2,156	2,123	2,136	2,081	1,600	1,571	337	346
Illness .....	1,221	1,223	1,196	1,190	550	420	539	638
Bad weather .....	58	54	37	37	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	65	69	65	69	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	959	901	938	865	214	215	547	547
Men, 16 years and over .....	2,367	2,373	2,296	2,272	1,318	1,314	633	678
Vacation .....	1,204	1,224	1,190	1,192	948	979	127	134
Illness .....	646	683	622	659	291	255	259	333
All other reasons <sup>2</sup> .....	517	466	484	421	79	81	247	211
Women, 16 years and over .....	2,093	1,997	2,076	1,969	1,045	892	791	854
Vacation .....	952	899	946	889	652	592	211	212
Illness .....	576	540	574	530	258	166	280	305
All other reasons <sup>2</sup> .....	565	558	555	551	135	134	300	336

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

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

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

NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.



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

Hours of work	October 1983					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	98,289	3,278	95,011	100.0	100.0	100.0
1 to 34 hours .....	27,268	939	26,330	27.7	28.7	27.7
1 to 4 hours .....	793	52	742	.8	1.6	.8
5 to 14 hours .....	4,817	210	4,607	4.9	6.4	4.8
15 to 29 hours .....	12,518	476	12,042	12.7	14.5	12.7
30 to 34 hours .....	9,140	201	8,939	9.3	6.1	9.4
35 hours and over .....	71,019	2,338	68,681	72.3	71.3	72.3
35 to 39 hours .....	6,472	105	6,367	6.6	3.2	6.7
40 hours .....	38,601	529	38,073	39.3	16.1	40.1
41 hours and over .....	25,946	1,704	24,241	26.4	52.0	25.5
41 to 48 hours .....	9,455	266	9,189	9.6	8.1	9.7
49 to 59 hours .....	9,439	423	9,015	9.6	12.9	9.5
60 hours and over .....	7,052	1,015	6,037	7.2	31.0	6.4
Average hours, total at work .....	38.4	45.9	38.1	-	-	-
Average hours, workers on full-time schedules .....	43.1	54.3	42.7	-	-	-

**A-27. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status**

(Numbers in thousands)

Reason for working less than 35 hours	October 1983					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	27,268	9,299	17,971	26,330	9,045	17,286
Economic reasons .....	5,664	1,587	4,077	5,430	1,507	3,923
Slack work .....	2,498	1,305	1,193	2,396	1,246	1,150
Material shortages or repairs to plant and equipment .....	55	55	-	50	50	-
New job started during week .....	147	147	-	141	141	-
Job terminated during week .....	80	80	-	70	70	-
Could find only part-time work .....	2,884	-	2,884	2,773	-	2,773
Other reasons .....	21,603	7,710	13,893	20,898	7,536	13,362
Does not want, or unavailable for, full-time work .....	11,773	-	11,773	11,371	-	11,371
Vacation .....	1,123	1,123	-	1,106	1,106	-
Illness .....	1,666	1,463	203	1,616	1,437	179
Bad weather .....	407	407	-	341	341	-
Industrial dispute .....	24	24	-	24	24	-
Legal or religious holiday .....	3,430	3,430	-	3,418	3,418	-
Full time for this job .....	1,385	-	1,385	1,349	-	1,349
All other reasons .....	1,797	1,265	532	1,674	1,211	463
Average hours:						
Economic reasons .....	21.7	24.6	20.6	21.8	24.7	20.7
Other reasons .....	21.9	28.1	18.4	22.0	28.2	18.5
Worked 30 to 34 hours:						
Economic reasons .....	1,632	717	915	1,579	685	894
Other reasons .....	7,508	5,270	2,238	7,360	5,192	2,168

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-28. Persons at work in nonagricultural industries by class of worker and full- or part-time status**

(Numbers in thousands)

Industry	October 1983								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	95,011	5,430	13,362	76,219	51,978	9,189	15,052	38.1	42.7
Wage and salary workers .....	87,294	4,805	11,849	70,640	49,390	8,624	12,626	37.9	42.3
Mining .....	824	33	5	786	167	96	212	44.3	45.2
Construction .....	5,069	410	242	4,417	3,214	433	770	39.0	41.7
Manufacturing .....	18,959	589	614	17,756	12,297	2,735	2,724	40.9	42.1
Durable goods .....	11,273	246	249	10,778	7,511	1,651	1,616	41.2	42.1
Nondurable goods .....	7,686	344	365	6,977	4,783	1,085	1,109	40.4	42.3
Transportation and public utilities .....	6,324	227	307	5,790	3,962	691	1,137	41.0	42.8
Wholesale and retail trade .....	18,801	1,666	4,285	12,850	8,077	1,931	2,842	36.1	43.5
Finance, insurance, and real estate .....	5,750	117	580	5,073	3,795	510	768	38.4	40.8
Service industries .....	27,160	1,680	5,554	19,926	14,385	1,920	3,621	35.8	42.2
Private households .....	1,259	263	614	382	281	34	67	22.1	43.2
All other industries .....	25,901	1,417	4,940	19,544	14,104	1,886	3,554	36.5	42.2
Public administration .....	4,408	80	282	4,046	3,188	309	549	38.5	40.2
Self-employed workers .....	7,309	620	1,312	5,377	2,474	551	2,352	40.0	48.0
Unpaid family workers .....	408	5	201	202	114	14	74	34.0	46.6

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

(Numbers in thousands)

Sex, age, race, and marital status	October 1983							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	95,011	5,430	13,362	76,219	51,978	24,241	38.1	42.7
16 to 19 years .....	5,596	595	3,136	1,865	1,477	388	24.1	39.7
16 to 17 years .....	1,963	84	1,704	175	149	26	16.3	36.4
18 to 19 years .....	3,632	511	1,431	1,690	1,329	361	28.2	40.1
20 years and over .....	89,415	4,834	10,227	74,354	50,500	23,854	39.0	42.8
20 to 24 years .....	13,034	1,200	2,157	9,677	7,058	2,619	36.0	41.5
25 years and over .....	76,381	3,634	8,071	64,676	43,440	21,236	39.5	42.9
25 to 44 years .....	48,848	2,366	4,355	42,127	27,858	14,269	40.0	43.1
45 to 64 years .....	24,995	1,157	2,483	21,355	14,716	6,639	39.5	42.7
65 years and over .....	2,538	111	1,233	1,194	866	328	28.6	41.9
<b>Men, 16 years and over</b> .....	52,695	2,392	3,969	46,334	28,433	17,901	41.1	44.1
16 to 19 years .....	2,830	304	1,471	1,055	789	266	25.4	40.8
16 to 17 years .....	964	43	814	107	89	18	17.0	37.9
18 to 19 years .....	1,866	261	657	948	699	249	29.7	41.1
20 years and over .....	49,865	2,088	2,498	45,279	27,642	17,637	42.0	44.2
20 to 24 years .....	6,740	561	891	5,288	3,560	1,728	37.7	42.6
25 years and over .....	43,125	1,528	1,607	39,990	24,082	15,908	42.7	44.4
25 to 44 years .....	27,421	1,042	594	25,785	15,086	10,699	43.3	44.7
45 to 64 years .....	14,261	425	394	13,442	8,476	4,966	42.7	43.9
65 years and over .....	1,443	59	620	764	518	246	30.6	42.7
<b>Women, 16 years and over</b> .....	42,316	3,038	9,394	29,884	23,544	6,340	34.3	40.5
16 to 19 years .....	2,766	291	1,665	810	689	121	22.7	38.3
16 to 17 years .....	1,000	41	891	68	58	10	15.7	( <sup>1</sup> )
18 to 19 years .....	1,766	250	774	742	630	112	26.7	38.7
20 years and over .....	39,550	2,747	7,729	29,074	22,855	6,219	35.1	40.5
20 to 24 years .....	6,294	640	1,266	4,388	3,497	891	34.1	40.2
25 years and over .....	33,257	2,108	6,462	24,687	19,359	5,328	35.3	40.6
25 to 44 years .....	21,428	1,324	3,762	16,342	12,772	3,570	35.8	40.6
45 to 64 years .....	10,734	730	2,089	7,915	6,241	1,674	35.3	40.5
65 years and over .....	1,095	53	612	430	347	83	26.0	40.4
<b>RACE</b>								
White, 16 years and over .....	83,632	4,426	12,211	66,995	44,545	22,450	38.2	42.9
Men .....	46,829	1,923	3,595	41,311	24,668	16,643	41.4	44.3
Women .....	36,804	2,502	8,616	25,686	19,879	5,807	34.2	40.6
Black, 16 years and over .....	8,938	851	839	7,248	5,937	1,311	36.9	40.7
Men .....	4,523	400	258	3,865	2,963	902	38.8	41.8
Women .....	4,415	451	582	3,382	2,973	409	35.0	39.3
<b>MARITAL STATUS</b>								
Men, 16 years and over:								
Married, spouse present .....	35,279	1,030	1,152	33,097	19,628	13,469	43.1	44.5
Widowed, divorced, or separated .....	4,780	279	241	4,260	2,640	1,620	41.6	44.1
Single (never married) .....	12,636	1,083	2,576	8,977	6,163	2,814	35.5	42.5
Women, 16 years and over:								
Married, spouse present .....	23,622	1,532	5,506	16,584	13,246	3,338	34.3	40.4
Widowed, divorced, or separated .....	8,326	633	1,071	6,622	5,037	1,585	36.6	40.8
Single (never married) .....	10,368	873	2,817	6,678	5,261	1,417	32.5	40.5

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

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	October 1983								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	94,789	5,376	13,307	76,085	51,802	9,162	15,120	38.1	42.7
Managerial and professional specialty .....	22,886	482	2,221	20,184	12,236	2,312	5,634	41.0	44.0
Executive, administrative, and managerial .....	10,410	114	479	9,817	5,665	1,162	2,989	43.1	44.5
Professional specialty .....	12,477	368	1,742	10,367	6,572	1,150	2,645	39.3	43.6
Technical, sales, and administrative support .....	30,529	1,330	5,613	23,566	16,997	2,622	3,967	36.8	41.8
Technicians and related support .....	2,976	76	314	2,586	1,941	308	337	38.8	41.5
Sales occupations .....	11,567	712	2,509	8,347	4,507	1,148	2,693	38.2	45.3
Administrative support, including clerical .....	15,986	543	2,790	12,653	10,549	1,167	938	35.5	39.6
Service occupations .....	13,414	1,662	3,849	7,903	6,017	731	1,155	32.4	42.1
Private household .....	999	198	511	289	211	27	51	21.8	43.0
Protective service .....	1,518	53	156	1,310	825	168	316	41.3	44.8
Service, except private household and protective .....	10,897	1,411	3,182	6,304	4,981	536	787	32.2	41.5
Precision production, craft, and repair .....	12,213	667	406	11,139	7,454	1,544	2,141	40.9	42.9
Operators, fabricators, and laborers .....	15,727	1,235	1,218	13,274	9,097	1,954	2,223	39.2	42.5
Machine operators, assemblers, and inspectors .....	7,625	465	288	6,873	4,993	1,064	816	39.7	41.5
Transportation and material moving occupations .....	4,156	302	249	3,605	2,025	524	1,056	42.0	45.4
Handlers, equipment cleaners, helpers, and laborers .....	3,945	469	681	2,796	2,079	366	351	35.0	41.5
Men, 16 years and over .....	52,364	2,332	3,879	46,153	28,232	6,171	11,749	41.2	44.2
Managerial and professional specialty .....	13,504	194	644	12,666	6,905	1,464	4,297	43.8	45.5
Executive, administrative, and managerial .....	7,020	71	196	6,753	3,532	829	2,392	44.8	45.8
Professional specialty .....	6,484	123	448	5,913	3,373	635	1,905	42.8	45.2
Technical, sales, and administrative support .....	10,870	259	1,041	9,570	5,363	1,378	2,829	41.8	45.0
Technicians and related support .....	1,566	19	93	1,453	994	195	265	41.2	43.0
Sales occupations .....	6,098	156	607	5,334	2,350	820	2,164	43.8	47.3
Administrative support, including clerical .....	3,206	83	341	2,783	2,019	363	401	38.4	41.5
Service occupations .....	5,289	460	1,090	3,739	2,679	418	842	36.0	43.1
Private household .....	57	14	27	16	14	-	3	( <sup>1</sup> )	( <sup>1</sup> )
Protective service .....	1,319	35	95	1,189	744	157	287	42.6	44.9
Service, except private household and protective .....	3,912	411	967	2,534	1,921	261	352	34.1	42.3
Precision production, craft, and repair .....	11,180	618	303	10,259	6,801	1,426	2,032	41.2	43.0
Operators, fabricators, and laborers .....	11,522	803	801	9,918	6,483	1,485	1,950	40.1	43.3
Machine operators, assemblers, and inspectors .....	4,402	183	120	4,099	2,811	662	626	41.2	42.4
Transportation and material moving occupations .....	3,846	253	148	3,445	1,916	500	1,029	42.9	45.5
Handlers, equipment cleaners, helpers, and laborers .....	3,274	368	533	2,373	1,756	323	295	35.3	41.5
Women, 16 years and over .....	42,405	3,044	9,428	29,932	23,570	2,991	3,371	34.3	40.5
Managerial and professional specialty .....	9,383	288	1,577	7,517	5,332	848	1,337	37.0	41.6
Executive, administrative, and managerial .....	3,390	43	283	3,063	2,133	333	597	39.7	41.8
Professional specialty .....	5,993	245	1,294	4,454	3,199	515	740	35.5	41.5
Technical, sales, and administrative support .....	19,659	1,071	4,572	14,015	11,634	1,244	1,138	34.1	39.7
Technicians and related support .....	1,410	56	221	1,132	948	113	72	36.0	39.6
Sales occupations .....	5,469	555	1,902	3,013	2,157	327	529	32.0	41.9
Administrative support, including clerical .....	12,780	460	2,449	9,870	8,530	804	537	34.7	39.0
Service occupations .....	8,125	1,203	2,759	4,163	3,338	313	513	30.1	41.1
Private household .....	942	185	484	273	197	27	49	21.7	42.6
Protective service .....	199	18	60	121	81	11	29	32.6	43.7
Service, except private household and protective .....	6,985	1,001	2,215	3,769	3,060	274	435	31.2	40.9
Precision production, craft, and repair .....	1,033	49	103	880	653	118	109	38.0	41.2
Operators, fabricators, and laborers .....	4,205	432	417	3,356	2,613	469	274	36.7	40.4
Machine operators, assemblers, and inspectors .....	3,223	282	168	2,773	2,182	402	190	37.7	40.1
Transportation and material moving occupations .....	310	49	101	160	109	24	28	31.6	42.5
Handlers, equipment cleaners, helpers, and laborers .....	671	101	148	423	323	43	56	33.9	41.4

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-31. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted**

(Numbers in thousands)

Employment status and sex	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	174,549	174,718	174,864	175,021	175,169	175,320	175,465	175,622	175,793	175,970	176,122	176,297	176,474
Labor force <sup>1</sup> .....	112,420	112,702	112,794	112,215	112,217	112,148	112,457	112,418	113,600	113,539	113,943	114,063	113,510
Percent of population <sup>2</sup> .....	64.4	64.5	64.5	64.1	64.1	64.0	64.1	64.0	64.6	64.5	64.7	64.7	64.3
Total employed <sup>1</sup> .....	100,844	100,796	100,758	100,770	100,727	100,767	101,129	101,226	102,454	102,949	103,245	103,640	103,623
Employment-population ratio <sup>3</sup> .....	57.8	57.7	57.6	57.6	57.5	57.5	57.6	57.6	58.3	58.5	58.6	58.8	58.7
Resident Armed Forces .....	1,668	1,660	1,665	1,667	1,664	1,664	1,671	1,669	1,668	1,664	1,682	1,695	1,695
Civilian employed .....	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928
Agriculture .....	3,413	3,466	3,411	3,412	3,393	3,375	3,371	3,367	3,522	3,527	3,489	3,290	3,202
Nonagricultural industries .....	95,763	95,670	95,682	95,691	95,670	95,729	96,088	96,190	97,264	97,758	98,074	98,655	98,726
Unemployed .....	11,576	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590	10,699	10,423	9,886
Unemployment rate <sup>4</sup> .....	10.3	10.6	10.7	10.2	10.2	10.1	10.1	10.0	9.8	9.3	9.4	9.1	8.7
Not in labor force .....	62,129	62,016	62,070	62,806	62,952	63,172	63,008	63,204	62,193	62,431	62,179	62,234	62,965
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	83,323	83,402	83,581	83,652	83,720	83,789	83,856	83,931	84,014	84,099	84,173	84,261	84,344
Labor force <sup>1</sup> .....	64,300	64,414	64,384	63,916	63,996	63,957	64,207	64,276	64,816	64,864	64,814	64,944	64,690
Percent of population <sup>2</sup> .....	77.2	77.2	77.0	76.4	76.4	76.3	76.6	76.6	77.1	77.1	77.0	77.1	76.7
Total employed <sup>1</sup> .....	57,456	57,408	57,338	57,283	57,234	57,300	57,476	57,656	58,464	58,625	58,570	58,826	58,912
Employment-population ratio <sup>3</sup> .....	69.0	68.8	68.6	68.5	68.4	68.4	68.5	68.7	69.6	69.7	69.6	69.8	69.8
Resident Armed Forces .....	1,524	1,516	1,529	1,531	1,528	1,528	1,530	1,528	1,525	1,521	1,538	1,549	1,543
Civilian employed .....	55,932	55,892	55,809	55,752	55,706	55,772	55,946	56,128	56,939	57,104	57,032	57,277	57,369
Unemployed .....	6,844	7,006	7,046	6,633	6,762	6,657	6,731	6,620	6,351	6,238	6,244	6,118	5,778
Unemployment rate <sup>4</sup> .....	10.6	10.9	10.9	10.4	10.6	10.4	10.5	10.3	9.8	9.6	9.6	9.4	8.9
Not in labor force .....	19,023	18,988	19,197	19,736	19,724	19,832	19,649	19,655	19,198	19,235	19,359	19,317	19,654
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	91,226	91,316	91,283	91,369	91,449	91,532	91,609	91,691	91,779	91,871	91,949	92,036	92,129
Labor force <sup>1</sup> .....	48,120	48,288	48,410	48,299	48,220	48,191	48,251	48,142	48,784	48,675	49,130	49,119	48,819
Percent of population <sup>2</sup> .....	52.7	52.9	53.0	52.9	52.7	52.6	52.7	52.5	53.2	53.0	53.4	53.4	53.0
Total employed <sup>1</sup> .....	43,388	43,388	43,420	43,486	43,493	43,467	43,653	43,569	43,990	44,324	44,675	44,814	44,712
Employment-population ratio <sup>3</sup> .....	47.6	47.5	47.6	47.6	47.6	47.5	47.7	47.5	47.9	48.2	48.6	48.7	48.5
Resident Armed Forces .....	144	144	136	136	136	136	141	141	143	143	144	146	152
Civilian employed .....	43,244	43,244	43,284	43,350	43,357	43,331	43,512	43,428	43,847	44,181	44,531	44,668	44,560
Unemployed .....	4,732	4,900	4,990	4,813	4,727	4,724	4,597	4,572	4,795	4,351	4,455	4,305	4,108
Unemployment rate <sup>4</sup> .....	9.8	10.1	10.3	10.0	9.8	9.8	9.5	9.5	9.8	8.9	9.1	8.8	8.4
Not in labor force .....	43,106	43,028	42,873	43,070	43,229	43,341	43,358	43,549	42,995	43,196	42,819	42,917	43,310

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

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

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

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

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-31 through A-40 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-32. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted**

(Numbers in thousands)

Employment status, sex, and age	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	172,881	173,058	173,199	173,354	173,505	173,656	173,794	173,953	174,125	174,306	174,440	174,602	174,779
Civilian labor force .....	110,752	111,042	111,129	110,548	110,553	110,484	110,786	110,749	111,932	111,875	112,261	112,368	111,815
Percent of population .....	64.1	64.2	64.2	63.8	63.7	63.6	63.7	63.7	64.3	64.2	64.4	64.4	64.0
Employed .....	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928
Employment-population ratio <sup>2</sup> .....	57.4	57.3	57.2	57.2	57.1	57.1	57.2	57.2	57.9	58.1	58.2	58.4	58.3
Unemployed .....	11,576	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590	10,699	10,423	9,886
Unemployment rate .....	10.5	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5	9.5	9.3	8.8
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	73,984	74,094	74,236	74,339	74,434	74,528	74,611	74,712	74,814	74,927	75,012	75,115	75,216
Civilian labor force .....	58,363	58,454	58,443	58,048	58,177	58,170	58,454	58,506	58,804	59,016	58,945	59,053	58,947
Percent of population .....	78.9	78.9	78.7	78.1	78.2	78.1	78.3	78.3	78.6	78.8	78.6	78.6	78.4
Employed .....	52,649	52,589	52,534	52,452	52,428	52,589	52,752	52,901	53,516	53,808	53,771	53,928	54,121
Employment-population ratio <sup>2</sup> .....	71.2	71.0	70.8	70.6	70.4	70.6	70.7	70.8	71.5	71.8	71.7	71.8	72.0
Agriculture .....	2,444	2,434	2,389	2,426	2,374	2,420	2,404	2,443	2,529	2,544	2,496	2,431	2,362
Nonagricultural industries .....	50,205	50,155	50,145	50,025	50,054	50,169	50,348	50,458	50,987	51,264	51,275	51,497	51,758
Unemployed .....	5,714	5,865	5,909	5,597	5,749	5,581	5,702	5,605	5,288	5,208	5,174	5,125	4,826
Unemployment rate .....	9.8	10.0	10.1	9.6	9.9	9.6	9.8	9.6	9.0	8.8	8.8	8.7	8.2
Not in labor force .....	15,621	15,640	15,793	16,291	16,257	16,358	16,157	16,206	16,010	15,911	16,067	16,062	16,269
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	83,271	83,385	83,383	83,490	83,593	83,699	83,794	83,899	84,008	84,122	84,224	84,333	84,443
Civilian labor force .....	43,936	44,112	44,286	44,201	44,216	44,166	44,238	44,228	44,648	44,685	45,003	45,132	44,930
Percent of population .....	52.8	52.9	53.1	52.9	52.9	52.8	52.8	52.7	53.1	53.1	53.4	53.5	53.2
Employed .....	40,112	40,123	40,215	40,238	40,291	40,277	40,509	40,484	40,789	41,164	41,394	41,614	41,583
Employment-population ratio <sup>2</sup> .....	48.2	48.1	48.2	48.2	48.2	48.1	48.3	48.3	48.6	48.9	49.1	49.3	49.2
Agriculture .....	578	590	628	625	657	647	622	597	636	607	630	574	581
Nonagricultural industries .....	39,534	39,533	39,587	39,613	39,634	39,630	39,886	39,887	40,153	40,557	40,764	41,040	41,002
Unemployed .....	3,824	3,989	4,071	3,963	3,925	3,889	3,729	3,744	3,859	3,521	3,609	3,518	3,347
Unemployment rate .....	8.7	9.0	9.2	9.0	8.9	8.8	8.4	8.5	8.6	7.9	8.0	7.8	7.4
Not in labor force .....	39,335	39,273	39,097	39,289	39,377	39,533	39,556	39,671	39,360	39,437	39,221	39,201	39,513
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	15,625	15,579	15,580	15,525	15,478	15,429	15,389	15,342	15,303	15,257	15,204	15,154	15,120
Civilian labor force .....	8,453	8,476	8,400	8,299	8,160	8,148	8,094	8,015	8,480	8,173	8,313	8,184	7,938
Percent of population .....	54.1	54.4	53.9	53.5	52.7	52.8	52.6	52.2	55.4	53.6	54.7	54.0	52.5
Employed .....	6,415	6,424	6,344	6,413	6,345	6,237	6,197	6,172	6,481	6,313	6,397	6,404	6,225
Employment-population ratio <sup>2</sup> .....	41.1	41.2	40.7	41.3	41.0	40.4	40.3	40.2	42.4	41.4	42.1	42.3	41.2
Agriculture .....	391	442	394	361	362	308	344	327	357	376	362	285	259
Nonagricultural industries .....	6,024	5,982	5,950	6,052	5,983	5,929	5,853	5,845	6,124	5,937	6,035	6,119	5,966
Unemployed .....	2,038	2,052	2,056	1,886	1,815	1,911	1,897	1,843	1,999	1,860	1,916	1,780	1,713
Unemployment rate .....	24.1	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8	23.0	21.8	21.6
Not in labor force .....	7,172	7,103	7,180	7,226	7,318	7,281	7,295	7,327	6,823	7,084	6,891	6,970	7,182

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

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

population.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	149,838	149,887	150,056	150,129	150,187	150,382	150,518	150,671	150,810	150,959	151,003	151,021	151,175
Civilian labor force .....	96,453	96,719	96,864	96,176	95,987	95,996	96,287	96,362	97,250	97,341	97,602	97,605	97,300
Percent of population .....	64.4	64.5	64.6	64.1	63.9	63.8	64.0	64.0	64.5	64.5	64.6	64.6	64.4
Employed .....	87,477	87,435	87,443	87,466	87,194	87,324	87,709	87,777	88,880	89,382	89,573	89,719	89,798
Employment-population ratio <sup>2</sup> .....	58.4	58.3	58.3	58.3	58.1	58.1	58.3	58.3	58.9	59.2	59.3	59.4	59.4
Unemployed .....	8,976	9,284	9,421	8,711	8,793	8,672	8,577	8,585	8,370	7,959	8,029	7,885	7,502
Unemployment rate .....	9.3	9.6	9.7	9.1	9.2	9.0	8.9	8.9	8.6	8.2	8.2	8.1	7.7
<b>Men, 20 years and over</b>													
Civilian labor force .....	51,499	51,531	51,562	51,033	51,151	51,214	51,459	51,589	51,771	51,919	51,888	51,913	51,902
Percent of population .....	79.4	79.4	79.3	78.4	78.5	78.4	78.7	78.7	78.9	79.0	79.0	79.0	78.9
Employed .....	46,987	46,837	46,823	46,752	46,682	46,883	47,049	47,150	47,710	47,935	47,892	47,864	48,101
Employment-population ratio <sup>2</sup> .....	72.4	72.1	72.0	71.8	71.6	71.8	71.9	72.0	72.7	73.0	72.9	72.9	73.1
Unemployed .....	4,512	4,694	4,739	4,281	4,469	4,332	4,409	4,440	4,060	3,984	3,997	4,049	3,800
Unemployment rate .....	8.8	9.1	9.2	8.4	8.7	8.5	8.6	8.6	7.8	7.7	7.7	7.8	7.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	37,532	37,762	37,934	37,794	37,588	37,509	37,683	37,703	38,124	38,242	38,433	38,540	38,427
Percent of population .....	52.1	52.4	52.6	52.4	52.1	51.9	52.1	52.0	52.6	52.6	52.8	52.9	52.7
Employed .....	34,663	34,749	34,847	34,834	34,695	34,723	34,972	34,961	35,287	35,668	35,843	35,987	36,016
Employment-population ratio <sup>2</sup> .....	48.1	48.2	48.3	48.3	48.1	48.0	48.3	48.3	48.6	49.1	49.3	49.4	49.4
Unemployed .....	2,869	3,013	3,087	2,960	2,893	2,787	2,711	2,742	2,837	2,574	2,590	2,553	2,411
Unemployment rate .....	7.6	8.0	8.1	7.8	7.7	7.4	7.2	7.3	7.4	6.7	6.7	6.6	6.3
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	7,422	7,426	7,368	7,349	7,248	7,273	7,145	7,069	7,355	7,180	7,281	7,151	6,971
Percent of population .....	57.3	57.5	57.1	57.1	56.5	56.9	56.0	55.7	58.2	57.1	58.0	57.2	56.0
Employed .....	5,827	5,849	5,773	5,880	5,817	5,719	5,688	5,666	5,883	5,779	5,839	5,868	5,681
Employment-population ratio <sup>2</sup> .....	45.0	45.3	44.8	45.7	45.4	44.8	44.6	44.6	46.5	45.9	46.5	47.0	45.6
Unemployed .....	1,595	1,577	1,595	1,469	1,431	1,554	1,457	1,403	1,472	1,401	1,442	1,283	1,290
Unemployment rate .....	21.5	21.2	21.6	20.0	19.7	21.4	20.4	19.8	20.0	19.5	19.8	17.9	18.5
Men .....	23.0	22.6	22.8	21.2	21.1	22.9	21.7	20.2	19.8	20.4	21.1	18.7	20.1
Women .....	19.9	19.8	20.4	18.7	18.2	19.7	19.0	19.4	20.2	18.5	18.4	17.1	16.7
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	18,692	18,723	18,740	18,768	18,796	18,823	18,851	18,880	18,911	18,942	18,966	18,994	19,026
Civilian labor force .....	11,398	11,475	11,522	11,542	11,548	11,554	11,631	11,672	11,783	11,764	11,745	11,729	11,502
Percent of population .....	61.0	61.3	61.5	61.5	61.4	61.4	61.7	61.8	62.3	62.1	61.9	61.7	60.5
Employed .....	9,102	9,159	9,127	9,142	9,276	9,253	9,209	9,270	9,352	9,469	9,398	9,505	9,420
Employment-population ratio <sup>2</sup> .....	48.7	48.9	48.7	48.7	49.4	49.2	48.8	49.1	49.5	50.0	49.6	50.0	49.5
Unemployed .....	2,296	2,316	2,395	2,400	2,271	2,302	2,423	2,402	2,432	2,295	2,347	2,224	2,082
Unemployment rate .....	20.1	20.2	20.8	20.8	19.7	19.9	20.8	20.6	20.6	19.5	20.0	19.0	18.1
<b>Men, 20 years and over</b>													
Civilian labor force .....	5,390	5,488	5,483	5,459	5,441	5,439	5,540	5,512	5,597	5,611	5,584	5,541	5,461
Percent of population .....	74.4	75.6	75.6	75.1	74.7	74.5	75.7	75.1	76.1	76.1	75.6	74.9	73.6
Employed .....	4,331	4,437	4,358	4,385	4,423	4,416	4,415	4,418	4,522	4,564	4,556	4,603	4,585
Employment-population ratio <sup>2</sup> .....	59.8	61.1	60.1	60.3	60.7	60.5	60.3	60.2	61.5	61.9	61.7	62.2	61.8
Unemployed .....	1,059	1,051	1,125	1,075	1,018	1,023	1,125	1,094	1,075	1,047	1,028	938	876
Unemployment rate .....	19.6	19.2	20.5	19.7	18.7	18.8	20.3	19.8	19.2	18.7	18.4	16.9	16.0
<b>Women, 20 years and over</b>													
Civilian labor force .....	5,169	5,157	5,207	5,295	5,353	5,350	5,265	5,348	5,283	5,328	5,322	5,372	5,258
Percent of population .....	56.1	55.9	56.5	57.3	57.8	57.7	56.6	57.4	56.6	57.0	56.8	57.2	55.9
Employed .....	4,332	4,305	4,349	4,329	4,441	4,404	4,372	4,431	4,384	4,477	4,447	4,509	4,429
Employment-population ratio <sup>2</sup> .....	47.0	46.6	47.1	46.8	48.0	47.5	47.0	47.6	47.0	47.9	47.5	48.0	47.1
Unemployed .....	837	852	858	965	912	946	893	917	900	851	874	862	828
Unemployment rate .....	16.2	16.5	16.5	18.2	17.0	17.7	17.0	17.1	17.0	16.0	16.4	16.1	15.8

See footnotes at end of table.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-33. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued**

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	839	830	832	788	754	765	827	812	903	825	839	816	783
Percent of population .....	37.5	37.2	36.8	35.0	33.5	34.1	37.0	36.4	40.5	37.1	37.8	36.9	35.5
Employed .....	439	417	420	428	412	432	422	421	446	428	394	392	405
Employment-population ratio <sup>2</sup> .....	19.6	18.7	18.6	19.0	18.3	19.3	18.9	18.9	20.0	19.2	17.8	17.7	18.3
Unemployed .....	400	413	412	360	342	333	405	391	457	397	445	424	378
Unemployment rate .....	47.7	49.8	49.5	45.7	45.4	43.5	49.0	48.2	50.6	48.1	53.0	52.0	48.3
Men .....	49.2	53.0	52.5	45.9	45.3	44.5	48.0	53.1	51.1	47.6	56.8	54.8	43.9
Women .....	45.9	46.2	46.2	45.5	45.4	42.3	50.0	42.3	50.0	48.8	48.9	48.7	53.3
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	9,474	9,355	9,301	9,328	9,368	9,551	9,665	9,747	9,738	9,640	9,690	9,700	9,745
Civilian labor force .....	5,973	5,923	5,898	5,981	5,992	6,074	6,206	6,167	6,253	6,079	6,124	6,200	6,142
Percent of population .....	63.0	63.3	63.4	64.1	64.0	63.6	64.2	63.3	64.2	63.1	63.2	63.9	63.0
Employed .....	5,075	5,012	4,998	5,053	5,042	5,088	5,304	5,318	5,379	5,331	5,333	5,390	5,385
Employment-population ratio <sup>2</sup> .....	53.6	53.6	53.7	54.2	53.8	53.3	54.9	54.6	55.2	55.3	55.0	55.6	55.3
Unemployed .....	898	911	900	929	950	986	902	849	874	748	790	811	756
Unemployment rate .....	15.0	15.4	15.3	15.5	15.8	16.2	14.5	13.8	14.0	12.3	12.9	13.1	12.3

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

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

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

**A-34. Employed civilians by selected social and economic categories, seasonally adjusted**

(In thousands)

Category	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTIC</b>													
Total .....	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928
Married men, spouse present .....	37,852	37,641	37,507	37,450	37,428	37,452	37,523	37,560	37,925	38,293	38,308	38,253	38,241
Married women, spouse present .....	24,081	23,985	24,155	24,205	24,070	24,171	24,371	24,229	24,335	24,640	24,972	24,996	24,971
Women who maintain families .....	5,107	5,025	4,985	5,038	5,050	5,097	4,944	4,942	5,016	5,088	5,104	5,124	5,187
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,576	1,584	1,547	1,637	1,624	1,515	1,560	1,595	1,636	1,663	1,664	1,585	1,481
Self-employed workers .....	1,621	1,628	1,627	1,587	1,541	1,585	1,607	1,558	1,608	1,583	1,566	1,473	1,514
Unpaid family workers .....	229	241	224	231	223	260	208	229	263	259	245	237	224
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	88,064	87,936	87,976	87,813	87,794	87,912	88,187	88,395	89,354	89,765	89,995	90,813	90,663
Government .....	15,436	15,514	15,477	15,386	15,501	15,452	15,518	15,523	15,498	15,615	15,697	15,549	15,594
Private industries .....	72,628	72,422	72,499	72,427	72,293	72,459	72,668	72,872	73,856	74,150	74,299	75,265	75,069
Private households .....	1,216	1,221	1,163	1,162	1,232	1,235	1,205	1,228	1,317	1,286	1,290	1,295	1,291
Other industries .....	71,412	71,201	71,336	71,265	71,061	71,225	71,463	71,644	72,539	72,864	73,009	73,969	73,778
Self-employed workers .....	7,332	7,349	7,335	7,465	7,385	7,453	7,528	7,408	7,493	7,598	7,658	7,660	7,703
Unpaid family workers .....	403	382	383	380	353	342	353	335	345	320	376	376	415
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	90,232	90,238	90,219	90,903	90,207	90,271	92,267	90,941	90,539	92,253	91,986	93,737	93,324
Full-time schedules .....	71,394	71,442	71,499	71,786	71,564	71,878	73,594	72,975	72,978	74,004	73,495	74,883	75,167
Part time for economic reasons .....	6,403	6,411	6,425	6,845	6,481	6,202	6,082	5,928	5,729	5,636	5,789	6,106	5,670
Usually work full time .....	2,381	2,228	2,153	2,200	2,097	1,927	1,871	1,685	1,702	1,809	1,718	1,798	1,575
Usually work part time .....	4,022	4,183	4,272	4,645	4,384	4,275	4,211	4,243	4,027	3,826	4,071	4,309	4,095
Part time for noneconomic reasons .....	12,435	12,385	12,295	12,271	12,162	12,191	12,592	12,038	11,833	12,614	12,701	12,748	12,488

<sup>1</sup> Excludes persons "with a job but not at work" during the survey

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



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-35. Employed civilians by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	99,176	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928
16 to 24 years .....	19,919	19,934	19,903	19,887	19,863	19,732	19,729	19,623	20,328	20,231	20,187	20,254	20,009
16 to 19 years .....	6,415	6,424	6,344	6,413	6,345	6,237	6,197	6,172	6,481	6,313	6,397	6,404	6,225
16 to 17 years .....	2,415	2,426	2,364	2,438	2,362	2,307	2,279	2,272	2,303	2,262	2,348	2,329	2,228
18 to 19 years .....	3,988	3,984	3,982	3,982	3,992	3,952	3,929	3,913	4,152	4,070	4,019	4,082	3,986
20 to 24 years .....	13,504	13,510	13,559	13,474	13,518	13,494	13,532	13,451	13,847	13,917	13,790	13,850	13,784
25 years and over .....	79,251	79,182	79,165	79,240	79,165	79,386	79,679	79,848	80,533	81,101	81,498	81,713	81,949
25 to 54 years .....	64,949	64,858	64,890	65,005	64,902	65,184	65,582	65,807	66,404	66,831	67,267	67,386	67,543
55 years and over .....	14,289	14,315	14,272	14,233	14,179	14,138	14,067	14,094	14,127	14,229	14,212	14,418	14,379
Men, 16 years and over .....	55,932	55,892	55,809	55,752	55,706	55,772	55,946	56,128	56,939	57,104	57,032	57,277	57,369
16 to 24 years .....	10,408	10,388	10,357	10,368	10,327	10,229	10,270	10,283	10,815	10,619	10,570	10,636	10,530
16 to 19 years .....	3,283	3,303	3,275	3,301	3,279	3,183	3,194	3,228	3,423	3,297	3,261	3,349	3,248
16 to 17 years .....	1,229	1,258	1,233	1,295	1,260	1,212	1,158	1,188	1,218	1,189	1,203	1,224	1,154
18 to 19 years .....	2,052	2,027	2,038	2,009	2,037	1,990	2,045	2,051	2,179	2,113	2,042	2,131	2,093
20 to 24 years .....	7,125	7,085	7,082	7,067	7,048	7,046	7,076	7,056	7,392	7,322	7,310	7,287	7,282
25 years and over .....	45,522	45,496	45,430	45,393	45,372	45,552	45,654	45,770	46,206	46,474	46,535	46,655	46,857
25 to 54 years .....	37,019	36,988	36,947	36,968	36,913	37,135	37,278	37,477	37,780	37,947	38,068	38,166	38,334
55 years and over .....	8,485	8,508	8,471	8,446	8,415	8,400	8,378	8,345	8,436	8,489	8,461	8,518	8,497
Women, 16 years and over .....	43,244	43,244	43,284	43,350	43,357	43,331	43,512	43,428	43,847	44,181	44,531	44,668	44,560
16 to 24 years .....	9,511	9,546	9,546	9,519	9,536	9,503	9,459	9,340	9,512	9,612	9,617	9,617	9,479
16 to 19 years .....	3,132	3,121	3,069	3,112	3,066	3,054	3,004	2,944	3,058	3,017	3,136	3,054	2,977
16 to 17 years .....	1,186	1,168	1,131	1,143	1,102	1,095	1,121	1,084	1,085	1,073	1,145	1,105	1,074
18 to 19 years .....	1,936	1,957	1,944	1,973	1,955	1,962	1,884	1,862	1,973	1,957	1,977	1,951	1,893
20 to 24 years .....	6,379	6,425	6,477	6,407	6,470	6,448	6,455	6,395	6,455	6,595	6,480	6,563	6,503
25 years and over .....	33,729	33,686	33,735	33,847	33,792	33,834	34,025	34,078	34,328	34,627	34,963	35,057	35,092
25 to 54 years .....	27,930	27,870	27,943	28,037	27,989	28,049	28,304	28,330	28,624	28,884	29,199	29,219	29,209
55 years and over .....	5,804	5,807	5,801	5,787	5,764	5,738	5,689	5,749	5,691	5,740	5,752	5,901	5,882

**A-36. Unemployed persons by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 18 years and over .....	11,576	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590	10,699	10,423	9,886
16 to 24 years .....	4,577	4,685	4,642	4,462	4,444	4,375	4,353	4,332	4,332	4,087	4,260	3,999	3,902
16 to 19 years .....	2,038	2,052	2,056	1,886	1,815	1,911	1,897	1,843	1,999	1,860	1,916	1,780	1,713
16 to 17 years .....	851	866	893	774	721	774	812	805	799	768	770	730	700
18 to 19 years .....	1,184	1,174	1,169	1,104	1,091	1,162	1,095	1,047	1,200	1,088	1,136	1,043	1,015
20 to 24 years .....	2,539	2,633	2,586	2,576	2,629	2,464	2,456	2,489	2,333	2,227	2,344	2,219	2,189
25 years and over .....	6,997	7,194	7,402	7,000	7,054	7,029	6,954	6,889	6,863	6,479	6,413	6,402	5,968
25 to 54 years .....	6,176	6,330	6,512	6,208	6,194	6,206	6,079	6,134	6,016	5,688	5,680	5,651	5,217
55 years and over .....	837	862	880	812	802	803	832	795	834	803	757	780	755
Men, 16 years and over .....	6,844	7,006	7,046	6,633	6,762	6,657	6,731	6,620	6,351	6,238	6,244	6,118	5,778
16 to 24 years .....	2,633	2,697	2,670	2,548	2,544	2,479	2,478	2,523	2,444	2,398	2,447	2,276	2,214
16 to 19 years .....	1,130	1,141	1,137	1,036	1,013	1,076	1,029	1,015	1,063	1,030	1,070	993	952
16 to 17 years .....	498	493	503	419	389	425	429	449	414	460	427	376	364
18 to 19 years .....	628	642	642	617	622	656	604	577	646	568	634	617	586
20 to 24 years .....	1,503	1,556	1,533	1,512	1,531	1,403	1,449	1,508	1,381	1,368	1,377	1,283	1,262
25 years and over .....	4,213	4,292	4,388	4,078	4,230	4,199	4,237	4,102	3,918	3,808	3,790	3,830	3,551
25 to 54 years .....	3,696	3,750	3,819	3,541	3,678	3,652	3,646	3,599	3,443	3,325	3,328	3,351	3,073
55 years and over .....	545	560	570	519	507	520	562	515	483	481	475	507	484
Women, 16 years and over .....	4,732	4,900	4,990	4,813	4,727	4,724	4,597	4,572	4,795	4,351	4,455	4,305	4,108
16 to 24 years .....	1,944	1,988	1,972	1,914	1,900	1,896	1,874	1,809	1,888	1,689	1,813	1,723	1,688
16 to 19 years .....	908	911	919	850	802	835	868	828	936	830	846	787	761
16 to 17 years .....	353	373	390	355	332	349	383	356	385	308	343	354	336
18 to 19 years .....	556	532	527	487	469	506	491	470	554	520	502	426	429
20 to 24 years .....	1,036	1,077	1,053	1,064	1,098	1,061	1,006	981	952	859	967	936	927
25 years and over .....	2,784	2,902	3,014	2,822	2,830	2,717	2,787	2,945	2,671	2,623	2,573	2,417	2,162
25 to 54 years .....	2,480	2,580	2,693	2,667	2,516	2,554	2,434	2,536	2,572	2,363	2,352	2,300	2,144
55 years and over .....	292	302	310	293	294	283	270	280	351	322	282	273	271

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-37. Unemployment rates by sex and age, seasonally adjusted**

(Civilian workers)

Sex and age	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over .....	10.5	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5	9.5	9.3	8.8
16 to 24 years .....	18.7	19.0	18.9	18.3	18.3	18.1	18.1	18.1	17.6	16.8	17.4	16.5	16.3
16 to 19 years .....	24.1	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8	23.0	21.8	21.6
16 to 17 years .....	26.1	26.3	27.4	24.1	23.4	25.1	26.3	26.2	25.8	25.3	24.7	23.9	23.9
18 to 19 years .....	22.9	22.8	22.7	21.7	21.5	22.7	21.8	21.1	22.4	21.1	22.0	20.4	20.3
20 to 24 years .....	15.8	16.3	16.0	16.1	16.3	15.4	15.4	15.6	14.4	13.8	14.5	13.8	13.7
25 years and over .....	8.1	8.3	8.6	8.1	8.2	8.1	8.0	7.9	7.9	7.4	7.3	7.3	6.8
25 to 54 years .....	8.7	8.9	9.1	8.7	8.7	8.7	8.5	8.5	8.3	7.8	7.8	7.7	7.2
55 years and over .....	5.5	5.7	5.8	5.4	5.4	5.4	5.6	5.3	5.6	5.3	5.1	5.1	5.0
Men, 16 years and over .....	10.9	11.1	11.2	10.6	10.8	10.7	10.7	10.6	10.0	9.8	9.9	9.7	9.2
16 to 24 years .....	20.2	20.6	20.5	19.7	19.8	19.5	19.4	19.7	18.4	18.4	18.8	17.6	17.4
16 to 19 years .....	25.6	25.7	25.8	23.9	23.6	25.3	24.4	23.9	23.7	23.8	24.7	22.9	22.7
16 to 17 years .....	28.8	28.2	29.0	24.4	23.6	26.0	27.0	27.4	25.4	27.9	26.2	23.5	24.0
18 to 19 years .....	23.4	24.1	24.0	23.5	23.4	24.8	22.8	22.0	22.9	21.2	23.7	22.5	21.9
20 to 24 years .....	17.4	18.0	17.8	17.6	17.8	16.6	17.0	17.6	15.7	15.7	15.9	15.0	14.8
25 years and over .....	8.5	8.6	8.8	8.2	8.5	8.4	8.5	8.2	7.8	7.6	7.5	7.6	7.0
25 to 54 years .....	9.1	9.2	9.4	8.7	9.1	9.0	8.9	8.8	8.4	8.1	8.0	8.1	7.4
55 years and over .....	6.0	6.2	6.3	5.8	5.7	5.8	6.3	5.8	5.4	5.4	5.3	5.6	5.4
Women, 16 years and over .....	9.9	10.2	10.3	10.0	9.8	9.8	9.6	9.5	9.9	9.0	9.1	8.8	8.4
16 to 24 years .....	17.0	17.2	17.1	16.7	16.6	16.6	16.5	16.2	16.6	14.9	15.9	15.2	15.1
16 to 19 years .....	22.5	22.6	23.0	21.5	20.7	21.5	22.4	21.9	23.4	21.6	21.2	20.5	20.4
16 to 17 years .....	22.9	24.2	25.6	23.7	23.2	24.2	25.5	24.7	26.2	22.3	23.1	24.3	23.8
18 to 19 years .....	22.3	21.4	21.3	19.8	19.3	20.5	20.7	20.2	21.9	21.0	20.3	17.9	18.5
20 to 24 years .....	14.0	14.4	14.0	14.2	14.5	14.1	13.5	13.3	12.9	11.5	13.0	12.5	12.5
25 years and over .....	7.6	7.9	8.2	7.9	7.7	7.7	7.4	7.6	7.9	7.2	7.0	6.8	6.4
25 to 54 years .....	8.2	8.5	8.8	8.7	8.2	8.3	7.9	8.2	8.2	7.6	7.5	7.3	6.8
55 years and over .....	4.8	4.9	5.1	4.8	4.9	4.7	4.5	4.6	5.8	5.3	4.7	4.4	4.4

**A-38. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	10.5	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5	9.5	9.3	8.8
Men, 20 years and over .....	9.8	10.0	10.1	9.6	9.9	9.6	9.8	9.6	9.0	8.8	8.8	8.7	8.2
Women, 20 years and over .....	8.7	9.0	9.2	9.0	8.9	8.8	8.4	8.5	8.6	7.9	8.0	7.8	7.4
Both sexes, 16 to 19 years .....	24.1	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8	23.0	21.8	21.6
White .....	9.3	9.6	9.7	9.1	9.2	9.0	8.9	8.9	8.6	8.2	8.2	8.1	7.7
Black and other .....	18.4	18.5	18.8	19.0	18.0	18.5	18.8	18.6	18.9	17.9	18.1	17.2	16.6
Black .....	20.1	20.2	20.8	20.8	19.7	19.9	20.8	20.6	20.6	19.5	20.0	19.0	18.1
Hispanic origin .....	15.0	15.4	15.3	15.5	15.8	16.2	14.5	13.8	14.0	12.3	12.9	13.1	12.3
Married men, spouse present .....	7.5	7.6	7.8	7.1	7.2	7.1	7.1	7.0	6.6	6.1	6.3	6.1	5.8
Married women, spouse present .....	7.9	8.2	8.2	7.8	7.6	7.5	7.3	7.5	7.8	7.0	6.9	6.8	6.3
Women who maintain families .....	11.3	12.5	13.2	13.2	13.0	13.5	13.2	12.9	12.8	11.6	11.6	12.2	11.1
Full-time workers .....	10.5	10.6	10.8	10.3	10.4	10.3	10.2	9.9	9.7	9.4	9.4	9.2	8.7
Part-time workers .....	10.3	11.3	11.1	10.6	10.1	10.5	10.6	11.0	12.1	10.2	10.1	10.0	9.8
Unemployed 15 weeks and over <sup>1</sup> .....	3.8	4.1	4.3	4.2	4.2	4.2	3.9	4.1	4.1	3.9	3.6	3.4	3.2
Labor force time lost <sup>2</sup> .....	12.0	12.4	12.7	11.7	12.0	11.8	11.4	11.5	10.8	10.4	10.6	10.6	10.0
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	11.0	11.4	11.6	10.8	10.8	10.8	10.5	10.5	10.0	9.6	9.8	9.4	9.0
Mining .....	17.9	18.1	18.1	17.1	18.4	18.6	20.3	22.7	18.2	16.6	14.8	17.2	11.3
Construction .....	22.3	21.8	22.0	20.0	19.7	20.3	20.3	20.4	18.1	18.0	18.1	18.2	15.2
Manufacturing .....	14.1	14.8	14.8	13.0	13.3	12.8	12.4	12.3	11.5	10.5	11.2	10.2	9.5
Durable goods .....	16.0	17.0	17.1	14.7	14.7	14.1	13.5	13.5	12.2	11.2	11.6	10.9	10.2
Nondurable goods .....	11.2	11.4	11.4	10.5	11.4	11.1	10.8	10.5	10.4	9.6	10.6	9.2	8.5
Transportation and public utilities .....	7.9	8.3	8.0	7.8	8.0	7.8	7.7	7.0	7.8	7.0	8.0	7.4	7.4
Wholesale and retail trade .....	10.4	10.6	11.0	10.8	10.9	11.2	10.4	10.1	10.2	9.7	9.8	9.6	9.9
Finance and service industries .....	7.1	7.7	7.9	7.6	7.3	7.2	7.3	7.5	7.2	7.3	7.2	7.1	6.9
Agricultural wage and salary workers .....	13.3	15.6	16.5	16.0	16.4	16.3	17.2	17.0	17.0	14.2	14.6	16.1	17.1

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

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-39. Unemployed persons by duration of unemployment, seasonally adjusted**

(Numbers in thousands)

Weeks of unemployment	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>DURATION</b>													
Less than 5 weeks .....	3,930	3,963	4,019	3,536	3,731	3,440	3,547	3,519	3,655	3,498	3,660	3,774	3,512
5 to 14 weeks .....	3,511	3,549	3,460	3,328	3,106	3,140	3,154	2,979	2,915	2,794	3,026	2,810	2,746
15 weeks and over .....	4,167	4,524	4,732	4,634	4,618	4,615	4,356	4,517	4,589	4,417	4,020	3,850	3,613
15 to 26 weeks .....	1,951	2,191	2,125	1,928	1,928	1,875	1,662	1,731	1,638	1,830	1,573	1,344	1,363
27 weeks and over .....	2,216	2,333	2,607	2,706	2,689	2,740	2,694	2,786	2,951	2,587	2,447	2,506	2,250
Average (mean) duration, in weeks .....	17.1	17.3	18.0	19.4	19.0	19.1	19.0	20.4	22.0	21.7	19.9	20.2	20.1
Median duration, in weeks .....	9.6	10.0	10.1	11.5	9.6	10.3	11.3	12.3	11.8	9.9	8.9	9.1	9.3
<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 .....	33.9	32.9	32.9	30.8	32.6	30.7	32.1	31.9	32.8	32.7	34.2	36.2	35.6
5 to 14 weeks .....	30.2	29.5	28.3	28.9	27.1	28.1	28.5	27.0	26.1	26.1	28.3	26.9	27.8
15 weeks and over .....	35.9	37.6	38.8	40.3	40.3	41.2	39.4	41.0	41.1	41.2	37.5	36.9	36.6
15 to 26 weeks .....	16.8	18.2	17.4	16.8	16.8	16.7	15.0	15.7	14.7	17.1	14.7	12.9	13.8
27 weeks and over .....	19.1	19.4	21.3	23.5	23.5	24.5	24.4	25.3	26.4	24.2	22.9	24.0	22.8

**A-40. Unemployed persons by reason for unemployment, seasonally adjusted**

(Numbers in thousands)

Reasons for unemployment	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	7,325	7,369	7,295	6,704	6,809	6,823	6,750	6,766	6,513	6,193	6,202	6,002	5,542
On layoff .....	2,519	2,531	2,468	2,131	2,024	1,945	1,948	1,943	1,822	1,719	1,658	1,591	1,373
Other job losers .....	4,806	4,838	4,827	4,573	4,784	4,878	4,803	4,823	4,691	4,474	4,545	4,411	4,169
Job leavers .....	803	794	826	839	848	901	815	801	782	738	767	866	889
Reentrants .....	2,322	2,546	2,629	2,623	2,491	2,426	2,488	2,365	2,425	2,429	2,524	2,351	2,375
New entrants .....	1,296	1,244	1,288	1,174	1,161	1,155	1,245	1,251	1,440	1,225	1,214	1,247	1,102
<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 .....	62.4	61.6	60.6	59.1	60.2	60.4	59.7	60.5	58.4	58.5	57.9	57.3	55.9
On layoff .....	21.4	21.2	20.5	18.8	17.9	17.2	17.2	17.4	16.3	16.2	15.5	15.2	13.9
Other job losers .....	40.9	40.5	40.1	40.3	42.3	43.1	42.5	43.1	42.0	42.3	42.4	42.1	42.1
Job leavers .....	6.8	6.6	6.9	7.4	7.5	8.0	7.2	7.2	7.0	7.0	7.2	8.3	9.0
Reentrants .....	19.8	21.3	21.8	23.1	22.0	21.5	22.0	21.1	21.7	22.9	23.6	22.5	24.0
New entrants .....	11.0	10.4	10.7	10.4	10.3	10.2	11.0	11.2	12.9	11.6	11.3	11.9	11.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	6.6	6.6	6.6	6.1	6.2	6.2	6.1	6.1	5.8	5.5	5.5	5.3	5.0
Job leavers .....	.7	.7	.7	.8	.8	.8	.7	.7	.7	.7	.7	.8	.8
Reentrants .....	2.1	2.3	2.4	2.4	2.3	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.1
New entrants .....	1.2	1.1	1.2	1.1	1.1	1.0	1.1	1.1	1.3	1.1	1.1	1.1	1.0

# ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

## B-1. Employees on nonagricultural payrolls by industry division, 1932 to date

(In thousands)

Year and month	Goods-producing						Service-producing								
	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government			
							Total	Wholesale trade	Retail trade			Total	Federal	State and local	
<b>Annual averages</b>															
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959 <sup>1</sup> .....	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,823	26,461	958	4,463	21,040	63,363	5,136	20,192	5,204	14,989	4,975	17,112	15,947	2,773	13,174
1980.....	90,406	25,658	1,027	4,346	20,285	64,748	5,146	20,310	5,275	15,035	5,160	17,890	16,241	2,866	13,375
1981.....	91,156	25,497	1,139	4,188	20,170	65,659	5,165	20,547	5,358	15,189	5,298	18,619	16,031	2,772	13,259
1982.....	89,596	23,907	1,143	3,911	18,853	65,689	5,081	20,401	5,280	15,122	5,340	19,064	15,803	2,739	13,064
<b>Monthly data, seasonally adjusted</b>															
<b>1982:</b>															
October.....	88,938	23,287	1,082	3,847	18,358	65,651	5,033	20,344	5,237	15,107	5,350	19,144	15,780	2,742	13,038
November.....	88,785	23,131	1,066	3,843	18,222	65,654	5,019	20,320	5,212	15,068	5,356	19,187	15,772	2,746	13,026
December.....	88,665	23,061	1,053	3,815	18,193	65,604	5,008	20,256	5,192	15,064	5,367	19,215	15,758	2,747	13,011
<b>1983:</b>															
January.....	88,885	23,186	1,037	3,905	18,244	65,659	4,979	20,355	5,185	15,170	5,374	19,238	15,753	2,748	13,005
February.....	86,746	23,049	1,014	3,790	18,245	65,697	4,966	20,343	5,181	15,162	5,384	19,262	15,742	2,742	13,000
March.....	88,814	23,030	1,006	3,757	18,267	65,784	4,963	20,350	5,176	15,174	5,391	19,356	15,724	2,742	12,982
April.....	89,090	23,159	997	3,766	18,376	65,931	4,986	20,329	5,180	15,149	5,423	19,478	15,713	2,738	12,975
May.....	89,421	23,347	994	3,860	18,493	66,074	4,993	20,356	5,197	15,159	5,435	19,546	15,744	2,756	12,986
June.....	89,844	23,518	1,003	3,933	18,582	66,326	4,992	20,494	5,222	15,272	5,451	19,668	15,721	2,742	12,979
July.....	90,152	23,724	1,017	3,974	18,733	66,428	4,984	20,529	5,229	15,300	5,465	19,770	15,680	2,738	12,942
August.....	89,735	23,830	1,023	4,014	18,793	65,505	4,341	20,580	5,249	15,331	5,488	19,835	15,661	2,733	12,928
September..P	90,753	23,943	1,027	4,040	18,876	66,610	5,027	20,613	5,273	15,340	5,496	19,921	15,753	2,741	13,012
October..P ..															

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
-	<b>TOTAL</b> .....	89,562	89,541	89,599	91,116	91,716	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	74,161	73,678	74,745	75,747	75,953	59,919	59,495	60,331	61,331	61,504
-	<b>MINING</b> .....	1,104	1,077	1,032	1,031	1,033	797	774	730	731	725
10	<b>METAL MINING</b> .....	62.3	59.3	60.8	62.1	-	44.4	41.7	44.5	45.6	-
101	Iron ores .....	6.1	6.0	7.5	7.6	-	3.8	3.0	5.2	5.2	-
102	Copper ores .....	20.3	19.9	15.2	20.1	-	14.4	14.1	13.4	14.2	-
11, 12	<b>COAL MINING</b> .....	235.0	229.7	210.9	212.6	-	190.7	186.2	169.5	171.7	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	231.5	226.3	208.3	209.9	-	187.6	183.2	167.2	169.4	-
13	<b>OIL AND GAS EXTRACTION</b> .....	583.2	672.5	642.5	638.3	-	472.3	457.5	426.2	423.7	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	280.6	279.2	284.7	279.7	-	131.6	130.9	132.2	128.3	-
138	Oil and gas field services .....	406.4	393.3	357.8	358.6	-	340.7	326.6	294.0	295.4	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	117.0	115.5	117.8	118.0	-	89.5	88.5	90.1	90.4	-
142	Crushed and broken stone .....	58.5	38.4	41.0	41.3	-	31.0	30.9	32.6	30.9	-
144	Sand and gravel .....	35.4	34.8	37.4	37.1	-	-	-	-	-	-
147	Chemical and fertilizer minerals .....	23.5	23.2	20.1	20.3	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	4,109	4,070	4,295	4,282	4,326	3,195	3,166	3,362	3,356	3,400
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,021.9	1,012.7	1,117.2	1,103.1	-	765.1	759.2	842.9	832.5	-
152	Residential building construction .....	470.4	465.1	538.0	532.7	-	341.1	336.4	394.1	391.8	-
153	Operative builders .....	46.5	46.1	62.6	60.3	-	21.7	22.1	35.5	34.0	-
154	Nonresidential building construction .....	505.0	501.5	516.6	510.1	-	402.3	399.7	413.3	406.7	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	694.4	889.7	873.7	868.8	-	721.2	717.6	710.8	709.7	-
161	Highway and street construction .....	259.2	254.1	269.5	269.7	-	220.8	216.0	230.5	231.6	-
162	Heavy construction, except highway .....	635.2	635.6	604.2	599.1	-	500.4	501.6	480.3	477.1	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	2,192.9	2,167.9	2,304.5	2,310.2	-	1,708.9	1,690.1	1,808.5	1,814.3	-
171	Plumbing, heating, air conditioning .....	500.9	499.6	508.6	511.2	-	364.4	364.1	367.7	371.1	-
172	Painting, paper hanging, decorating .....	134.6	129.8	142.1	140.9	-	112.9	107.8	120.1	119.0	-
173	Electrical work .....	409.8	408.2	409.9	413.2	-	313.7	312.8	312.7	316.6	-
174	Masonry, stonework, and plastering .....	322.6	317.7	357.9	355.5	-	272.9	269.2	306.0	307.5	-
175	Carpentering and flooring .....	107.4	105.9	122.5	123.6	-	79.6	79.2	93.0	94.1	-
176	Roofing and sheet metal work .....	166.6	167.1	169.8	170.1	-	133.6	134.3	136.6	137.0	-
-	<b>MANUFACTURING</b> .....	13,811	18,504	18,885	19,148	19,195	12,790	12,505	12,873	13,133	13,182
24, 25, 32-39	<b>DURABLE GOODS</b> .....	10,971	10,738	10,996	11,204	11,286	7,251	7,039	7,290	7,498	7,574
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	7,840	7,766	7,889	7,944	7,909	5,539	5,466	5,583	5,635	5,608
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	623.0	614.1	723.4	726.8	723.1	512.1	503.5	607.6	611.1	606.4
241	Logging camps and logging contractors .....	84.2	82.3	94.4	94.7	-	65.5	63.4	73.0	75.5	-
242	Sawmills and planing mills .....	164.1	180.8	214.9	215.2	-	161.7	158.2	191.0	191.6	-
2421	Sawmills and planing mills, general .....	154.6	151.4	180.1	180.0	-	136.1	132.6	160.3	160.6	-
2426	Hardwood dimension and flooring .....	25.8	25.8	29.9	30.1	-	22.2	22.2	26.3	26.5	-
243	Millwork, plywood, and structural members .....	181.9	179.5	216.9	218.3	-	147.7	145.7	180.6	182.0	-
2431	Millwork .....	66.9	67.8	84.1	84.5	-	54.2	53.2	68.3	68.6	-
2434	Wood kitchen cabinets .....	42.1	40.5	50.7	51.9	-	32.8	31.4	40.7	41.7	-
2435	Hardwood veneer and plywood .....	21.6	21.4	23.8	23.8	-	19.0	18.7	21.0	21.0	-
2436	Softwood veneer and plywood .....	35.4	35.8	38.8	38.6	-	31.3	31.7	34.9	34.9	-
244	Wood containers .....	38.4	38.6	41.7	41.6	-	32.5	32.4	35.5	35.4	-
245	Wood buildings and mobile homes .....	63.0	61.9	80.7	81.2	-	45.8	45.2	63.2	63.8	-
2451	Mobile homes .....	44.9	43.8	57.9	58.6	-	34.4	33.6	47.1	47.7	-
249	Miscellaneous wood products .....	71.4	71.0	74.8	75.8	-	58.9	58.6	62.1	62.8	-
25	<b>FURNITURE AND FIXTURES</b> .....	433.1	430.9	455.9	464.7	469.6	342.8	340.6	352.8	371.4	374.9
251	Household furniture .....	268.4	267.7	280.0	283.9	-	221.1	220.5	232.2	236.2	-
2511	Wood household furniture .....	122.0	120.5	125.1	126.2	-	104.7	103.2	108.3	109.6	-
2512	Upholstered household furniture .....	83.1	83.2	90.8	92.1	-	67.1	67.2	73.6	74.0	-
2514	Metal household furniture .....	24.1	25.6	25.7	26.5	-	18.8	20.3	20.3	21.0	-
2515	Mattresses and bedspreads .....	28.3	27.7	29.3	29.7	-	21.2	20.7	22.3	22.7	-
252	Office furniture .....	55.1	54.2	59.0	60.9	-	42.6	41.7	45.8	47.5	-
253	Public building and related furniture .....	20.3	20.8	21.5	22.0	-	14.8	15.3	15.8	16.2	-
254	Partitions and fixtures .....	58.3	57.1	61.7	63.1	-	43.0	42.0	45.8	47.4	-
259	Miscellaneous furniture and fixtures .....	31.0	31.1	33.7	34.8	-	21.3	21.1	23.2	24.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	565.3	576.1	596.8	600.9	601.1	446.2	437.7	459.2	463.5	463.5
321	Flat glass .....	16.7	16.4	17.5	17.7	-	13.2	12.9	13.7	14.0	-
322	Glass and glassware, pressed or blown .....	109.5	107.5	104.1	105.4	-	92.3	90.2	88.1	89.3	-
3221	Glass containers .....	62.1	61.1	58.0	57.5	-	54.7	53.8	51.2	50.7	-
3229	Pressed and blown glass, nec .....	47.8	46.4	46.1	47.9	-	37.6	36.4	36.9	38.6	-
323	Products of purchased glass .....	41.3	40.5	43.3	43.9	-	27.5	26.8	28.8	29.4	-
324	Cement, hydraulic .....	27.5	26.8	26.2	26.3	-	21.7	21.2	20.8	20.7	-
325	Structural clay products .....	34.2	34.2	38.2	38.9	-	25.0	25.0	28.9	29.9	-
326	Pottery and related products .....	39.2	39.1	39.2	40.2	-	31.6	31.5	31.0	31.7	-
327	Concrete, gypsum, and plaster products .....	190.0	187.5	202.4	201.8	-	145.7	143.2	157.8	157.5	-
3271	Concrete block and brick .....	18.2	18.2	19.4	19.2	-	12.4	12.3	13.4	13.3	-
3272	Concrete products, nec .....	61.4	59.6	63.8	64.1	-	45.8	44.0	48.2	48.5	-
3273	Ready-mixed concrete .....	92.2	92.2	100.5	99.8	-	73.2	72.9	81.2	80.7	-
329	Misc. nonmetallic mineral products .....	115.6	113.6	115.5	116.3	-	80.6	78.7	82.0	82.8	-
3291	Abrasive products .....	22.7	22.4	22.7	22.6	-	14.1	13.7	14.8	14.8	-
3292	Asbestos products .....	13.2	12.9	13.4	13.5	-	9.9	9.6	10.0	10.1	-
3296	Mineral wool .....	27.1	27.0	26.6	27.2	-	-	-	-	-	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	873.9	832.8	841.6	854.5	853.0	644.8	608.9	629.0	641.7	640.8
331	Blast furnace and basic steel products .....	300.1	341.5	339.3	338.9	-	264.8	248.9	255.9	256.0	-
3312	Blast furnaces and steel mills .....	294.8	275.5	277.7	276.3	-	217.6	204.4	210.9	209.9	-
3317	Steel pipe and tubes .....	25.5	23.7	22.8	23.1	-	18.5	16.9	16.2	16.9	-
332	Iron and steel foundries .....	151.7	139.6	144.4	147.8	-	116.2	104.8	111.2	114.6	-
3321	Gray iron foundries .....	93.4	86.8	94.2	96.4	-	73.8	67.4	74.7	77.0	-
3322	Malleable iron foundries .....	11.2	10.1	10.6	11.3	-	8.2	7.2	7.5	8.3	-
3325	Steel foundries, nec .....	36.9	32.9	30.5	30.9	-	27.7	23.8	22.0	22.9	-
333	Primary nonferrous metals .....	52.7	50.4	50.3	51.2	-	37.7	36.2	36.5	37.4	-
3334	Primary aluminum .....	27.9	26.0	26.9	27.6	-	20.6	19.3	20.5	21.3	-
335	Nonferrous rolling and drawing .....	187.1	182.2	180.9	186.2	-	132.0	127.9	127.3	132.0	-
3351	Copper rolling and drawing .....	26.4	25.2	26.8	27.2	-	19.7	18.3	19.5	20.1	-
3353	Aluminum sheet, plate, and foil .....	30.1	29.8	30.2	30.5	-	23.1	23.0	23.4	23.8	-
3357	Nonferrous wire drawing and insulating .....	76.6	76.5	72.4	77.3	-	55.3	53.4	50.5	54.1	-
336	Nonferrous foundries .....	79.8	77.6	85.2	87.6	-	62.9	60.9	68.0	70.4	-
3361	Aluminum foundries .....	46.4	44.9	51.0	52.7	-	37.4	36.1	41.6	43.4	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	1,410.6	1,386.1	1,405.4	1,428.8	1,439.0	1,022.5	995.6	1,019.1	1,043.2	1,052.6
341	Metal cans and shipping containers .....	64.6	61.7	63.5	63.6	-	54.9	51.9	53.4	53.8	-
3411	Metal cans .....	52.7	49.9	51.4	51.0	-	45.5	42.8	44.1	44.0	-
342	Cutlery, hand tools, and hardware .....	137.4	135.5	139.4	142.3	-	99.6	97.5	101.9	104.9	-
3423,5	Hand and edge tools, and hand saws and blades .....	45.4	44.7	44.4	45.2	-	33.0	32.2	32.0	32.9	-
3429	Hardware, nec .....	79.0	77.8	82.3	84.4	-	57.8	56.4	61.3	63.4	-
343	Plumbing and heating, except electric .....	60.9	60.8	63.6	65.4	-	42.4	42.5	44.8	46.3	-
3432	Plumbing fittings and brass goods .....	22.7	22.2	23.8	24.1	-	17.8	17.3	17.8	18.1	-
3433	Heating equipment, except electric .....	29.1	29.4	30.8	31.5	-	18.8	19.1	23.6	21.2	-
344	Fabricated structural metal products .....	450.5	445.2	441.2	444.8	-	303.4	299.7	293.4	301.7	-
3441	Fabricated structural metal .....	86.6	84.6	76.5	78.7	-	60.5	58.4	54.5	54.6	-
3442	Metal doors, sash, and trim .....	76.5	76.6	87.2	87.8	-	55.7	56.2	64.5	65.0	-
3443	Fabricated plate work (boiler shops) .....	126.8	123.9	110.0	110.3	-	75.1	73.4	63.0	63.4	-
3444	Sheet metal work .....	99.5	93.3	104.3	106.0	-	71.4	70.6	75.3	76.9	-
3446	Architectural metal work .....	27.5	28.2	28.1	28.4	-	19.0	19.5	19.5	19.7	-
345	Screw machine products, bolts, etc. .....	87.7	94.8	86.2	88.2	-	65.5	62.5	64.3	66.1	-
3451	Screw machine products .....	40.5	40.0	41.2	42.6	-	31.9	31.1	32.4	33.7	-
3452	Bolts, nuts, rivets, and washers .....	46.8	44.8	45.0	45.6	-	33.6	31.4	31.9	32.4	-
346	Metal forgings and stampings .....	231.0	221.0	232.6	240.5	-	180.6	171.2	183.8	191.9	-
3462	Iron and steel forgings .....	56.1	34.3	32.6	33.1	-	26.8	25.0	24.2	24.9	-
3465	Automotive stampings .....	84.3	79.3	87.4	92.6	-	71.3	65.8	74.2	79.1	-
3469	Metal stampings, nec .....	96.6	96.6	101.7	103.6	-	74.0	72.4	77.1	78.5	-
347	Metal services, nec .....	32.5	91.0	93.1	94.3	-	72.7	71.6	73.6	74.8	-
3471	Plating and polishing .....	64.6	63.8	66.3	66.7	-	52.1	51.5	53.4	53.9	-
3479	Metal coating and allied services .....	27.9	27.2	26.8	27.6	-	20.6	20.1	20.4	20.9	-
348	Ordinance and accessories, nec .....	65.5	65.4	65.0	65.9	-	41.6	41.8	41.2	42.5	-
3483	Ammunition, exc. for small arms, nec .....	27.9	28.1	29.3	29.5	-	17.6	17.6	18.0	19.3	-
349	Misc. fabricated metal products .....	226.3	220.7	226.6	223.8	-	161.8	156.9	157.5	161.2	-
3494	Valves and pipe fittings .....	83.2	87.1	91.7	91.9	-	58.4	56.9	52.9	53.6	-
3496	Misc. fabricated wire products .....	50.1	49.5	52.8	54.1	-	38.0	37.3	40.0	41.3	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	2,183.6	2,114.2	2,083.7	2,114.7	2,128.9	1,298.7	1,237.3	1,216.0	1,244.1	1,262.3
351	Engines and turbines .....	106.9	104.0	93.5	93.4	-	64.5	61.8	53.0	53.6	-
3511	Turbines and turbine generator sets .....	40.5	41.4	36.4	36.0	-	22.2	22.2	17.5	17.4	-
3519	Internal combustion engines, nec .....	66.0	62.6	57.1	57.4	-	42.3	39.6	35.5	36.2	-
352	Farm and garden machinery .....	133.6	128.3	121.5	131.9	-	85.5	80.5	76.3	85.3	-
3523	Farm machinery and equipment .....	118.5	112.7	104.9	113.7	-	75.4	70.1	64.5	72.5	-
353	Construction and related machinery .....	306.2	283.6	266.3	269.4	-	185.6	161.4	150.2	154.9	-
3531	Construction machinery .....	100.3	85.0	91.4	93.4	-	58.9	42.5	47.4	50.7	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1962	Oct. 1962	Aug. 1963	Sept. 1963P	Oct. 1963P	Sept. 1962	Oct. 1962	Aug. 1963	Sept. 1963P	Oct. 1963P
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3532	Mining machinery.....	29.1	27.9	22.1	21.9	-	16.9	16.2	12.5	12.4	-
3533	Oil field machinery.....	97.7	92.5	74.6	74.4	-	63.3	58.6	45.2	45.4	-
3535	Conveyors and conveying equipment.....	30.7	29.2	26.0	28.5	-	16.2	15.2	14.7	14.7	-
3537	Industrial trucks and tractors.....	26.1	25.2	27.5	27.9	-	15.6	14.7	16.8	17.3	-
354	Metalworking machinery.....	301.3	291.5	279.5	283.6	-	207.9	200.4	194.3	197.9	-
3541	Machine tools, metal cutting types.....	58.4	55.3	48.2	48.7	-	34.3	32.0	27.5	28.0	-
3542	Machine tools, metal forming types.....	19.2	18.4	16.4	17.0	-	11.3	10.6	9.5	10.0	-
3544	Special dies, tools, jigs, and fixtures.....	122.7	120.5	120.9	123.0	-	94.9	93.1	93.2	95.3	-
3545	Machine tool accessories.....	56.5	54.4	51.8	53.0	-	36.9	35.5	35.3	36.1	-
3546	Power driven hand tools.....	24.3	23.4	24.6	24.9	-	17.6	16.9	17.9	18.1	-
355	Special industry machinery.....	171.8	167.3	159.7	160.7	-	104.1	100.4	92.8	93.4	-
3551	Food products machinery.....	39.0	37.9	35.7	36.1	-	24.7	23.6	21.7	21.9	-
3552	Textile machinery.....	20.9	20.5	19.7	19.7	-	13.8	13.6	13.3	13.2	-
3555	Printing trades machinery.....	35.6	34.8	33.8	33.7	-	21.0	20.3	19.3	19.1	-
356	General industrial machinery.....	272.4	264.2	252.5	257.2	-	169.0	161.6	155.5	159.8	-
3561	Pumps and pumping equipment.....	54.2	52.6	49.4	50.6	-	30.0	29.3	27.1	28.4	-
3562	Ball and roller bearings.....	45.9	43.7	45.0	46.1	-	33.8	31.9	35.0	34.2	-
3563	Air and gas compressors.....	27.5	26.9	23.0	23.5	-	14.8	14.3	11.4	11.7	-
3564	Blowers and fans.....	36.4	35.5	34.3	34.9	-	22.4	21.6	21.0	21.5	-
3566	Speed changers, drives, and gears.....	20.1	19.3	19.2	19.5	-	12.5	11.9	12.3	12.4	-
3568	Power transmission equipment, nec.....	18.5	18.0	16.9	17.2	-	12.3	11.7	11.1	11.4	-
357	Office and computing machines.....	478.2	476.3	496.7	495.6	-	187.6	187.3	196.7	198.1	-
3573	Electronic computing equipment.....	410.3	408.2	431.8	430.2	-	153.1	152.8	165.5	165.7	-
358	Refrigeration and service machinery.....	154.9	150.2	162.8	166.5	-	104.1	100.5	111.2	114.6	-
3566	Refrigeration and heating equipment.....	103.8	99.8	114.0	116.7	-	71.0	67.7	79.1	81.5	-
359	Misc. machinery, except electrical.....	250.3	248.8	250.8	256.4	-	190.4	183.4	186.0	191.5	-
3562	Carburetors, pistons, rings, valves.....	34.5	31.9	34.1	35.9	-	26.6	24.3	27.0	28.7	-
3599	Machinery, except electrical, nec.....	221.8	216.9	216.7	220.5	-	163.8	159.1	159.0	162.8	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	<b>2,005.1</b>	<b>1,985.1</b>	<b>2,041.3</b>	<b>2,095.9</b>	<b>2,118.7</b>	<b>1,204.0</b>	<b>1,185.2</b>	<b>1,231.5</b>	<b>1,281.2</b>	<b>1,304.1</b>
361	Electric distributing equipment.....	109.2	108.8	106.3	111.6	-	76.7	75.8	77.0	79.4	-
3612	Transformers.....	48.6	47.8	47.4	48.3	-	34.9	33.8	33.2	33.6	-
3613	Switchgear and switchboard apparatus.....	60.6	61.0	60.9	63.3	-	41.8	42.0	44.4	45.8	-
362	Electrical industrial apparatus.....	196.7	190.7	192.0	195.1	-	135.1	130.4	132.6	136.1	-
3621	Motors and generators.....	96.3	93.7	96.9	98.6	-	72.5	70.3	73.9	75.9	-
3622	Industrial controls.....	61.5	60.6	58.3	59.0	-	36.4	35.9	34.3	35.1	-
363	Household appliances.....	142.7	139.9	149.9	155.9	-	110.4	107.8	116.8	122.1	-
3632	Household refrigerators and freezers.....	25.0	24.2	25.8	27.7	-	19.6	18.7	20.7	22.4	-
3633	Household laundry equipment.....	19.1	19.0	24.6	24.1	-	14.2	14.2	19.2	18.6	-
3634	Electric housewares and fans.....	46.0	45.7	44.5	45.9	-	35.6	35.4	33.9	35.3	-
364	Electric lighting and wiring equipment.....	184.6	182.4	186.2	189.9	-	134.2	132.0	136.3	139.7	-
3641	Electric lamps.....	29.4	29.2	26.3	27.7	-	25.6	25.3	22.7	24.1	-
3643	Current-carrying wiring devices.....	77.0	75.6	79.4	80.7	-	50.5	49.2	53.3	54.3	-
3644	Noncurrent-carrying wiring devices.....	17.6	17.5	17.0	17.3	-	12.9	12.6	12.4	12.7	-
3645	Residential lighting fixtures.....	22.4	22.7	25.1	25.0	-	16.8	17.3	19.2	19.1	-
365	Radio and TV receiving equipment.....	51.0	49.5	47.8	49.9	-	42.4	41.6	40.5	42.4	-
3651	Radio and TV receiving sets.....	70.6	68.9	68.6	70.5	-	47.6	46.4	46.5	47.9	-
366	Communication equipment.....	572.2	572.2	565.9	585.8	-	262.4	261.5	244.9	264.1	-
3661	Telephone and telegraph apparatus.....	145.5	143.9	119.6	137.7	-	92.2	90.5	69.4	87.4	-
3662	Radio and TV communication equipment.....	426.7	428.3	446.3	448.1	-	170.2	171.0	175.5	176.7	-
367	Electronic components and accessories.....	561.6	556.3	601.3	611.2	-	318.4	313.1	355.9	362.9	-
3671-3	Electronic tubes.....	42.6	42.3	44.3	44.7	-	25.9	25.7	27.8	28.1	-
3674	Semiconductors and related devices.....	227.8	226.4	240.1	242.6	-	90.6	89.7	102.4	103.7	-
3679	Electronic components, nec.....	222.8	220.3	244.1	249.7	-	151.1	147.8	170.8	176.0	-
369	Misc. electrical equipment and supplies.....	146.9	145.3	149.9	156.5	-	104.4	103.0	106.9	113.5	-
3691	Storage batteries.....	30.7	30.7	30.2	32.3	-	24.0	24.1	25.8	25.8	-
3694	Engine electrical equipment.....	56.3	55.6	57.1	60.9	-	43.5	42.9	44.1	47.8	-
37	<b>TRANSPORTATION EQUIPMENT</b> .....	<b>1,748.2</b>	<b>1,705.9</b>	<b>1,765.9</b>	<b>1,829.7</b>	<b>1,853.8</b>	<b>1,091.7</b>	<b>1,052.0</b>	<b>1,095.6</b>	<b>1,158.0</b>	<b>1,183.5</b>
371	Motor vehicles and equipment.....	724.2	687.9	764.0	816.7	-	534.6	501.0	569.0	623.1	-
3711	Motor vehicles and car bodies.....	338.1	319.7	355.4	383.9	-	239.3	222.5	252.2	282.2	-
3713	Truck and bus bodies.....	31.1	28.5	32.6	33.9	-	23.5	20.9	25.0	26.1	-
3714	Motor vehicle parts and accessories.....	329.6	314.5	340.9	360.1	-	253.7	239.4	265.2	264.4	-
3715	Truck trailers.....	18.4	18.3	24.8	26.2	-	12.9	12.9	13.7	20.1	-
372	Aircraft and parts.....	591.2	589.0	571.9	576.8	-	297.4	254.7	273.5	276.5	-
3721	Aircraft.....	312.5	312.4	307.6	305.7	-	139.5	138.7	130.5	128.6	-
3724	Aircraft engines and engine parts.....	147.7	146.9	134.6	140.3	-	82.9	81.9	89.4	73.2	-
3728	Aircraft equipment, nec.....	130.6	129.7	129.7	130.3	-	75.0	74.1	73.6	74.7	-
373	Ship and boat building and repairing.....	209.7	205.7	194.5	197.7	-	160.0	156.2	145.8	149.1	-
3731	Ship building and repairing.....	173.3	170.2	150.8	152.9	-	130.5	127.5	110.3	112.2	-
3732	Boat building and repairing.....	36.4	35.5	43.7	44.8	-	29.5	28.7	35.8	36.9	-
374	Railroad equipment.....	35.0	33.1	29.7	31.3	-	21.7	20.4	19.3	20.2	-
376	Guided missiles, space vehicles, parts.....	134.4	135.2	145.0	145.6	-	41.4	42.0	47.2	47.7	-
3761	Guided missiles and space vehicles.....	106.6	107.1	114.9	115.4	-	31.4	31.9	36.4	36.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment .....	42.3	42.8	46.6	48.3	-	28.7	29.0	30.5	32.5	-
3782	Travel trailers and campers .....	15.8	15.6	20.5	20.8	-	12.1	11.8	16.1	16.3	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS .....</b>	710.8	704.1	693.6	697.5	700.6	404.6	356.4	386.7	393.0	394.8
381	Engineering and scientific instruments .....	80.2	80.1	80.9	81.2	-	36.9	37.0	36.7	37.2	-
382	Measuring and controlling devices .....	242.8	239.7	235.7	238.6	-	145.9	142.4	137.8	140.9	-
3822	Environmental controls .....	42.1	41.6	44.7	46.2	-	27.3	26.5	29.2	30.4	-
3823	Process control instruments .....	57.8	57.5	53.9	53.9	-	28.9	28.7	23.5	25.6	-
3825	Instruments to measure electricity .....	101.5	100.5	98.9	99.2	-	61.5	60.4	57.7	58.3	-
383	Optical instruments and lenses .....	33.0	33.1	33.7	33.7	-	17.9	18.1	17.1	17.6	-
384	Medical instruments and supplies .....	158.3	157.5	161.4	162.6	-	96.5	95.9	98.5	100.0	-
3841	Surgical and medical instruments .....	76.4	75.9	78.5	78.2	-	44.0	43.4	46.2	46.4	-
3842	Surgical appliances and supplies .....	67.2	67.1	69.0	70.4	-	43.7	43.9	44.3	45.5	-
385	Ophthalmic goods .....	37.7	36.4	37.3	37.2	-	25.6	24.7	25.4	25.7	-
386	Photographic equipment and supplies .....	140.1	138.8	127.4	127.1	-	68.5	65.6	59.3	58.7	-
387	Watches, clocks, and watchcases .....	18.7	18.5	17.2	17.1	-	13.3	12.7	11.9	11.9	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES .....</b>	391.1	388.8	388.6	390.6	398.1	283.6	282.0	282.0	284.4	291.5
391	Jewelry, silverware, and plated ware .....	57.3	58.7	56.4	57.2	-	40.7	42.0	39.9	40.6	-
3911	Jewelry, precious metal .....	37.6	38.5	37.5	37.9	-	26.7	27.5	26.5	26.9	-
393	Musical instruments .....	18.9	19.0	20.0	20.3	-	14.5	15.0	15.8	16.0	-
394	Toys and sporting goods .....	113.9	110.8	114.5	114.0	-	84.1	81.6	83.2	83.5	-
3942, 4	Dolls, games, toys, and children's vehicles .....	62.1	59.3	61.7	60.8	-	44.5	42.2	43.0	43.6	-
3949	Sporting and athletic goods, nec .....	51.8	51.5	52.8	53.2	-	39.6	39.4	39.6	39.9	-
395	Pens, pencils, office and art supplies .....	31.2	30.6	30.6	30.8	-	21.2	20.6	21.3	21.4	-
396	Costume jewelry and notions .....	39.6	40.3	38.5	40.2	-	30.4	31.2	29.6	30.9	-
3961	Costume jewelry .....	21.2	21.4	19.9	21.0	-	16.8	17.1	15.4	16.2	-
399	Miscellaneous manufactures .....	130.2	129.4	128.6	128.1	-	92.3	91.6	92.2	92.0	-
3993	Signs and advertising displays .....	47.4	46.9	48.5	48.3	-	33.5	33.1	34.4	34.1	-
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS .....</b>	1,735.1	1,696.2	1,720.9	1,733.8	1,670.5	1,222.3	1,185.3	1,208.8	1,220.1	1,164.1
201	Meat products .....	347.9	347.0	348.0	351.1	-	290.4	289.5	291.0	293.5	-
2011	Meat packing plants .....	144.8	144.5	141.8	144.5	-	118.8	118.6	115.3	117.6	-
2013	Sausages and other prepared meats .....	71.7	70.5	71.6	71.4	-	53.1	51.7	53.2	53.1	-
2016	Poultry dressing plants .....	115.9	116.6	118.3	118.9	-	104.9	105.6	108.1	108.4	-
202	Dairy products .....	167.3	165.6	170.0	167.4	-	94.1	92.4	98.2	96.3	-
2022	Cheese, natural and processed .....	35.8	35.8	36.0	35.6	-	27.3	27.2	27.7	27.4	-
2026	Fluid milk .....	93.3	92.7	92.4	92.1	-	42.2	41.7	43.2	43.0	-
203	Preserved fruits and vegetables .....	322.9	280.4	308.0	313.6	-	278.2	236.8	264.3	268.6	-
2032	Canned specialties .....	27.1	25.8	24.5	26.5	-	20.5	19.1	18.4	20.4	-
2033	Canned fruits and vegetables .....	156.1	113.6	142.1	141.2	-	137.2	96.5	125.5	124.2	-
2037	Frozen fruits and vegetables .....	58.4	57.4	53.4	57.0	-	52.4	50.3	46.3	49.7	-
204	Grain mill products .....	134.2	134.4	136.5	137.0	-	91.5	90.5	92.1	92.4	-
2041	Flour and other grain mill products .....	25.8	25.4	27.2	27.2	-	15.9	14.9	16.2	16.1	-
2048	Prepared feeds, nec .....	50.5	50.9	49.5	49.4	-	32.2	32.5	31.7	31.5	-
205	Bakery products .....	219.5	219.0	219.6	219.5	-	129.3	129.1	130.1	130.0	-
2051	Bread, cake, and related products .....	175.9	175.3	175.6	175.2	-	94.2	93.7	94.7	94.5	-
2052	Cookies and crackers .....	43.6	43.7	44.0	44.3	-	35.1	35.4	35.4	35.5	-
206	Sugar and confectionery products .....	102.8	114.0	102.8	108.5	-	79.9	91.2	79.1	84.5	-
2061-3	Cane and beet sugar .....	26.7	34.9	24.6	26.8	-	20.2	28.6	18.4	20.9	-
2085	Confectionery products .....	55.4	58.5	57.2	61.1	-	45.5	48.3	46.4	49.7	-
207	Fats and oils .....	36.4	39.1	35.4	35.6	-	28.4	29.3	26.1	26.1	-
208	Beverages .....	232.8	230.0	228.9	229.7	-	101.8	100.0	97.1	98.0	-
2082	Malt beverages .....	50.5	49.0	47.6	47.6	-	32.2	31.1	28.8	28.3	-
2086	Bottled and canned soft drinks .....	135.2	133.3	136.5	134.7	-	44.2	42.9	44.8	43.6	-
209	Misc. foods and kindred products .....	169.3	166.7	171.7	171.4	-	128.7	126.5	130.8	130.7	-
21	<b>TOBACCO MANUFACTURES .....</b>	70.7	70.2	65.2	68.1	68.5	55.9	55.3	50.1	52.9	53.4
211	Cigarettes .....	45.7	45.6	44.3	43.6	-	34.7	34.5	33.4	32.5	-
22	<b>TEXTILE MILL PRODUCTS .....</b>	740.6	737.8	754.3	760.0	763.0	635.4	633.7	652.0	657.8	661.5
221	Weaving mills, cotton .....	124.0	124.1	123.1	123.9	-	109.1	109.6	109.5	110.8	-
222	Weaving mills, synthetics .....	94.0	92.3	92.0	92.6	-	83.7	82.4	82.4	83.2	-
223	Weaving and finishing mills, wool .....	16.0	15.9	17.4	17.7	-	13.3	13.2	14.6	14.8	-
224	Narrow fabric mills .....	22.2	22.2	22.2	22.1	-	19.2	19.1	19.0	19.0	-
225	Knitting mills .....	206.4	205.8	209.6	211.1	-	178.5	177.7	182.1	183.0	-
2251	Women's hosiery, except socks .....	31.7	31.6	34.1	34.4	-	28.4	28.3	30.7	31.0	-
2252	Hosiery, nec .....	31.5	31.4	33.2	33.2	-	28.5	28.4	30.1	29.9	-
2253	Knit outerwear mills .....	68.0	68.7	64.5	65.4	-	58.5	59.2	55.7	56.4	-
2254	Knit underwear mills .....	29.2	28.9	30.8	30.9	-	24.6	24.2	26.0	26.0	-

See footnotes at end of table.



# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2257	Circular knit fabric mills	25.9	25.7	26.7	26.7	-	21.7	21.5	22.6	22.6	-
226	Textile finishing, except wool	63.5	64.7	65.4	65.6	-	52.1	53.4	54.6	54.9	-
2261	Finishing plants, cotton	26.3	27.8	27.7	27.4	-	21.3	22.9	23.0	22.8	-
2262	Finishing plants, synthetics	23.0	22.8	22.8	23.0	-	19.0	18.9	19.0	19.2	-
227	Floor covering mills	46.0	45.8	49.8	50.4	-	36.2	36.0	39.9	40.4	-
228	Yarn and thread mills	109.9	109.2	113.8	114.6	-	97.3	97.3	101.6	102.4	-
2281	Yarn mills, except wool	74.6	75.0	77.6	78.0	-	67.5	67.8	69.9	70.2	-
2282	Throwing and winding mills	17.3	17.0	18.2	18.6	-	15.1	15.0	16.3	16.6	-
229	Miscellaneous textile goods	58.6	57.8	61.0	62.0	-	45.8	45.0	48.3	49.3	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,167.5	1,164.1	1,182.0	1,196.5	1,207.7	988.2	982.6	1,000.7	1,015.2	1,024.4
231	Men's and boys' suits and coats	74.8	72.8	67.5	69.2	-	65.5	63.7	58.9	60.7	-
232	Men's and boys' furnishings	322.4	320.6	332.0	335.7	-	273.8	272.3	284.1	288.0	-
2321	Men's and boys' shirts and nightwear	91.3	90.9	93.2	94.5	-	78.1	77.7	80.1	81.5	-
2327	Men's and boys' separate trousers	64.4	64.0	65.8	66.2	-	55.9	55.3	56.9	57.4	-
2328	Men's and boys' work clothing	92.1	92.4	98.4	99.7	-	76.6	77.2	83.4	84.8	-
233	Women's and misses' outerwear	389.7	392.0	392.0	394.6	-	332.5	333.7	331.7	334.8	-
2331	Women's and misses' blouses and waists	63.2	63.9	63.2	63.0	-	54.4	54.9	53.4	53.5	-
2335	Women's and misses' dresses	129.9	129.3	128.9	128.9	-	112.9	111.6	110.6	110.8	-
2337	Women's and misses' suits and coats	59.9	60.2	62.3	62.8	-	51.0	51.1	52.8	52.9	-
2339	Women's and misses' outerwear, nec.	136.7	138.6	137.6	139.9	-	114.2	116.1	114.9	117.6	-
234	Women's and children's undergarments	83.4	83.4	85.5	87.0	-	70.7	70.4	72.4	73.7	-
2341	Women's and children's underwear	69.0	68.8	70.6	71.8	-	59.9	59.4	61.3	62.4	-
2342	Brassieres and allied garments	14.4	14.6	14.9	15.2	-	10.8	11.0	11.1	11.3	-
236	Children's outerwear	60.6	61.2	61.9	62.7	-	51.1	51.8	52.5	53.4	-
2361	Children's dresses and blouses	26.3	26.6	25.9	26.2	-	23.4	23.7	22.8	23.2	-
238	Misc. apparel and accessories	49.6	49.3	47.5	47.4	-	41.8	41.1	39.4	39.2	-
239	Misc. fabricated textile products	167.5	165.9	175.5	179.4	-	136.9	134.1	144.8	148.1	-
2391	Curtains and draperies	24.4	24.1	25.2	25.6	-	19.9	19.6	20.7	21.1	-
2392	House furnishings, nec.	48.5	49.5	52.6	53.8	-	40.5	41.2	44.4	45.4	-
2396	Automotive and apparel trimmings	31.6	29.6	31.8	33.4	-	25.9	23.1	20.3	27.6	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	661.8	654.2	663.4	665.0	667.5	495.7	487.4	495.1	498.5	501.2
261, 2, 6	Paper and pulp mills	197.2	194.8	194.8	195.2	-	149.1	146.5	146.4	146.8	-
262	Paper mills, except building paper	171.1	168.5	168.3	168.3	-	128.0	125.3	124.8	125.1	-
263	Paperboard mills	60.4	57.8	59.4	58.8	-	47.0	44.2	45.6	45.3	-
264	Misc. converted paper products	213.8	212.0	219.4	219.7	-	154.9	153.0	158.5	159.6	-
2641	Paper coating and glazing	56.8	56.3	58.7	58.6	-	36.0	35.5	37.9	38.0	-
2642	Envelopes	25.2	25.6	25.9	26.3	-	19.4	19.7	20.1	20.4	-
2643	Bags, except textile bags	48.5	48.9	48.6	49.4	-	37.8	38.1	37.8	38.5	-
265	Paperboard containers and boxes	190.4	189.6	189.8	191.3	-	144.7	143.7	144.6	146.8	-
2651	Folding paperboard boxes	41.1	40.9	40.4	40.8	-	32.1	31.8	31.3	32.0	-
2653	Corrugated and solid fiber boxes	99.0	99.2	99.1	99.4	-	73.3	73.3	73.6	74.3	-
2654	Sanitary food containers	22.3	21.9	22.9	22.9	-	17.8	17.4	18.6	18.6	-
27	<b>PRINTING AND PUBLISHING</b>	1,263.1	1,263.7	1,283.4	1,287.6	1,296.6	695.1	695.1	703.4	707.6	713.2
271	Newspapers	415.5	415.6	422.7	424.6	-	157.4	158.4	157.6	159.4	-
272	Periodicals	97.4	98.1	99.9	100.3	-	21.1	20.7	21.5	21.4	-
273	Books	97.1	95.8	94.6	92.3	-	47.8	46.9	48.0	45.9	-
2731	Book publishing	69.4	69.6	67.1	65.8	-	25.7	26.1	25.7	24.5	-
2732	Book printing	27.7	26.2	27.5	26.5	-	22.1	20.8	22.3	21.4	-
274	Miscellaneous publishing	49.1	49.8	52.2	51.7	-	25.2	26.0	28.2	27.7	-
275	Commercial printing	424.6	426.3	431.6	435.5	-	312.1	312.9	315.4	319.6	-
2751	Commercial printing, letterpress	151.6	152.0	153.2	153.7	-	112.9	112.9	113.5	114.6	-
2752	Commercial printing, lithographic	250.5	251.7	255.8	259.1	-	181.1	182.1	183.9	186.9	-
276	Manifold business forms	47.6	47.6	48.1	48.5	-	33.5	33.3	33.2	32.6	-
278	Blankbooks and bookbinding	60.7	60.0	62.9	62.7	-	49.4	48.7	51.1	50.8	-
279	Printing trade services	45.5	46.0	47.0	47.2	-	33.7	34.3	34.7	35.3	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,071.1	1,064.3	1,062.5	1,061.9	1,060.1	596.3	590.3	589.7	591.1	591.2
281	Industrial inorganic chemicals	158.1	156.6	152.7	151.5	-	83.7	82.6	77.1	76.6	-
2819	Industrial inorganic chemicals, nec.	105.2	104.2	103.8	103.1	-	56.5	55.7	52.8	52.6	-
282	Plastics materials and synthetics	182.6	181.5	181.3	180.4	-	118.0	117.2	117.8	117.2	-
2821	Plastics materials and resins	73.8	74.0	76.4	76.1	-	43.0	42.9	44.6	44.2	-
2824	Organic fibers, noncellulosic	77.2	76.2	73.9	73.4	-	53.8	53.2	52.0	51.3	-
283	Drugs	198.4	199.0	202.6	202.1	-	97.5	97.4	99.3	98.7	-
2834	Pharmaceutical preparations	155.7	156.5	159.7	159.7	-	75.3	75.3	76.8	76.2	-
284	Soap, cleaners, and toilet goods	149.3	146.3	153.2	154.9	-	94.8	92.1	96.3	98.4	-
2841	Soap and other detergents	44.5	44.5	45.1	45.7	-	29.1	29.1	28.8	30.0	-
2844	Toilet preparations	65.1	62.7	68.5	69.6	-	44.2	41.7	45.9	46.8	-
2842, 3	Polishing, sanitation, and finishing preparations	39.7	39.1	39.6	39.6	-	21.5	21.3	21.6	21.6	-
285	Paints and allied products	60.6	60.0	63.4	62.5	-	29.4	28.9	31.5	30.8	-
286	Industrial organic chemicals	168.9	168.4	161.0	161.0	-	84.9	84.6	82.1	82.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
2865	Cyclic crudes and intermediates . . . . .	33.6	33.3	31.5	31.5	-	20.7	20.5	18.8	18.8	-
2861,9	Gum, wood, and industrial organic chemicals, nec . . . . .	135.1	135.1	129.5	129.5	-	64.2	64.1	63.3	63.4	-
287	Agricultural chemicals . . . . .	62.6	62.4	58.3	58.6	-	37.2	37.3	34.5	35.1	-
289	Miscellaneous chemical products . . . . .	90.6	90.1	90.0	90.9	-	50.8	50.2	51.1	52.1	-
29	<b>PETROLEUM AND COAL PRODUCTS . . . . .</b>	205.0	203.0	198.9	197.4	197.0	124.2	122.5	120.9	119.5	121.4
291	Petroleum refining . . . . .	165.2	163.7	158.3	156.8	-	95.7	94.5	91.4	90.0	-
295	Paving and roofing materials . . . . .	28.2	27.7	29.2	29.2	-	21.5	21.0	22.4	22.4	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS . . . . .</b>	703.8	693.1	741.4	752.1	757.4	540.6	530.8	576.6	586.5	591.7
301	Tires and inner tubes . . . . .	104.1	103.7	102.0	102.2	-	74.5	74.6	73.9	73.6	-
302	Rubber and plastics footwear . . . . .	15.1	19.5	18.9	19.3	-	16.6	16.8	16.1	16.4	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting . . . . .	21.7	21.0	21.8	22.2	-	15.0	14.6	15.1	15.4	-
306	Fabricated rubber products, nec . . . . .	98.1	95.6	101.1	103.4	-	74.7	72.4	77.3	79.7	-
307	Miscellaneous plastics products . . . . .	460.8	453.3	497.6	505.0	-	359.8	352.4	394.2	401.4	-
31	<b>LEATHER AND LEATHER PRODUCTS . . . . .</b>	221.3	219.4	221.1	221.3	220.6	185.3	183.3	185.9	185.0	185.4
311	Leather tanning and finishing . . . . .	13.7	18.5	19.6	19.7	-	15.4	15.2	16.3	16.5	-
314	Footwear, except rubber . . . . .	137.8	136.4	135.2	134.7	-	117.7	115.9	116.0	115.4	-
3143	Men's footwear, except athletic . . . . .	54.8	54.3	53.2	53.5	-	45.1	44.2	43.3	43.7	-
3144	Women's footwear, except athletic . . . . .	53.8	53.0	52.7	51.8	-	47.4	46.6	47.3	46.0	-
316	Luggage . . . . .	13.4	13.3	13.9	13.8	-	9.6	9.7	10.1	10.1	-
317	Handbags and personal leather goods . . . . .	28.0	27.7	28.3	28.9	-	23.0	22.8	23.2	23.6	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES . . . . .</b>	5,102	5,077	4,354	5,077	5,079	4,216	4,189	3,468	4,186	4,193
40	<b>RAILROAD TRANSPORTATION . . . . .</b>	422.5	415.4	385.6	385.7	-	-	-	-	-	-
4011	Class I railroads <sup>2</sup> . . . . .	391.6	385.5	355.3	355.4	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT . . . . .</b>	278.7	278.2	217.7	271.5	-	260.4	260.2	199.0	257.4	-
411	Local and suburban transportation . . . . .	85.6	85.2	84.8	87.4	-	79.0	78.5	77.7	80.6	-
412	Taxis . . . . .	40.7	40.5	38.2	39.2	-	-	-	-	-	-
413	Intercity highway transportation . . . . .	39.5	37.5	36.1	35.7	-	36.6	34.5	33.2	32.8	-
415	School buses . . . . .	93.9	95.6	39.7	89.7	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING . . . . .</b>	1,225.6	1,224.8	1,235.6	1,248.9	-	1,065.8	1,064.5	1,076.8	1,089.5	-
421,3	Trucking and trucking terminals . . . . .	1,141.7	1,135.5	1,154.8	1,167.2	-	995.4	988.7	1,009.0	1,020.9	-
422	Public warehousing . . . . .	83.9	89.3	80.8	81.7	-	70.4	75.8	67.8	68.6	-
44	<b>WATER TRANSPORTATION . . . . .</b>	204.2	195.5	186.1	199.4	-	-	-	-	-	-
45	<b>TRANSPORTATION BY AIR . . . . .</b>	446.5	445.0	459.9	459.1	-	-	-	-	-	-
451,2	Air transportation . . . . .	395.5	394.7	405.8	405.1	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS . . . . .</b>	22.1	21.9	22.5	21.8	-	15.3	15.2	15.8	15.5	-
47	<b>TRANSPORTATION SERVICES . . . . .</b>	217.4	216.7	221.3	220.8	-	-	-	-	-	-
48	<b>COMMUNICATION . . . . .</b>	1,407.5	1,404.6	743.5	1,379.9	-	1,070.5	1,066.5	412.0	1,048.1	-
481	Telephone communication . . . . .	1,056.7	1,050.7	366.0	1,001.0	-	780.5	775.1	110.7	745.7	-
483	Radio and television broadcasting . . . . .	221.5	223.0	231.9	232.6	-	180.6	181.8	184.8	195.8	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES . . . . .</b>	877.3	874.6	881.9	889.9	-	707.9	704.0	706.2	709.5	-
491	Electric services . . . . .	424.5	425.0	439.1	435.5	-	336.8	336.5	348.4	347.6	-
492	Gas production and distribution . . . . .	178.2	176.6	177.6	174.5	-	143.5	142.0	142.1	139.0	-
493	Combination utility services . . . . .	198.0	197.4	188.7	203.8	-	161.7	160.8	149.1	160.6	-
495	Sanitary services . . . . .	52.0	51.2	51.7	52.1	-	45.7	44.8	46.3	46.6	-
-	<b>WHOLESALE AND RETAIL TRADE . . . . .</b>	20,501	20,421	20,673	20,747	20,752	17,910	17,847	18,072	18,138	18,124
50,51	<b>WHOLESALE TRADE . . . . .</b>	5,262	5,259	5,265	5,284	5,305	4,249	4,247	4,242	4,256	4,275
50	<b>WHOLESALE TRADE - DURABLE GOODS . . . . .</b>	3,065	3,051	3,085	3,093	-	2,456	2,442	2,469	2,475	-
501	Motor vehicles and automotive equipment . . . . .	402.7	401.9	409.5	409.9	-	324.0	323.4	328.7	327.3	-
502	Furniture and home furnishing . . . . .	112.5	113.4	115.7	116.1	-	92.6	93.3	94.5	94.5	-
503	Lumber and construction materials . . . . .	179.8	179.4	196.0	196.4	-	146.6	145.9	161.4	162.2	-
504	Sporting goods, toys, and hobby goods . . . . .	72.7	72.3	73.5	73.4	-	58.6	58.3	59.2	58.9	-
505	Metals and minerals, except petroleum . . . . .	135.7	134.5	131.7	131.1	-	107.0	105.9	104.9	104.9	-
506	Electrical goods . . . . .	428.3	426.8	430.7	435.1	-	342.4	340.1	342.6	347.0	-
507	Hardware, plumbing, and heating equipment . . . . .	234.4	234.7	239.2	238.6	-	188.8	189.3	193.7	193.3	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>										
	Continued										
508	Machinery, equipment, and supplies .....	1,324.5	1,315.2	1,310.7	1,313.4	-	1,052.1	1,043.0	1,035.4	1,036.5	-
509	Miscellaneous durable goods .....	174.1	172.8	177.6	179.3	-	143.7	142.4	148.2	149.5	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	2,197	2,208	2,180	2,191	-	1,793	1,805	1,773	1,781	-
511	Paper and paper products .....	158.4	158.6	162.5	162.7	-	127.6	127.6	132.6	132.4	-
512	Drugs, proprietaries, and sundries .....	154.2	154.8	153.1	153.4	-	130.1	130.4	128.1	128.7	-
513	Apparel, piece goods, and notions .....	169.6	171.4	169.9	170.3	-	132.4	134.3	128.8	128.6	-
514	Groceries and related products .....	572.2	671.1	662.9	668.1	-	577.0	575.5	568.8	572.3	-
516	Chemicals and allied products .....	133.3	132.9	135.1	134.2	-	94.2	93.9	93.7	93.5	-
517	Petroleum and petroleum products .....	222.4	220.5	219.6	217.5	-	167.3	165.9	166.8	165.3	-
518	Beer, wine, and distilled beverages .....	145.6	145.0	148.7	146.9	-	121.1	120.3	124.3	122.4	-
519	Miscellaneous nondurable goods .....	392.5	394.3	386.0	390.2	-	320.2	322.5	314.4	315.4	-
52-59	<b>RETAIL TRADE</b> .....	15,239	15,162	15,408	15,463	15,447	13,661	13,600	13,830	13,882	13,859
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES .....	587.0	587.5	616.0	612.8	-	493.4	494.9	520.9	517.6	-
521	Lumber and other building materials .....	309.9	300.4	326.3	323.8	-	253.7	253.0	278.1	275.7	-
525	Hardware stores .....	146.7	147.6	153.0	151.8	-	125.0	125.8	129.9	128.9	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2,163.6	2,194.3	2,176.6	2,193.2	-	2,009.2	2,040.4	2,035.5	2,053.1	-
531	Department stores .....	1,323.7	1,853.0	1,850.0	1,867.2	-	1,701.9	1,732.7	1,740.8	1,755.2	-
533	Variety stores .....	224.6	225.9	209.7	210.1	-	207.3	208.4	192.8	192.9	-
539	Misc. general merchandise stores .....	115.3	115.4	116.9	115.9	-	100.0	99.3	101.9	101.0	-
54	<b>FOOD STORES</b> .....	2,488.6	2,476.0	2,497.9	2,510.6	-	2,307.0	2,296.7	2,321.4	2,334.0	-
541	Grocery stores .....	2,183.6	2,171.2	2,188.2	2,201.5	-	2,031.0	2,021.5	2,041.6	2,055.7	-
542	Meat markets and freezer provisioners .....	57.7	57.1	60.0	60.0	-	-	-	-	-	-
546	Retail bakeries .....	129.5	130.9	134.5	135.1	-	118.9	120.0	123.1	123.5	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS .....	1,022.9	1,610.7	1,641.6	1,637.2	-	1,367.0	1,355.3	1,382.8	1,377.8	-
551,2	New and used car dealers .....	737.5	736.1	758.8	762.8	-	605.5	603.6	624.5	627.7	-
553	Auto and home supply stores .....	261.8	260.2	263.5	263.1	-	225.1	223.5	227.3	227.2	-
554	Gasoline service stations .....	547.6	539.6	538.2	533.3	-	476.3	468.4	465.3	460.5	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	929.6	933.2	946.9	945.1	-	787.1	791.0	802.0	798.7	-
561	Men's and boys' clothing and furnishings .....	116.2	116.9	114.4	114.3	-	97.9	99.0	90.1	96.0	-
562	Women's ready-to-wear stores .....	337.8	339.8	347.8	349.8	-	289.6	291.7	295.9	296.4	-
565	Family clothing stores .....	172.6	172.2	174.2	168.4	-	150.1	149.9	152.3	147.1	-
566	Shoe stores .....	200.3	198.3	201.6	202.2	-	161.8	159.9	164.7	164.5	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES .....	571.2	575.9	589.4	594.5	-	470.7	475.4	488.8	492.8	-
571	Furniture and home furnishings stores .....	345.1	345.0	355.1	353.8	-	283.0	285.0	295.5	293.3	-
572	Household appliance stores .....	74.6	75.6	75.2	76.0	-	63.6	64.6	64.4	65.1	-
573	Radio, television, and music stores .....	153.5	155.3	159.1	164.7	-	124.1	125.8	128.9	134.4	-
58	<b>EATING AND DRINKING PLACES</b> .....	4,971.7	4,862.4	5,037.4	5,039.7	-	4,570.3	4,471.3	4,632.2	4,636.4	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1,904.0	1,921.7	1,902.3	1,929.5	-	1,655.8	1,674.8	1,646.1	1,671.2	-
591	Drug stores and proprietary stores .....	488.6	488.4	489.5	490.2	-	437.0	436.8	434.9	435.0	-
592	Liquor stores .....	127.0	127.6	125.1	124.0	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	616.4	623.8	622.3	636.2	-	526.5	534.8	527.5	540.9	-
596	Nonstore retailers .....	253.1	257.2	250.8	260.6	-	234.5	230.7	230.9	241.4	-
598	Fuel and ice dealers .....	98.4	100.5	96.0	97.1	-	81.0	83.4	78.9	75.7	-
599	Retail stores, nec. ....	259.5	262.0	254.2	257.6	-	217.3	219.8	213.3	215.0	-
-	<b>FINANCE, INSURANCE, AND REAL</b>										
	ESTATE .....	5,355	5,334	5,548	5,501	5,484	4,001	3,980	4,147	4,101	4,082
60	<b>BANKING</b> .....	1,051.1	1,646.9	1,675.1	1,661.6	-	1,234.9	1,231.0	1,250.4	1,237.8	-
602	Commercial and stock savings banks .....	1,502.4	1,497.8	1,520.3	1,508.0	-	1,116.7	1,112.3	1,127.7	1,116.5	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	578.6	579.9	622.5	624.2	-	436.4	437.3	473.9	475.0	-
612	Savings and loan associations .....	209.4	271.3	297.7	298.8	-	205.4	206.6	228.8	229.5	-
614	Personal credit institutions .....	194.1	193.5	196.9	197.3	-	147.7	147.2	150.0	150.8	-
62	<b>SECURITY, COMMODITY BROKERS, AND</b>										
	SERVICES .....	271.7	274.0	317.6	319.0	-	-	-	-	-	-
621	Security brokers and dealers .....	221.7	224.0	256.5	258.0	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1,233.3	1,232.3	1,235.8	1,230.1	-	839.2	839.0	830.0	833.2	-
631	Life insurance .....	345.4	344.6	339.1	335.8	-	334.4	334.6	327.4	324.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>INSURANCE CARRIERS—Continued</b>										
632	Medical service and health insurance .....	141.5	142.2	146.7	146.3	-	112.6	113.2	117.0	116.8	-
633	Fire, marine, and casualty insurance .....	475.4	474.5	469.4	467.7	-	327.6	336.4	329.7	329.0	-
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	474.8	475.4	484.7	482.8	-	-	-	-	-	-
65	<b>REAL ESTATE</b> .....	990.0	970.1	1,054.4	1,027.0	-	-	-	-	-	-
651	Real estate operators and lessors .....	491.1	482.0	523.1	513.6	-	-	-	-	-	-
653	Real estate agents and managers .....	360.0	353.3	379.4	366.4	-	-	-	-	-	-
655	Subdividers and developers .....	119.7	116.3	129.6	124.6	-	-	-	-	-	-
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	17.8	17.8	16.9	16.2	-	-	-	-	-	-
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b> .....	138.0	137.8	141.2	139.6	-	-	-	-	-	-
-	<b>SERVICES</b> .....	19,179	19,195	19,954	19,961	20,084	17,010	17,034	17,679	17,666	17,793
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	1,143.2	1,093.5	1,237.1	1,155.4	-	-	-	-	-	-
701	Hotels, motels, and tourist courts .....	1,100.6	1,061.1	1,157.8	1,113.3	-	1,006.1	971.2	1,056.0	1,013.4	-
72	<b>PERSONAL SERVICES</b> .....	926.1	929.7	912.3	921.3	-	-	-	-	-	-
721	Laundry, cleaning, and garment services .....	346.4	347.4	347.2	347.3	-	308.6	309.5	308.2	307.9	-
723	Beauty shops .....	286.7	286.9	296.8	300.5	-	264.7	265.2	274.5	276.2	-
726	Funeral service and crematories .....	72.1	71.1	72.6	72.2	-	-	-	-	-	-
73	<b>BUSINESS SERVICES</b> .....	3,336.8	3,351.9	3,683.9	3,723.8	-	2,908.9	2,925.2	3,205.7	3,241.0	-
731	Advertising .....	162.1	162.3	168.2	167.5	-	124.0	123.9	125.6	125.2	-
732	Credit reporting and collection .....	74.7	74.6	80.0	80.0	-	-	-	-	-	-
733	Mailing, reproduction, stenographic .....	134.3	135.8	142.5	145.3	-	-	-	-	-	-
734	Services to buildings .....	524.6	523.0	556.5	556.2	-	476.9	476.1	506.3	506.8	-
736	Personnel supply services .....	586.3	583.0	761.0	792.2	-	-	-	-	-	-
737	Computer and data processing services .....	362.3	366.7	402.8	403.4	-	296.6	301.2	334.1	334.6	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	584.1	578.9	594.2	596.7	-	492.6	489.4	501.8	504.5	-
753	Automotive repair shops .....	366.1	363.3	369.1	369.9	-	305.3	303.8	308.1	309.6	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	279.5	278.4	273.6	277.3	-	235.3	234.7	227.8	231.8	-
78	<b>MOTION PICTURES</b> .....	212.3	205.3	222.9	216.1	-	181.8	174.9	193.2	187.4	-
781	Motion picture production and services .....	80.7	82.7	87.6	90.8	-	65.0	66.6	73.0	76.9	-
783	Motion picture theaters .....	121.1	112.0	125.0	114.9	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	861.9	773.6	984.3	905.1	-	781.6	702.6	903.2	827.2	-
80	<b>HEALTH SERVICES</b> .....	5,847.0	5,859.6	5,996.2	5,983.6	-	5,236.2	5,243.4	5,376.7	5,366.6	-
801	Offices of physicians .....	831.3	834.9	868.3	866.0	-	680.8	683.3	728.2	727.4	-
802	Offices of dentists .....	386.7	389.7	413.0	411.8	-	342.8	344.7	365.7	364.0	-
805	Nursing and personal care facilities .....	1,074.8	1,075.6	1,109.9	1,108.5	-	973.1	973.3	1,003.8	1,001.3	-
806	Hospitals .....	3,032.0	3,032.5	3,038.2	3,028.2	-	2,784.2	2,782.8	2,789.3	2,777.2	-
81	<b>LEGAL SERVICES</b> .....	570.0	573.6	614.2	608.9	-	481.6	482.8	518.9	512.6	-
82	<b>EDUCATIONAL SERVICES</b> .....	1,150.1	1,280.2	1,003.0	1,170.8	-	-	-	-	-	-
821	Elementary and secondary schools .....	315.8	328.0	269.3	311.6	-	-	-	-	-	-
822	Colleges and universities .....	717.4	825.5	610.6	735.3	-	-	-	-	-	-
83	<b>SOCIAL SERVICES</b> .....	1,178.4	1,181.0	1,271.3	1,273.0	-	-	-	-	-	-
86	<b>MEMBERSHIP ORGANIZATIONS</b> .....	1,517.6	1,528.5	1,525.4	1,512.6	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES</b> .....	1,045.5	1,044.6	1,079.7	1,068.5	-	850.2	850.6	887.1	875.2	-
891	Engineering and architectural services .....	571.1	567.1	587.3	582.8	-	467.9	464.4	491.7	488.4	-
893	Accounting, auditing, and bookkeeping .....	349.4	352.3	361.3	359.7	-	277.7	281.4	287.9	283.4	-
-	<b>GOVERNMENT</b> .....	15,401	15,863	14,854	15,369	15,763	-	-	-	-	-
-	<b>FEDERAL GOVERNMENT</b> .....	2,701	2,721	2,766	2,708	2,713	-	-	-	-	-
-	Executive, by agency <sup>4</sup> .....	2,646.0	2,667.1	-	-	-	-	-	-	-	-
-	Department of Defense .....	910.3	934.0	-	-	-	-	-	-	-	-
-	Postal Service .....	656.6	660.6	-	-	-	-	-	-	-	-
-	Other executive agencies .....	1,079.1	1,072.5	-	-	-	-	-	-	-	-
-	Legislative .....	38.7	38.4	-	-	-	-	-	-	-	-
-	Judicial .....	15.8	15.8	-	-	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>FEDERAL GOVERNMENT—Continued</b>										
	<b>Federal Government, by industry</b>										
—	Manufacturing activities . . . . .	126.9	133.8	138.0	136.1	—	—	—	—	—	—
3731	Shipbuilding and repairing . . . . .	76.4	81.8	83.1	81.9	—	—	—	—	—	—
—	Transportation and public utilities, except Postal Service . . . . .	40.7	40.9	39.3	38.8	—	—	—	—	—	—
—	Services . . . . .	393.5	388.6	401.0	397.2	—	—	—	—	—	—
806	Federal government hospitals . . . . .	233.7	233.2	238.2	236.9	—	—	—	—	—	—
—	<b>STATE AND LOCAL GOVERNMENT . . . . .</b>	12,700	13,142	12,088	12,661	13,050	—	—	—	—	—
—	<b>State government . . . . .</b>	3,545.5	3,704.8	3,440.4	3,564.5	—	—	—	—	—	—
806	State government hospitals . . . . .	493.0	493.8	476.6	474.8	—	—	—	—	—	—
82	State education . . . . .	1,362.3	1,541.7	1,227.0	1,400.9	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions . . . . .	1,074.7	1,063.9	1,108.4	1,079.3	—	—	—	—	—	—
—	<b>Local government . . . . .</b>	9,154.4	9,437.1	8,647.8	9,096.3	—	—	—	—	—	—
—	Transportation and public utilities . . . . .	534.2	532.3	542.1	538.7	—	—	—	—	—	—
806	Local government hospitals . . . . .	635.6	636.6	641.7	636.0	—	—	—	—	—	—
82	Local education . . . . .	4,843.8	5,214.5	4,082.8	4,781.7	—	—	—	—	—	—
—	General administration including executive, legislative, and judicial functions . . . . .	2,830.6	2,779.2	3,034.5	2,833.9	—	—	—	—	—	—

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

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

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

<sup>4</sup> Prepared by the Office of Personnel Management. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

— Data not available.

p = preliminary.

NOTE: Data from April 1982 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" under the Establishment Data section of the Explanatory Notes.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
-	<b>TOTAL</b> .....	38,138	38,185	39,652	38,980	38,625
-	<b>PRIVATE SECTOR</b> .....	31,342	31,447	32,099	32,039	31,936
-	<b>MINING</b> .....	138	137	124	125	126
10	<b>METAL MINING</b> .....	5.9	5.8	5.8	5.7	5.7
11, 12	<b>COAL MINING</b> .....	11.9	11.7	10.9	11.1	11.1
13	<b>OIL AND GAS EXTRACTION</b> .....	110.4	109.4	98.9	99.7	99.9
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	67.8	68.1	66.1	66.6	66.2
138	Oil and gas field services.....	42.6	41.3	32.8	33.1	33.7
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	9.7	9.7	8.8	8.8	9.1
142	Crushed and broken stone.....	2.8	2.8	2.9	2.9	3.0
144	Sand and gravel.....	3.3	3.3	3.0	3.0	2.0
-	<b>CONSTRUCTION</b> .....	385	385	390	398	400
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	122.2	121.5	129.5	132.2	133.1
152	Residential building construction.....	67.2	66.8	73.3	75.7	76.3
153	Operative builders.....	13.2	13.2	14.6	14.8	14.9
154	Nonresidential building construction.....	41.8	41.5	41.6	41.7	41.9
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	65.5	67.1	62.4	63.6	64.2
161	Highway and street construction.....	16.0	16.4	16.0	16.8	17.3
162	Heavy construction, except highway.....	49.5	50.7	46.4	46.8	46.9
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	197.2	196.5	198.3	201.8	202.6
171	Plumbing, heating, air conditioning.....	52.6	52.3	52.6	53.4	53.7
172	Painting, paper hanging, decorating.....	11.7	11.6	11.2	11.6	11.9
173	Electrical work.....	38.6	38.7	39.1	39.2	39.2
174	Masonry, stonework, and plastering.....	21.6	21.6	21.8	22.5	22.4
175	Carpentering and flooring.....	12.9	12.7	14.1	14.6	14.7
176	Roofing and sheet metal work.....	12.8	12.9	15.5	13.4	13.1
-	<b>MANUFACTURING</b> .....	5,911	6,016	6,031	5,978	6,109
24, 25, 32-39	<b>DURABLE GOODS</b> .....	2,814	2,803	2,828	2,818	2,842
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,097	3,213	3,203	3,160	3,266
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	90.7	91.4	101.3	101.4	103.1
241	Logging camps and logging contractors.....	5.9	6.1	6.2	6.4	6.5
242	Sawmills and planing mills.....	16.6	16.5	18.8	18.9	19.2
2421	Sawmills and planing mills, general.....	11.5	11.5	13.1	13.2	13.4
243	Millwork, plywood, and structural members.....	36.4	36.6	41.9	42.3	43.2
244	Wood containers.....	6.3	6.3	6.0	6.1	6.0
245	Wood buildings and mobile homes.....	7.5	7.5	8.8	9.0	8.9
249	Miscellaneous wood products.....	18.0	18.4	19.6	18.7	19.3
25	<b>FURNITURE AND FIXTURES</b> .....	124.3	128.2	134.1	133.1	135.4
251	Household furniture.....	83.5	86.4	91.4	90.1	90.9
2511	Wood household furniture.....	36.0	37.8	38.6	38.4	38.8
2512	Upholstered household furniture.....	28.2	29.0	31.2	31.1	31.5
2515	Mattresses and bedsprings.....	7.5	7.6	8.4	8.3	8.5
252	Office furniture.....	13.5	13.8	13.7	13.6	14.5
253	Public building and related furniture.....	4.9	4.9	4.8	4.3	4.9
254	Partitions and fixtures.....	10.1	10.4	10.5	10.6	10.9
259	Miscellaneous furniture and fixtures.....	12.3	12.7	13.7	13.9	14.3
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	115.2	114.6	111.5	111.5	112.4
322	Glass and glassware, pressed or blown.....	36.3	36.1	33.8	33.6	34.1
3221	Glass containers.....	21.0	21.1	18.8	18.6	19.0
3229	Pressed and blown glass, nec.....	15.3	15.0	15.0	15.0	15.1
323	Products of purchased glass.....	12.3	12.0	12.6	12.4	12.0
324	Cement, hydraulic.....	1.7	1.6	1.5	1.5	1.5
325	Structural clay products.....	5.5	5.4	5.8	5.8	5.9
326	Pottery and related products.....	13.3	13.6	13.5	13.6	13.5
327	Concrete, gypsum, and plaster products.....	15.3	15.3	15.2	15.8	15.6
329	Misc. nonmetallic mineral products.....	27.7	27.4	26.2	25.8	26.1
33	<b>PRIMARY METAL INDUSTRIES</b> .....	104.1	102.2	97.6	97.7	97.8
331	Blast furnace and basic steel products.....	30.0	29.4	26.1	26.3	26.2
3312	Blast furnaces and steel mills.....	21.5	21.1	18.8	19.0	18.9
332	Iron and steel foundries.....	15.4	14.6	13.1	13.3	13.4

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
<b>PRIMARY METAL INDUSTRIES—Continued</b>						
3321	Gray iron foundries .....	6.9	6.8	6.2	6.2	6.3
3322	Malleable iron foundries .....	.9	.9	.8	.9	.9
3325	Steel foundries, nec .....	3.9	3.9	3.3	3.4	3.4
333	Primary nonferrous metals .....	3.8	3.8	3.4	3.4	3.4
3334	Primary aluminum .....	1.7	1.7	1.4	1.4	1.4
335	Nonferrous rolling and drawing .....	34.9	34.2	34.8	34.5	34.1
3351	Copper rolling and drawing .....	3.2	3.2	3.2	3.2	3.3
3353	Aluminum sheet, plate, and foil .....	3.3	3.2	3.1	3.3	3.3
3357	Nonferrous wire drawing and insulating .....	21.2	20.5	20.7	20.1	19.6
336	Nonferrous foundries .....	14.6	14.8	15.1	15.1	15.5
3361	Aluminum foundries .....	7.9	8.0	7.8	7.7	8.0
34	<b>FABRICATED METAL PRODUCTS</b> .....	296.4	298.2	305.0	300.3	306.6
341	Metal cans and shipping containers .....	11.1	11.2	10.6	10.6	10.7
3411	Metal cans .....	9.4	9.4	8.8	8.8	9.0
342	Cutlery, hand tools, and hardware .....	46.6	46.2	48.2	46.8	48.0
3423, 5	Hand and edge tools, and hand saws and blades .....	13.1	13.1	13.3	13.1	13.2
3429	Hardware, nec .....	27.6	27.2	29.2	28.4	29.3
343	Plumbing and heating, except electric .....	14.7	14.6	15.9	15.6	16.0
344	Fabricated structural metal products .....	66.2	66.0	65.9	66.8	67.8
3441	Fabricated structural metal .....	7.0	6.9	6.3	6.3	6.3
3442	Metal doors, sash, and trim .....	19.7	19.9	22.3	22.9	23.4
3443	Fabricated plate work (boiler shops) .....	16.9	16.7	14.2	14.2	14.2
3444	Sheet metal work .....	14.2	14.1	14.6	15.0	15.2
345	Screw machine products, bolts, etc. ....	20.3	19.9	19.9	19.5	19.7
3451	Screw machine products .....	10.1	9.9	10.2	9.9	9.9
3452	Bolts, nuts, rivets, and washers .....	10.2	10.0	9.7	9.6	9.8
346	Metal forgings and stampings .....	44.3	46.4	47.0	46.0	47.4
3462	Iron and steel forgings .....	3.7	3.8	3.1	3.1	3.0
3465	Automotive stampings .....	12.1	11.7	12.5	12.2	12.8
3469	Metal stampings, nec .....	26.3	28.7	29.3	28.5	29.4
347	Metal services, nec .....	21.1	21.9	23.8	22.6	23.2
3471	Plating and polishing .....	15.5	16.4	17.9	16.6	17.2
3479	Metal coating and allied services .....	5.6	5.5	5.9	6.0	6.0
348	Ordnance and accessories, nec .....	18.5	18.5	19.0	19.1	18.8
349	Misc. fabricated metal products .....	53.6	53.5	54.7	53.3	55.0
3494	Valves and pipe fittings .....	19.9	19.8	19.6	18.8	19.0
3496	Misc. fabricated wire products .....	12.9	13.2	13.7	13.4	14.3
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	474.9	466.8	453.6	455.4	458.0
351	Engines and turbines .....	19.8	20.5	19.3	18.9	17.3
3511	Turbines and turbine generator sets .....	6.2	6.1	5.2	5.3	5.1
3519	Internal combustion engines, nec .....	13.6	14.4	14.1	13.6	12.2
352	Farm and garden machinery .....	20.8	20.9	20.9	20.8	20.4
3523	Farm machinery and equipment .....	17.2	16.7	15.5	15.6	15.1
353	Construction and related machinery .....	47.0	45.3	35.8	35.8	35.8
3531	Construction machinery .....	12.1	11.7	9.2	9.4	9.5
3533	Oil field machinery .....	17.7	16.9	12.2	11.9	11.9
354	Metalworking machinery .....	47.9	47.0	45.8	46.2	46.7
3541	Machine tools, metal cutting types .....	8.3	8.2	6.9	6.8	6.9
3544	Special dies, tools, jigs, and fixtures .....	14.2	14.2	14.4	14.5	14.7
3545	Machine tool accessories .....	11.4	11.2	10.4	10.1	10.3
355	Special industry machinery .....	26.3	26.2	25.0	25.0	25.1
3551	Food products machinery .....	5.0	5.0	4.7	4.7	4.7
3552	Textile machinery .....	4.1	4.1	3.8	3.8	3.8
3555	Printing trades machinery .....	6.7	6.7	6.7	6.7	6.7
356	General industrial machinery .....	57.0	55.0	50.4	50.4	51.1
3561	Pumps and pumping equipment .....	10.5	10.2	9.2	9.2	9.4
3562	Ball and roller bearings .....	12.8	12.0	10.8	10.8	11.0
357	Office and computing machines .....	178.3	176.9	181.2	182.6	184.3
3573	Electronic computing equipment .....	152.7	152.2	156.7	158.5	160.5
358	Refrigeration and service machinery .....	33.6	31.9	33.8	34.0	35.0
3585	Refrigeration and heating equipment .....	22.7	21.0	22.7	23.1	24.0
359	Misc. machinery, except electrical .....	44.2	43.1	41.4	41.7	42.3
3599	Machinery, except electrical, nec .....	35.6	34.6	33.1	33.1	32.4
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	843.8	843.0	857.6	856.2	858.3
361	Electric distributing equipment .....	41.4	41.5	42.9	42.5	42.8
3612	Transformers .....	17.7	17.9	17.5	17.2	17.4
3613	Switchgear and switchboard apparatus .....	23.7	23.6	25.4	25.3	25.4
362	Electrical industrial apparatus .....	75.8	74.0	70.5	70.5	70.7
3621	Motors and generators .....	38.7	37.7	38.7	38.8	38.8
3622	Industrial controls .....	26.4	25.8	22.0	21.6	22.0
363	Household appliances .....	49.1	48.5	52.7	51.3	51.7
3632	Household refrigerators and freezers .....	6.7	6.4	6.1	6.1	5.2
3633	Household laundry equipment .....	4.0	3.3	4.6	4.8	5.2
3634	Electric housewares and fans .....	22.8	24.5	24.6	23.2	25.0
364	Electric lighting and wiring equipment .....	80.4	82.2	82.4	80.8	82.1
3641	Electric lamps .....	17.8	18.6	15.8	15.5	15.4

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	35.2	36.6	37.2	36.4	36.8
365	Radio and TV receiving equipment .....	46.5	46.7	46.6	44.3	46.2
3651	Radio and TV receiving sets .....	35.6	35.8	34.5	32.7	34.6
366	Communication equipment .....	216.1	214.6	214.0	216.3	207.2
3661	Telephone and telegraph apparatus .....	71.3	70.1	65.0	67.5	57.3
3662	Radio and TV communication equipment .....	144.8	144.5	149.0	148.8	148.9
367	Electronic components and accessories .....	281.7	261.6	293.5	296.3	300.6
3671-3	Electronic tubes .....	15.7	15.6	16.7	16.6	16.7
3674	Semiconductors and related devices .....	106.1	105.4	109.6	111.3	112.7
3679	Electronic components, nec .....	115.8	116.6	122.0	122.6	127.3
369	Misc. electrical equipment and supplies .....	52.0	53.9	55.0	54.2	56.0
3694	Engine electrical equipment .....	22.2	22.9	23.7	23.0	23.7
<b>TRANSPORTATION EQUIPMENT</b>						
37	Motor vehicles and equipment .....	289.1	281.0	298.7	300.0	299.0
371	Motor vehicles and equipment .....	103.1	98.7	110.6	111.8	112.4
3711	Motor vehicles and car bodies .....	36.8	34.5	43.3	44.4	43.7
3713	Truck and bus bodies .....	3.4	3.0	3.1	3.2	3.3
3714	Motor vehicle parts and accessories .....	59.5	58.3	59.9	59.8	60.8
372	Aircraft and parts .....	115.5	112.3	112.2	112.3	111.0
3721	Aircraft .....	63.7	62.2	62.2	62.2	62.1
3724	Aircraft engines and engine parts .....	25.0	24.2	24.4	24.2	23.4
3728	Aircraft equipment, nec .....	26.8	25.9	25.7	25.9	25.5
373	Ship and boat building and repairing .....	24.1	23.5	24.3	24.4	23.7
3731	Ship building and repairing .....	18.0	17.3	17.0	17.0	16.2
374	Railroad equipment .....	3.9	3.9	3.2	3.3	3.3
376	Guided missiles, space vehicles, parts .....	30.7	30.9	33.7	34.2	34.4
3761	Guided missiles and space vehicles .....	25.2	25.4	27.6	28.0	28.1
379	Miscellaneous transportation equipment .....	7.2	7.3	9.5	9.1	5.2
<b>INSTRUMENTS AND RELATED PRODUCTS</b>						
38	Engineering and scientific instruments .....	302.6	301.1	292.5	290.0	293.8
381	Engineering and scientific instruments .....	25.9	25.7	24.4	24.6	24.5
382	Measuring and controlling devices .....	103.7	102.3	99.6	99.3	100.4
3822	Environmental controls .....	20.7	20.5	21.7	21.5	22.1
3823	Process control instruments .....	19.8	19.2	17.6	17.4	17.5
3825	Instruments to measure electricity .....	46.9	46.5	44.6	44.9	44.9
383	Optical instruments and lenses .....	12.0	11.8	10.9	11.2	11.2
384	Medical instruments and supplies .....	85.3	85.9	87.7	87.2	88.3
3841	Surgical and medical instruments .....	42.4	42.2	43.7	44.1	44.6
3842	Surgical appliances and supplies .....	35.4	36.3	37.4	36.6	37.1
385	Ophthalmic goods .....	23.1	23.0	22.6	22.0	22.4
386	Photographic equipment and supplies .....	42.3	41.5	36.6	36.2	36.4
387	Watches, clocks, and watchcases .....	10.3	10.9	10.5	9.5	10.6
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>						
39	Jewelry, silverware, and plated ware .....	172.6	176.9	176.4	172.1	177.5
391	Jewelry, silverware, and plated ware .....	23.3	24.9	25.5	23.4	26.1
393	Musical instruments .....	8.5	8.5	8.6	8.9	9.3
394	Toys and sporting goods .....	58.9	59.5	58.0	58.7	53.4
3942, 4	Dolls, games, toys, and children's vehicles .....	33.2	34.7	33.5	34.2	34.2
3949	Sporting and athletic goods, nec .....	25.7	24.8	24.5	24.5	24.2
395	Pens, pencils, office and art supplies .....	16.5	16.3	16.5	16.1	15.9
396	Costume jewelry and notions .....	20.4	21.9	21.9	19.6	21.2
399	Miscellaneous manufactures .....	45.0	45.8	45.9	45.4	46.6
<b>NONDURABLE GOODS</b>						
<b>FOOD AND KINDRED PRODUCTS</b>						
20	Meat products .....	507.8	548.2	498.4	517.7	549.0
201	Meat products .....	115.3	116.3	114.3	117.0	117.0
2011	Meat packing plants .....	26.3	26.6	25.0	26.9	26.8
2013	Sausages and other prepared meats .....	21.8	21.8	21.5	21.9	21.7
2018	Poultry dressing plants .....	59.5	60.0	59.8	60.3	60.4
202	Dairy products .....	37.2	37.3	36.7	36.7	37.3
2026	Fluid milk .....	16.2	16.2	15.5	15.6	15.4
203	Preserved fruits and vegetables .....	115.0	148.6	95.9	110.3	139.8
2032	Canned specialties .....	8.0	9.3	8.0	8.3	9.0
2033	Canned fruits and vegetables .....	46.1	76.3	26.0	39.2	67.2
2037	Frozen fruits and vegetables .....	22.6	24.8	24.2	23.5	23.7
204	Grain mill products .....	27.5	28.2	29.2	29.1	25.2
206	Bakery products .....	59.4	58.9	60.3	60.3	59.3
2051	Bread, cake, and related products .....	39.4	39.0	39.4	39.4	36.7
2052	Cookies and crackers .....	20.0	19.9	20.9	20.9	20.6
206	Sugar and confectionery products .....	35.9	39.9	43.0	42.3	43.4
207	Fats and oils .....	5.2	5.3	5.0	5.0	5.0
208	Beverages .....	43.3	42.8	43.0	43.9	43.4
2082	Malt beverages .....	8.7	8.6	8.6	9.4	9.2
2086	Bottled and canned soft drinks .....	19.2	19.0	19.1	19.2	19.1
209	Misc. foods and kindred products .....	69.0	70.9	71.0	73.1	74.5
<b>TOBACCO MANUFACTURES</b>						
21	Cigarettes .....	21.5	25.6	20.6	20.0	23.1
211	Cigarettes .....	15.1	14.2	13.6	13.4	13.7



# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
	<b>TEXTILE MILL PRODUCTS</b>	347.3	353.0	356.4	348.3	358.9
22	Weaving mills, cotton	53.3	53.6	53.4	52.5	53.2
222	Weaving mills, synthetics	37.0	38.0	37.8	36.9	37.9
223	Weaving and finishing mills, wool	6.2	6.2	6.8	6.5	6.9
224	Narrow fabric mills	11.9	13.1	12.8	11.9	12.8
225	Knitting mills	130.4	132.7	133.6	131.8	134.4
2251	Women's hosiery, except socks	24.4	24.5	26.4	26.1	27.0
2252	Hosiery, nec	22.5	22.5	23.2	23.1	23.7
2253	Knit outerwear mills	46.0	47.5	44.0	42.4	42.9
2254	Knit underwear mills	20.7	21.4	22.7	22.7	23.2
2257	Circular knit fabric mills	9.8	9.6	10.0	10.1	10.1
226	Textile finishing, except wool	19.7	19.8	19.8	19.2	19.8
2261	Finishing plants, cotton	9.3	9.2	9.0	8.6	9.0
2262	Finishing plants, synthetic	5.0	5.1	5.0	4.9	5.0
227	Floor covering mills	19.6	19.6	20.7	20.3	21.5
228	Yarn and thread mills	52.1	53.4	55.0	53.2	55.9
2281	Yarn mills, except wool	33.6	34.7	36.1	34.8	36.4
2282	Throwing and winding mills	9.2	9.5	9.9	9.8	10.4
229	Miscellaneous textile goods	16.5	16.6	16.5	16.0	16.5
	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	879.3	931.2	953.5	915.3	953.3
231	Men's and boys' suits and coats	54.6	57.0	54.0	52.4	52.5
232	Men's and boys' furnishings	263.0	270.6	280.0	268.1	281.1
2321	Men's and boys' shirts and nightwear	79.2	79.9	81.1	79.6	81.3
2327	Men's and boys' separate trousers	53.1	54.3	55.8	51.1	55.4
2328	Men's and boys' work clothing	72.8	75.3	81.6	77.7	82.3
233	Women's and misses' outerwear	289.5	326.3	330.5	315.5	328.9
2331	Women's and misses' blouses and waists	46.4	56.6	56.7	54.5	55.6
2335	Women's and misses' dresses	98.1	109.7	108.6	102.7	108.7
2337	Women's and misses' suits and coats	44.7	48.1	50.0	46.6	49.8
2339	Women's and misses' outerwear, nec	100.3	111.9	115.2	111.7	114.8
234	Women's and children's undergarments	69.3	70.5	71.6	69.5	73.5
2341	Women's and children's underwear	57.4	59.1	59.8	58.1	61.7
2342	Brassieres and allied garments	11.9	11.4	11.8	11.4	11.8
236	Children's outerwear	54.0	52.5	54.0	53.6	53.6
2361	Children's dresses and blouses	23.2	23.6	23.5	22.8	23.2
238	Misc. apparel and accessories	35.2	38.3	36.5	34.1	36.5
239	Misc. fabricated textile products	99.9	102.4	112.2	108.2	112.9
2391	Curtains and draperies	17.0	17.6	18.7	18.2	19.3
2392	House furnishings, nec	29.1	31.1	33.1	32.5	34.3
2396	Automotive and apparel trimmings	15.0	15.2	18.3	17.2	17.7
	<b>PAPER AND ALLIED PRODUCTS</b>	151.8	152.4	153.6	152.8	155.0
26	Paper and pulp mills	27.7	27.5	27.1	27.4	27.3
261, 2.6	Paper mills, except building paper	25.1	24.8	24.4	24.7	24.5
262	Paperboard mills	5.4	5.4	5.5	5.5	5.5
263	Misc. converted paper products	74.8	74.8	76.9	76.0	77.2
264	Paperboard containers and boxes	43.9	44.7	44.1	43.9	45.0
	<b>PRINTING AND PUBLISHING</b>	510.5	511.1	522.2	521.4	523.5
27	Newspapers	163.1	161.5	166.6	166.8	167.2
271	Periodicals	57.8	57.9	58.5	59.5	59.3
272	Books	53.3	52.9	51.5	50.9	50.3
273	Miscellaneous publishing	27.7	27.9	29.6	29.7	29.7
274	Commercial printing	132.9	134.6	139.1	137.7	139.7
275	Commercial printing, letterpress	50.5	50.9	51.7	51.6	52.8
2751	Commercial printing, lithographic	76.5	77.7	81.1	80.0	80.7
2752	Manifold business forms	15.3	15.4	15.7	15.7	15.8
276	Blankbooks and bookbinding	32.7	33.0	33.0	33.0	33.3
277	Printing trade services	13.1	13.0	14.1	14.3	14.3
	<b>CHEMICALS AND ALLIED PRODUCTS</b>	282.2	282.1	279.8	280.3	280.7
28	Industrial inorganic chemicals	25.5	25.3	25.4	25.6	25.7
281	Industrial inorganic chemicals, nec	17.1	16.9	17.2	17.4	17.5
2819	Plastics materials and synthetics	41.0	40.3	37.7	37.8	38.0
282	Plastics materials and resins	11.2	11.1	11.2	11.3	11.3
2821	Organic fibers, noncellulosic	21.5	21.0	18.9	18.7	18.9
2824	Drugs	86.0	86.1	87.3	87.5	87.0
283	Pharmaceutical preparations	71.3	71.6	72.4	72.5	72.3
2834	Soap, cleaners, and toilet goods	60.3	61.5	62.9	63.7	63.5
284	Soap and other detergents	9.8	10.3	10.4	10.5	10.4
2841	Toilet preparations	38.3	38.6	39.6	40.3	40.1
2844	Paints and allied products	11.8	11.8	11.8	11.9	12.1
285	Industrial organic chemicals	27.2	27.0	25.4	25.5	25.5
286	Gum, wood, and industrial organic chemicals, nec	23.0	22.8	21.2	21.2	21.2
2861, 8	Agricultural chemicals	10.0	9.7	9.2	8.7	8.7
287	Miscellaneous chemical products	20.4	20.4	20.1	19.6	20.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
29	<b>PETROLEUM AND COAL PRODUCTS</b>	31.5	31.4	30.6	30.7	30.6
291	Petroleum refining	26.4	26.3	25.8	25.7	25.6
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	239.9	244.1	256.7	252.8	260.7
301	Tires and inner tubes	9.2	9.3	8.5	8.6	8.6
302	Rubber and plastics footwear	11.7	11.5	11.3	10.8	11.0
303,4	Reclaimed rubber, and rubber and plastics hose and belting	5.4	5.4	5.5	5.4	5.6
306	Fabricated rubber products, nec	33.6	34.4	35.0	34.4	35.4
307	Miscellaneous plastics products	180.0	183.5	196.4	193.6	200.1
31	<b>LEATHER AND LEATHER PRODUCTS</b>	125.4	134.0	130.7	120.9	131.4
311	Leather tanning and finishing	2.7	2.8	2.8	2.4	2.7
314	Footwear, except rubber	85.2	92.0	89.3	81.1	88.7
3143	Men's footwear, except athletic	31.4	34.2	32.6	30.1	32.7
3144	Women's footwear, except athletic	35.3	37.8	36.9	33.8	36.5
316	Luggage	7.6	7.4	7.7	7.2	7.7
317	Handbags and personal leather goods	17.7	18.8	18.0	18.0	19.2
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	1,325	1,322	1,341	1,314	1,012
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	46.7	44.6	73.8	46.7	45.0
411	Local and suburban transportation	15.8	16.5	17.5	16.5	16.8
412	Taxicabs	6.0	5.8	5.5	5.4	5.4
413	Intercity highway transportation	5.1	5.0	4.2	4.4	4.5
415	School buses	16.5	14.0	42.3	16.4	14.4
42	<b>TRUCKING AND WAREHOUSING</b>	154.8	155.0	155.5	156.6	157.5
421,3	Trucking and trucking terminals	138.6	138.0	138.5	139.6	139.4
422	Public warehousing	16.2	17.0	17.0	17.0	18.1
44	<b>WATER TRANSPORTATION</b>	27.3	26.7	26.3	26.5	26.5
45	<b>TRANSPORTATION BY AIR</b>	147.7	148.1	152.8	152.0	154.4
451,2	Air transportation	138.1	138.4	142.6	141.9	144.0
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	3.2	3.1	2.8	2.8	2.8
47	<b>TRANSPORTATION SERVICES</b>	111.6	112.4	120.6	121.7	120.5
48	<b>COMMUNICATION</b>	635.0	634.3	610.9	611.3	607.9
481	Telephone communication	524.7	523.7	486.6	485.7	480.9
483	Radio and television broadcasting	73.9	73.8	79.1	78.6	78.5
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	175.0	175.3	177.3	176.1	176.9
491	Electric services	83.9	84.1	87.2	86.5	86.4
492	Gas production and distribution	40.5	40.6	39.3	39.3	39.2
493	Combination utility services	38.5	38.7	38.2	35.3	36.3
495	Sanitary services	6.5	6.3	6.7	7.1	7.1
-	<b>WHOLESALE AND RETAIL TRADE</b>	9,026	9,048	9,184	9,162	9,219
50,51	<b>WHOLESALE TRADE</b>	1,390	1,387	1,397	1,394	1,400
50	<b>WHOLESALE TRADE-DURABLE GOODS</b>	761	760	763	764	768
501	Motor vehicles and automotive equipment	88.0	87.8	87.8	88.4	89.3
502	Furniture and home furnishings	43.8	44.4	47.0	45.0	45.0
503	Lumber and construction materials	36.2	36.5	37.9	38.2	37.7
504	Sporting goods, toys, and hobby goods	24.3	24.4	26.1	26.0	26.0
505	Metals and minerals, except petroleum	27.4	26.9	24.7	24.7	24.7
506	Electrical goods	126.0	126.6	127.7	128.9	129.0
507	Hardware, plumbing, and heating equipment	63.3	63.7	63.8	63.4	64.0
508	Machinery, equipment, and supplies	308.9	307.0	304.4	306.5	307.4
509	Miscellaneous durable goods	42.6	42.7	43.1	42.5	42.9
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	629	627	634	630	624
511	Paper and paper products	51.1	51.6	52.8	53.0	53.2
512	Drugs, proprietaries, and sundries	68.4	68.2	69.0	68.3	67.7
513	Apparel, piece goods, and notions	85.2	84.7	83.5	82.0	84.6
514	Groceries and related products	161.2	154.4	161.6	157.5	150.0
516	Chemicals and allied products	36.9	37.1	38.8	35.1	39.3
517	Petroleum and petroleum products	53.5	53.6	52.0	52.3	52.1
518	Beer, wine, and distilled beverages	22.2	22.0	22.0	22.0	22.3
519	Miscellaneous nondurable goods	119.4	120.4	120.3	119.5	119.5

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
52-59	RETAIL TRADE .....	7,636	7,661	7,787	7,768	7,817
52	BUILDING MATERIALS AND GARDEN SUPPLIES .....	154.6	155.2	165.3	164.0	163.5
521	Lumber and other building materials .....	61.6	61.5	67.4	67.6	67.9
526	Hardware stores .....	55.1	55.8	57.6	57.7	57.4
53	GENERAL MERCHANDISE STORES .....	1,454.2	1,449.2	1,460.3	1,475.5	1,477.0
531	Department stores .....	1,205.6	1,200.8	1,228.8	1,243.4	1,241.8
533	Variety stores .....	172.0	171.4	158.0	157.6	159.8
539	Misc. general merchandise stores .....	76.6	77.0	73.5	74.5	75.4
54	FOOD STORES .....	1,078.9	1,087.4	1,114.9	1,112.1	1,114.8
541	Grocery stores .....	904.4	911.4	933.2	931.9	933.5
542	Meat markets and freezer provisioners .....	17.7	17.6	18.6	18.5	18.2
546	Retail bakeries .....	80.1	81.4	87.8	86.5	87.8
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS .....	317.4	317.1	317.8	320.6	322.7
551,2	New and used car dealers .....	109.3	108.9	110.9	111.5	112.1
553	Auto and home supply stores .....	48.0	47.8	48.6	49.5	49.1
554	Gasoline service stations .....	144.5	145.6	142.1	143.2	145.1
56	APPAREL AND ACCESSORY STORES .....	646.8	653.5	652.8	651.2	659.7
561	Men's and boys' clothing and furnishings .....	52.7	51.9	52.6	51.7	52.0
562	Women's ready-to-wear stores .....	299.9	303.2	308.7	307.6	311.5
565	Family clothing stores .....	129.1	131.8	127.5	129.0	130.5
568	Shoe stores .....	85.7	86.9	85.3	85.1	86.3
57	FURNITURE AND HOME FURNISHING STORES .....	196.9	198.0	208.1	208.7	211.7
571	Furniture and home furnishings stores .....	127.0	126.4	130.5	130.8	132.9
572	Household appliance stores .....	22.1	22.1	25.4	25.9	25.5
573	Radio, television, and music stores .....	47.8	49.5	52.2	52.0	53.3
58	EATING AND DRINKING PLACES .....	2,752.3	2,761.3	2,811.5	2,784.4	2,805.0
59	MISCELLANEOUS RETAIL .....	1,034.4	1,039.2	1,055.9	1,051.8	1,062.4
591	Drug stores and proprietary stores .....	308.8	309.6	310.2	309.1	310.5
592	Liquor stores .....	35.3	34.5	35.0	34.9	35.0
594	Miscellaneous shopping goods stores .....	367.5	370.4	384.0	384.3	389.2
596	Nonstore retailers .....	149.4	152.6	149.1	149.3	153.3
598	Fuel and ice dealers .....	23.3	23.4	23.3	22.6	22.8
599	Retail stores, nec .....	128.6	127.3	130.9	128.4	128.1
-	FINANCE, INSURANCE, AND REAL ESTATE .....	3,226	3,221	3,286	3,303	3,307
60	BANKING .....	1,184.3	1,182.3	1,186.5	1,188.3	1,185.8
602	Commercial and stock savings banks .....	1,087.5	1,085.5	1,085.8	1,087.4	1,085.0
61	CREDIT AGENCIES OTHER THAN BANKS .....	404.3	404.6	430.4	433.2	424.9
612	Savings and loan associations .....	202.2	202.9	224.9	226.2	227.6
614	Personal credit institutions .....	129.1	128.8	124.4	125.1	125.7
62	SECURITY, COMMODITY BROKERS, AND SERVICES .....	120.2	119.6	135.1	138.1	138.7
621	Security brokers and dealers .....	97.6	97.1	109.4	112.1	112.4
63	INSURANCE CARRIERS .....	752.3	751.5	744.1	746.1	745.2
631	Life insurance .....	304.6	304.3	297.9	297.9	297.2
632	Medical service and health insurance .....	102.3	102.0	103.6	105.0	105.1
633	Fire, marine, and casualty insurance .....	298.5	297.8	290.3	289.7	288.4
64	INSURANCE AGENTS, BROKERS, AND SERVICE .....	303.3	302.5	304.8	306.0	306.9
65	REAL ESTATE .....	378.7	377.7	402.4	408.1	411.3
651	Real estate operators and lessors .....	162.2	162.6	177.7	179.6	181.2
653	Real estate agents and managers .....	169.1	167.7	175.8	177.5	179.5
655	Subdividers and developers .....	33.8	33.8	33.5	34.5	34.1
66	COMBINED REAL ESTATE, INSURANCE, ETC .....	10.5	10.8	10.4	10.6	10.6
67	HOLDING AND OTHER INVESTMENT OFFICES .....	71.7	72.2	71.8	72.6	73.1
-	SERVICES .....	11,331	11,318	11,743	11,759	11,767
70	HOTELS AND OTHER LODGING PLACES .....	668.1	678.0	638.5	667.3	680.5
701	Hotels, motels, and tourist courts .....	629.6	636.2	613.6	628.4	637.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1982	Aug. 1982	June 1983	July 1983	Aug. 1983
72	<b>PERSONAL SERVICES</b> .....	631.9	629.2	636.6	627.5	629.0
721	Laundry, cleaning, and garment services .....	219.1	217.7	217.7	215.7	216.7
723	Beauty shops .....	254.9	254.2	265.9	264.8	265.3
728	Funeral service and crematories .....	20.3	20.1	21.8	22.1	21.7
73	<b>BUSINESS SERVICES</b> .....	1,448.6	1,449.7	1,579.8	1,619.0	1,630.7
731	Advertising .....	79.7	79.9	84.3	83.9	84.4
732	Credit reporting and collection .....	53.7	53.2	57.6	57.3	57.2
733	Mailing, reproduction, stenographic .....	66.1	64.0	69.7	67.7	69.1
734	Services to buildings .....	201.2	200.5	206.7	208.6	208.2
736	Personnel supply services .....	358.0	357.2	436.7	470.3	472.5
737	Computer and data processing services .....	172.0	171.2	186.2	188.4	187.8
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	101.1	101.9	103.9	103.5	104.3
753	Automotive repair shops .....	50.6	51.1	51.6	51.0	51.6
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	56.6	55.9	53.6	53.7	53.8
78	<b>MOTION PICTURES</b> .....	89.2	87.5	88.9	89.0	88.9
781	Motion picture production and services .....	27.6	27.2	28.7	28.0	28.6
783	Motion picture theaters .....	55.6	54.3	54.3	55.2	54.5
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	376.0	370.8	389.0	405.9	400.3
80	<b>HEALTH SERVICES</b> .....	4,750.6	4,760.0	4,881.9	4,891.5	4,852.9
801	Offices of physicians .....	645.1	651.3	682.8	686.8	688.8
802	Offices of dentists .....	331.3	328.5	350.8	351.6	352.9
806	Nursing and personal care facilities .....	949.0	952.3	978.6	977.6	980.3
808	Hospitals .....	2,453.6	2,453.5	2,452.5	2,453.2	2,448.0
81	<b>LEGAL SERVICES</b> .....	403.0	401.5	427.1	433.6	431.4
82	<b>EDUCATIONAL SERVICES</b> .....	540.5	530.4	586.8	524.0	510.2
821	Elementary and secondary schools .....	176.6	171.1	203.2	167.4	166.7
822	Colleges and universities .....	299.3	294.7	313.1	288.5	284.6
83	<b>SOCIAL SERVICES</b> .....	844.0	844.1	916.5	905.0	907.8
89	<b>MISCELLANEOUS SERVICES</b> .....	357.4	356.1	365.6	369.3	370.5
891	Engineering and architectural services .....	131.6	130.4	130.8	131.8	132.2
893	Accounting, auditing, and bookkeeping .....	168.9	169.2	177.1	178.8	179.4
-	<b>GOVERNMENT</b> .....	6,796	6,738	7,553	6,941	6,886
-	<b>FEDERAL GOVERNMENT</b> .....	904	898	954	969	969
-	<b>STATE AND LOCAL GOVERNMENT</b> .....	5,892	5,840	6,599	5,972	5,917
-	State government .....	1,507.6	1,504.8	1,504.4	1,461.4	1,468.4
-	Hospitals .....	308.1	306.6	297.7	297.4	297.0
-	State education .....	534.7	532.2	599.9	546.2	540.5
-	General administration including executive, legislative, and judicial functions .....	449.0	448.2	395.3	404.4	406.7
-	Local government .....	4,384.5	4,335.3	5,095.0	4,510.7	4,448.3
-	Transportation and public utilities .....	88.7	88.6	91.5	94.4	94.0
-	Hospitals .....	518.7	518.9	520.7	521.2	521.1
-	Local education .....	2,509.6	2,471.4	3,288.5	2,634.4	2,587.9
-	General administration including executive, legislative, and judicial functions .....	1,063.2	1,047.6	996.6	1,054.5	1,041.1

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. p	Oct. p
<b>TOTAL</b> .....	88,938	88,785	88,665	88,885	88,746	88,814	89,090	89,421	89,844	90,152	89,735	90,753	91,073
<b>GOODS-PRODUCING</b> .....	23,287	23,131	23,061	23,186	23,049	23,030	23,159	23,347	23,518	23,724	23,830	23,943	24,167
<b>MINING</b> .....	1,062	1,066	1,053	1,037	1,014	1,006	997	994	1,003	1,017	1,023	1,027	1,038
<b>CONSTRUCTION</b> .....	3,847	3,843	3,815	3,905	3,790	3,757	3,786	3,860	3,933	3,974	4,014	4,040	4,089
<b>MANUFACTURING</b> .....	18,358	18,222	18,193	18,244	18,245	18,267	18,376	18,493	18,582	18,733	18,793	18,976	19,040
<b>DURABLE GOODS</b> .....	10,685	10,577	10,559	10,594	10,608	10,617	10,689	10,788	10,844	10,961	11,022	11,084	11,227
Lumber and wood products .....	605	608	614	625	631	638	651	662	679	688	699	704	712
Furniture and fixtures .....	426	427	429	430	427	433	440	446	450	459	457	459	464
Stone, clay, and glass products .....	565	559	554	557	557	559	565	570	573	577	582	585	589
Primary metal industries .....	840	825	816	817	810	816	820	828	830	839	840	849	861
Fabricated metal products .....	1,378	1,362	1,359	1,364	1,364	1,362	1,369	1,379	1,384	1,391	1,410	1,412	1,430
Machinery, except electrical .....	2,122	2,088	2,066	2,046	2,042	2,030	2,031	2,064	2,066	2,094	2,109	2,115	2,135
Electric and electronic equipment .....	1,976	1,975	1,957	1,974	1,981	1,988	1,999	2,010	2,030	2,047	2,043	2,081	2,110
Transportation equipment .....	1,691	1,661	1,696	1,710	1,729	1,723	1,743	1,757	1,762	1,794	1,807	1,803	1,839
Instruments and related products .....	705	700	695	695	693	691	690	689	687	687	692	696	701
Miscellaneous manufacturing ind. ....	377	374	373	374	374	377	381	383	383	385	383	380	386
<b>NONDURABLE GOODS</b> .....	7,673	7,645	7,634	7,650	7,637	7,650	7,637	7,705	7,738	7,772	7,771	7,792	7,813
Food and kindred products .....	1,636	1,632	1,626	1,626	1,620	1,619	1,633	1,632	1,643	1,638	1,627	1,633	1,611
Tobacco manufactures .....	66	63	69	69	67	67	66	66	65	65	62	63	64
Textile mill products .....	733	727	727	726	726	730	733	736	745	746	752	752	758
Apparel and other textile products .....	1,148	1,141	1,140	1,150	1,148	1,143	1,149	1,153	1,159	1,160	1,175	1,178	1,191
Paper and allied products .....	653	654	653	653	652	652	654	656	657	658	659	661	666
Printing and publishing .....	1,265	1,263	1,263	1,266	1,264	1,269	1,274	1,276	1,281	1,284	1,289	1,290	1,298
Chemicals and allied products .....	1,066	1,064	1,059	1,057	1,056	1,056	1,058	1,058	1,056	1,059	1,056	1,061	1,062
Petroleum and coal products .....	201	200	199	200	199	199	199	198	198	197	195	195	194
Rubber and misc. plastic products .....	689	685	685	688	691	699	707	716	721	732	739	742	752
Leather and leather products .....	216	216	213	215	214	216	214	214	213	213	217	217	217
<b>SERVICE-PRODUCING</b> .....	65,651	65,654	65,604	65,699	65,697	65,784	65,931	66,074	66,326	66,428	65,905	66,810	67,906
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	5,035	5,019	5,008	4,979	4,966	4,963	4,988	4,993	4,992	4,984	4,341	5,027	5,034
<b>WHOLESALE AND RETAIL TRADE</b> .....	20,344	20,320	20,256	20,355	20,343	20,350	20,329	20,356	20,494	20,529	20,580	20,613	20,669
<b>WHOLESALE TRADE</b> .....	5,237	5,212	5,192	5,185	5,181	5,176	5,180	5,197	5,222	5,229	5,249	5,273	5,284
<b>RETAIL TRADE</b> .....	15,107	15,108	15,064	15,170	15,162	15,174	15,149	15,159	15,272	15,300	15,331	15,340	15,385
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	5,350	5,356	5,367	5,374	5,384	5,391	5,423	5,435	5,451	5,465	5,488	5,456	5,501
<b>SERVICES</b> .....	19,144	19,187	19,215	19,238	19,262	19,356	19,478	19,546	19,668	19,770	19,835	19,921	20,024
<b>GOVERNMENT</b> .....	15,780	15,772	15,758	15,753	15,742	15,724	15,713	15,744	15,721	15,660	15,661	15,753	15,678
<b>FEDERAL</b> .....	2,742	2,746	2,747	2,748	2,742	2,742	2,738	2,756	2,742	2,738	2,733	2,741	2,732
<b>STATE AND LOCAL</b> .....	13,038	13,026	13,011	13,005	13,000	12,982	12,975	12,988	12,979	12,942	12,928	13,012	12,946

p=preliminary.

## ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1962					1963							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>TOTAL</b> .....	38,920	38,552	38,907	38,884	38,847	38,955	38,977	39,048	39,176	39,306	39,458	39,736	39,562
<b>GOODS-PRODUCING</b> .....	6,477	6,438	6,390	6,353	6,336	6,376	6,376	6,390	6,433	6,466	6,505	6,561	6,569
<b>MINING</b> .....	134	134	132	130	129	129	128	127	126	123	122	123	124
<b>CONSTRUCTION</b> .....	376	376	375	375	377	379	379	380	380	382	384	389	391
<b>MANUFACTURING</b> .....	5,967	5,928	5,883	5,848	5,830	5,868	5,869	5,883	5,927	5,951	5,999	6,049	6,054
<b>DURABLE GOODS</b> .....	2,815	2,787	2,748	2,729	2,717	2,732	2,738	2,748	2,769	2,792	2,808	2,842	2,851
Lumber and wood products .....	90	90	90	91	92	93	94	95	96	97	100	101	101
Furnitures and fixtures .....	130	129	128	129	128	130	129	131	133	134	135	138	137
Stone, clay, and glass products .....	113	113	111	109	108	108	107	108	110	111	110	111	111
Primary metal industries .....	102	100	97	94	94	95	96	96	96	96	97	97	97
Fabricated metal products .....	300	297	292	290	291	293	295	296	298	301	303	304	308
Machinery, except electrical .....	473	468	458	453	450	447	445	443	445	451	452	459	464
Electric and electronic equipment .....	847	836	827	826	814	822	826	831	837	844	851	863	861
Transportation equipment .....	285	282	279	275	280	283	286	287	291	295	296	301	303
Instruments and related products .....	301	299	296	294	292	292	291	291	290	289	289	291	294
Miscellaneous manufacturing ind. ....	174	173	170	168	168	169	169	170	173	174	175	177	175
<b>NONDURABLE GOODS</b> .....	3,152	3,141	3,135	3,119	3,113	3,136	3,131	3,135	3,158	3,169	3,191	3,207	3,203
Food and kindred products .....	497	496	499	497	495	499	498	497	505	505	513	507	498
Tobacco manufactures .....	24	23	23	22	24	24	23	23	23	23	23	22	21
Textile mill products .....	351	350	350	347	346	346	345	346	349	350	355	355	357
Apparel and other textile products .....	528	526	526	521	517	532	528	524	529	533	537	554	550
Paper and allied products .....	151	151	150	150	150	150	149	150	151	151	152	153	153
Printing and publishing .....	514	514	512	511	512	513	513	515	518	520	523	524	526
Chemicals and allied products .....	280	279	277	276	275	274	275	275	276	276	277	278	278
Petroleum and coal products .....	31	31	31	31	31	31	31	31	31	30	30	30	30
Rubber and misc. plastics products .....	245	241	238	235	236	236	241	244	249	253	254	257	262
Leather and leather products .....	131	130	129	129	127	129	128	128	127	128	127	127	128
<b>SERVICE-PRODUCING</b> .....	32,443	32,514	32,517	32,531	32,511	32,579	32,601	32,658	32,743	32,840	32,953	33,175	32,993
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,334	1,335	1,332	1,330	1,331	1,328	1,328	1,328	1,332	1,329	1,335	1,326	1,021
<b>WHOLESALE AND RETAIL TRADE</b> .....	9,061	9,049	9,045	9,033	9,997	9,063	9,068	9,088	9,094	9,099	9,167	9,208	9,225
<b>WHOLESALE TRADE</b> .....	1,393	1,369	1,387	1,380	1,378	1,374	1,375	1,372	1,377	1,381	1,396	1,401	1,408
<b>RETAIL TRADE</b> .....	7,668	7,680	7,658	7,653	7,619	7,689	7,693	7,716	7,717	7,718	7,771	7,807	7,817
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,201	3,206	3,203	3,207	3,212	3,218	3,220	3,227	3,251	3,255	3,263	3,277	3,287
<b>SERVICES</b> .....	11,351	11,394	11,410	11,431	11,456	11,474	11,500	11,536	11,603	11,654	11,708	11,759	11,802
<b>GOVERNMENT</b> .....	7,496	7,530	7,527	7,530	7,515	7,496	7,485	7,479	7,463	7,503	7,482	7,605	7,658
<b>FEDERAL</b> .....	886	889	887	894	894	892	891	902	910	928	935	947	957
<b>STATE AND LOCAL</b> .....	6,610	6,641	6,640	6,636	6,621	6,604	6,594	6,577	6,553	6,575	6,547	6,658	6,701

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1962			1963									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. P
<b>TOTAL PRIVATE</b> .....	58,988	58,850	58,764	58,939	58,801	58,889	59,150	59,462	59,871	60,182	59,751	60,620	60,990
<b>GOODS-PRODUCING</b> .....	16,095	15,961	15,908	16,019	15,900	15,881	16,016	16,183	16,349	16,538	16,626	16,716	16,942
<b>MINING</b> .....	776	763	750	736	715	707	701	699	710	721	724	727	737
<b>CONSTRUCTION</b> .....	2,951	2,946	2,917	2,992	2,882	2,851	2,880	2,953	3,024	3,061	3,099	3,122	3,169
<b>MANUFACTURING</b> .....	12,368	12,252	12,241	12,291	12,303	12,323	12,435	12,531	12,615	12,756	12,803	12,867	13,036
<b>DURABLE GOODS</b> .....	6,992	6,900	6,692	6,931	6,949	6,961	7,035	7,115	7,169	7,278	7,329	7,383	7,520
Lumber and wood products .....	495	500	506	515	522	529	540	550	566	575	584	588	596
Furniture and fixtures .....	336	337	338	339	337	342	349	354	357	365	364	366	370
Stone, clay, and glass products .....	427	422	418	421	421	423	429	434	436	440	446	448	452
Primary metal industries .....	615	601	596	598	595	601	608	615	616	625	629	635	647
Fabricated metal products .....	988	975	973	981	983	982	987	996	1,003	1,009	1,023	1,027	1,044
Machinery, except electrical .....	1,243	1,215	1,199	1,186	1,175	1,171	1,175	1,201	1,204	1,227	1,241	1,247	1,267
Electric and electronic equipment .....	1,180	1,178	1,161	1,182	1,187	1,193	1,204	1,213	1,226	1,242	1,238	1,270	1,299
Transportation equipment .....	1,039	1,010	1,044	1,055	1,073	1,066	1,085	1,093	1,103	1,134	1,141	1,136	1,169
Instruments and related products .....	398	394	390	387	385	384	384	384	382	382	386	392	396
Miscellaneous manufacturing ind. ....	271	268	267	267	267	270	274	275	276	279	277	274	280
<b>NONDURABLE GOODS</b> .....	5,376	5,352	5,349	5,360	5,354	5,362	5,400	5,416	5,446	5,478	5,474	5,484	5,516
Food and kindred products .....	1,127	1,123	1,119	1,119	1,115	1,114	1,126	1,126	1,136	1,133	1,120	1,121	1,107
Tobacco manufactures .....	51	48	54	54	52	52	51	51	50	50	47	48	49
Textile mill products .....	629	625	623	622	622	627	631	634	643	643	650	650	656
Apparel and other textile products .....	968	962	963	973	970	965	972	976	960	939	994	996	1,009
Paper and allied products .....	486	487	486	486	486	486	488	491	491	494	492	495	500
Printing and publishing .....	696	694	695	694	694	694	699	701	705	705	708	703	714
Chemicals and allied products .....	593	592	589	588	587	585	587	585	586	589	588	590	594
Petroleum and coal products .....	120	120	119	120	121	122	122	120	119	119	118	117	119
Rubber and misc. plastics products .....	526	523	524	525	529	536	546	554	558	568	575	577	586
Leather and leather products .....	180	180	177	179	178	179	178	178	178	178	182	182	182
<b>SERVICE-PRODUCING</b> .....	42,893	42,889	42,656	42,920	42,901	43,008	43,134	43,279	43,522	43,644	43,125	43,904	44,048
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,149	4,135	4,125	4,103	4,087	4,086	4,106	4,111	4,110	4,103	3,461	4,140	4,151
<b>WHOLESALE AND RETAIL TRADE</b> .....	17,764	17,738	17,689	17,774	17,769	17,776	17,754	17,797	17,910	17,953	18,000	18,070	18,058
<b>WHOLESALE TRADE</b> .....	4,225	4,201	4,133	4,171	4,166	4,156	4,165	4,182	4,203	4,207	4,225	4,248	4,254
<b>RETAIL TRADE</b> .....	13,539	13,537	13,506	13,603	13,603	13,620	13,589	13,615	13,707	13,751	13,775	13,772	13,804
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,990	3,993	3,997	3,998	4,003	4,012	4,037	4,049	4,065	4,071	4,090	4,093	4,094
<b>SERVICES</b> .....	16,990	17,023	17,045	17,045	17,042	17,134	17,237	17,322	17,437	17,512	17,574	17,651	17,745

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

p = preliminary.

## ESTABLISHMENT DATA

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

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1981.....	57.8	52.4	52.2	65.6	60.2	58.9	62.6	49.5	42.2	33.3	29.3	30.9
	1982.....	28.5	45.4	36.0	39.0	47.6	32.8	38.4	37.1	34.1	29.3	32.0	42.2
	1983.....	56.5	45.7	62.4	69.1	71.0	64.5	68.5	68.0	61.0p	67.2p		
Over 3-month span	1981.....	58.3	54.6	59.1	65.9	67.5	66.7	60.5	50.5	33.3	30.1	24.5	23.4
	1982.....	25.3	28.8	32.0	34.1	32.5	33.6	27.2	27.2	26.1	25.5	24.7	40.6
	1983.....	45.4	55.1	65.6	75.8	76.1	77.2	73.9	79.3p	79.3p			
Over 6-month span	1981.....	68.5	65.3	63.7	69.4	64.2	58.6	45.7	34.4	29.6	24.2	25.0	22.0
	1982.....	20.2	23.7	25.3	29.8	26.1	26.1	23.4	19.1	21.2	26.1	26.6	35.8
	1983.....	50.5	63.2	73.4	76.3	79.3	83.1p	82.8p					
Over 12-month span	1981.....	74.5	71.2	70.4	58.1	47.6	41.4	34.9	29.8	27.4	23.7	25.3	23.1
	1982.....	22.0	20.7	18.0	19.4	18.3	20.7	20.7	22.8	24.2	31.5	37.6	44.1
	1983.....	48.9	58.3	62.4p	73.4p								

<sup>1</sup> Number of employees, seasonally adjusted for 1, 3, and 6 month spans, on payrolls of 188 private nonagricultural industries.  
p = preliminary.

NOTE: Figures are the percent of industries with employment rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans.



# ESTABLISHMENT 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		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>1 ALABAMA</b> .....	1,306.3	1,311.6	1,312.0	15.8	14.8	14.1	58.9	60.9	61.2	333.1	333.9	334.5
2 Birmingham .....	332.0	331.4	333.7	8.3	7.2	6.7	17.4	18.4	18.2	50.3	48.5	48.2
3 Huntsville .....	126.8	131.1	132.5	(1)	(1)	(1)	3.8	4.3	4.3	38.1	41.3	41.5
4 Mobile .....	146.4	145.7	144.3	(1)	(1)	(1)	9.4	10.0	9.9	27.4	26.4	26.1
5 Montgomery .....	104.0	103.1	104.0	(1)	(1)	(1)	5.5	6.2	6.2	15.1	14.8	14.7
6 Tuscaloosa .....	49.1	48.5	49.3	2.5	2.0	2.0	2.0	2.0	2.0	7.6	8.1	8.0
<b>7 ALASKA</b> .....	216.8	230.3	224.5	9.5	8.7	8.5	22.1	23.7	23.9	16.3	22.2	15.7
<b>8 ARIZONA</b> .....	1,022.5	1,011.7	1,052.7	15.4	14.6	15.6	63.0	75.6	75.8	151.4	153.2	155.7
9 Phoenix .....	649.0	646.8	671.1	.6	.6	.5	42.0	51.1	51.6	109.8	109.9	111.5
10 Tucson .....	190.7	187.2	196.0	4.2	3.1	3.4	11.8	15.2	15.1	25.2	26.5	26.5
<b>11 ARKANSAS</b> .....	727.2	724.9	743.4	5.7	5.8	5.8	31.2	32.8	32.2	195.9	205.5	206.7
12 Fayetteville—Springdale .....	65.5	65.6	67.4	(1)	(1)	(1)	2.5	2.4	2.3	18.5	18.5	18.3
13 Fort Smith .....	65.4	65.3	67.7	1.2	1.1	1.1	2.3	2.3	2.3	20.1	21.4	22.5
14 Little Rock—North Little Rock .....	177.5	177.5	180.0	(1)	(1)	(1)	8.6	9.1	8.8	26.3	26.4	26.1
15 Pine Bluff .....	29.3	28.4	29.7	(1)	(1)	(1)	1.3	1.2	1.2	5.6	5.9	5.9
<b>16 CALIFORNIA</b> .....	9,803.2	9,800.3	9,973.7	49.2	47.8	47.6	368.5	392.1	399.5	1,938.0	1,927.8	1,928.0
17 Anaheim—Santa Ana—Garden Grove .....	840.9	828.2	836.1	3.9	3.2	3.2	37.6	30.6	30.8	211.2	210.5	211.5
18 Bakersfield .....	137.0	136.8	138.0	14.4	14.6	14.4	6.7	6.4	6.2	9.7	9.7	9.6
19 Fresno .....	177.6	172.9	178.3	1.0	1.1	1.1	8.4	8.5	8.4	23.5	23.7	24.0
20 Los Angeles—Long Beach .....	3,516.4	3,530.4	3,579.9	14.4	14.1	14.1	102.7	97.3	102.2	849.9	845.9	849.6
21 Modesto .....	91.8	91.1	90.2	.1	.1	.1	3.9	4.1	4.1	24.8	26.0	23.9
22 Oxnard—Simi Valley—Ventura .....	159.9	158.4	161.8	3.2	3.0	3.1	5.3	5.4	5.6	26.7	25.6	26.2
23 Riverside—San Bernardino—Ontario .....	427.3	419.0	428.3	1.4	.9	.9	20.2	19.4	19.7	57.7	58.0	58.2
24 Sacramento .....	408.8	399.9	411.7	.8	.8	.8	16.4	17.1	17.6	29.1	28.8	29.4
25 Salinas—Seaside—Monterey .....	90.2	90.6	91.4	.4	.4	.4	2.9	3.1	3.1	9.8	9.5	9.7
26 San Diego .....	662.8	658.2	672.5	.4	.5	.5	27.1	27.1	27.0	107.8	106.4	107.0
27 San Francisco—Oakland .....	1,557.5	1,529.7	1,553.8	4.4	4.5	4.4	73.1	71.4	71.8	189.7	183.0	181.1
28 San Jose .....	696.9	687.6	696.1	.1	.1	.1	22.4	23.8	24.1	264.6	257.2	255.4
29 Santa Barbara—Santa Maria—Lompoc .....	124.0	123.9	124.1	1.5	1.3	1.3	4.8	4.4	4.4	18.5	19.5	19.6
30 Santa Rosa .....	96.8	94.0	97.5	.5	.6	.6	4.9	5.1	5.2	16.1	15.4	15.8
31 Stockton .....	123.8	118.1	122.3	.1	.1	.1	5.4	5.3	5.4	24.9	23.5	23.4
32 Vallejo—Fairfield—Napa .....	101.1	100.1	102.6	.5	.5	.5	4.6	4.7	4.7	11.5	11.5	11.2
<b>33 COLORADO</b> .....	1,308.0	1,330.1	1,345.8	43.2	40.2	39.6	81.5	90.3	89.7	179.5	181.9	182.4
34 Denver—Boulder .....	843.7	852.1	865.3	29.9	28.1	27.7	49.0	52.7	52.3	124.1	126.2	126.7
<b>35 CONNECTICUT</b> .....	1,429.5	1,407.0	1,442.1	(2)	(2)	(2)	53.6	54.1	54.0	410.4	395.2	404.6
36 Bridgeport .....	168.6	163.3	165.4	(2)	(2)	(2)	5.3	5.4	5.3	60.5	57.5	57.8
37 Hartford .....	398.4	391.9	401.8	(2)	(2)	(2)	12.0	12.3	12.2	89.5	84.8	87.3
38 New Britain .....	60.0	57.3	59.1	(2)	(2)	(2)	2.3	2.2	2.2	25.4	23.4	24.1
39 New Haven—West Haven .....	188.7	177.5	185.5	(2)	(2)	(2)	6.8	6.7	6.6	39.1	36.2	36.7
40 Stamford .....	115.1	115.1	115.8	(2)	(2)	(2)	5.5	5.4	5.4	32.0	31.7	31.6
41 Waterbury .....	86.1	83.3	85.2	(2)	(2)	(2)	3.1	3.1	3.2	29.7	27.5	28.3
<b>42 DELAWARE</b> .....	262.2	264.5	263.8	(1)	(1)	(1)	16.1	17.3	16.8	69.8	68.5	68.4
43 Wilmington .....	230.8	230.9	230.6	(1)	(1)	(1)	19.0	20.3	19.7	62.2	59.7	59.2
<b>44 DISTRICT OF COLUMBIA</b> .....	590.6	600.3	588.6	(1)	(1)	(1)	10.4	10.3	10.4	13.7	13.5	13.5
45 Washington SMSA .....	1,586.6	1,624.0	1,620.4	(1)	(1)	(1)	68.2	74.9	74.9	61.1	63.6	64.3
<b>46 FLORIDA</b> .....	3,707.3	3,786.8	3,882.5	9.6	9.3	9.4	247.6	257.9	259.9	452.3	470.8	477.0
47 Daytona Beach .....	81.5	83.3	83.1	-	-	-	4.4	4.2	4.1	8.9	10.2	10.5
48 Fort Lauderdale—Hollywood .....	355.6	354.5	366.2	(1)	(1)	(1)	25.2	26.4	26.6	39.1	39.4	40.0
49 Fort Myers—Cape Coral .....	75.0	74.2	77.6	(1)	(1)	(1)	8.6	9.5	9.5	4.1	4.1	4.2
50 Gainesville .....	65.8	66.8	70.1	(1)	(1)	(1)	3.7	4.3	4.4	4.1	4.2	4.2
51 Jacksonville .....	308.0	304.7	316.5	(1)	(1)	(1)	18.5	19.5	19.6	32.9	31.4	31.8
52 Lakeland—Winter Haven .....	112.7	111.6	114.0	4.5	4.2	4.3	7.0	6.6	6.6	17.7	18.1	18.3
53 Melbourne—Titusville—Cocoa .....	108.7	114.0	115.0	(1)	(1)	(1)	5.8	6.1	6.2	24.0	25.0	25.3
54 Miami .....	723.8	721.6	734.1	(1)	(1)	(1)	33.0	36.1	35.8	93.5	94.8	95.6
55 Orlando .....	320.0	324.7	337.2	(1)	(1)	(1)	25.2	26.2	25.0	39.4	39.5	39.7
56 Pensacola .....	100.7	104.5	106.8	(1)	(1)	(1)	7.2	9.0	8.9	12.6	12.6	12.5
57 Sarasota .....	73.4	77.5	77.8	(1)	(1)	(1)	6.4	6.8	7.0	5.6	5.8	5.8
58 Tallahassee .....	75.4	74.9	74.9	(1)	(1)	(1)	3.4	4.0	3.9	3.1	3.2	3.2
59 Tampa—St. Petersburg .....	584.5	589.5	602.5	(1)	(1)	(1)	39.7	41.5	41.8	77.9	80.3	80.5
60 West Palm Beach—Boca Raton .....	216.0	218.7	223.3	(1)	(1)	(1)	17.8	16.9	17.6	28.5	29.9	30.2

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			
SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	
68.0	64.6	70.9	268.1	266.5	267.2	59.0	59.6	59.1	217.2	217.8	217.4	286.2	293.5	287.6	1
27.4	26.2	30.0	79.6	78.5	78.6	23.3	23.9	23.8	72.0	73.6	73.5	53.7	55.1	54.7	2
2.8	2.2	2.7	22.7	23.0	23.3	3.5	3.5	3.4	20.5	21.0	21.2	35.4	35.8	36.1	3
9.6	9.0	9.5	36.7	37.1	37.1	7.0	6.7	6.7	31.5	31.4	31.2	24.8	25.1	23.8	4
4.6	3.9	4.5	23.3	23.8	23.9	6.1	6.2	6.2	20.9	20.5	20.8	28.5	27.7	27.7	5
1.7	1.4	1.6	9.9	10.1	10.2	1.6	1.7	1.6	6.4	6.2	6.5	17.4	17.0	17.4	6
19.5	19.9	19.8	39.7	43.3	43.3	9.9	11.0	11.0	38.1	41.8	40.7	61.7	59.7	61.6	7
56.4	47.7	55.9	251.3	251.5	254.4	61.6	63.0	62.6	219.5	224.9	224.8	203.9	181.2	207.9	8
35.5	29.7	35.5	166.9	167.2	169.4	47.9	48.6	48.3	144.0	148.2	148.8	102.3	91.5	105.5	9
9.0	7.0	8.8	43.2	42.5	42.8	8.6	9.3	9.2	42.9	44.1	44.4	45.8	39.5	45.8	10
42.9	39.0	42.7	160.4	160.0	160.8	32.4	33.0	32.5	119.6	120.9	121.9	139.1	127.9	140.8	11
4.0	4.3	4.6	16.2	16.5	16.7	2.3	2.5	2.5	9.9	9.8	10.2	12.1	11.6	12.8	12
3.6	3.3	3.6	14.3	14.3	14.4	2.5	2.6	2.6	12.2	12.2	12.2	9.2	8.1	9.0	13
13.2	11.6	13.3	42.6	43.6	43.6	13.3	13.3	13.1	37.1	38.6	38.4	36.4	34.9	36.7	14
3.5	3.1	3.3	5.9	5.7	5.7	1.3	1.3	1.3	5.5	5.6	5.7	6.2	5.6	6.6	15
547.4	471.8	547.5	2,281.6	2,327.5	2,346.6	644.8	659.0	660.7	2,297.0	2,355.7	2,367.8	1,676.7	1,618.6	1,676.0	16
29.5	24.1	28.4	210.4	209.6	209.3	59.7	60.7	60.6	191.2	196.6	195.9	97.4	92.9	96.4	17
7.7	7.1	7.8	35.4	36.1	35.9	5.4	5.6	5.5	25.6	25.7	25.7	32.1	31.6	32.9	18
10.4	9.4	10.7	46.5	46.3	46.4	11.3	11.5	11.5	37.9	37.3	37.6	38.6	35.1	38.6	19
199.2	179.3	197.8	815.6	828.8	835.8	236.3	243.5	243.5	870.0	901.5	909.3	428.3	420.0	427.6	20
4.2	3.6	4.1	21.8	21.4	21.7	3.4	3.4	3.4	17.7	17.7	17.7	15.9	14.8	15.2	21
6.5	6.0	6.8	39.1	39.8	40.1	10.4	10.4	10.4	33.1	33.4	33.6	35.6	34.8	36.0	22
25.5	24.2	25.2	108.4	109.0	109.8	18.9	18.8	18.8	95.8	95.3	96.8	99.4	93.4	98.9	23
21.8	17.7	22.0	95.7	95.6	97.0	22.9	22.8	22.8	79.9	80.8	80.9	142.2	136.3	141.2	24
4.7	4.1	4.7	24.4	24.7	24.6	4.2	4.3	4.3	21.1	21.5	21.4	22.7	23.0	23.2	25
29.6	26.3	29.2	154.1	157.4	157.6	41.9	42.3	42.3	162.3	167.8	167.7	139.6	130.4	141.2	26
126.0	113.4	124.4	360.0	359.2	360.2	153.1	153.9	153.5	376.6	380.1	384.7	274.6	264.2	273.7	27
22.6	18.6	22.0	126.9	129.6	130.5	28.5	28.8	28.8	157.6	159.3	160.7	74.2	70.2	74.5	28
5.4	5.3	5.3	30.1	29.7	29.8	6.2	6.3	6.3	34.8	34.3	34.2	22.7	23.1	23.2	29
4.8	4.0	4.8	23.7	23.7	23.8	6.1	6.1	6.1	21.2	21.4	21.6	19.5	17.7	19.6	30
8.1	7.2	8.2	27.7	27.6	27.9	6.2	6.2	6.2	24.5	23.8	24.2	26.9	24.4	26.9	31
4.6	3.8	4.5	22.7	23.2	23.3	3.5	3.5	3.5	20.4	20.3	20.4	33.3	32.6	34.5	32
85.5	77.2	85.1	322.6	330.4	330.2	83.5	87.2	86.2	277.7	294.9	290.8	234.6	228.0	241.8	33
61.4	56.1	62.6	201.5	204.9	204.8	60.1	63.0	62.2	185.0	195.7	193.6	132.6	125.4	135.5	34
62.5	49.7	62.1	307.0	310.0	313.7	114.4	118.3	118.0	305.3	311.9	311.5	176.3	167.8	178.2	35
6.6	6.2	6.6	35.4	35.3	35.8	7.8	7.9	7.9	37.2	36.4	36.5	15.8	14.6	15.5	36
14.0	11.8	13.9	84.2	83.5	84.9	66.5	67.5	67.4	80.3	82.8	83.9	51.9	49.2	52.2	37
3.4	3.3	3.6	10.1	9.8	10.1	1.9	1.9	1.8	10.9	10.8	11.1	6.0	5.9	6.2	38
15.7	10.5	15.7	41.7	40.8	41.2	11.1	11.2	11.2	50.8	50.7	51.0	23.5	21.4	23.1	39
4.6	4.3	4.6	26.1	26.7	26.8	9.2	9.4	9.3	27.4	28.0	27.8	10.3	9.6	10.3	40
3.3	2.8	3.5	16.4	16.5	16.6	3.9	4.0	4.0	19.0	18.8	18.8	10.7	10.6	10.8	41
11.5	9.7	11.1	58.0	59.8	59.1	13.4	14.0	13.8	50.8	51.6	51.2	42.6	43.7	43.4	42
11.2	9.6	10.8	47.0	48.6	48.7	12.2	12.8	12.5	45.2	46.2	45.7	33.9	33.8	33.9	43
25.9	21.0	25.4	60.2	59.3	59.1	33.6	33.1	33.1	192.0	186.5	189.1	254.8	276.6	258.0	44
74.0	68.5	76.4	301.9	307.7	308.3	91.3	93.4	92.5	470.6	475.7	475.7	519.5	540.2	528.3	45
229.4	204.8	233.7	982.3	1,032.1	1,032.5	278.8	294.2	294.9	890.5	928.1	932.9	616.8	589.6	642.2	46
3.3	2.7	3.1	22.7	23.6	23.3	4.9	5.5	5.5	22.4	22.9	22.4	14.9	14.2	14.2	47
18.5	12.5	17.9	105.5	109.7	110.7	30.9	32.8	32.9	88.3	90.1	90.3	48.1	43.6	47.8	48
4.2	4.2	4.2	22.1	22.5	22.7	6.9	7.2	7.2	16.8	17.2	17.2	12.3	9.5	12.6	49
1.6	1.4	1.5	14.4	13.7	13.7	3.0	2.8	2.8	14.3	14.1	14.3	24.7	26.3	29.2	50
24.8	19.7	25.3	80.4	83.2	83.2	28.1	28.4	28.2	70.1	72.9	73.7	53.2	49.6	54.7	51
4.8	5.0	4.9	28.1	28.0	28.5	9.4	10.1	10.0	25.0	25.2	25.0	16.2	14.4	16.4	52
5.0	4.1	4.8	23.7	27.2	27.0	4.1	4.3	4.3	27.3	28.0	28.2	18.8	19.3	19.2	53
72.7	64.5	70.7	193.0	192.8	193.1	57.9	59.5	58.8	180.1	184.0	185.3	93.6	89.9	94.8	54
15.2	15.5	15.5	87.2	93.4	93.4	21.3	21.4	21.3	87.4	95.3	95.3	44.3	33.4	47.0	55
5.1	5.7	6.0	24.1	25.6	25.2	4.4	4.4	4.4	22.4	23.8	23.4	24.9	23.4	26.4	56
3.2	3.5	3.5	22.1	22.5	22.5	6.3	6.7	6.7	19.6	21.8	22.0	10.2	10.4	10.3	57
2.5	2.6	2.6	15.9	15.9	15.7	3.5	3.6	3.5	14.7	14.9	14.6	32.3	30.7	31.4	58
33.5	33.7	33.6	158.6	158.3	160.1	43.1	45.2	45.3	147.0	152.6	152.6	84.7	77.9	88.6	59
10.1	10.2	10.3	55.4	57.9	57.5	18.5	19.4	19.4	54.5	55.1	56.1	31.2	29.3	32.2	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 areas	Total			Mining			Construction			Manufacturing		
		SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
1	GEORGIA	2,207.7	2,236.7	2,267.3	7.4	7.4	7.5	104.8	108.0	107.7	501.9	505.8	513.1
2	Albany	43.4	43.0	43.4	(1)	(1)	(1)	1.8	1.8	1.9	11.8	11.5	11.5
3	Athens	51.4	53.0	53.1	-	-	-	1.7	1.9	1.8	14.0	14.2	14.4
4	Atlanta	1,014.3	1,022.5	1,037.2	(1)	(1)	(1)	46.2	46.2	46.6	142.3	137.8	142.4
5	Augusta	123.0	122.2	123.7	(1)	(1)	(1)	5.8	4.8	4.7	33.3	33.9	34.0
6	Columbus	77.6	81.1	79.9	(1)	(1)	(1)	3.3	4.2	4.2	19.7	20.6	20.7
7	Macon	99.1	98.9	99.8	(1)	(1)	(1)	4.0	3.6	3.7	16.5	16.6	16.7
8	Savannah	88.5	87.9	87.8	(1)	(1)	(1)	5.9	5.0	4.9	16.5	16.7	16.8
9	HAWAII	394.0	400.7	388.7	-	-	-	17.5	16.6	16.5	22.6	23.4	21.3
10	Honolulu	320.3	327.3	316.5	-	-	-	14.0	13.5	13.4	16.6	17.2	15.5
11	IDAHO	320.4	315.9	326.5	3.7	4.6	4.5	16.1	14.4	14.4	50.8	49.9	52.0
12	Boise City	77.3	77.6	78.4	(1)	(1)	(1)	5.4	4.7	4.8	8.7	9.2	9.1
13	ILLINOIS	4,582.9	4,511.8	4,540.6	27.3	26.4	26.4	166.2	161.6	163.5	1,005.6	981.7	989.3
14	Bloomington—Normal	49.4	47.2	50.0	(2)	(2)	(2)	1.4	1.5	1.4	5.4	5.3	5.6
15	Champaign—Urbana—Rantoul	74.7	68.9	75.0	(2)	(2)	(2)	1.7	2.0	1.8	6.9	6.8	6.9
16	Chicago—Gary	3,312.3	3,274.2	3,279.8	2.9	3.2	3.3	119.9	123.4	122.5	757.6	729.9	733.9
17	Chicago SMSA <sup>1</sup>	3,085.4	3,051.6	3,058.1	2.8	3.1	3.2	107.9	111.2	110.8	682.8	659.2	663.6
18	Davenport—Rock Island—Moline	151.3	146.8	148.6	(2)	(2)	(2)	6.8	6.3	6.2	40.7	38.4	38.7
19	Decatur	52.2	52.0	53.2	(2)	(2)	(2)	2.3	2.3	2.4	17.4	18.0	18.1
20	Kankakee	32.6	30.6	30.7	(2)	(2)	(2)	1.6	1.3	1.3	7.2	6.4	6.3
21	Peoria	135.5	129.4	130.5	(2)	(2)	(2)	8.1	7.1	6.9	37.2	34.9	35.1
22	Rockford	108.4	107.2	108.3	(2)	(2)	(2)	3.2	3.0	3.2	42.1	42.3	42.6
23	Springfield	87.9	90.7	86.0	(2)	(2)	(2)	3.7	3.6	3.5	6.0	5.3	5.4
24	INDIANA	2,022.5	1,988.8	2,018.6	10.6	9.6	9.6	80.8	79.1	78.2	581.0	569.4	578.2
25	Anderson	43.0	43.6	45.1	(1)	(1)	(1)	1.0	1.1	1.1	17.5	17.6	18.5
26	Elkhart	67.7	77.2	77.4	(1)	(1)	(1)	1.6	2.1	2.2	34.1	41.3	41.2
27	Evansville	122.2	123.2	123.7	2.9	2.7	2.8	6.3	6.4	6.3	33.1	32.2	33.4
28	Fort Wayne	160.7	156.5	158.0	(1)	(1)	(1)	6.1	6.1	6.1	46.6	43.9	44.4
29	Gary—Hammond—East Chicago	226.9	222.6	221.7	(1)	(1)	(1)	12.0	12.2	11.7	74.8	70.7	70.3
30	Indianapolis	508.4	504.1	509.8	(1)	(1)	(1)	20.9	21.4	21.1	110.7	106.5	108.0
31	Lafayette—West Lafayette	57.4	52.5	58.0	(1)	(1)	(1)	1.9	1.8	1.7	10.5	10.6	10.7
32	Muncie	46.2	43.0	46.5	(1)	(1)	(1)	1.3	1.4	1.4	10.9	10.5	11.0
33	South Bend	106.5	104.9	107.7	(1)	(1)	(1)	3.8	4.6	4.4	28.8	27.3	27.8
34	Terre Haute	59.9	57.1	59.4	1.3	1.2	1.2	2.7	3.4	3.3	14.0	12.6	12.6
35	IOWA	1,033.6	993.3	1,023.1	2.0	1.9	1.9	38.9	33.8	33.4	205.6	192.6	203.3
36	Cedar Rapids	75.1	71.8	72.9	(1)	(1)	(1)	2.4	2.0	2.1	22.6	21.2	21.2
37	Des Moines	169.6	164.1	167.4	(1)	(1)	(1)	5.8	5.1	5.2	20.2	19.4	19.7
38	Dubuque	36.8	36.3	38.4	(1)	(1)	(1)	1.2	1.1	1.1	9.9	10.1	11.6
39	Sioux City	46.2	45.4	46.2	(1)	(1)	(1)	1.9	1.7	1.6	8.3	8.5	8.5
40	Waterloo—Cedar Falls	59.7	49.1	56.0	(1)	(1)	(1)	1.7	1.6	1.6	19.4	11.6	16.9
41	KANSAS	911.8	897.2	916.4	17.3	17.5	17.4	37.6	37.6	37.3	158.3	163.2	162.5
42	Lawrence	27.6	25.6	27.5	(2)	(2)	(2)	.8	.7	.7	4.3	4.1	4.0
43	Topeka	82.9	81.6	82.8	(2)	(2)	(2)	3.1	3.0	3.1	8.6	9.0	8.9
44	Wichita	188.8	190.4	194.4	3.6	3.4	3.4	8.7	8.0	8.0	47.2	52.2	50.9
45	KENTUCKY	1,170.3	1,155.9	1,175.3	52.5	51.7	52.2	52.4	56.8	56.4	243.4	248.3	249.9
46	Lexington—Fayette	141.8	140.4	142.1	(1)	(1)	(1)	6.6	5.8	5.7	25.3	26.4	27.1
47	Louisville	366.2	368.9	366.7	(1)	(1)	(1)	16.8	17.6	17.0	84.3	84.0	85.3
48	Owensboro	30.3	30.4	30.2	1.1	1.2	1.1	1.6	1.7	1.5	5.9	5.9	5.9
49	LOUISIANA	1,606.2	1,573.2	1,585.9	96.1	91.1	90.5	122.1	115.2	114.6	201.6	191.7	192.5
50	Alexandria	54.4	54.1	55.5	(1)	(1)	(1)	3.6	3.7	3.8	5.7	5.3	5.8
51	Baton Rouge	207.1	204.7	209.6	1.5	1.5	1.4	20.8	21.5	21.8	25.2	24.4	24.3
52	Lafayette	99.2	93.9	94.6	19.7	16.9	16.8	6.8	6.2	6.1	5.2	5.0	5.0
53	Lake Charles	62.7	61.0	61.1	2.5	2.3	2.4	5.9	4.5	4.4	10.7	9.8	9.7
54	Monroe	52.1	51.3	50.9	.6	.6	.6	3.8	3.8	3.7	7.3	7.1	7.3
55	New Orleans	512.6	501.7	502.6	20.8	20.6	20.5	31.7	31.0	31.4	46.6	43.8	43.5
56	Shreveport	152.1	147.0	149.5	7.8	7.1	7.0	8.4	8.3	8.4	25.3	24.3	24.3
57	MAINE	417.5	428.0	422.9	(1)	(1)	(1)	18.8	18.6	18.8	109.8	110.2	108.8
58	Lewiston—Auburn	33.7	34.3	34.9	(1)	(1)	(1)	1.5	1.6	1.5	11.1	11.6	11.7
59	Portland	94.8	97.2	98.6	(1)	(1)	(1)	4.4	4.5	4.4	17.0	16.5	16.9
60	MARYLAND	1,663.9	1,673.7	1,684.4	(1)	(1)	(1)	88.9	90.7	89.0	208.8	205.2	209.8
61	Baltimore SMSA	921.0	919.2	925.4	(1)	(1)	(1)	41.3	41.6	40.5	139.5	135.1	138.8
62	Baltimore City	428.8	427.5	427.8	(1)	(1)	(1)	13.5	13.4	12.5	57.0	54.3	55.6

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			
SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	
146.1	136.9	147.7	523.6	539.9	540.4	116.8	121.2	121.6	376.9	395.7	395.6	430.1	421.8	433.7	1
2.2	1.9	2.2	9.1	9.4	9.4	2.1	2.2	2.3	5.8	5.8	5.9	10.5	10.4	10.3	2
1.5	1.6	1.6	10.2	10.8	11.0	1.7	1.6	1.7	7.1	7.1	7.2	15.1	15.9	15.5	3
92.1	86.2	93.0	282.7	291.9	291.9	70.1	72.6	72.5	219.9	227.7	227.0	161.1	160.3	163.8	4
4.3	3.7	4.2	24.5	24.8	24.9	4.6	4.6	4.6	19.1	19.9	20.1	31.3	30.5	31.3	5
3.2	2.7	3.1	16.4	16.9	16.8	5.3	5.5	5.4	11.4	11.0	10.8	18.2	20.2	18.9	6
4.7	3.8	4.5	21.1	21.4	21.3	5.9	6.2	6.2	17.6	17.9	17.9	29.4	29.4	29.6	7
7.9	8.8	9.0	21.4	21.3	21.1	4.2	4.2	4.2	16.4	17.2	17.2	16.2	14.8	14.7	8
31.9	30.3	30.2	105.9	107.9	106.8	31.4	31.8	31.3	100.5	99.7	98.8	84.2	91.0	83.8	9
26.6	25.2	25.0	87.3	88.8	88.0	27.0	27.5	27.1	78.6	78.4	77.3	70.2	76.7	70.2	10
19.3	18.1	19.1	78.6	79.7	80.6	22.7	23.5	23.4	60.3	62.0	62.6	68.9	63.7	69.9	11
5.4	5.2	5.3	19.4	19.7	19.7	7.7	7.9	7.9	15.4	15.9	16.1	15.3	15.0	15.5	12
274.2	244.6	269.0	1,078.9	1,075.2	1,075.0	326.9	329.2	326.1	985.9	991.8	980.3	717.9	701.3	711.0	13
3.5	3.3	3.2	11.8	11.7	11.7	8.1	8.2	8.2	8.7	8.6	8.6	10.5	8.6	11.3	14
2.5	2.1	2.3	19.7	19.0	19.4	2.4	2.4	2.4	11.9	12.1	12.1	29.6	24.5	30.1	15
196.8	176.1	196.4	796.3	793.5	794.4	252.2	251.8	249.0	762.3	766.9	763.1	424.2	429.4	417.2	16
183.1	163.5	183.3	748.5	744.7	745.9	243.2	243.0	240.2	723.1	728.1	723.9	394.0	398.8	387.2	17
6.6	6.1	6.6	38.9	38.7	38.9	7.1	7.3	7.1	25.5	24.5	25.5	25.7	25.5	25.6	18
4.7	4.5	4.7	11.0	10.9	11.1	2.6	2.6	2.6	9.0	8.8	8.9	5.2	4.9	5.4	19
1.4	1.2	1.3	6.7	6.5	6.6	1.5	1.5	1.4	6.5	6.1	6.2	7.7	7.6	7.6	20
7.5	6.1	7.3	32.9	32.2	32.1	6.7	6.6	6.6	26.9	26.3	26.1	16.2	16.2	16.4	21
4.3	3.8	4.2	23.0	22.9	23.0	4.7	4.5	4.5	19.0	18.8	18.6	12.1	11.9	12.2	22
4.4	3.5	4.2	18.9	20.8	18.8	6.3	6.3	6.3	18.3	20.5	18.3	30.3	30.7	29.5	23
103.8	96.5	101.5	456.5	449.8	449.4	102.1	106.7	105.5	358.1	365.5	366.4	329.6	312.4	329.7	24
1.1	1.1	1.1	9.1	9.5	9.6	1.5	1.6	1.6	7.8	7.9	8.1	5.0	4.8	5.1	25
2.4	2.5	2.4	13.3	14.5	14.4	2.0	2.1	2.1	9.3	9.9	10.0	5.0	4.8	5.1	26
7.0	6.4	6.7	30.3	31.8	31.7	4.5	4.6	4.6	26.1	26.7	26.2	12.0	12.4	12.0	27
10.5	10.2	10.2	39.9	39.2	39.4	10.4	10.5	10.4	29.6	29.2	29.6	17.6	17.4	17.9	28
13.7	12.6	13.1	47.8	48.8	48.5	9.0	8.8	8.8	39.3	38.9	39.3	30.2	30.6	30.0	29
30.6	28.5	30.9	128.3	128.6	128.5	38.7	39.5	39.1	98.1	99.9	100.4	81.1	79.7	81.8	30
1.7	1.6	1.6	11.4	11.3	11.8	2.6	2.7	2.6	9.4	9.4	9.5	19.9	15.1	20.1	31
2.0	1.7	2.0	11.3	11.1	11.3	1.5	1.5	1.5	8.8	8.9	8.9	10.4	7.9	10.4	32
4.7	4.2	4.7	25.9	27.1	27.2	5.1	5.2	5.2	26.0	25.2	26.5	12.2	11.3	11.9	33
3.4	3.2	3.2	14.4	14.5	15.0	1.9	1.9	1.9	10.1	10.1	10.4	12.1	10.2	11.8	34
51.9	46.6	50.3	264.6	262.7	262.5	58.8	60.2	59.7	211.4	205.7	210.3	200.5	189.9	201.6	35
3.9	3.3	3.8	17.8	17.1	17.0	4.2	4.2	4.2	15.3	15.2	15.3	8.9	8.8	9.4	36
11.2	8.8	11.1	43.2	42.2	42.1	21.6	22.1	22.0	41.2	39.8	40.6	26.4	26.7	26.7	37
1.6	1.5	1.6	8.7	8.5	8.6	1.3	1.3	1.3	10.4	10.5	10.6	3.7	3.3	3.6	38
3.7	3.3	3.5	11.8	11.8	11.8	2.7	2.7	2.7	11.7	11.9	12.1	6.1	5.6	6.0	39
2.2	1.8	2.1	13.0	12.4	12.5	2.1	2.1	2.1	10.9	10.6	10.6	10.3	8.9	10.2	40
62.2	58.2	63.8	226.2	227.2	226.8	48.6	48.5	48.1	174.0	173.0	173.5	187.6	172.1	187.0	41
1.4	1.4	1.5	5.5	5.6	5.8	.9	.8	.8	3.9	4.0	4.1	10.8	9.0	10.6	42
8.2	6.7	7.7	18.2	18.7	18.6	5.9	5.9	5.9	17.4	17.6	17.5	21.3	20.7	21.1	43
10.5	8.7	10.5	44.6	45.6	45.8	9.9	10.1	10.1	39.5	39.5	39.6	24.8	22.9	26.1	44
66.2	60.4	62.8	260.7	263.5	261.8	51.9	51.9	51.6	216.8	223.5	222.6	226.4	199.9	218.0	45
7.4	7.3	7.2	31.3	30.6	30.9	7.1	7.1	7.2	31.7	31.9	32.9	32.4	31.3	31.1	46
23.0	20.8	21.6	86.2	85.0	85.0	23.5	24.1	23.9	78.0	81.4	80.0	54.5	56.1	53.9	47
2.4	2.3	2.3	7.3	7.2	7.1	1.1	1.2	1.2	6.1	6.2	6.3	4.8	4.7	4.8	48
128.5	119.1	123.9	369.0	366.9	367.4	79.5	80.5	80.2	304.7	306.3	307.6	304.7	302.4	309.2	49
2.5	2.5	2.5	12.1	12.6	12.6	3.0	3.0	3.0	11.6	11.6	11.8	15.9	15.4	16.0	50
10.4	9.2	10.0	46.7	47.7	48.1	12.0	12.1	12.0	37.5	38.3	38.5	53.0	50.0	53.5	51
7.8	7.5	7.5	24.7	23.9	23.8	3.7	3.8	3.8	20.8	20.9	20.4	10.5	9.7	11.2	52
4.7	4.9	4.7	14.9	15.0	15.2	2.9	3.1	3.1	10.7	11.1	11.1	10.4	10.3	10.5	53
2.7	2.5	2.5	13.3	13.6	13.7	3.9	4.0	3.9	10.1	10.0	9.9	10.4	9.7	9.3	54
50.9	46.4	47.5	129.6	127.4	127.8	31.5	31.1	31.1	123.0	122.8	123.9	78.5	78.6	76.9	55
9.4	8.7	8.8	35.6	34.5	34.6	7.9	7.9	8.0	32.7	32.0	31.9	25.0	24.2	26.5	56
18.3	16.8	18.5	89.8	96.6	93.7	17.9	18.6	18.4	83.2	89.6	84.5	79.7	77.6	80.2	57
1.3	1.1	1.3	8.0	8.0	8.1	1.6	1.7	1.7	7.2	7.4	7.5	3.0	2.9	3.1	58
6.0	5.6	6.2	25.4	26.8	26.5	8.4	8.9	8.9	21.2	23.0	23.0	12.4	11.9	12.7	59
86.0	85.4	85.6	410.7	414.1	416.8	96.0	98.3	96.8	394.5	406.7	404.1	379.0	373.3	382.3	60
57.6	56.0	55.9	221.6	220.0	221.9	58.8	59.6	58.0	205.8	212.6	212.0	196.4	194.3	198.3	61
36.5	35.6	35.0	93.7	91.4	92.2	39.3	40.2	38.9	110.7	114.0	114.1	78.1	78.6	79.5	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		
		SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
1	<b>MASSACHUSETTS</b> .....	2,625.4	2,585.6	2,636.1	(1)	(1)	(1)	83.6	77.2	78.1	633.0	617.2	629.0
2	Boston .....	1,468.1	1,456.6	1,484.0	(1)	(1)	(1)	47.1	46.4	46.4	287.7	284.9	287.2
3	Brockton .....	56.4	54.7	56.3	(1)	(1)	(1)	1.6	1.7	1.6	11.6	11.2	11.2
4	Fall River .....	53.2	50.7	51.8	(1)	(1)	(1)	1.8	2.2	2.1	18.5	19.1	19.6
5	Lawrence—Haverhill .....	112.3	106.3	113.8	(1)	(1)	(1)	3.3	3.5	3.5	42.5	35.7	41.7
6	Lowell .....	79.9	80.7	81.5	(1)	(1)	(1)	2.8	2.5	2.5	30.7	33.0	33.0
7	New Bedford .....	63.5	64.0	64.4	(1)	(1)	(1)	1.7	1.7	1.7	24.3	24.6	24.7
8	Springfield—Chicopee—Holyoke .....	230.6	219.3	228.1	(1)	(1)	(1)	5.8	6.0	5.7	58.0	54.9	55.9
9	Worcester .....	159.7	154.8	158.8	(1)	(1)	(1)	5.1	5.1	5.1	43.0	40.9	41.1
10	<b>MICHIGAN</b> .....	3,190.8	3,165.9	3,235.7	9.9	11.0	10.8	94.9	96.8	97.6	886.2	871.8	915.6
11	Ann Arbor .....	131.2	124.8	136.1	(1)	(1)	(1)	1.9	2.0	2.1	34.2	29.4	34.9
12	Battle Creek .....	60.1	61.8	61.9	(1)	(1)	(1)	1.7	1.9	1.9	17.9	18.6	18.3
13	Bay City .....	32.2	32.4	32.8	(1)	(1)	(1)	.7	1.1	1.1	8.4	8.4	8.6
14	Benton Harbor .....	54.5	54.3	54.8	(1)	(1)	(1)	1.9	2.0	2.0	18.8	18.8	19.0
15	Detroit .....	1,547.1	1,530.3	1,570.5	1.2	1.0	.9	40.1	42.6	43.4	422.2	411.1	431.3
16	Flint .....	174.4	181.2	184.3	(1)	(1)	(1)	3.2	4.4	4.4	64.1	66.5	69.1
17	Grand Rapids .....	262.7	262.3	266.4	(1)	(1)	(1)	10.3	10.0	10.0	85.4	87.6	88.7
18	Jackson .....	46.9	45.5	45.9	(1)	(1)	(1)	1.1	1.3	1.3	12.1	10.5	10.8
19	Kalamazoo—Portage .....	105.7	101.8	105.4	(1)	(1)	(1)	3.3	3.1	3.3	31.5	31.1	31.2
20	Lansing—East Lansing .....	179.0	186.4	188.9	(1)	(1)	(1)	4.3	3.9	4.0	38.4	40.3	41.4
21	Muskegon—Norton Shores—Muskegon Hts .....	57.2	57.3	57.5	(1)	(1)	(1)	2.1	2.1	2.1	19.0	18.7	19.4
22	Saginaw .....	78.8	77.1	80.1	(1)	(1)	(1)	2.0	2.6	2.5	25.3	23.9	26.0
23	<b>MINNESOTA</b> .....	1,716.1	1,712.4	1,735.3	6.8	10.4	9.9	68.2	72.0	71.6	351.1	349.0	350.8
24	Duluth—Superior .....	53.8	52.9	52.6	(1)	(1)	(1)	1.8	1.4	1.6	5.2	4.8	4.8
25	Minneapolis—St. Paul .....	1,062.4	1,064.7	1,075.7	(1)	(1)	(1)	39.1	40.7	40.5	232.4	234.0	234.5
26	Rochester .....	51.8	52.7	52.5	(2)	(2)	(2)	1.7	1.7	1.6	10.2	10.5	10.3
27	St. Cloud .....	56.2	53.0	56.5	(1)	(1)	(1)	3.2	3.3	3.2	9.8	10.2	10.1
28	<b>MISSISSIPPI</b> .....	795.0	776.8	794.8	11.8	10.9	11.0	42.2	39.5	38.7	202.6	205.4	206.9
29	Jackson .....	145.9	143.6	146.7	2.1	2.0	2.0	5.8	7.1	6.7	16.5	16.2	16.3
30	<b>MISSOURI</b> .....	1,929.2	1,909.2	1,931.8	7.4	6.9	7.0	80.9	82.0	80.7	405.7	404.6	412.0
31	Kansas City .....	602.1	589.1	598.8	.5	.5	.5	20.3	22.1	22.1	108.1	107.3	110.3
32	St. Joseph .....	36.8	36.4	36.5	(2)	(2)	(2)	1.5	1.2	1.2	8.9	9.5	9.4
33	St. Louis .....	981.2	970.6	989.6	3.1	3.0	2.9	47.8	47.8	48.4	215.4	214.9	218.3
34	Springfield .....	88.3	89.9	91.9	(2)	(2)	(2)	3.4	4.1	3.9	17.5	18.2	18.3
35	<b>MONTANA</b> .....	275.9	266.2	272.0	9.3	7.0	7.0	13.9	12.9	12.9	20.6	21.0	20.9
36	<b>NEBRASKA</b> .....	605.6	592.6	597.5	1.8	1.7	1.6	22.9	21.8	21.3	83.7	83.2	83.7
37	Lincoln .....	96.9	92.8	95.0	(2)	(2)	(2)	2.9	2.8	2.7	12.0	11.6	11.6
38	Omaha .....	257.4	257.3	257.0	(2)	(2)	(2)	9.1	8.5	8.7	31.6	33.1	33.5
39	<b>NEVADA</b> .....	410.8	419.1	424.3	6.6	6.5	6.5	21.6	23.5	23.9	18.4	18.7	18.7
40	Las Vegas .....	229.5	235.2	238.1	.4	.4	.4	12.8	13.5	13.9	6.5	7.0	7.0
41	Reno .....	114.4	116.9	118.7	.6	.8	.8	5.4	6.3	6.3	7.7	7.8	7.8
42	<b>NEW HAMPSHIRE</b> .....	399.9	402.2	403.8	(2)	(2)	(2)	24.8	26.1	25.6	112.1	113.6	114.2
43	Manchester .....	76.3	76.2	77.5	(2)	(2)	(2)	3.4	3.3	3.2	16.7	17.2	17.1
44	Nashua .....	69.3	71.1	71.9	(2)	(2)	(2)	3.0	3.3	3.3	32.1	33.8	33.8
45	<b>NEW JERSEY</b> .....	3,099.2	3,123.2	3,123.2	2.3	2.3	2.3	114.3	114.3	113.7	728.1	711.0	717.7
46	Atlantic City .....	103.1	111.1	106.1	-	-	-	4.4	4.5	4.4	7.1	7.1	7.2
47	Camden <sup>a</sup> .....	346.4	347.0	346.5	.1	.1	.1	13.2	13.6	13.6	68.5	69.0	68.9
48	Hackensack <sup>b</sup> .....	400.3	396.2	397.7	(1)	(1)	(1)	14.4	13.8	13.6	104.9	99.8	100.8
49	Jersey City <sup>c</sup> .....	214.9	214.8	214.9	-	-	-	4.4	3.6	3.7	59.8	59.2	60.2
50	Long Branch—Asbury Park .....	169.1	174.5	171.6	(1)	(1)	(1)	6.6	7.6	7.3	23.7	23.1	23.3
51	New Bruns.—Perth Amboy—Sayreville <sup>d</sup> .....	293.0	290.2	291.8	(1)	(1)	(1)	10.3	9.7	9.4	82.5	76.6	77.0
52	Newark <sup>e</sup> .....	941.4	941.0	942.0	.9	.8	.8	32.7	30.1	29.9	229.4	226.6	227.8
53	Paterson—Clifton—Passaic <sup>f</sup> .....	184.9	189.1	189.4	(1)	(1)	(1)	7.2	8.0	8.1	62.9	62.9	63.7
54	Trenton .....	161.7	158.9	160.2	(1)	(1)	(1)	3.2	3.2	3.1	31.3	29.6	30.0
55	Vineland—Millville—Bridgeton .....	53.2	49.1	48.9	(1)	(1)	(1)	1.5	1.3	1.3	17.6	13.7	13.6
56	<b>NEW MEXICO</b> .....	477.7	482.3	487.1	24.6	20.8	20.8	32.6	37.6	37.0	34.6	33.8	34.5
57	Albuquerque .....	192.4	195.6	199.5	(1)	(1)	(1)	12.3	13.0	13.1	18.2	18.2	18.3
58	Las Cruces .....	31.0	31.8	33.4	(1)	(1)	(1)	1.6	2.3	2.3	3.3	3.0	3.3
59	<b>NEW YORK</b> .....	7,224.6	7,161.6	7,212.6	6.7	6.8	6.8	226.5	231.5	230.3	1,365.5	1,311.8	1,320.9
60	Albany—Schenectady—Troy .....	336.3	328.9	331.0	(1)	(1)	(1)	11.4	11.5	11.5	52.1	50.7	50.8
61	Binghamton .....	117.0	114.1	115.8	(1)	(1)	(1)	4.0	4.2	4.1	42.6	41.9	41.4
62	Buffalo .....	471.6	455.8	459.6	(1)	(1)	(1)	17.4	16.7	16.6	111.7	101.8	103.5

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			
SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	
120.5	93.5	118.8	577.4	575.6	580.2	170.8	178.2	175.2	685.0	691.9	699.1	355.1	352.0	355.7	1
71.5	60.2	70.3	318.2	316.4	323.1	118.1	124.7	123.1	447.9	448.7	456.2	177.6	175.3	177.7	2
3.7	2.9	3.7	15.6	15.4	15.6	2.3	2.3	2.3	10.6	10.6	10.9	11.0	10.6	11.0	3
1.7	1.2	1.6	11.6	10.7	10.8	3.1	2.6	2.6	10.0	9.0	8.9	6.5	5.9	6.2	4
4.6	3.3	4.8	22.1	22.9	23.1	4.3	4.5	4.5	20.0	21.5	21.1	15.5	14.9	15.1	5
3.1	2.5	2.9	16.6	16.3	16.3	2.2	2.3	2.3	13.5	13.2	13.5	11.0	10.9	11.0	6
2.2	1.7	2.1	12.3	12.2	12.1	2.0	2.2	2.2	10.8	11.5	11.3	10.2	10.1	10.3	7
9.0	6.1	8.4	48.7	46.4	47.6	13.7	13.8	13.7	49.6	48.0	50.0	45.8	44.1	46.8	8
7.3	6.5	7.0	34.4	33.1	33.7	10.6	10.7	10.5	37.2	37.4	39.2	22.1	21.1	22.2	9
139.6	121.2	136.4	697.0	691.6	690.9	151.6	152.8	151.5	659.0	661.9	663.1	552.5	558.8	569.7	10
3.2	2.9	2.8	20.4	20.1	20.2	3.9	4.2	4.2	25.7	25.6	25.7	41.9	40.6	46.2	11
2.2	2.1	2.1	10.1	11.0	11.2	4.1	4.1	4.1	12.0	12.3	12.4	12.1	11.9	12.0	12
1.6	1.5	1.5	8.6	8.9	8.9	1.3	1.2	1.3	6.8	6.5	6.6	4.8	4.8	4.9	13
2.0	1.8	2.0	10.9	10.8	10.7	1.9	1.9	1.9	11.6	11.6	11.4	7.3	7.3	7.8	14
73.1	61.7	70.9	351.7	345.2	347.1	87.6	89.2	88.8	354.5	360.5	362.3	216.8	219.0	225.7	15
6.3	5.5	5.6	38.8	39.7	40.0	6.2	6.3	6.3	29.0	30.5	30.8	26.8	28.2	28.2	16
11.2	9.9	11.3	64.6	64.5	65.4	10.9	10.9	10.9	50.7	50.4	51.1	29.6	29.0	29.0	17
5.0	5.0	5.1	9.6	9.5	9.5	1.6	1.6	1.6	9.6	9.5	9.5	7.9	8.0	8.0	18
3.8	3.3	3.6	22.1	21.7	21.9	4.0	4.0	4.0	21.7	21.3	21.1	19.4	17.3	20.3	19
5.2	5.1	5.1	35.4	35.8	36.6	9.4	9.6	9.6	31.3	32.4	32.3	55.0	59.3	59.8	20
2.9	2.9	2.9	11.1	11.3	11.3	1.5	1.5	1.5	11.1	11.5	11.1	9.5	9.3	9.3	21
4.5	3.2	4.5	17.3	17.4	17.2	3.9	3.7	3.6	14.6	14.6	14.7	11.3	11.7	11.5	22
95.6	84.3	94.7	437.2	441.0	442.3	98.4	99.3	99.0	384.1	394.3	395.7	274.7	262.1	271.4	23
5.2	5.3	5.3	14.8	14.5	14.6	2.0	2.1	2.1	14.1	13.9	14.0	10.7	10.8	10.3	24
60.4	53.2	59.7	264.0	265.5	267.4	73.4	73.7	73.5	250.3	254.4	256.6	142.7	143.2	143.5	25
1.9	1.9	1.9	10.2	10.2	10.1	1.5	1.5	1.5	21.0	21.6	21.5	5.3	5.3	5.6	26
3.4	3.2	3.3	15.4	15.8	15.9	2.0	2.1	2.1	10.9	10.5	10.8	11.5	8.0	11.2	27
39.7	36.6	38.7	163.3	163.1	163.0	33.0	33.2	33.1	122.5	119.7	122.9	179.8	168.4	180.5	28
10.2	9.0	9.9	34.9	34.7	34.7	11.4	11.3	11.3	30.9	30.2	31.0	34.1	32.9	34.8	29
131.3	120.0	120.7	463.5	461.9	461.8	109.0	108.0	107.2	411.6	419.0	417.9	319.8	306.8	324.5	30
49.6	43.9	48.6	155.4	157.3	156.4	43.5	44.6	44.0	136.9	134.6	133.5	87.8	78.8	83.4	31
2.2	1.8	1.9	8.9	9.0	9.0	2.0	2.1	2.1	7.5	7.2	7.1	5.8	5.6	5.8	32
69.1	60.7	69.3	229.9	229.0	229.4	58.3	58.7	58.1	227.0	229.5	229.5	130.6	127.0	133.7	33
6.9	7.1	7.2	24.3	25.0	25.2	3.7	3.7	3.7	20.6	21.6	22.1	11.9	10.2	11.5	34
21.7	18.9	20.3	74.9	73.7	72.4	12.9	13.1	13.0	57.2	55.3	54.6	65.4	64.2	70.7	35
44.1	40.0	39.6	156.8	155.3	155.3	41.2	42.0	41.6	124.8	123.3	123.8	130.3	125.4	130.6	36
6.9	6.5	6.5	21.0	20.0	20.4	7.0	7.2	7.1	17.9	18.3	18.5	29.1	26.4	28.1	37
22.9	21.2	20.9	66.6	66.4	65.8	23.8	24.3	24.0	63.1	63.8	63.3	40.3	40.0	40.7	38
24.8	23.4	24.2	80.9	84.2	84.1	17.9	18.6	18.7	182.5	190.0	190.3	58.1	54.2	57.9	39
13.8	13.5	13.6	45.8	47.5	47.3	10.2	10.8	10.8	112.3	117.1	117.5	27.7	25.4	27.6	40
8.0	7.5	7.9	24.7	25.8	26.1	6.0	6.2	6.2	45.5	47.1	47.1	16.5	15.4	16.5	41
14.8	12.1	15.1	90.4	92.1	90.9	21.1	21.2	21.1	81.3	84.9	82.3	55.4	52.2	54.6	42
5.0	4.0	5.3	20.0	20.3	20.5	6.3	6.4	6.4	16.1	16.7	16.6	8.8	8.3	8.4	43
2.1	1.7	2.1	13.5	13.9	14.0	2.1	2.1	2.1	11.0	11.3	11.2	5.5	5.0	5.4	44
197.6	183.3	202.5	709.3	717.3	717.3	167.4	170.5	168.6	673.0	702.7	691.0	507.3	521.8	510.1	45
4.6	4.3	4.8	20.3	22.3	20.9	4.8	4.9	4.9	45.9	50.6	47.1	16.1	17.4	16.8	46
15.9	14.1	15.7	90.9	90.3	91.4	17.2	17.9	17.6	73.7	74.3	73.0	66.9	67.7	66.2	47
21.0	20.0	21.4	121.2	120.3	120.5	19.1	19.9	19.7	79.0	80.5	80.0	40.8	41.9	41.7	48
24.8	23.6	24.2	45.4	44.0	45.2	8.0	8.2	8.1	33.5	32.5	33.4	39.0	43.7	40.1	49
6.6	5.7	6.8	43.4	45.7	44.6	8.2	8.4	8.2	46.3	49.0	47.6	34.4	35.0	33.8	50
24.9	23.3	24.9	71.4	70.6	71.6	13.5	14.2	14.2	46.9	49.0	48.4	43.4	46.8	46.3	51
74.6	69.4	75.3	182.7	183.9	185.2	67.6	67.9	67.3	209.7	214.6	213.5	143.9	147.7	142.2	52
6.8	6.2	6.9	40.2	41.3	41.6	9.6	9.5	9.3	34.7	35.5	35.2	23.6	25.7	24.6	53
5.5	4.3	5.3	24.9	25.1	25.5	8.0	8.3	8.2	41.7	41.3	41.1	47.1	47.1	47.0	54
2.7	2.5	2.7	9.3	8.8	8.8	2.7	2.7	2.7	9.0	9.1	9.2	10.4	11.0	10.6	55
30.2	28.1	29.4	111.4	114.2	114.2	21.9	23.2	23.1	95.9	101.0	98.3	126.5	123.6	129.8	56
12.2	10.9	11.8	48.4	49.6	50.0	11.1	11.6	11.6	47.3	49.9	50.1	42.9	42.4	44.6	57
1.3	1.1	1.2	5.9	6.5	6.5	1.2	1.3	1.3	3.9	4.4	4.3	13.8	13.2	14.5	58
425.0	344.0	414.1	1,459.1	1,457.7	1,464.6	674.6	688.2	685.0	1,819.8	1,860.4	1,853.0	1,247.5	1,261.2	1,238.0	59
15.1	11.8	14.2	67.2	67.0	67.1	16.6	16.7	16.5	76.0	77.7	76.5	97.9	93.5	94.4	60
4.6	4.1	4.5	21.2	21.1	21.3	4.0	4.0	4.0	19.5	19.5	19.7	21.2	19.2	20.8	61
26.2	21.7	24.9	108.4	106.5	107.3	22.6	22.9	22.8	105.7	103.5	106.1	79.6	82.8	78.4	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 areas	Total			Mining			Construction			Manufacturing		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>NEW YORK—Continued</b>												
1 Elmira	33.8	33.6	33.6	(1)	(1)	(1)	1.2	1.4	1.3	8.5	7.9	8.0
2 Monroe County <sup>7</sup>	341.9	330.6	332.4	(1)	(1)	(1)	10.0	9.1	8.8	138.3	126.5	126.9
3 Nassau—Suffolk <sup>8</sup>	943.9	953.6	955.1	(1)	(1)	(1)	38.4	39.1	38.7	167.7	167.2	167.7
4 New York—Northeastern New Jersey	6,770.9	6,747.7	6,793.0	2.4	2.3	2.3	213.2	212.7	211.7	1,258.5	1,219.8	1,227.2
5 New York and Nassau—Suffolk <sup>8</sup>	4,736.4	4,716.5	4,751.6	1.8	1.9	1.9	144.2	147.5	146.9	718.9	694.7	697.7
6 New York SMSA <sup>9</sup>	3,792.5	3,762.8	3,796.5	1.6	1.7	1.7	105.8	108.3	108.2	551.2	527.5	530.0
7 New York City <sup>9</sup>	3,338.2	3,317.7	3,347.3	1.4	1.4	1.4	85.0	87.7	87.4	462.5	441.6	444.7
8 Poughkeepsie	103.5	103.2	102.6	(1)	(1)	(1)	2.9	3.0	3.0	34.8	34.5	33.8
9 Rochester	418.3	405.8	408.8	(1)	(1)	(1)	12.2	11.3	11.1	158.0	146.3	147.2
10 Rockland County <sup>9</sup>	84.5	83.8	84.2	(1)	(1)	(1)	2.7	3.0	3.0	15.8	15.5	15.5
11 Syracuse	259.4	256.5	260.8	(1)	(1)	(1)	13.1	14.1	14.1	55.9	56.6	57.0
12 Utica—Rome	111.6	110.4	110.8	(1)	(1)	(1)	2.9	2.7	2.7	27.2	27.0	26.9
13 Westchester County <sup>9</sup>	357.0	348.6	352.7	(1)	(1)	(1)	17.3	16.9	17.1	71.6	69.0	68.4
<b>NORTH CAROLINA</b>												
14 Asheville	2,346.7	2,329.3	2,392.6	4.7	4.9	4.9	104.4	106.7	106.2	781.5	788.2	796.3
15 Charlotte—Gastonia	72.0	71.7	72.7	(1)	(1)	(1)	2.8	2.9	2.9	20.4	20.3	20.3
16 Greensboro—Winston-Salem—High Pt.	334.6	330.8	336.9	(1)	(1)	(1)	16.4	17.9	17.7	90.0	91.3	90.7
17 Raleigh—Durham	380.3	376.9	388.4	(1)	(1)	(1)	16.1	17.2	17.2	141.4	141.0	143.5
18	277.4	276.5	284.6	(1)	(1)	(1)	14.3	15.5	15.1	45.6	46.5	46.5
<b>NORTH DAKOTA</b>												
19 Fargo—Moorhead	254.1	252.2	256.3	8.0	7.5	7.5	18.9	20.5	19.7	15.4	14.7	15.5
20	61.2	58.9	61.4	(2)	(2)	(2)	2.9	2.8	2.7	4.7	4.3	4.6
<b>OHIO</b>												
21 Akron	4,153.3	4,085.6	4,158.7	31.0	29.8	30.0	147.3	139.4	140.4	1,100.5	1,089.3	1,106.9
22 Canton	253.0	249.1	255.3	(*)	(*)	(*)	8.1	7.9	7.9	68.3	67.7	68.0
23 Cincinnati	150.3	148.0	150.3	(*)	(*)	(*)	5.2	5.3	5.3	47.9	46.1	46.5
24 Cleveland	580.3	569.6	577.6	(*)	(*)	(*)	21.9	20.0	20.5	147.9	146.4	145.6
25 Columbus	846.0	827.4	837.0	(*)	(*)	(*)	26.9	26.4	26.5	222.3	211.1	215.0
26 Dayton	497.3	496.8	502.5	(*)	(*)	(*)	16.3	15.4	15.5	86.5	88.0	88.8
27 Toledo	338.9	330.8	339.7	(*)	(*)	(*)	10.2	9.8	9.9	87.6	86.6	88.8
28 Youngstown—Warren	285.2	279.5	287.5	(*)	(*)	(*)	11.8	10.9	10.8	70.1	70.5	72.0
29	182.4	181.3	186.4	(*)	(*)	(*)	5.9	5.4	5.4	52.8	54.3	56.8
<b>OKLAHOMA</b>												
30 Enid	1,229.9	1,195.7	1,214.2	100.8	79.8	77.4	59.8	53.4	52.9	174.3	170.3	171.2
31 Lawton	27.9	28.3	28.4	3.4	3.1	3.1	1.8	2.0	2.0	2.3	2.4	2.4
32 Oklahoma City	30.4	30.8	30.5	(1)	(1)	(1)	1.4	1.6	1.7	3.2	3.3	3.3
33 Tulsa	449.3	447.2	457.9	33.8	30.9	30.4	20.6	20.7	20.4	50.8	55.7	56.1
34	320.2	309.3	313.4	28.8	26.5	26.5	16.1	15.2	15.2	59.4	54.5	54.4
<b>OREGON</b>												
35 Eugene—Springfield	967.7	948.3	966.4	2.1	1.7	1.7	33.2	31.4	32.3	194.4	196.2	198.0
36 Medford	90.9	89.0	91.6	(1)	(1)	(1)	2.9	2.7	2.7	18.2	19.0	19.5
37 Portland	-	-	-	-	-	-	-	-	-	6.5	8.1	7.9
38 Salem	522.6	504.4	511.4	(1)	(1)	(1)	18.2	16.4	16.2	100.2	95.1	95.8
39	87.3	85.9	86.8	(1)	(1)	(1)	2.9	2.8	2.9	17.4	18.5	17.2
<b>PENNSYLVANIA</b>												
40 Allentown—Bethlehem—Easton	4,535.1	4,456.0	4,481.7	45.4	43.3	43.8	179.9	164.2	161.1	1,143.2	1,103.5	1,108.9
41 Altoona	250.9	247.5	246.5	(1)	(1)	(1)	7.7	7.2	7.0	91.6	88.6	87.9
42 Delaware Valley <sup>10</sup>	47.8	45.4	46.8	(1)	(1)	(1)	2.0	2.0	2.0	11.9	10.9	11.3
43 Erie	1,550.3	1,526.2	1,541.5	(1)	(1)	(1)	57.5	54.0	55.1	328.2	315.7	318.2
44 Harrisburg	107.2	104.8	104.4	(1)	(1)	(1)	3.0	2.6	2.6	37.3	34.9	34.8
45 Johnstown	219.2	222.7	222.9	(1)	(1)	(1)	7.8	7.1	6.9	39.7	40.5	40.8
46 Lancaster	76.1	74.5	75.1	6.9	6.5	6.4	2.5	2.5	2.5	13.5	12.9	12.7
47 Northeast Pennsylvania	148.5	148.2	149.4	(1)	(1)	(1)	5.9	6.0	5.9	55.4	55.3	56.0
48 Philadelphia SMSA	231.5	232.2	230.5	1.0	.7	.7	11.2	11.0	9.9	63.5	61.9	62.7
49 Philadelphia City <sup>11</sup>	1,904.9	1,873.0	1,888.0	(1)	(1)	(1)	70.6	67.6	68.7	396.3	384.5	387.2
50 Pittsburgh	753.8	739.1	742.1	(1)	(1)	(1)	18.1	17.6	17.9	114.8	111.2	113.3
51 Reading	869.9	847.5	846.0	8.9	7.9	7.9	44.2	42.4	41.1	180.6	167.8	166.1
52 Sharon	134.7	134.7	136.8	(1)	(1)	(1)	4.3	4.4	4.3	50.4	51.0	51.7
53 State College	41.4	39.1	39.0	(1)	(1)	(1)	1.1	1.0	1.0	12.1	10.3	10.4
54 Williamsport	44.6	44.2	45.9	-	-	-	1.4	1.3	1.2	7.2	7.0	7.2
55 York	44.4	42.3	42.7	(1)	(1)	(1)	1.3	1.2	1.2	15.0	13.6	13.7
56	150.4	147.9	150.5	(1)	(1)	(1)	6.1	5.9	5.6	59.5	57.6	58.2
<b>RHODE ISLAND</b>												
57 Providence—Warwick—Pawtucket	394.5	392.3	396.4	(1)	(1)	(1)	12.5	13.2	13.0	118.5	118.8	119.3
58	400.3	396.3	400.8	(1)	(1)	(1)	12.5	13.3	13.1	131.5	130.9	131.4
<b>SOUTH CAROLINA</b>												
59 Charleston—North Charleston	1,158.1	1,164.6	1,182.9	1.7	1.8	1.8	65.2	70.1	70.0	358.8	358.3	359.6
60 Columbia	150.8	150.8	152.5	-	-	-	11.1	10.6	10.6	19.5	19.7	19.8
61 Greenville—Spartanburg	181.4	178.5	181.8	-	-	-	9.0	10.5	10.4	25.8	25.5	25.9
62	257.3	253.6	262.0	-	-	-	16.2	15.0	14.4	96.4	95.8	95.4

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			
SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	
1.4	1.1	1.3	8.3	8.5	8.5	1.1	1.1	1.1	7.5	7.2	7.2	5.8	6.5	6.1	1
10.6	10.1	10.1	60.6	62.6	62.9	14.6	15.1	14.8	72.2	71.5	73.3	35.7	35.7	35.6	2
43.0	35.3	43.3	247.3	253.4	254.9	53.4	53.4	53.0	231.8	241.1	237.5	162.2	164.1	159.9	3
468.9	398.7	469.9	1,414.3	1,409.4	1,421.8	685.1	696.2	693.8	1,700.5	1,736.9	1,730.0	1,028.0	1,071.7	1,036.3	4
316.8	256.2	312.1	953.5	949.3	957.6	567.3	576.4	575.2	1,296.5	1,324.5	1,318.7	737.4	765.9	741.6	5
273.8	220.9	268.7	706.1	695.9	702.7	514.0	523.1	522.1	1,064.8	1,083.6	1,081.4	575.2	601.8	581.7	6
249.8	205.3	245.1	600.2	592.2	598.2	490.7	499.4	498.8	949.1	963.3	964.6	499.6	526.8	507.1	7
3.0	2.4	2.9	17.1	17.3	17.3	3.0	3.2	3.1	19.6	20.7	20.0	23.1	22.0	22.5	8
13.1	12.5	12.7	78.1	80.2	80.5	16.2	16.7	16.4	85.2	84.1	85.9	55.5	54.6	55.1	9
3.5	3.1	3.5	18.4	17.9	18.0	2.8	3.0	2.9	19.5	20.6	19.9	21.7	20.7	21.4	10
14.8	13.3	14.7	57.2	57.3	57.6	16.8	17.4	17.2	55.7	51.6	55.0	46.0	46.2	45.2	11
4.0	3.2	3.9	22.9	23.5	23.6	5.6	5.7	5.7	21.5	21.2	21.3	27.5	27.1	26.7	12
19.9	12.0	19.6	84.4	82.8	83.6	20.0	20.2	20.0	93.3	96.2	93.9	50.5	51.4	50.1	13
115.5	109.7	115.7	480.3	488.1	489.1	98.0	100.7	100.1	363.3	373.5	371.8	399.0	357.5	408.5	14
3.5	3.2	3.6	15.9	15.9	16.0	2.3	2.3	2.3	15.1	16.4	15.3	12.0	10.7	12.3	15
32.0	29.8	31.5	82.3	82.3	82.1	22.5	21.9	21.8	56.2	56.4	57.4	35.2	31.2	35.7	16
20.3	19.5	20.7	78.7	79.7	80.1	18.4	18.5	18.4	58.8	60.2	59.9	46.6	40.8	48.6	17
14.2	13.7	14.5	53.1	53.5	53.9	15.3	15.7	15.5	61.9	63.5	64.3	73.0	68.1	74.8	18
16.9	15.7	16.9	68.2	67.9	67.3	11.9	12.0	11.9	54.9	56.1	56.5	59.9	57.8	61.0	19
4.0	3.2	3.7	18.2	18.0	18.1	3.8	3.9	3.8	15.0	15.5	15.7	12.6	11.2	12.8	20
208.4	182.9	198.5	944.1	933.6	936.0	207.2	210.7	210.3	874.8	883.9	894.1	640.0	615.8	642.4	21
13.2	12.0	12.8	59.1	59.4	59.7	9.3	9.3	9.3	52.7	55.4	54.6	41.7	36.7	42.5	22
6.5	5.7	6.1	34.1	34.4	34.5	6.5	6.5	6.6	31.1	31.5	31.7	17.6	17.2	18.2	23
32.4	28.8	31.4	139.0	137.6	138.2	32.5	32.2	32.2	128.5	131.1	131.6	77.7	73.1	77.8	24
43.7	37.2	42.2	196.8	192.1	192.9	48.5	48.5	48.3	194.7	196.1	198.2	111.8	115.0	112.8	25
23.4	19.5	22.3	120.9	120.7	121.3	41.5	43.2	43.3	111.0	113.0	113.6	96.9	96.4	96.9	26
12.9	11.2	12.4	72.6	71.1	71.7	13.5	13.8	13.7	75.9	75.9	77.6	66.0	62.1	65.3	27
18.2	16.6	17.5	65.1	64.0	63.9	10.8	11.1	11.1	64.4	66.1	66.3	44.4	39.8	45.3	28
8.3	7.3	7.9	44.4	42.7	42.9	7.1	7.3	7.3	40.5	41.3	42.0	22.3	21.9	23.1	29
71.3	63.0	67.2	299.1	300.9	302.9	62.5	64.8	64.1	223.8	230.7	231.9	238.3	232.8	246.6	30
2.8	2.9	2.9	7.6	7.9	7.8	1.2	1.2	1.2	5.0	5.2	5.2	3.8	3.6	3.8	31
1.4	1.5	1.5	7.5	7.6	7.5	1.4	1.5	1.5	5.5	5.6	5.6	10.0	9.7	9.4	32
25.3	19.5	25.0	113.6	114.9	116.5	28.0	28.6	28.5	83.5	86.3	87.5	93.7	90.6	93.5	33
23.2	20.9	23.1	73.6	72.6	72.6	16.3	16.7	16.5	68.7	69.8	70.2	34.1	33.1	34.9	34
56.9	50.5	56.3	241.7	242.3	243.6	64.5	64.4	64.2	187.8	187.3	188.3	187.1	174.5	182.0	35
4.7	4.5	4.8	22.4	22.8	23.0	4.7	4.4	4.4	18.9	18.5	18.6	19.1	17.1	18.6	36
35.6	29.9	34.1	137.2	136.1	136.8	43.6	43.4	43.2	109.9	108.4	108.6	77.9	75.1	76.7	37
2.8	2.3	2.6	18.4	18.2	18.9	5.4	5.5	5.5	14.8	14.3	14.7	25.6	24.3	25.0	38
250.9	221.7	243.0	968.0	974.9	973.8	238.6	242.8	239.7	1,055.2	1,056.3	1,063.9	653.9	649.3	647.5	40
13.3	12.6	13.1	50.8	49.7	49.6	9.5	9.7	9.6	49.5	51.1	50.6	28.5	28.6	28.7	41
6.1	4.5	5.6	10.5	10.1	10.1	1.5	1.5	1.4	9.1	9.4	9.4	6.7	7.0	7.0	42
79.6	67.2	78.1	329.5	332.9	337.0	110.0	109.8	108.5	422.8	425.2	428.4	222.7	221.4	216.2	43
4.5	4.6	4.6	21.5	21.5	21.3	4.8	4.9	4.8	23.9	24.6	24.7	12.2	11.7	11.6	44
16.2	15.0	15.5	44.9	47.0	46.5	12.8	13.3	13.3	43.2	44.9	44.2	54.6	54.9	55.7	45
5.2	4.6	5.0	15.3	14.8	14.9	3.9	4.0	3.9	16.6	16.8	17.0	12.2	12.4	12.7	46
6.1	5.8	6.2	34.4	35.0	34.5	5.7	5.5	5.5	28.4	28.0	28.0	12.6	12.6	13.3	47
13.0	11.4	12.4	49.5	51.0	51.2	10.2	10.4	10.2	49.6	51.2	50.1	33.5	34.6	33.3	48
95.0	81.3	93.8	420.5	423.3	428.5	127.2	127.7	126.1	495.8	499.6	501.4	299.5	289.0	282.3	49
49.4	43.6	48.6	138.3	136.3	137.6	65.2	64.5	63.6	225.2	220.4	223.5	142.8	145.5	137.6	50
51.6	45.2	50.5	204.2	203.2	201.4	47.0	47.3	46.7	230.5	227.3	228.9	102.9	106.4	103.4	51
6.3	5.7	6.2	27.2	27.5	27.7	6.2	6.5	6.4	24.7	24.8	24.6	15.6	14.8	15.9	52
2.9	2.5	2.5	9.4	9.4	9.3	1.4	1.4	1.4	9.6	9.5	9.6	4.9	5.0	4.8	53
1.1	1.0	1.2	8.7	8.6	8.9	1.3	1.4	1.4	6.5	6.5	6.5	18.0	18.1	19.2	54
2.2	1.9	2.1	9.5	9.3	9.3	2.1	2.2	2.3	8.3	8.6	8.5	6.0	5.5	5.6	55
7.2	6.9	7.0	33.2	33.7	34.0	4.1	4.2	4.2	23.4	23.2	23.7	16.9	16.4	17.8	56
13.5	10.6	13.5	79.9	80.2	80.6	21.2	21.5	21.5	91.2	91.6	92.9	57.7	56.4	55.6	57
13.1	10.1	12.8	78.9	78.7	79.2	21.1	21.2	21.3	88.7	89.2	90.9	54.5	52.9	52.1	58
53.6	52.8	56.1	232.9	238.3	237.3	50.5	53.2	52.5	169.7	180.1	179.0	225.7	210.0	226.6	59
9.4	8.6	8.5	34.4	35.6	35.5	7.0	7.5	7.3	26.7	27.0	27.2	42.7	41.8	43.6	60
9.7	8.3	9.3	37.4	38.1	37.8	14.3	14.9	14.6	30.7	29.6	30.1	54.2	51.3	53.4	61
9.5	8.0	9.0	53.8	54.2	54.5	10.2	10.7	10.6	36.0	38.7	40.8	34.9	30.9	37.0	62



# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

## B-6. Employees on nonagricultural payrolls for States and selected areas by Industry division—Continued

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
1 SOUTH DAKOTA .....	232.1	234.4	237.8	1.6	3.0	2.9	8.7	10.1	10.3	24.8	26.7	26.8
2 Sioux Falls .....	55.1	54.8	56.3	(2)	(2)	(2)	2.2	2.6	2.6	8.0	8.7	8.7
3 TENNESSEE .....	1,686.4	1,681.1	1,704.1	10.2	8.6	8.8	71.9	69.2	68.9	465.5	474.6	477.4
4 Chattanooga .....	163.5	161.7	164.8	1.5	1.4	1.4	6.2	6.8	6.8	42.7	42.3	42.5
5 Knoxville .....	205.9	200.0	201.3	1.6	1.3	1.3	9.4	9.8	10.0	49.4	49.2	49.5
6 Memphis .....	348.0	340.5	345.1	.1	.2	.2	12.3	11.9	12.1	53.6	51.9	51.6
7 Nashville—Davidson .....	365.5	359.8	362.9	(1)	(1)	(1)	19.5	19.6	19.8	76.7	78.2	78.5
8 TEXAS .....	6,233.4	6,112.9	6,168.4	303.8	288.7	287.4	425.0	394.6	392.7	1,028.3	998.8	1,004.5
9 Abilene .....	59.4	59.9	60.5	5.0	5.1	5.1	3.5	3.6	3.6	6.4	6.1	6.0
10 Amarillo .....	76.8	77.7	79.7	(1)	(1)	(1)	3.5	3.2	3.2	10.3	11.0	11.0
11 Austin .....	267.9	262.3	272.3	(1)	(1)	(1)	14.0	15.2	15.3	33.5	33.4	33.6
12 Beaumont—Port Arthur—Orange .....	148.2	142.1	144.4	(1)	(1)	(1)	11.3	9.9	9.8	36.2	33.9	33.7
13 Brownsville—Harlingen—San Benito .....	60.2	58.2	59.1	(1)	(1)	(1)	4.0	3.2	3.3	9.4	8.8	8.8
14 Bryan—College Station .....	44.2	41.5	44.4	1.6	1.5	1.5	2.9	2.6	2.8	3.2	3.2	3.4
15 Corpus Christi .....	135.2	133.4	134.0	9.3	9.0	8.9	12.8	12.1	12.1	15.4	15.1	15.1
16 Dallas—Fort Worth .....	1,548.6	1,565.0	1,591.7	33.3	33.2	32.7	86.5	87.5	86.5	310.3	311.3	311.8
17 El Paso .....	165.1	164.9	164.5	(1)	(1)	(1)	8.1	7.9	7.8	37.3	38.5	38.2
18 Galveston—Texas City .....	69.4	66.7	68.5	(1)	(1)	(1)	4.4	4.8	5.1	11.6	10.4	10.6
19 Houston .....	1,583.8	1,527.5	1,544.4	105.1	105.2	104.3	143.5	136.4	135.4	250.3	223.9	223.7
20 Killeen—Temple .....	60.1	62.0	62.3	(1)	(1)	(1)	3.1	3.7	3.7	7.9	8.8	8.7
21 Laredo .....	32.3	29.0	28.8	(1)	(1)	(1)	1.8	1.2	1.2	1.8	1.7	1.6
22 Longview—Marshall .....	68.8	67.1	68.5	(1)	(1)	(1)	4.8	4.5	4.5	16.8	16.1	16.2
23 Lubbock .....	89.5	86.9	90.0	(1)	(1)	(1)	4.5	4.3	4.0	11.5	10.6	10.7
24 McAllen—Pharr—Edinburg .....	75.8	73.7	75.5	1.5	1.6	1.6	5.7	5.8	5.8	8.3	8.9	9.0
25 Midland .....	52.5	51.5	53.5	13.8	12.7	12.7	4.5	4.1	4.2	4.3	4.0	4.1
26 Odessa .....	59.5	55.0	56.3	8.0	8.0	8.3	6.9	5.2	5.1	7.6	6.1	6.1
27 San Angelo .....	36.6	35.5	35.6	.8	.7	.7	2.2	2.1	2.0	6.1	5.3	5.3
28 San Antonio .....	420.3	428.9	436.9	3.3	3.5	3.4	27.6	29.5	29.1	49.3	49.7	49.9
29 Sherman—Denison .....	34.6	33.7	33.6	.2	.2	.2	1.4	1.4	1.4	11.4	11.2	11.1
30 Texarkana .....	44.9	45.5	46.6	.2	.2	.2	1.9	2.5	2.6	8.4	8.3	8.5
31 Tyler .....	54.8	55.7	56.5	3.3	3.1	3.1	2.4	2.6	2.5	10.9	10.8	10.9
32 Waco .....	70.2	71.3	72.8	(1)	(1)	(1)	3.5	4.0	3.8	14.2	15.1	15.2
33 Wichita Falls .....	53.4	53.0	53.8	3.5	3.3	3.2	2.2	2.1	2.2	9.0	9.1	9.1
34 UTAH .....	564.7	559.3	572.4	17.1	14.3	14.2	29.8	29.7	29.3	84.7	86.5	87.0
35 Salt Lake City—Ogden .....	395.7	396.6	401.8	5.9	5.8	5.9	19.5	19.6	19.3	58.6	60.2	60.2
36 VERMONT .....	204.2	204.7	208.1	.7	.8	.8	11.4	12.7	12.6	49.3	49.1	48.8
37 Burlington <sup>12</sup> .....	60.9	60.1	61.6	-	-	-	-	-	-	15.8	15.9	15.8
38 Springfield <sup>13</sup> .....	13.9	13.2	13.4	-	-	-	-	-	-	5.2	4.5	4.4
39 VIRGINIA .....	2,139.0	2,147.8	2,179.6	22.2	21.4	21.5	102.8	111.4	110.1	400.0	405.0	410.2
40 Bristol .....	27.1	26.6	26.5	(1)	(1)	(1)	.9	1.0	1.0	9.1	8.3	8.4
41 Lynchburg .....	69.0	68.4	69.1	(1)	(1)	(1)	2.6	2.8	2.8	26.4	26.3	26.7
42 Newport News—Hampton .....	153.2	159.8	158.5	(1)	(1)	(1)	6.2	6.4	6.6	37.1	39.9	39.4
43 Norfolk—Virginia Beach—Portsmouth .....	291.4	299.4	301.5	(1)	(1)	(1)	16.8	19.2	19.6	28.0	25.9	26.0
44 Northern Virginia <sup>15</sup> .....	474.2	492.7	497.1	.5	.6	.6	24.6	28.4	28.1	22.3	24.5	24.9
45 Petersburg—Colonial Hgts.—Hopewell .....	43.6	42.3	42.0	(1)	(1)	(1)	1.9	2.1	2.1	9.3	8.1	7.7
46 Richmond .....	324.1	320.4	328.9	.3	.3	.3	15.9	16.2	16.1	55.2	54.1	55.8
47 Roanoke .....	101.8	104.5	106.1	.1	.1	.1	5.1	5.4	5.4	19.9	20.3	20.5
48 WASHINGTON .....	1,582.7	1,570.2	1,595.7	3.1	2.9	2.8	78.4	81.1	81.0	294.5	278.1	279.9
49 WEST VIRGINIA .....	605.3	591.4	588.9	57.9	50.7	50.7	29.8	28.9	28.3	97.7	91.9	92.8
50 Charleston .....	108.6	103.2	103.4	5.3	4.4	4.4	5.7	5.6	5.5	16.1	13.8	13.8
51 Huntington—Ashland .....	96.5	93.5	93.0	1.0	.9	.9	5.4	5.1	5.0	20.9	19.2	19.3
52 Parkersburg—Marietta .....	57.7	55.8	56.3	1.5	1.1	1.1	3.5	3.5	3.3	15.4	15.0	15.1
53 Wheeling .....	62.0	58.2	58.2	4.9	2.7	2.7	2.8	2.7	2.6	9.3	8.4	8.4
54 WISCONSIN .....	1,882.6	1,851.3	1,872.0	2.1	2.5	2.4	55.5	53.9	54.7	503.8	489.6	496.3
55 Appleton—Oshkosh .....	121.1	121.1	122.3	(1)	(1)	(1)	4.7	4.1	4.4	43.8	44.8	44.7
56 Eau Claire .....	47.8	46.7	48.5	(1)	(1)	(1)	1.2	1.2	1.2	8.7	9.0	9.0
57 Green Bay .....	80.0	79.6	81.6	(1)	(1)	(1)	3.3	3.2	3.3	22.0	22.3	21.9
58 Janesville—Beloit .....	49.2	46.7	50.7	(1)	(1)	(1)	1.1	.9	1.1	17.4	15.5	16.0
59 Kenosha .....	43.1	41.8	42.6	(1)	(1)	(1)	1.5	1.4	1.5	17.6	17.9	18.0
60 La Crosse .....	45.7	44.9	46.1	(1)	(1)	(1)	1.1	1.1	1.1	10.1	10.0	9.7
61 Madison .....	170.8	169.8	172.1	(1)	(1)	(1)	5.1	5.3	5.4	19.8	19.8	19.6
62 Milwaukee .....	626.0	602.1	607.6	(1)	(1)	(1)	15.6	13.8	14.3	167.2	154.1	155.7
63 Racine .....	61.7	60.1	61.1	(1)	(1)	(1)	1.7	1.3	1.3	23.0	22.7	23.4

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			
SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	
12.6	11.2	12.3	62.7	64.1	63.5	12.0	12.1	12.1	54.1	54.7	54.0	55.6	52.5	55.9	1
4.6	3.9	4.4	15.3	15.8	15.4	4.1	4.2	4.2	14.3	13.9	14.3	6.6	5.7	6.7	2
82.8	80.5	83.6	366.0	364.6	367.2	79.6	80.4	80.1	318.3	321.9	319.9	292.1	281.3	298.2	3
7.5	6.9	7.1	35.6	36.3	36.6	9.9	10.7	10.8	28.5	28.6	28.3	31.6	28.7	31.3	4
8.4	7.6	7.6	45.5	45.0	44.7	9.0	8.2	8.2	39.2	37.4	37.3	43.4	41.5	42.7	5
26.2	24.7	25.4	94.5	95.0	95.0	19.5	20.3	20.2	79.5	78.8	79.1	62.3	57.7	61.5	6
19.2	18.1	18.8	88.5	84.1	85.3	25.2	25.2	25.0	76.7	75.3	75.4	59.7	59.2	60.0	7
381.9	341.4	382.5	1,542.6	1,539.4	1,539.7	366.3	375.3	374.3	1,166.9	1,167.6	1,169.8	1,018.6	1,007.1	1,017.5	8
3.3	3.1	3.3	15.1	15.9	15.8	3.1	3.2	3.2	13.6	13.8	13.7	9.4	9.1	9.8	9
6.5	5.9	6.6	23.4	24.3	24.4	4.0	4.2	4.3	16.8	16.9	16.9	12.3	12.2	13.3	10
8.0	5.7	7.8	60.0	62.0	62.3	17.4	17.3	17.3	54.6	54.6	54.8	80.4	74.1	81.2	11
12.3	11.7	12.7	33.7	34.1	34.1	5.8	5.7	5.7	28.6	28.7	28.6	20.3	18.1	19.8	12
3.6	3.2	3.5	17.7	17.6	17.5	3.0	3.0	3.0	10.5	10.7	10.8	12.0	11.7	12.2	13
1.9	2.1	2.0	9.3	9.0	9.2	1.8	1.9	1.9	6.0	5.8	5.9	17.5	15.4	17.7	14
7.8	6.3	7.4	32.7	33.3	32.6	6.4	6.5	6.4	24.5	24.3	24.5	26.3	26.8	27.0	15
97.5	88.8	98.8	418.3	429.1	430.5	118.0	122.2	122.4	302.9	320.7	323.6	181.8	172.2	185.4	16
10.7	9.8	10.4	41.1	40.0	39.6	7.8	7.8	7.8	27.1	27.5	27.4	33.0	33.4	33.3	17
6.5	6.2	6.5	13.0	13.4	13.1	4.5	4.4	4.5	11.2	11.3	11.2	18.2	16.2	17.5	18
109.8	98.3	108.5	377.4	365.7	366.7	100.6	103.3	102.5	323.5	325.5	326.9	173.6	169.2	176.4	19
3.2	3.1	3.1	13.7	13.9	13.9	2.2	2.3	2.3	11.1	11.3	11.4	18.9	18.9	19.2	20
3.4	3.2	3.3	10.7	9.4	9.3	1.5	1.5	1.5	6.4	5.8	5.7	6.7	6.2	6.2	21
3.7	3.5	3.9	17.0	17.2	17.3	2.8	2.9	2.9	16.1	15.7	15.8	7.6	7.2	7.9	22
4.7	4.0	4.8	25.8	26.0	26.2	5.0	5.2	5.2	17.5	17.6	18.3	20.5	19.2	20.8	23
2.8	2.3	2.6	24.3	22.3	22.5	3.0	3.2	3.2	9.9	9.8	10.0	20.3	19.8	20.8	24
3.1	2.6	3.2	10.9	11.6	11.7	3.2	3.6	3.6	8.1	8.8	9.1	4.6	4.1	4.9	25
3.1	2.4	2.8	16.4	15.1	15.3	2.3	2.4	2.4	8.5	8.6	8.7	6.7	7.2	7.6	26
3.8	3.7	3.7	8.8	8.9	8.8	1.4	1.5	1.5	7.2	7.4	7.3	6.3	5.9	6.3	27
18.2	15.3	19.1	108.8	114.5	114.5	29.0	30.0	29.8	90.2	94.1	94.5	93.9	92.3	96.6	28
2.3	2.2	2.3	7.3	7.1	7.0	1.2	1.2	1.2	5.9	5.7	5.7	4.9	4.7	4.7	29
2.2	2.1	2.1	10.7	11.2	11.2	1.6	1.6	1.6	7.4	7.4	7.5	12.5	12.2	12.9	30
2.7	2.5	2.8	14.2	15.0	15.0	3.0	3.2	3.2	11.0	11.2	11.1	7.3	7.3	7.9	31
3.4	2.9	2.9	17.3	17.6	17.8	4.4	4.6	4.6	16.0	15.7	16.6	11.4	11.4	11.9	32
3.1	2.9	3.0	13.3	13.5	13.5	2.5	2.6	2.6	9.0	9.3	9.3	10.8	10.2	10.9	33
36.3	33.5	36.2	133.0	133.1	133.6	26.8	27.5	27.6	110.8	111.4	113.7	126.0	123.4	130.9	34
28.2	26.2	28.5	97.3	96.7	96.9	21.7	22.4	22.6	74.8	77.6	77.5	89.7	88.0	91.0	35
8.8	7.8	9.0	43.7	44.0	44.4	8.3	9.0	8.8	47.7	48.8	48.9	34.3	32.5	34.8	36
2.4	2.3	2.5	13.1	12.6	12.9	-	-	-	13.6	13.4	14.1	-	-	-	37
.7	.6	.7	2.3	2.4	2.5	-	-	-	2.8	2.9	2.8	-	-	-	38
117.2	106.6	117.6	457.9	464.8	464.7	106.6	111.4	110.0	432.4	444.5	441.2	499.8	482.6	504.3	39
1.1	1.1	1.1	6.4	6.7	6.6	.9	1.0	1.0	3.7	3.5	3.6	5.0	4.9	4.8	40
2.7	2.5	2.7	11.9	12.3	12.2	3.4	3.5	3.5	12.3	12.1	11.9	9.7	8.9	9.4	41
5.1	4.4	4.9	31.6	33.1	33.3	4.6	4.9	4.7	30.9	33.0	32.0	37.7	38.0	37.6	42
19.6	18.9	20.7	71.2	75.2	74.8	14.7	15.4	15.2	63.2	64.6	64.7	77.8	80.2	80.7	43
33.3	32.2	35.3	108.5	115.2	115.4	29.2	31.1	30.6	134.4	139.3	138.7	121.3	121.6	123.6	44
1.3	1.0	1.1	8.3	8.4	8.4	1.2	1.2	1.2	7.2	7.5	7.5	14.5	14.0	14.0	45
19.6	15.7	19.0	76.6	78.6	78.6	26.9	27.5	27.5	60.3	61.5	61.5	69.3	66.6	70.2	46
9.7	8.7	9.7	24.9	26.1	26.2	6.0	6.2	6.2	21.5	22.3	22.3	14.7	15.4	15.7	47
91.8	86.4	90.9	389.1	397.9	401.3	91.0	93.5	93.2	324.2	329.7	333.7	310.6	300.6	312.9	48
41.4	35.4	39.2	129.1	127.6	127.7	22.0	21.9	21.8	104.4	101.8	102.8	123.1	133.2	125.6	49
9.1	6.9	8.5	25.8	25.5	25.4	5.0	4.8	4.8	21.7	21.2	21.0	19.9	21.1	20.0	50
8.6	7.4	7.9	23.7	23.0	23.0	3.6	3.6	3.4	15.5	15.5	15.4	17.8	19.0	18.0	51
2.3	2.0	2.2	13.2	12.5	12.5	2.1	2.1	2.1	10.5	10.4	10.7	9.2	9.3	9.2	52
3.7	3.2	3.5	14.8	14.6	14.6	2.9	2.8	2.8	14.7	14.3	14.4	8.9	9.5	9.2	53
87.8	76.3	85.0	434.5	438.3	436.0	97.6	99.7	98.8	389.4	394.0	394.0	311.9	297.0	304.8	54
4.2	3.5	4.2	25.3	25.3	25.3	5.8	6.1	6.0	22.0	22.3	22.3	15.4	15.0	15.4	55
2.7	2.3	2.6	12.9	13.2	13.6	1.7	1.7	1.7	9.8	10.0	9.8	10.9	9.2	10.5	56
6.2	6.0	6.3	20.2	20.3	21.1	2.6	2.7	2.6	15.8	16.1	16.6	9.9	9.1	9.9	57
2.6	2.6	2.8	10.8	11.0	10.9	1.4	1.4	1.4	9.1	9.0	9.1	6.8	6.4	6.7	58
1.3	1.1	1.2	8.1	7.7	7.6	1.0	1.0	1.0	7.7	7.3	7.5	5.9	5.5	5.8	59
1.9	1.8	1.9	12.1	12.2	12.6	1.1	1.1	1.1	12.1	12.6	12.7	7.3	6.0	7.0	60
6.5	5.4	6.3	37.5	37.6	38.2	13.7	13.8	13.5	33.9	34.4	34.7	54.4	53.5	54.4	61
33.1	28.8	32.4	138.9	139.3	138.2	40.9	40.9	40.6	150.4	150.6	152.4	79.9	74.5	74.0	62
2.4	2.1	2.5	13.0	12.7	12.7	2.3	2.3	2.2	11.2	11.2	11.1	8.1	7.9	8.0	63

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
1 WYOMING .....	221.7	214.6	219.2	37.7	37.4	37.5	19.4	24.7	24.2	9.1	9.6	9.5
2 PUERTO RICO .....	619.3	615.0	619.9	.8	.7	.8	22.7	20.8	22.2	138.7	141.7	144.4
3 Caguas .....	25.9	25.7	25.7	(*)	(*)	(*)	(*)	(*)	(*)	8.7	8.5	8.5
4 Mayaguez .....	35.6	36.7	36.3	(*)	(*)	(*)	(*)	(*)	(*)	13.2	13.8	13.7
5 Ponce .....	44.9	42.8	42.9	(*)	(*)	(*)	2.6	2.9	2.8	10.1	8.5	8.9
6 San Juan .....	322.6	315.9	320.0	(1)	(1)	(1)	16.1	13.7	15.0	31.7	31.0	32.0
7 VIRGIN ISLANDS .....	35.5	35.6	34.2	(2)	(2)	(2)	3.5	2.8	2.7	2.6	2.3	2.4

# 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			
SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	
17.3	16.2	16.1	49.3	48.0	47.3	7.7	7.6	7.5	34.6	32.7	31.9	46.6	38.4	45.2	1
13.4	13.7	14.6	103.9	100.9	100.7	28.6	29.2	29.0	82.4	79.8	80.8	228.8	228.2	227.5	2
(*)	(*)	(*)	4.9	4.9	4.9	(*)	(*)	(*)	(*)	(*)	(*)	8.7	8.7	8.6	3
(*)	(*)	(*)	4.7	4.9	4.9	(*)	(*)	(*)	(*)	(*)	(*)	12.8	12.9	12.9	4
(*)	(*)	(*)	6.8	6.9	6.6	(*)	(*)	(*)	7.2	6.5	6.6	15.6	15.1	15.1	5
10.5	10.9	11.6	66.0	63.4	63.7	21.9	22.5	22.5	56.4	55.3	56.2	120.1	119.1	118.8	6
2.2	2.2	2.2	6.7	6.4	6.4	1.5	1.5	1.4	5.6	5.7	5.4	13.4	14.7	13.7	7

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

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

<sup>3</sup> Area included in Chicago—Gary Standard Consolidated Statistical Area.

<sup>4</sup> Subarea of Baltimore Standard Metropolitan 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> Total includes data for industry divisions not shown separately.

<sup>13</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.

NOTE: All State and area data have been adjusted to March 1982 benchmarks except Alaska and Wisconsin.

SOURCE: Cooperating State agencies listed on inside back cover.



# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
-	<b>TOTAL PRIVATE</b> .....	\$270.05	\$270.31	\$281.08	\$286.28	\$287.70	\$7.76	\$7.79	\$7.94	\$8.11	\$8.15
-	<b>MINING</b> .....	461.58	459.22	481.66	489.19	492.59	10.99	10.96	11.28	11.35	11.35
10	<b>METAL MINING</b> .....	448.57	452.86	500.15	503.79	-	12.53	12.51	12.63	12.69	-
101	Iron ores .....	527.41	497.88	458.28	454.10	-	13.42	13.42	12.06	11.95	-
102	Copper ores .....	480.74	497.66	521.38	511.82	-	13.28	12.96	13.10	13.09	-
11, 12	<b>COAL MINING</b> .....	499.97	506.46	562.14	564.17	-	13.02	12.92	13.88	13.93	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	501.50	508.42	565.15	565.79	-	13.06	12.97	13.92	13.97	-
13	<b>OIL AND GAS EXTRACTION</b> .....	458.67	454.22	461.97	469.92	-	10.52	10.49	10.62	10.68	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	514.68	497.12	514.92	530.37	-	12.11	11.95	12.26	12.45	-
138	Oil and gas field services .....	437.91	435.93	437.47	445.77	-	9.93	9.93	9.92	9.95	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	395.08	393.16	414.78	421.20	-	9.02	9.08	9.30	9.36	-
142	Crushed and broken stone .....	336.30	388.47	400.00	404.93	-	8.72	8.71	8.63	8.88	-
-	<b>CONSTRUCTION</b> .....	433.21	440.75	449.92	454.80	447.52	11.74	11.88	11.84	12.00	12.03
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	387.66	393.11	393.52	399.53	-	10.68	10.77	10.55	10.74	-
152	Residential building construction .....	355.22	355.77	355.51	367.37	-	9.84	9.91	9.74	10.01	-
153	Operative builders .....	313.75	315.93	378.35	355.60	-	8.39	8.38	8.84	8.89	-
154	Nonresidential building construction .....	420.12	428.78	431.65	433.05	-	11.51	11.62	11.48	11.58	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	467.95	474.76	497.25	499.34	-	11.64	11.81	12.04	12.12	-
161	Highway and street construction .....	429.95	434.36	464.58	467.18	-	10.41	10.62	10.68	10.99	-
162	Heavy construction, except highway .....	484.34	492.37	512.55	515.10	-	12.20	12.34	12.75	12.75	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	439.62	448.00	458.19	463.96	-	12.28	12.41	12.35	12.54	-
171	Plumbing, heating, air conditioning .....	455.12	470.35	472.53	479.18	-	12.51	12.61	12.37	12.61	-
172	Painting, paper hanging, decorating .....	388.47	397.44	411.90	419.27	-	11.26	11.23	11.41	11.55	-
173	Electrical work .....	506.74	521.73	550.18	540.26	-	13.77	13.95	14.18	14.18	-
174	Masonry, stonework, and plastering .....	414.18	416.58	429.55	435.23	-	12.04	12.11	12.10	12.26	-
175	Carpentering and flooring .....	381.82	386.92	403.55	413.35	-	11.33	11.38	11.53	11.81	-
176	Roofing and sheet metal work .....	361.26	367.41	381.01	383.78	-	10.72	11.10	10.98	11.06	-
-	<b>MANUFACTURING</b> .....	334.15	333.84	353.36	363.12	362.64	8.59	8.56	8.79	8.90	8.91
24, 25, 32-39	<b>DURABLE GOODS</b> .....	357.63	357.90	360.14	391.52	391.11	9.17	9.13	9.34	9.48	9.47
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	304.15	301.08	319.59	324.81	323.99	7.84	7.80	8.05	8.10	8.12
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	296.06	289.93	319.46	318.30	316.33	7.65	7.57	7.83	7.84	7.83
241	Logging camps and logging contractors .....	407.00	392.06	421.63	413.03	-	10.33	10.21	10.31	10.30	-
242	Sawmills and planing mills .....	304.15	297.21	337.01	336.19	-	7.84	7.76	8.16	8.16	-
2421	Sawmills and planing mills, general .....	321.31	313.73	357.76	355.18	-	8.26	8.17	8.60	8.60	-
2426	Hardwood dimension and flooring .....	206.66	208.21	221.90	227.51	-	5.34	5.38	5.52	5.59	-
243	Millwork, plywood, and structural members .....	250.61	284.57	312.53	314.88	-	7.49	7.43	7.66	7.68	-
2431	Millwork .....	296.40	293.31	327.44	331.47	-	7.60	7.54	7.89	7.93	-
2434	Wood kitchen cabinets .....	253.34	252.08	281.64	283.85	-	6.72	6.74	6.92	6.94	-
2435	Hardwood veneer and plywood .....	225.41	225.88	250.51	251.74	-	5.87	5.96	6.14	6.14	-
2436	Softwood veneer and plywood .....	370.00	347.90	375.46	375.06	-	9.25	9.06	9.41	9.40	-
244	Wood containers .....	214.12	211.25	216.45	219.91	-	5.62	5.53	5.55	5.61	-
245	Wood buildings and mobile homes .....	248.42	251.84	272.56	269.96	-	6.66	6.68	6.78	6.80	-
2451	Mobile homes .....	245.43	249.38	276.85	274.51	-	6.58	6.65	6.82	6.88	-
249	Miscellaneous wood products .....	247.02	247.40	264.52	265.98	-	6.35	6.36	6.58	6.60	-
25	<b>FURNITURE AND FIXTURES</b> .....	241.28	243.20	267.47	271.22	273.24	6.40	6.40	6.67	6.73	6.73
251	Household furniture .....	219.48	222.22	242.35	244.55	-	5.90	5.91	6.12	6.16	-
2511	Wood household furniture .....	197.64	203.42	222.32	222.72	-	5.40	5.41	5.60	5.61	-
2512	Upholstered household furniture .....	231.21	235.21	251.81	257.54	-	6.30	6.32	6.49	6.57	-
2514	Metal household furniture .....	252.60	249.15	260.90	268.06	-	6.30	6.26	6.49	6.57	-
2515	Mattresses and bedspreads .....	252.40	242.88	288.35	279.97	-	6.59	6.60	7.05	7.07	-
252	Office furniture .....	234.00	258.62	304.29	306.29	-	6.94	6.86	7.35	7.31	-
253	Public building and related furniture .....	283.10	280.30	295.71	296.61	-	6.84	6.99	7.23	7.36	-
254	Partitions and fixtures .....	309.68	308.11	328.84	341.55	-	7.84	7.84	8.18	8.29	-
259	Miscellaneous furniture and fixtures .....	276.75	279.66	306.18	303.73	-	7.06	7.08	7.36	7.39	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
-	<b>TOTAL PRIVATE</b> .....	34.8	34.7	35.4	35.3	35.3	-	-	-	-	-
-	<b>MINING</b> .....	42.0	41.9	42.7	43.1	43.4	-	-	-	-	-
10	<b>METAL MINING</b> .....	35.8	36.2	39.6	39.7	-	-	-	-	-	-
101	Iron ores .....	35.3	37.1	38.0	38.0	-	-	-	-	-	-
102	Copper ores .....	36.2	36.4	39.8	39.1	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	38.4	39.2	40.5	40.5	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	38.4	39.2	40.6	40.5	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	43.6	43.3	43.5	44.0	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	42.5	41.6	42.0	42.6	-	-	-	-	-	-
138	Oil and gas field services .....	44.1	43.9	44.1	44.6	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	43.8	43.3	44.6	45.0	-	-	-	-	-	-
142	Crushed and broken stone .....	44.3	44.6	45.3	45.6	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	36.9	37.1	38.0	37.9	37.2	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.3	36.5	37.3	37.2	-	-	-	-	-	-
152	Residential building construction .....	36.1	35.9	36.5	36.7	-	-	-	-	-	-
153	Operative builders .....	37.4	37.7	42.8	40.0	-	-	-	-	-	-
154	Nonresidential building construction .....	36.5	36.9	37.6	37.4	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	40.2	40.2	41.3	41.2	-	-	-	-	-	-
161	Highway and street construction .....	41.5	40.9	43.5	42.9	-	-	-	-	-	-
162	Heavy construction, except highway .....	39.7	39.9	40.2	40.4	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	35.8	36.1	37.1	37.0	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	36.7	37.3	38.2	38.0	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	34.5	34.5	36.1	36.3	-	-	-	-	-	-
173	Electrical work .....	36.8	37.4	38.8	38.1	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	34.4	34.4	35.5	35.5	-	-	-	-	-	-
175	Carpentering and flooring .....	33.7	34.0	35.0	35.0	-	-	-	-	-	-
176	Roofing and sheet metal work .....	35.7	33.1	34.7	34.7	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	38.9	39.0	40.2	40.6	40.7	2.5	2.3	3.2	3.5	3.4
24, 25, 32-39	<b>DURABLE GOODS</b> .....	39.0	39.2	40.7	41.3	41.3	2.2	2.1	3.1	3.6	3.5
20-23, 28-31	<b>NONDURABLE GOODS</b> .....	38.8	38.6	39.7	40.1	39.9	2.9	2.7	3.3	3.5	3.3
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	38.7	38.3	40.8	40.6	40.4	2.5	2.3	3.5	3.5	-
241	Logging camps and logging contractors .....	39.4	38.4	40.9	40.1	-	3.2	2.7	3.7	4.0	-
242	Sawmills and planing mills .....	38.8	38.3	41.3	41.2	-	3.2	2.9	4.0	3.0	-
2421	Sawmills and planing mills, general .....	36.9	38.4	41.6	41.3	-	3.4	3.1	4.2	4.0	-
2428	Hardwood dimension and flooring .....	38.7	38.7	40.2	40.7	-	2.2	2.2	3.1	3.7	-
243	Millwork, plywood, and structural members .....	38.8	38.3	40.8	41.0	-	2.2	2.0	3.8	3.8	-
2431	Millwork .....	39.0	38.9	41.5	41.8	-	1.5	1.6	3.5	3.6	-
2434	Wood kitchen cabinets .....	37.7	37.4	40.7	40.9	-	1.4	1.1	3.9	3.8	-
2435	Hardwood veneer and plywood .....	38.4	37.9	40.8	41.0	-	2.2	2.2	3.6	3.7	-
2436	Softwood veneer and plywood .....	40.0	38.4	39.9	39.9	-	3.8	3.2	3.9	3.8	-
244	Wood containers .....	38.1	38.2	39.0	39.2	-	2.1	1.9	2.2	3.4	-
245	Wood buildings and mobile homes .....	37.3	37.7	40.2	39.7	-	1.5	1.6	3.0	3.8	-
2451	Mobile homes .....	37.3	37.5	40.6	39.9	-	1.6	1.6	3.1	3.0	-
249	Miscellaneous wood products .....	38.9	38.9	40.2	40.3	-	2.0	2.1	2.5	2.7	-
25	<b>FURNITURE AND FIXTURES</b> .....	37.7	38.0	40.1	40.3	40.6	1.7	1.7	2.6	3.0	-
251	Household furniture .....	37.2	37.6	39.6	39.7	-	1.4	1.4	2.3	2.5	-
2511	Wood household furniture .....	36.6	37.6	39.7	39.7	-	1.5	1.6	2.4	2.5	-
2512	Upholstered household furniture .....	36.7	36.9	38.8	39.2	-	.9	1.0	1.5	1.8	-
2514	Metal household furniture .....	40.0	39.8	40.2	40.8	-	2.3	2.0	2.6	3.4	-
2515	Mattresses and bedspreads .....	38.3	36.8	40.9	39.6	-	1.7	1.3	3.6	3.1	-
252	Office furniture .....	36.6	37.7	41.4	41.9	-	1.6	1.7	3.1	3.4	-
253	Public building and related furniture .....	41.4	40.1	40.9	40.3	-	3.1	2.5	3.8	3.1	-
254	Partitions and fixtures .....	39.5	39.3	40.2	41.2	-	2.6	2.5	3.3	4.3	-
259	Miscellaneous furniture and fixtures .....	35.2	39.5	41.6	41.1	-	1.8	1.8	2.6	3.4	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>32</b>	<b>STONE, CLAY, AND GLASS PRODUCTS</b>										
321	Flat glass	\$305.72	\$366.62	\$391.95	\$398.47	\$395.41	\$9.03	\$9.03	\$9.31	\$9.42	\$9.37
322	Glass and glassware, pressed or blown	516.43	474.71	575.93	589.35	-	12.18	11.55	12.77	13.01	-
3221	Glass containers	362.60	384.87	408.22	415.54	-	9.57	9.55	10.03	10.16	-
3229	Pressed and blown glass, nec	399.00	404.56	428.45	436.24	-	10.00	9.94	10.45	10.64	-
323	Products of purchased glass	558.90	356.61	380.03	387.87	-	8.95	8.96	9.43	9.53	-
324	Cement, hydraulic	334.49	346.32	322.32	329.23	-	8.30	8.53	7.90	6.03	-
325	Structural clay products	529.17	517.45	556.62	578.83	-	12.69	12.59	13.19	13.43	-
326	Pottery and related products	285.60	295.20	309.32	318.43	-	7.14	7.13	7.40	7.44	-
327	Concrete, gypsum, and plaster products	284.99	286.12	304.19	312.82	-	7.46	7.49	7.84	7.98	-
3271	Concrete block and brick	367.79	372.07	400.77	405.54	-	8.82	8.88	9.15	9.28	-
3272	Concrete products, nec	336.34	347.49	352.51	351.12	-	7.84	7.97	7.68	7.70	-
3273	Ready-mixed concrete	331.01	325.31	350.67	355.40	-	7.90	7.82	8.08	8.17	-
329	Misc. nonmetallic mineral products	394.69	404.48	434.88	434.66	-	9.65	9.77	10.09	10.27	-
3291	Abrasive products	351.95	352.74	384.30	390.93	-	8.91	8.93	9.15	9.22	-
3292	Asbestos products	316.32	331.13	354.69	365.29	-	8.69	8.76	8.63	8.76	-
		353.23	343.77	407.20	403.44	-	8.92	8.86	9.13	9.19	-
<b>33</b>	<b>PRIMARY METAL INDUSTRIES</b>										
331	Blast furnace and basic steel products	438.52	431.30	457.97	468.23	464.74	11.54	11.41	11.28	11.31	11.28
3312	Blast furnaces and steel mills	511.01	495.67	508.25	521.77	-	13.70	13.59	12.77	12.92	-
3317	Steel pipe and tubes	535.50	514.79	520.47	536.51	-	14.38	14.26	13.21	13.28	-
332	Iron and steel foundries	393.35	409.34	428.74	439.85	-	10.66	10.66	10.56	10.65	-
3321	Gray iron foundries	352.96	346.75	399.19	413.06	-	9.67	9.50	9.93	10.05	-
3322	Malleable iron foundries	362.48	349.90	414.53	428.68	-	9.85	9.56	10.16	10.28	-
3325	Steel foundries, nec	353.63	368.64	431.73	444.64	-	10.34	10.24	10.53	10.74	-
333	Primary nonferrous metals	334.80	331.94	361.19	368.42	-	9.30	9.43	9.48	9.52	-
3334	Primary aluminum	544.45	535.70	549.17	557.55	-	13.51	13.26	13.46	13.50	-
335	Nonferrous rolling and drawing	530.95	572.42	563.18	570.79	-	14.38	14.03	13.94	13.99	-
3351	Copper rolling and drawing	414.56	416.00	452.61	463.54	-	10.39	10.40	10.70	10.73	-
3353	Aluminum sheet, plate, and foil	350.01	342.77	417.17	418.12	-	8.99	8.83	9.59	9.59	-
3357	Nonferrous wire drawing and insulating	559.55	555.66	593.39	585.79	-	14.13	13.72	14.23	13.56	-
336	Nonferrous foundries	378.34	378.50	413.42	441.94	-	9.53	9.51	9.82	10.23	-
3361	Aluminum foundries	330.05	332.13	361.42	370.18	-	8.64	8.56	8.88	8.92	-
		338.83	338.24	376.24	385.06	-	8.87	8.74	9.11	9.19	-
<b>34</b>	<b>FABRICATED METAL PRODUCTS</b>										
341	Metal cans and shipping containers	345.32	346.04	372.10	381.71	380.88	8.90	8.85	9.12	9.22	9.20
3411	Metal cans	513.17	495.52	527.98	526.87	-	11.99	11.77	12.25	12.31	-
342	Cutlery, hand tools, and hardware	535.68	519.29	557.26	552.98	-	12.40	12.19	12.84	12.92	-
3423, 5	Hand and edge tools, and hand saws and blades	317.89	322.92	355.92	371.29	-	8.30	8.28	8.81	8.99	-
3429	Hardware, nec	298.24	310.40	335.36	340.63	-	7.89	8.00	8.26	8.39	-
343	Plumbing and heating, except electric	331.76	332.28	365.82	388.64	-	8.64	8.52	9.10	9.32	-
3432	Plumbing fittings and brass goods	367.20	315.93	321.53	336.19	-	8.00	8.08	8.14	8.24	-
3433	Heating equipment, except electric	286.48	293.37	308.11	323.18	-	7.66	7.70	7.84	7.96	-
344	Fabricated structural metal products	314.73	323.56	317.85	332.92	-	6.07	6.15	6.15	6.20	-
3441	Fabricated structural metal	342.51	343.48	353.03	360.33	-	8.77	8.74	8.76	8.81	-
3442	Metal doors, sash, and trim	354.40	366.62	375.14	382.75	-	9.11	9.12	9.24	9.29	-
3443	Fabricated plate work (boiler shops)	259.57	265.38	271.95	278.36	-	6.69	6.77	6.85	6.89	-
3444	Sheet metal work	384.07	383.55	410.04	418.14	-	9.95	9.86	10.05	10.10	-
3446	Architectural metal work	344.96	343.93	354.32	360.90	-	8.96	8.91	8.97	9.00	-
345	Screw machine products, bolts, etc.	353.42	355.01	365.33	368.40	-	8.62	8.68	8.74	8.92	-
3451	Screw machine products	313.68	312.19	349.32	361.62	-	8.19	8.13	8.52	8.61	-
3452	Bolts, nuts, rivets, and washers	290.70	291.84	312.03	323.95	-	7.61	7.60	7.84	7.94	-
346	Metal forgings and stampings	535.62	332.54	386.48	400.03	-	8.74	8.66	9.18	9.26	-
3462	Iron and steel forgings	384.38	382.16	434.08	452.40	-	10.01	9.85	10.36	10.57	-
3465	Automotive stampings	410.26	417.73	469.61	488.97	-	10.97	10.85	11.51	11.67	-
3469	Metal stampings, nec	453.94	445.04	524.27	553.28	-	11.76	11.47	12.08	12.35	-
347	Metal services, nec	366.87	366.05	333.74	337.43	-	7.95	7.96	8.18	8.23	-
3471	Plating and polishing	273.15	276.38	292.96	297.68	-	7.04	7.16	7.27	7.35	-
3479	Metal coating and allied services	258.11	271.81	286.00	293.13	-	6.91	7.06	7.15	7.22	-
348	Ordnance and accessories, nec	287.04	288.28	310.37	309.50	-	7.36	7.43	7.57	7.68	-
3483	Ammunition, exc. for small arms, nec	350.12	366.80	388.90	397.96	-	9.14	9.17	9.05	9.73	-
349	Misc. fabricated metal products	337.39	346.32	367.43	368.40	-	8.52	8.53	9.14	9.21	-
3494	Valves and pipe fittings	319.96	322.03	344.51	351.29	-	8.42	8.43	8.57	8.61	-
3496	Misc. fabricated wire products	336.66	336.52	361.94	371.97	-	8.93	8.95	9.14	9.23	-
		279.41	285.53	307.49	311.71	-	7.22	7.34	7.63	7.64	-
<b>35</b>	<b>MACHINERY, EXCEPT ELECTRICAL</b>										
351	Engines and turbines	367.93	365.98	387.28	399.08	400.16	9.41	9.36	9.61	9.71	9.76
3511	Turbines and turbine generator sets	452.40	448.89	450.76	473.62	-	11.60	11.51	11.80	11.93	-
3519	Internal combustion engines, nec	443.05	453.78	443.13	454.74	-	11.16	11.26	11.57	11.69	-
352	Farm and garden machinery	457.02	445.41	455.34	482.80	-	11.84	11.66	11.92	12.04	-
3523	Farm machinery and equipment	416.91	409.89	394.57	424.36	-	10.69	10.51	10.04	10.53	-
353	Construction and related machinery	430.62	424.79	411.86	444.40	-	11.07	10.92	10.48	11.00	-
		398.59	392.56	411.69	421.54	-	10.38	10.17	10.37	10.46	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	40.5	40.6	42.1	42.3	42.2	3.8	3.6	4.7	4.9	-
321	Flat glass	42.4	41.1	45.1	45.3	-	4.4	3.1	6.0	4.0	-
322	Glass and glassware, pressed or blown	40.0	40.3	40.7	40.9	-	4.6	3.7	4.2	4.2	-
3221	Glass containers	39.9	40.7	41.0	41.0	-	5.3	4.6	5.1	4.7	-
3229	Pressed and blown glass, nec	40.1	39.8	40.3	40.7	-	3.5	2.5	3.0	3.5	-
323	Products of purchased glass	40.5	40.6	40.8	41.0	-	3.2	3.1	3.3	3.8	-
324	Cement, hydraulic	41.7	41.1	42.2	43.1	-	2.4	2.3	3.2	3.9	-
325	Structural clay products	40.0	40.0	41.8	42.8	-	2.5	2.6	4.2	4.1	-
326	Pottery and related products	38.1	38.2	38.8	39.2	-	1.6	1.8	1.6	2.3	-
327	Concrete, gypsum, and plaster products	41.7	41.9	43.8	43.7	-	5.2	5.2	6.6	6.6	-
3271	Concrete block and brick	42.9	43.6	45.9	45.6	-	5.1	5.7	7.5	7.4	-
3272	Concrete products, nec	41.9	41.6	43.4	43.5	-	4.7	4.2	5.7	5.8	-
3273	Ready-mixed concrete	40.9	41.4	43.1	43.2	-	5.3	5.6	6.7	6.8	-
329	Misc. nonmetallic mineral products	39.5	39.5	42.0	42.4	-	2.7	2.4	3.6	4.2	-
3291	Abrasive products	36.4	37.8	41.1	41.7	-	1.3	1.6	2.6	3.0	-
3292	Asbestos products	35.6	38.8	44.6	43.9	-	2.3	2.3	4.3	5.0	-
33	<b>PRIMARY METAL INDUSTRIES</b>	38.0	37.8	40.6	41.4	41.2	2.1	1.8	3.3	3.7	-
331	Blast furnace and basic steel products	37.5	36.5	39.8	40.7	-	1.5	1.3	2.7	2.9	-
3312	Blast furnaces and steel mills	37.1	36.1	39.4	40.4	-	1.4	1.2	2.6	2.8	-
3317	Steel pipe and tubes	38.9	38.4	40.6	41.3	-	1.9	2.1	2.8	3.2	-
332	Iron and steel foundries	36.5	36.5	40.2	41.1	-	1.6	1.2	2.9	3.6	-
3321	Gray iron foundries	36.8	36.6	40.8	41.7	-	1.9	1.2	3.4	4.2	-
3322	Malleable iron foundries	34.2	36.0	41.0	41.4	-	1.1	1.2	3.6	4.1	-
3325	Steel foundries, nec	36.0	35.2	38.1	38.7	-	1.0	1.0	1.5	1.8	-
333	Primary nonferrous metals	40.3	40.4	40.8	41.3	-	3.2	2.5	3.3	3.4	-
3334	Primary aluminum	40.4	40.8	40.4	40.8	-	3.9	2.8	3.3	4.0	-
335	Nonferrous rolling and drawing	39.9	40.0	42.3	43.2	-	3.5	2.9	4.7	5.2	-
3351	Copper rolling and drawing	39.0	38.6	43.5	43.6	-	2.5	1.9	4.3	4.7	-
3353	Aluminum sheet, plate and foil	39.6	40.5	41.7	43.2	-	6.6	4.5	5.9	6.2	-
3357	Nonferrous wire drawing and insulating	39.7	39.8	42.1	43.2	-	2.6	2.3	4.3	5.1	-
336	Nonferrous foundries	38.2	38.8	40.7	41.5	-	1.8	1.9	3.5	3.8	-
3361	Aluminum foundries	38.2	38.7	41.3	41.9	-	1.6	1.9	3.8	3.9	-
34	<b>FABRICATED METAL PRODUCTS</b>	38.8	39.1	40.8	41.4	41.4	2.0	1.9	3.2	3.6	-
341	Metal cans and shipping containers	42.8	42.1	43.1	42.8	-	4.4	3.8	5.3	5.8	-
3411	Metal cans	43.2	42.6	43.4	42.8	-	4.5	4.0	6.3	6.1	-
342	Cutlery, hand tools, and hardware	38.3	39.0	40.4	41.3	-	1.4	1.4	2.6	3.3	-
3423, 5	Hand and edge tools, and hand saws and blades	37.8	38.8	40.6	40.6	-	1.3	1.4	2.3	2.6	-
3429	Hardware, nec	38.4	39.0	40.2	41.7	-	1.4	1.3	2.9	3.9	-
343	Plumbing and heating, except electric	38.4	39.1	39.5	40.8	-	1.4	1.5	2.4	2.0	-
3432	Plumbing fittings and brass goods	37.4	38.1	39.3	40.6	-	1.2	1.8	2.4	2.0	-
3433	Heating equipment, except electric	39.0	39.7	39.0	40.6	-	1.6	2.0	1.3	2.7	-
344	Fabricated structural metal products	39.1	39.3	40.3	40.9	-	2.2	2.2	2.9	3.2	-
3441	Fabricated structural metal	40.0	40.2	40.6	41.2	-	2.7	2.7	3.1	3.5	-
3442	Metal doors, sash, and trim	38.8	39.2	39.7	40.4	-	2.1	2.0	2.7	3.0	-
3443	Fabricated plate work (boiler shops)	38.6	38.9	40.8	41.4	-	1.9	2.2	3.1	3.3	-
3444	Sheet metal work	38.5	38.6	39.5	40.1	-	2.1	1.9	2.7	3.1	-
3446	Architectural metal work	41.0	40.9	41.8	41.3	-	2.2	2.4	2.7	2.6	-
345	Screw machine products, bolts, etc.	38.3	38.4	41.0	42.0	-	1.4	1.3	3.4	3.8	-
3451	Screw machine products	38.2	38.4	39.8	40.8	-	1.3	1.4	2.7	3.1	-
3452	Bolts, nuts, rivets, and washers	38.4	38.4	42.1	43.2	-	1.5	1.2	4.0	4.4	-
346	Metal forgings and stampings	36.4	38.8	41.9	42.8	-	1.8	1.5	4.0	4.7	-
3462	Iron and steel forgings	37.4	38.5	40.6	41.9	-	1.6	1.5	3.5	3.6	-
3465	Automotive stampings	38.6	38.8	43.4	44.8	-	1.9	1.4	5.1	6.2	-
3469	Metal stampings, nec	38.6	38.7	40.8	41.0	-	1.8	1.6	3.2	2.5	-
347	Metal services, nec	38.6	38.6	40.3	40.5	-	2.4	2.2	3.3	3.4	-
3471	Plating and polishing	38.6	38.5	40.0	40.6	-	2.2	2.2	3.2	3.2	-
3479	Metal coating and allied services	39.0	38.8	41.0	40.3	-	2.6	2.4	3.6	3.8	-
348	Ordnance and accessories, nec	39.4	40.0	40.5	40.9	-	2.1	2.1	2.0	2.3	-
3483	Ammunition, exc. for small arms, nec	39.0	40.6	40.2	40.0	-	1.9	1.8	1.3	1.4	-
349	Misc. fabricated metal products	36.0	38.2	40.2	40.8	-	1.6	1.4	2.5	2.9	-
3494	Valves and pipe fittings	37.7	37.6	39.6	40.3	-	1.4	1.1	2.2	2.7	-
3496	Misc. fabricated wire products	38.7	38.9	40.3	40.8	-	1.4	1.7	2.7	3.0	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	39.1	39.1	40.3	41.1	41.0	1.9	1.9	2.7	3.2	-
351	Engines and turbines	39.0	39.0	38.2	39.7	-	1.4	1.6	2.8	3.2	-
3511	Turbines and turbine generator sets	39.7	40.3	38.3	38.9	-	3.0	3.3	3.1	2.1	-
3519	Internal combustion engines, nec	36.6	38.2	38.2	40.1	-	1.6	1.0	2.6	3.3	-
352	Farm and garden machinery	39.0	39.0	39.3	40.3	-	2.4	2.5	1.8	2.5	-
3523	Farm machinery and equipment	38.9	38.9	39.3	40.4	-	2.5	2.7	1.9	2.7	-
353	Construction and related machinery	38.4	38.6	39.7	40.3	-	1.5	1.5	2.2	2.5	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3531	Construction machinery	\$435.09	\$407.16	\$453.29	\$462.84	-	\$11.48	\$10.80	\$11.22	\$11.60	-
3532	Mining machinery	402.92	405.96	422.37	438.20	-	10.52	10.49	10.83	11.01	-
3533	Oil field machinery	403.51	410.29	407.81	418.72	-	10.32	10.44	10.43	10.98	-
3535	Conveyers and conveying equipment	335.16	337.15	362.70	366.83	-	8.82	8.78	9.00	9.08	-
3537	Industrial trucks and tractors	336.13	340.28	373.97	383.80	-	9.06	9.05	9.42	9.43	-
354	Metalworking machinery	374.01	372.66	391.95	405.25	-	9.59	9.58	9.75	9.86	-
3541	Machine tools, metal cutting types	368.93	361.86	375.89	395.21	-	9.76	9.86	9.84	9.98	-
3542	Machine tools, metal forming types	367.89	394.62	392.54	406.75	-	9.97	9.99	10.44	10.62	-
3544	Special dies, tools, jigs, and fixtures	407.82	406.21	427.87	440.16	-	10.17	10.13	10.36	10.48	-
3545	Machine tool accessories	327.45	330.49	353.73	369.82	-	8.78	8.72	8.91	9.02	-
3546	Power driven hand tools	295.81	292.92	309.67	316.31	-	7.47	7.53	7.82	7.91	-
355	Special industry machinery	353.86	362.46	377.74	389.57	-	9.05	9.13	9.35	9.41	-
3551	Food products machinery	373.72	377.39	357.80	406.81	-	9.39	9.53	9.75	9.95	-
3552	Textile machinery	258.76	276.82	298.96	299.03	-	7.11	7.19	7.40	7.42	-
3555	Printing trades machinery	306.99	385.56	384.16	397.10	-	9.41	9.45	9.58	9.50	-
356	General industrial machinery	356.90	360.68	385.97	394.15	-	9.27	9.32	9.53	9.59	-
3561	Pumps and pumping equipment	362.90	369.39	399.59	410.18	-	9.55	9.67	9.94	9.98	-
3562	Ball and roller bearings	356.31	353.42	399.08	410.31	-	8.93	8.88	9.39	9.52	-
3563	Air and gas compressors	394.49	407.68	336.93	411.26	-	10.30	10.40	10.10	10.08	-
3564	Blowers and fans	343.56	341.04	358.09	353.16	-	8.73	8.70	8.52	8.72	-
3566	Speed changers, drives, and gears	342.84	353.79	399.96	412.50	-	9.88	9.91	10.10	10.16	-
3568	Power transmission equipment, nec	330.45	339.80	373.28	385.67	-	9.02	9.11	9.45	9.57	-
357	Office and computing machines	330.87	330.08	356.83	368.46	-	8.07	8.11	8.64	8.69	-
3573	Electronic computing equipment	328.76	327.62	356.45	369.77	-	7.98	8.03	8.61	8.68	-
358	Refrigeration and service machinery	335.11	340.17	377.17	387.81	-	8.74	8.70	9.29	9.39	-
3585	Refrigeration and heating equipment	351.14	351.12	389.50	400.61	-	9.05	9.98	9.57	9.70	-
359	Misc. machinery, except electrical	349.72	348.43	384.06	388.14	-	9.06	9.05	9.53	9.56	-
3592	Carburetors, pistons, rings, valves	384.85	382.88	461.20	453.60	-	10.29	10.21	11.06	10.93	-
3599	Machinery, except electrical, nec	344.16	343.66	370.00	376.12	-	8.87	8.88	9.25	9.31	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	325.59	329.67	349.92	359.21	\$358.39	8.37	8.41	8.64	8.74	\$8.72
361	Electric distributing equipment	322.76	319.81	331.45	344.21	-	8.34	8.35	8.37	8.52	-
3612	Transformers	329.43	321.92	333.60	346.80	-	8.34	8.34	8.34	8.50	-
3613	Switchgear and switchboard apparatus	317.75	317.68	329.73	341.60	-	8.34	8.36	8.39	8.54	-
362	Electrical industrial apparatus	313.60	324.02	350.80	363.26	-	8.43	8.46	8.77	8.88	-
3621	Motors and generators	315.55	328.44	356.59	372.54	-	8.37	8.40	8.74	8.87	-
3622	Industrial controls	310.20	312.91	338.84	346.87	-	8.25	8.30	8.60	8.65	-
363	Household appliances	312.27	313.01	346.63	356.90	-	8.09	8.13	8.58	8.60	-
3632	Household refrigerators and freezers	377.60	347.18	407.41	444.96	-	9.44	9.46	9.77	9.91	-
3633	Household laundry equipment	372.24	377.80	409.66	404.21	-	9.77	9.89	10.14	10.08	-
3634	Electric housewares and fans	240.65	255.17	265.98	270.10	-	6.39	6.46	6.60	6.54	-
364	Electric lighting and wiring equipment	303.76	306.54	328.05	337.43	-	7.87	7.86	8.10	8.19	-
3641	Electric lamps	355.27	364.80	385.90	387.58	-	9.04	9.12	9.21	9.25	-
3643	Current-carrying wiring devices	275.16	281.12	303.91	310.43	-	7.28	7.34	7.56	7.59	-
3644	Noncurrent-carrying wiring devices	297.11	313.50	341.04	340.94	-	8.02	8.08	8.40	8.46	-
3645	Residential lighting fixtures	231.64	232.62	242.26	253.60	-	5.97	5.98	6.18	6.34	-
365	Radio and TV receiving equipment	293.36	297.97	341.55	334.72	-	7.72	7.66	8.29	8.41	-
3651	Radio and TV receiving sets	288.97	304.55	348.47	352.76	-	7.81	7.89	8.52	8.71	-
366	Communication equipment	398.00	399.59	418.99	428.07	-	9.95	9.94	10.32	10.39	-
3661	Telephone and telegraph apparatus	410.41	406.21	423.30	433.02	-	10.39	10.31	10.20	10.31	-
3662	Radio and TV communication equipment	391.31	395.85	417.91	425.95	-	9.71	9.75	10.37	10.44	-
367	Electronic components and accessories	283.56	289.30	308.51	311.19	-	7.29	7.38	7.58	7.59	-
3671-3	Electronic tubes	371.97	372.53	394.13	401.55	-	9.23	9.29	9.66	9.77	-
3674	Semiconductors and related devices	322.62	325.65	358.39	363.31	-	8.23	8.35	8.72	8.71	-
3679	Electronic components, nec	265.10	274.51	285.07	285.89	-	6.78	6.88	6.97	6.99	-
369	Misc. electrical equipment and supplies	349.36	351.74	376.77	399.07	-	8.89	8.95	9.28	9.57	-
3691	Storage batteries	370.75	377.52	414.54	423.19	-	9.58	9.73	9.87	10.10	-
3694	Engine electrical equipment	301.92	363.48	395.04	428.58	-	9.28	9.32	9.73	10.18	-
37	<b>TRANSPORTATION EQUIPMENT</b>	443.98	457.25	475.04	505.47	503.53	11.24	11.29	11.53	11.91	11.82
371	Motor vehicles and equipment	451.62	467.12	503.45	549.13	-	11.70	11.62	11.93	12.34	-
3711	Motor vehicles and car bodies	484.15	523.50	534.15	615.62	-	12.98	12.99	13.06	13.62	-
3713	Truck and bus bodies	373.52	328.70	358.75	381.48	-	9.20	8.56	8.88	9.35	-
3714	Motor vehicle parts and accessories	440.27	438.87	505.01	521.99	-	11.09	10.89	11.53	11.73	-
3715	Truck trailers	307.64	317.04	350.06	360.18	-	7.97	8.15	8.58	8.70	-
372	Aircraft and parts	463.17	481.82	481.11	491.88	-	11.38	11.61	11.85	11.91	-
3721	Aircraft	488.40	508.00	505.77	511.92	-	12.00	12.33	12.55	12.64	-
3724	Aircraft engines and engine parts	454.26	466.99	473.80	495.94	-	11.30	11.39	11.67	11.78	-
3728	Aircraft equipment, nec	427.25	449.00	443.47	454.20	-	10.32	10.54	10.79	10.84	-
373	Ship and boat building and repairing	394.22	399.00	382.00	390.44	-	9.93	10.00	9.72	9.81	-
3731	Shipbuilding and repairing	417.28	420.49	410.55	420.80	-	10.38	10.46	10.42	10.52	-
3732	Boat building and repairing	292.53	303.38	293.70	296.38	-	7.78	7.88	7.55	7.58	-
374	Railroad equipment	435.86	437.32	-	-	-	11.47	11.60	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3531	Construction machinery	37.9	37.7	40.4	40.6	-	1.0	1.3	1.9	2.3	-
3532	Mining machinery	38.3	38.7	39.0	39.8	-	.9	1.0	1.4	2.1	-
3533	Oil field machinery	39.1	39.3	39.1	40.3	-	1.8	1.9	2.3	2.7	-
3535	Conveyers and conveying equipment	38.0	38.4	40.3	40.4	-	1.8	1.4	2.8	2.6	-
3537	Industrial trucks and tractors	37.1	37.6	39.7	40.7	-	1.6	1.2	2.8	3.2	-
354	Metalworking machinery	39.0	38.9	40.2	41.1	-	2.3	2.2	3.2	3.7	-
3541	Machine tools, metal cutting types	37.8	36.7	38.2	39.6	-	1.2	1.2	1.6	2.0	-
3542	Machine tools, metal forming types	36.9	38.5	37.6	38.3	-	1.0	1.0	2.4	3.0	-
3544	Special dies, tools, jigs, and fixtures	40.1	40.1	41.3	42.0	-	3.3	3.2	4.1	4.6	-
3545	Machine tool accessories	37.3	37.9	39.7	41.0	-	1.0	1.2	2.7	3.1	-
3546	Power driven hand tools	39.6	38.9	39.6	40.5	-	2.4	2.5	3.3	3.4	-
355	Special industry machinery	39.1	39.7	40.4	41.4	-	2.1	2.1	2.6	3.3	-
3551	Food products machinery	39.0	39.6	40.8	41.3	-	1.9	2.3	2.5	3.1	-
3552	Textile machinery	37.8	38.5	40.4	40.3	-	1.2	1.5	2.1	2.6	-
3555	Printing trades machinery	39.0	40.8	40.1	41.8	-	2.4	2.6	2.7	3.4	-
356	General industrial machinery	38.5	38.7	40.5	41.1	-	1.7	1.5	2.8	3.1	-
3561	Pumps and pumping equipment	38.0	38.2	40.2	41.1	-	1.4	1.2	2.3	2.8	-
3562	Ball and roller bearings	39.9	39.8	42.5	43.1	-	2.0	1.8	3.9	4.3	-
3563	Air and gas compressors	38.3	39.2	39.3	40.8	-	2.6	2.0	1.9	2.6	-
3564	Blowers and fans	39.4	39.2	40.6	40.5	-	1.7	1.7	3.3	3.0	-
3566	Speed changers, drives, and gears	34.7	35.7	39.6	40.6	-	.7	.8	2.6	3.0	-
3568	Power transmission equipment, nec	37.3	37.3	39.5	40.3	-	1.5	1.0	2.2	2.9	-
357	Office and computing machines	41.0	40.7	41.3	42.4	-	2.2	2.1	2.9	3.5	-
3573	Electronic computing equipment	41.2	40.8	41.4	42.6	-	2.5	2.3	3.1	3.7	-
358	Refrigeration and service machinery	38.8	39.1	40.6	41.3	-	1.4	1.5	2.9	3.4	-
3585	Refrigeration and heating equipment	38.8	39.1	40.7	41.3	-	1.2	1.4	3.1	3.6	-
359	Misc. machinery, except electrical	38.6	38.5	40.3	40.6	-	1.9	1.9	2.8	3.0	-
3592	Carburetors, pistons, rings, valves	37.4	37.5	41.7	41.5	-	1.5	1.2	3.7	3.3	-
3599	Machinery, except electrical, nec	38.8	38.7	40.0	40.4	-	2.0	2.0	2.7	3.0	-
<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>											
36		38.9	39.2	40.5	41.1	41.1	1.8	1.8	2.6	3.1	-
361	Electric distributing equipment	38.7	38.3	39.6	40.4	-	2.0	1.6	2.2	2.8	-
3612	Transformers	39.5	38.6	40.0	40.8	-	2.6	1.8	2.3	3.0	-
3613	Switchgear and switchboard apparatus	38.1	38.0	39.3	40.0	-	1.4	1.5	2.2	2.6	-
362	Electrical industrial apparatus	37.2	38.3	40.0	41.0	-	1.4	1.4	2.7	3.1	-
3621	Motors and generators	37.7	39.1	40.8	42.0	-	1.5	1.5	3.1	3.6	-
3622	Industrial controls	37.6	37.7	39.4	40.1	-	1.3	1.3	2.1	2.4	-
363	Household appliances	38.6	38.5	40.4	41.5	-	1.4	1.7	2.2	2.3	-
3632	Household refrigerators and freezers	40.0	36.7	41.7	44.9	-	1.2	1.2	1.5	1.4	-
3633	Household laundry equipment	38.1	38.2	40.4	40.1	-	.4	.3	1.8	1.2	-
3634	Electric housewares and fans	38.6	39.5	40.3	41.3	-	1.9	2.3	2.4	3.1	-
364	Electric lighting and wiring equipment	38.6	39.0	40.5	41.2	-	1.5	1.4	2.7	3.2	-
3641	Electric lamps	39.3	40.0	41.9	41.9	-	1.4	1.5	2.2	2.2	-
3643	Current-carrying wiring devices	37.8	38.3	40.2	40.9	-	1.4	1.4	2.6	3.2	-
3644	Noncurrent-carrying wiring devices	37.0	38.8	40.6	40.3	-	1.2	1.5	2.0	2.6	-
3645	Residential lighting fixtures	38.6	38.9	39.2	40.0	-	1.5	1.4	1.9	2.8	-
365	Radio and TV receiving equipment	38.6	38.9	41.2	39.8	-	1.7	1.4	2.9	3.2	-
3651	Radio and TV receiving sets	37.0	38.6	40.9	40.5	-	1.0	1.1	2.9	3.4	-
366	Communication equipment	40.0	40.2	40.6	41.2	-	2.2	2.1	2.5	2.7	-
3661	Telephone and telegraph apparatus	39.5	39.4	41.5	42.0	-	2.0	1.7	3.1	3.3	-
3662	Radio and TV communication equipment	40.3	40.6	40.3	40.8	-	2.3	2.3	2.2	2.5	-
367	Electronic components and accessories	38.9	39.2	40.7	41.0	-	2.0	2.0	2.9	3.1	-
3671-3	Electronic tubes	40.3	40.1	40.8	41.1	-	1.9	1.7	2.1	2.1	-
3674	Semiconductors and related devices	39.2	39.0	41.1	41.7	-	2.4	2.3	3.5	3.6	-
3679	Electronic components, nec	39.1	39.9	40.9	40.5	-	1.9	2.0	3.1	3.3	-
369	Misc. electrical equipment and supplies	39.3	39.3	40.6	41.7	-	1.7	1.6	2.6	3.8	-
3691	Storage batteries	38.7	38.8	42.0	41.9	-	2.5	2.2	2.9	3.3	-
3694	Engine electrical equipment	39.0	39.0	40.6	42.1	-	1.5	1.3	2.7	4.5	-
<b>TRANSPORTATION EQUIPMENT</b>											
37		39.5	40.5	41.2	42.8	42.6	2.6	2.6	3.6	4.7	-
371	Motor vehicles and equipment	38.6	40.2	42.2	44.5	-	2.2	2.0	4.5	6.0	-
3711	Motor vehicles and car bodies	37.3	40.3	40.9	45.2	-	2.0	2.3	3.9	6.7	-
3713	Truck and bus bodies	40.6	38.4	40.4	40.8	-	1.7	.5	2.9	2.9	-
3714	Motor vehicle parts and accessories	39.7	40.3	43.8	44.5	-	2.5	1.9	5.3	5.8	-
3715	Truck trailers	38.6	38.9	40.8	41.4	-	.9	1.5	3.1	3.0	-
372	Aircraft and parts	40.7	41.5	40.6	41.3	-	3.3	3.6	2.9	3.5	-
3721	Aircraft	40.7	41.2	40.3	40.5	-	2.8	2.9	2.3	2.7	-
3724	Aircraft engines and engine parts	40.2	41.0	40.6	42.1	-	3.7	4.0	3.4	4.6	-
3728	Aircraft equipment, nec	41.4	42.6	41.1	41.9	-	3.7	4.3	3.4	3.9	-
373	Ship and boat building and repairing	39.7	39.9	39.3	39.8	-	2.8	2.7	2.3	2.8	-
3731	Ship building and repairing	40.2	40.2	39.4	40.0	-	3.2	2.9	2.5	3.0	-
3732	Boat building and repairing	37.6	38.5	38.9	39.1	-	1.3	2.0	1.9	2.1	-
374	Railroad equipment	38.0	37.7	-	-	-	1.5	1.6	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
378	Guided missiles, space vehicles, parts .....	\$450.55	\$459.50	\$480.65	\$491.40	-	\$11.07	\$11.29	\$11.61	\$11.70	-
3761	Guided missiles and space vehicles .....	406.16	475.04	492.54	504.64	-	11.26	11.53	11.84	11.92	-
379	Miscellaneous transportation equipment .....	373.46	370.15	377.62	394.76	-	9.36	9.54	9.56	9.72	-
3792	Travel trailers and campers .....	283.87	296.91	317.73	322.53	-	7.82	7.96	8.21	8.27	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	328.76	327.10	343.76	351.25	\$347.09	8.24	8.26	8.53	8.61	\$8.57
381	Engineering and scientific instruments .....	346.12	345.86	369.49	378.46	-	8.61	8.66	8.99	9.12	-
382	Measuring and controlling devices .....	328.56	326.23	342.40	353.46	-	8.23	8.28	8.56	8.60	-
3822	Environmental controls .....	294.90	296.44	314.01	323.19	-	7.64	7.74	7.99	7.98	-
3823	Process control instruments .....	327.46	325.31	332.13	341.60	-	8.29	8.32	8.56	8.67	-
3825	Instruments to measure electricity .....	360.22	350.14	365.16	380.22	-	8.66	8.71	8.95	9.01	-
383	Optical instruments and lenses .....	356.00	347.38	396.02	410.55	-	8.79	8.75	9.34	9.57	-
384	Medical instruments and supplies .....	276.36	276.44	294.46	298.80	-	7.05	7.07	7.38	7.48	-
3841	Surgical and medical instruments .....	279.58	283.38	297.01	297.82	-	7.06	7.12	7.37	7.39	-
3842	Surgical appliances and supplies .....	277.07	274.25	293.78	300.95	-	7.05	7.05	7.40	7.58	-
385	Ophthalmic goods .....	241.56	234.84	257.60	259.45	-	6.10	6.18	6.44	6.47	-
386	Photographic equipment and supplies .....	438.70	437.47	450.66	458.49	-	10.70	10.67	11.10	11.21	-
387	Watches, clocks, and watchcases .....	258.76	242.96	259.94	258.56	-	6.06	6.12	6.34	6.40	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	250.90	253.50	266.27	270.58	274.11	6.50	6.50	6.81	6.95	6.87
391	Jewelry, silverware, and plated ware .....	263.12	274.03	275.15	282.94	-	6.87	6.92	7.26	7.33	-
3911	Jewelry, precious metal .....	262.71	271.75	264.22	275.21	-	6.95	6.95	7.18	7.30	-
393	Musical instruments .....	244.86	259.89	267.45	260.96	-	6.60	6.53	6.62	6.69	-
394	Toys and sporting goods .....	234.60	230.62	244.84	249.15	-	6.00	5.99	6.23	6.26	-
3942, 4	Dolls, games, toys, and children's vehicles .....	220.20	215.63	227.37	231.66	-	5.69	5.63	5.86	5.85	-
3949	Sporting and athletic goods, nec .....	251.06	246.91	264.94	268.40	-	6.34	6.38	6.64	6.71	-
395	Pens, pencils, office and art supplies .....	269.56	269.56	283.91	284.40	-	6.79	6.79	7.01	7.11	-
396	Costume jewelry and notions .....	210.27	210.98	210.97	219.82	-	5.49	5.48	5.78	5.80	-
3961	Costume jewelry .....	200.07	194.56	180.42	196.54	-	5.13	5.12	5.26	5.37	-
399	Miscellaneous manufactures .....	270.72	274.17	294.23	298.85	-	7.05	7.03	7.43	7.49	-
3993	Signs and advertising displays .....	295.66	299.51	318.00	326.83	-	7.62	7.66	8.01	8.05	-
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	315.01	312.05	324.80	329.27	325.19	7.91	7.88	8.12	8.13	8.15
201	Meat products .....	297.08	295.81	288.41	290.94	-	7.54	7.47	7.32	7.21	-
2011	Meat packing plants .....	370.94	373.38	347.71	348.99	-	8.96	8.89	8.46	8.45	-
2013	Sausages and other prepared meats .....	300.30	355.61	367.64	364.91	-	9.03	9.98	9.10	9.01	-
2018	Poultry dressing plants .....	192.18	190.32	198.06	202.92	-	5.18	5.13	5.31	5.34	-
202	Dairy products .....	343.62	334.53	355.30	360.78	-	8.30	8.26	8.50	8.59	-
2022	Cheese, natural and processed .....	313.63	307.68	317.07	326.80	-	7.94	7.93	8.13	8.17	-
2028	Fluid milk .....	359.10	348.57	371.39	379.21	-	8.55	8.44	8.78	8.66	-
203	Preserved fruits and vegetables .....	282.71	271.91	298.08	299.62	-	7.05	6.99	7.36	7.29	-
2032	Canned specialties .....	364.99	356.15	387.20	399.17	-	8.41	8.50	8.80	8.64	-
2033	Canned fruits and vegetables .....	283.39	268.88	301.38	300.24	-	6.98	6.93	7.46	7.20	-
2037	Frozen fruits and vegetables .....	278.12	256.11	278.39	279.68	-	6.80	6.55	6.79	6.94	-
204	Grain mill products .....	398.79	398.85	413.23	427.86	-	9.21	9.19	9.61	9.68	-
2041	Flour and other grain mill products .....	421.07	417.46	455.99	472.19	-	9.42	9.36	9.87	9.92	-
2048	*Prepared feeds, nec .....	316.39	315.52	314.89	323.76	-	7.29	7.27	7.34	7.46	-
205	Bakery products .....	326.23	324.80	340.48	345.33	-	8.57	8.57	8.96	9.04	-
2051	Bread, cake, and related products .....	329.57	324.86	338.78	343.07	-	8.65	8.64	9.01	9.10	-
2052	Cookies and crackers .....	325.20	327.60	343.98	351.16	-	8.36	8.40	8.82	8.89	-
206	Sugar and confectionery products .....	311.20	311.06	328.86	324.01	-	7.76	7.55	8.14	8.02	-
2061-3	Cane and beet sugar .....	378.31	360.80	423.42	405.04	-	9.16	8.20	9.87	9.76	-
2065	Confectionery products .....	263.93	266.34	275.58	272.34	-	6.82	6.76	7.03	6.36	-
207	Fats and oils .....	367.60	361.01	383.53	397.06	-	8.47	8.28	9.11	9.17	-
208	Beverages .....	406.00	399.80	425.80	429.50	-	10.00	9.97	10.36	10.45	-
2082	Malt beverages .....	569.08	551.26	609.44	596.85	-	13.39	13.38	14.01	14.11	-
2086	Bottled and canned soft drinks .....	293.27	284.36	325.54	325.60	-	7.35	7.31	7.94	8.00	-
209	Misc. foods and kindred products .....	256.13	254.88	277.47	277.81	-	6.83	6.87	7.19	7.33	-
21	<b>TOBACCO MANUFACTURES</b> .....	379.14	370.50	386.05	379.61	374.96	9.55	9.50	10.24	9.86	9.70
211	Cigarettes .....	460.64	465.88	470.87	478.04	-	12.23	12.26	12.49	12.68	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	223.85	227.56	254.41	257.92	256.46	5.86	5.88	6.19	6.23	6.24
221	Weaving mills, cotton .....	230.12	238.55	264.04	268.32	-	6.04	6.07	6.44	6.45	-
222	Weaving mills, synthetics .....	233.74	246.31	275.81	275.06	-	6.20	6.22	6.63	6.66	-
223	Weaving and finishing mills, wool .....	227.30	233.98	270.19	274.14	-	6.16	6.19	6.59	6.67	-
224	Narrow fabric mills .....	218.23	214.86	235.39	243.54	-	5.61	5.61	5.87	5.94	-
225	Knitting mills .....	204.54	204.92	225.89	227.66	-	5.44	5.45	5.69	5.72	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
376	Guided missiles, space vehicles, parts .....	40.7	40.7	41.4	42.0	-	3.0	3.3	3.6	4.2	-
3761	Guided missiles and space vehicles .....	41.4	41.2	41.6	42.3	-	3.2	3.7	3.9	4.6	-
379	Miscellaneous transportation equipment .....	39.9	38.8	39.5	40.2	-	3.7	2.2	2.8	2.1	-
3792	Travel trailers and campers .....	36.3	37.3	38.7	39.0	-	1.4	2.0	2.4	2.4	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	39.9	39.6	40.3	40.8	40.5	1.7	1.5	2.1	2.5	-
381	Engineering and scientific instruments .....	40.2	40.4	41.1	41.5	-	2.0	2.1	2.3	2.8	-
382	Measuring and controlling devices .....	39.9	39.4	40.0	41.1	-	1.1	1.0	1.3	2.1	-
3822	Environmental controls .....	38.6	38.3	39.3	40.5	-	.9	.9	2.3	2.9	-
3823	Process control instruments .....	39.9	39.1	38.8	39.4	-	1.5	1.0	1.2	1.3	-
3825	Instruments to measure electricity .....	41.5	40.2	40.8	42.2	-	.9	.9	1.4	1.6	-
383	Optical instruments and lenses .....	40.5	39.7	42.4	42.9	-	2.0	1.7	2.6	3.3	-
384	Medical instruments and supplies .....	39.2	39.1	39.9	40.0	-	1.9	1.6	2.4	2.6	-
3841	Surgical and medical instruments .....	39.6	39.8	40.3	40.3	-	2.2	1.9	2.3	2.6	-
3842	Surgical appliances and supplies .....	39.3	39.9	39.7	39.7	-	1.9	1.5	2.6	2.7	-
385	Ophthalmic goods .....	39.6	38.0	40.0	40.1	-	1.7	1.1	1.9	2.5	-
386	Photographic equipment and supplies .....	41.0	41.0	40.6	40.5	-	2.0	2.2	1.9	2.4	-
387	Watches, clocks, and watchcases .....	39.4	39.7	41.0	40.4	-	2.3	2.4	2.9	3.2	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	38.6	39.0	39.1	39.5	39.9	1.8	1.9	1.9	2.2	-
391	Jewelry, silverware, and plated ware .....	38.3	39.6	37.9	38.6	-	1.7	2.4	1.4	1.8	-
3911	Jewelry, precious metal .....	37.6	39.1	36.8	37.7	-	1.8	2.5	1.1	1.6	-
393	Musical instruments .....	37.1	39.8	40.4	39.6	-	.6	1.5	1.9	1.8	-
394	Toys and sporting goods .....	39.1	38.5	39.3	39.8	-	1.6	1.4	1.8	2.3	-
3942, 4	Dolls, games, toys, and children's vehicles .....	38.7	38.3	38.8	39.6	-	1.2	1.0	1.8	2.5	-
3949	Sporting and athletic goods, nec .....	39.6	38.7	39.9	40.0	-	2.1	1.9	1.9	2.1	-
395	Pens, pencils, office and art supplies .....	39.7	39.7	40.5	40.0	-	1.7	1.3	2.1	2.2	-
396	Costume jewelry and notions .....	38.3	38.5	36.5	37.9	-	2.7	2.5	1.9	2.7	-
3961	Costume jewelry .....	39.0	38.0	34.3	36.6	-	3.9	3.1	1.5	2.9	-
399	Miscellaneous manufactures .....	38.4	39.0	39.6	39.9	-	1.9	2.1	2.0	2.4	-
3993	Signs and advertising displays .....	38.6	39.1	39.7	40.6	-	2.0	2.1	2.0	2.9	-
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	39.9	39.6	40.0	40.5	39.9	4.2	3.8	4.2	4.5	-
201	Meat products .....	39.4	39.6	39.4	39.8	-	3.5	3.7	3.5	3.9	-
2011	Meat packing plants .....	41.4	42.0	41.1	41.3	-	4.8	4.8	4.5	4.8	-
2013	Sausages and other prepared meats .....	39.9	39.6	40.4	40.5	-	3.2	3.4	3.7	3.9	-
2016	Poultry dressing plants .....	37.1	37.1	37.3	38.0	-	2.4	2.7	2.5	2.9	-
202	Dairy products .....	41.4	40.5	41.8	42.0	-	4.3	3.5	4.4	4.5	-
2022	Cheese, natural and processed .....	39.5	38.8	39.0	40.0	-	3.7	3.1	3.2	3.6	-
2026	Fluid milk .....	42.0	41.3	42.3	42.0	-	4.7	3.9	4.8	5.1	-
203	Preserved fruits and vegetables .....	40.1	38.9	40.5	41.1	-	5.4	4.3	5.5	6.2	-
2032	Canned specialties .....	43.4	41.9	44.0	46.2	-	6.1	6.7	6.6	6.5	-
2033	Canned fruits and vegetables .....	40.6	38.8	40.4	41.7	-	6.1	4.5	6.0	7.2	-
2037	Frozen fruits and vegetables .....	40.9	39.1	41.0	40.3	-	6.5	4.4	5.2	5.6	-
204	Grain mill products .....	43.3	43.4	43.0	44.2	-	6.0	5.8	5.6	6.3	-
2041	Flour and other grain mill products .....	44.7	44.6	46.2	47.6	-	7.1	6.9	6.7	8.3	-
2048	Prepared feeds, nec .....	43.4	43.4	42.9	43.4	-	6.0	5.4	5.8	6.0	-
205	Bakery products .....	38.3	37.9	38.0	38.2	-	3.1	2.9	2.8	2.1	-
2051	Bread, cake, and related products .....	38.1	37.6	37.6	37.7	-	3.3	2.9	3.0	3.2	-
2052	Cookies and crackers .....	38.5	39.0	39.0	39.5	-	2.6	2.8	2.4	2.8	-
206	Sugar and confectionery products .....	40.0	41.2	40.4	40.4	-	3.3	3.8	3.1	3.2	-
2061-3	Cane and beet sugar .....	41.3	44.0	42.9	41.5	-	5.1	6.3	3.0	5.6	-
2065	Confectionery products .....	38.7	39.4	39.2	39.7	-	2.4	2.4	2.3	2.2	-
207	Fats and oils .....	43.4	43.6	42.1	43.3	-	5.7	5.7	5.5	5.6	-
208	Beverages .....	40.6	40.1	41.1	41.1	-	4.0	3.6	4.2	4.2	-
2082	Malt beverages .....	42.5	41.2	43.5	42.3	-	5.4	4.9	5.9	4.8	-
2086	Bottled and canned soft drinks .....	35.9	38.9	41.0	40.7	-	3.3	2.7	4.1	3.9	-
209	Misc. foods and kindred products .....	37.5	37.1	37.2	37.9	-	2.9	2.7	3.5	3.6	-
21	<b>TOBACCO MANUFACTURES</b> .....	39.7	39.0	37.7	38.5	38.3	1.9	1.8	1.4	1.2	-
211	Cigarettes .....	39.3	38.0	37.7	37.7	-	1.9	1.4	1.1	.9	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	38.2	38.7	41.1	41.4	41.1	2.3	2.4	4.0	4.0	-
221	Weaving mills, cotton .....	38.1	39.3	41.0	41.6	-	2.5	2.8	4.0	4.2	-
222	Weaving mills, synthetics .....	37.7	39.6	41.6	41.3	-	2.0	2.2	4.2	4.0	-
223	Weaving and finishing mills, wool .....	36.9	37.8	41.0	41.1	-	2.8	2.8	4.2	4.2	-
224	Narrow fabric mills .....	38.9	38.3	40.1	41.0	-	1.6	1.5	2.7	2.9	-
225	Knitting mills .....	37.6	37.6	39.7	39.8	-	2.2	2.2	3.3	3.3	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2251	Women's hosiery, except socks	\$203.66	\$198.00	\$228.78	\$228.73	-	\$5.36	\$5.28	\$5.53	\$5.62	-
2252	Hosiery, nec	191.05	199.88	211.68	208.51	-	5.22	5.26	5.40	5.43	-
2253	Knit outerwear mills	196.65	196.10	212.01	216.50	-	5.23	5.30	5.55	5.58	-
2254	Knit underwear mills	183.37	187.76	202.92	202.84	-	5.18	5.23	5.34	5.31	-
2257	Circular knit fabric mills	248.46	238.20	270.51	276.27	-	6.06	6.00	6.38	6.41	-
226	Textile finishing, except wool	246.02	245.78	273.73	278.70	-	6.26	6.27	6.58	6.62	-
2261	Finishing plants, cotton	246.72	242.79	275.72	282.63	-	6.31	6.29	6.66	6.65	-
2262	Finishing plants, synthetics	249.72	253.36	281.12	285.65	-	6.52	6.53	6.84	6.95	-
227	Floor covering mills	231.17	238.99	273.70	276.28	-	6.02	6.02	6.38	6.44	-
228	Yarn and thread mills	209.93	212.35	240.53	246.12	-	5.51	5.53	5.81	5.85	-
2281	Yarn mills, except wool	211.85	211.85	244.86	251.39	-	5.46	5.46	5.83	5.86	-
2282	Throwing and winding mills	203.25	199.66	218.06	219.63	-	5.42	5.47	5.62	5.69	-
229	Miscellaneous textile goods	267.71	264.11	295.24	298.77	-	6.61	6.57	6.85	6.90	-
<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>											
23	Men's and boys' suits and coats	183.57	183.91	195.81	198.35	\$198.18	5.23	5.21	5.35	5.39	\$5.40
231	Men's and boys' suits and coats	209.55	212.36	221.96	231.36	-	5.97	6.12	6.20	6.27	-
232	Men's and boys' furnishings	171.00	170.77	186.85	187.61	-	4.79	4.77	4.93	4.95	-
2321	Men's and boys' shirts and nightwear	153.22	162.62	176.06	175.54	-	4.65	4.62	4.72	4.77	-
2327	Men's and boys' separate trousers	170.72	173.88	186.61	185.24	-	4.85	4.83	5.03	5.02	-
2328	Men's and boys' work clothing	173.63	172.20	189.63	193.55	-	4.77	4.77	4.90	4.90	-
233	Women's and misses' outerwear	169.25	170.80	184.76	185.80	-	5.16	5.16	5.34	5.37	-
2331	Women's and misses' blouses and waists	152.53	166.95	171.85	173.04	-	4.75	4.77	4.91	4.93	-
2335	Women's and misses' dresses	167.36	169.39	183.25	183.37	-	5.28	5.31	5.57	5.54	-
2337	Women's and misses' suits and coats	183.93	183.11	209.20	211.24	-	5.73	5.74	5.96	6.07	-
2339	Women's and misses' outerwear, nec	168.34	169.32	180.79	181.56	-	5.01	4.98	5.05	5.10	-
234	Women's and children's undergarments	165.22	174.58	180.56	185.74	-	4.74	4.77	4.88	4.94	-
2341	Women's and children's underwear	167.65	173.33	178.19	183.82	-	4.67	4.71	4.79	4.85	-
2342	Brassieres and allied garments	179.40	182.58	194.39	196.57	-	5.17	5.10	5.37	5.42	-
236	Children's outerwear	164.74	168.84	169.21	170.88	-	4.68	4.69	4.78	4.80	-
2361	Children's dresses and blouses	159.05	169.31	165.67	163.34	-	4.61	4.69	4.72	4.79	-
238	Misc. apparel and accessories	186.02	190.58	193.48	194.21	-	5.24	5.25	5.35	5.35	-
239	Misc. fabricated textile products	238.93	235.68	243.43	249.94	-	6.19	6.09	6.21	6.28	-
2391	Curtains and draperies	178.26	171.55	192.86	196.31	-	4.63	4.70	4.92	4.92	-
2392	House furnishing, nec	205.93	206.28	213.79	214.52	-	5.24	5.22	5.44	5.31	-
2396	Automotive and apparel trimmings	405.73	406.75	394.47	415.89	-	10.43	10.27	9.74	10.07	-
<b>PAPER AND ALLIED PRODUCTS</b>											
26	Paper and pulp mills	402.53	397.40	428.86	437.91	434.02	9.63	9.53	10.02	10.09	10.07
261, 2.6	Paper and pulp mills	504.63	491.44	526.14	541.65	-	11.34	11.22	11.85	12.01	-
262	Paper mills, except building paper	511.43	497.28	528.51	536.11	-	11.34	11.20	11.85	11.94	-
263	Paperboard mills	474.97	470.09	534.69	549.47	-	11.67	11.41	12.32	12.32	-
264	Misc. converted paper products	339.35	339.82	366.13	369.93	-	8.38	8.37	8.78	8.85	-
2641	Paper coating and glazing	391.52	399.42	424.15	434.58	-	9.48	9.51	9.91	10.13	-
2642	Envelopes	305.60	311.89	323.21	325.22	-	7.64	7.72	8.06	8.09	-
2643	Bags, except textile bags	320.58	316.61	349.82	349.80	-	7.80	7.75	8.27	8.25	-
265	Paperboard containers and boxes	340.66	341.11	365.01	373.25	-	8.37	8.34	8.67	8.66	-
2651	Folding paperboard boxes	341.78	342.15	367.63	371.23	-	8.46	8.49	8.88	8.86	-
2653	Corrugated and solid fiber boxes	365.29	362.85	393.30	405.45	-	8.76	8.66	9.00	9.03	-
2654	Sanitary food containers	314.03	321.60	347.34	349.38	-	7.91	8.02	8.27	8.24	-
<b>PRINTING AND PUBLISHING</b>											
27	Newspapers	331.45	329.82	344.58	351.50	353.02	8.91	8.89	9.14	9.25	9.29
271	Newspapers	301.06	296.81	308.36	315.86	-	8.96	8.94	9.15	9.29	-
272	Periodicals	356.50	341.46	367.46	369.53	-	9.07	9.13	9.67	9.75	-
273	Books	321.26	316.92	334.11	349.05	-	8.41	8.34	8.48	8.77	-
2731	Book publishing	303.75	294.70	302.06	304.50	-	8.10	8.03	7.97	8.12	-
2732	Book printing	341.25	344.92	372.04	400.35	-	8.75	8.71	9.03	9.42	-
274	Miscellaneous publishing	296.75	293.67	295.82	289.81	-	8.13	8.09	8.24	8.21	-
275	Commercial printing	357.20	353.43	367.99	376.27	-	9.23	9.18	9.46	9.55	-
2751	Commercial printing, letterpress	336.96	329.57	342.02	353.47	-	8.73	8.65	8.93	9.11	-
2752	Commercial printing, lithographic	364.72	361.30	376.53	386.46	-	9.40	9.36	9.63	9.71	-
276	Manifold business forms	341.11	350.76	385.33	388.54	-	8.86	8.88	9.33	9.34	-
278	Blankbooks and bookbinding	261.59	261.13	276.44	290.80	-	6.83	6.89	7.07	7.20	-
279	Printing trade services	477.98	405.59	427.44	427.12	-	10.68	10.73	10.96	10.98	-
<b>CHEMICALS AND ALLIED PRODUCTS</b>											
28	Industrial inorganic chemicals	419.83	416.58	439.25	448.14	445.30	10.19	10.22	10.61	10.67	10.73
281	Industrial inorganic chemicals	436.52	451.33	466.86	500.57	-	11.30	11.34	11.76	11.79	-
2819	Industrial inorganic chemicals, nec	455.66	455.44	492.19	506.60	-	11.42	11.53	11.86	11.92	-
282	Plastics materials and synthetics	424.90	415.34	446.05	452.20	-	10.24	10.23	10.57	10.64	-
2821	Plastics materials and resins	466.05	459.54	493.78	500.82	-	11.07	11.10	11.51	11.62	-
2824	Organic fibers, noncellulosic	402.11	389.60	424.37	431.70	-	9.76	9.74	10.08	10.11	-
283	Drugs	378.12	382.34	394.94	402.21	-	9.20	9.28	9.80	9.81	-
2834	Pharmaceutical preparations	350.37	364.59	378.28	383.54	-	8.92	8.98	9.41	9.47	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
		<b>TEXTILE MILL PRODUCTS—Continued</b>									
2251	Women's hosiery, except socks	38.0	37.5	41.0	40.7	-	2.3	1.7	3.8	3.9	-
2252	Hosiery, nec	36.6	38.0	39.2	38.4	-	1.8	2.3	2.7	2.3	-
2253	Knit outerwear mills	37.6	37.0	38.2	38.8	-	2.2	2.3	2.8	3.0	-
2254	Knit underwear mills	35.4	35.9	38.0	38.2	-	1.3	1.3	1.8	1.6	-
2257	Circular knit fabric mills	41.0	39.7	42.4	43.1	-	3.5	3.3	4.5	5.1	-
228	Textile finishing, except wool	39.3	39.2	41.6	42.1	-	2.5	2.7	4.5	4.5	-
2281	Finishing plants, cotton	39.1	38.6	41.4	42.5	-	2.2	2.4	4.3	4.6	-
2282	Finishing plants, synthetics	36.3	38.8	41.1	41.1	-	2.7	2.6	4.6	4.2	-
227	Floor covering mills	38.4	39.7	42.9	42.9	-	2.2	2.4	5.3	5.4	-
228	Yarn and thread mills	38.1	38.4	41.4	42.0	-	2.6	2.5	4.0	4.4	-
2281	Yarn mills, except wool	38.8	38.8	42.0	42.9	-	2.8	2.6	4.5	5.0	-
2282	Throwing and winding mills	37.5	36.5	38.6	38.6	-	2.2	1.9	3.1	3.3	-
229	Miscellaneous textile goods	40.5	40.2	43.1	43.3	-	2.7	2.8	4.6	4.3	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.1	35.3	36.6	36.8	36.7	1.0	1.1	1.4	1.5	-
231	Men's and boys' suits and coats	35.1	34.7	35.8	36.9	-	.7	.6	.9	1.0	-
232	Men's and boys' furnishings	35.7	35.8	37.9	37.9	-	.9	.9	1.3	1.4	-
2321	Men's and boys' shirts and nightwear	35.1	35.2	37.3	36.8	-	1.0	1.1	1.2	1.2	-
2327	Men's and boys' separate trousers	35.2	36.0	37.1	36.9	-	.9	.9	1.3	1.2	-
2328	Men's and boys' work clothing	36.4	36.1	38.7	39.5	-	1.2	.9	1.4	1.7	-
233	Women's and misses' outerwear	32.6	33.1	34.6	34.6	-	.8	1.0	1.2	1.2	-
2331	Women's and misses' blouses and waists	34.3	35.0	35.0	35.1	-	1.1	1.2	1.1	1.1	-
2335	Women's and misses' dresses	31.7	31.9	32.9	33.1	-	.7	.9	.9	.9	-
2337	Women's and misses' suits and coats	32.1	31.9	35.1	34.6	-	.9	.9	1.4	1.4	-
2339	Women's and misses' outerwear, nec	35.6	34.0	35.8	35.6	-	.8	1.0	1.4	1.4	-
234	Women's and children's undergarments	35.7	36.6	37.0	37.6	-	.9	1.3	1.5	2.0	-
2341	Women's and children's underwear	35.9	36.8	37.2	37.9	-	1.0	1.4	1.6	2.1	-
2342	Brassieres and allied garments	34.7	35.8	36.2	36.2	-	.6	.7	1.1	1.3	-
236	Children's outerwear	35.2	36.0	35.4	35.6	-	.9	1.2	.9	.6	-
2361	Children's dresses and blouses	34.5	36.1	35.1	34.1	-	.9	1.2	.8	.6	-
238	Misc. apparel and accessories	35.5	36.3	36.3	36.3	-	1.1	1.5	1.4	1.5	-
239	Misc. fabricated textile products	38.6	38.7	39.2	39.8	-	1.8	1.9	2.2	2.7	-
2391	Curtains and draperies	36.5	36.5	39.2	39.9	-	1.6	1.1	1.0	1.9	-
2392	House furnishings, nec	39.3	39.9	39.3	40.4	-	2.2	3.0	2.7	3.3	-
2396	Automotive and apparel trimmings	38.9	39.8	40.5	41.3	-	2.1	2.0	3.4	4.2	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	41.8	41.7	42.8	43.4	43.1	4.7	4.1	4.9	5.4	-
261, 2, 6	Paper and pulp mills	44.5	43.8	44.4	45.1	-	7.1	5.6	6.5	7.2	-
262	Paper mills, except building paper	45.1	44.4	44.6	44.9	-	7.3	5.9	6.6	7.1	-
263	Paperboard mills	40.7	41.2	43.4	44.6	-	7.2	6.4	7.0	7.8	-
264	Misc. converted paper products	40.5	40.6	41.7	41.8	-	2.7	2.6	3.3	3.5	-
2641	Paper coating and glazing	41.3	42.0	42.8	42.9	-	2.7	2.5	3.2	3.5	-
2642	Envelopes	40.0	40.4	40.1	40.2	-	2.2	2.3	3.0	3.0	-
2643	Bags, except textile bags	41.1	40.8	42.3	42.4	-	3.1	3.1	3.8	3.8	-
265	Paperboard containers and boxes	40.7	40.9	42.1	43.1	-	3.5	3.4	4.3	4.0	-
2651	Folding paperboard boxes	40.4	40.3	41.4	41.9	-	3.1	3.0	3.6	3.9	-
2653	Corrugated and solid fiber boxes	41.7	41.9	43.7	44.9	-	4.3	4.1	5.3	6.2	-
2654	Sanitary food containers	39.7	40.1	42.0	42.4	-	2.5	2.5	3.8	4.2	-
27	<b>PRINTING AND PUBLISHING</b>	37.2	37.1	37.7	38.0	38.0	2.5	2.4	2.8	3.1	-
271	Newspapers	33.0	33.2	33.7	34.0	-	1.6	1.5	1.5	1.9	-
272	Periodicals	37.1	37.4	38.0	37.9	-	2.5	2.8	2.9	2.9	-
273	Books	38.2	38.0	39.4	39.8	-	2.1	2.3	3.5	3.6	-
2731	Book publishing	37.5	36.7	37.9	37.5	-	1.1	1.0	1.7	1.6	-
2732	Book printing	39.0	39.6	41.2	42.5	-	3.3	4.0	5.5	5.9	-
274	Miscellaneous publishing	36.5	36.3	35.9	35.3	-	1.4	1.6	1.8	1.7	-
275	Commercial printing	38.7	38.5	38.9	39.4	-	3.1	2.9	3.3	3.7	-
2751	Commercial printing, letterpress	36.6	38.1	38.3	38.6	-	3.0	2.6	2.8	3.4	-
2752	Commercial printing, lithographic	38.8	38.6	39.1	39.8	-	3.1	2.8	3.5	3.9	-
276	Manifold business forms	38.5	39.5	41.3	41.6	-	2.1	2.3	3.7	3.9	-
278	Blankbooks and bookbinding	36.3	37.9	39.1	39.0	-	1.6	1.5	1.9	2.4	-
279	Printing trade service	38.2	37.8	39.0	38.9	-	3.8	3.4	4.2	3.9	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	41.2	40.8	41.4	42.0	41.5	3.1	2.7	3.2	3.5	-
281	Industrial inorganic chemicals	40.4	39.8	41.4	42.1	-	3.5	2.7	2.8	3.4	-
2819	Industrial inorganic chemicals, nec	39.9	39.5	41.5	42.5	-	3.7	2.6	2.5	3.0	-
282	Plastics materials and synthetics	41.5	40.6	42.2	42.5	-	2.8	2.5	3.5	3.6	-
2821	Plastics materials and resins	42.1	41.4	42.9	43.1	-	4.0	3.3	4.1	4.6	-
2824	Organic fibers, noncellulosic	41.2	40.0	42.1	42.7	-	1.8	1.7	2.9	3.0	-
283	Drugs	41.1	41.2	40.3	41.0	-	2.9	2.8	2.8	2.9	-
2834	Pharmaceutical preparations	40.4	40.6	40.2	40.5	-	2.9	2.9	2.8	2.9	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	\$374.95	\$382.94	\$393.74	\$398.53	-	\$9.19	\$9.34	\$9.58	\$9.58	-
2841	Soap and other detergents .....	513.22	525.14	547.62	549.85	-	11.68	12.10	12.56	12.44	-
2844	Toilet preparations .....	288.95	294.28	306.92	312.73	-	7.35	7.45	7.77	7.76	-
2842, 3	Polishing, sanitation, and finishing preparations .....	364.08	361.75	371.54	372.41	-	8.88	8.91	9.04	9.15	-
286	Paints and allied products .....	354.42	350.16	385.43	383.98	-	8.95	8.91	9.51	9.32	-
286	Industrial organic chemicals .....	517.23	507.55	540.16	552.55	-	12.17	12.23	12.80	12.65	-
2865	Cyclic crudes and intermediates .....	477.43	480.26	495.69	511.70	-	11.56	11.80	12.03	12.33	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	530.24	515.83	553.80	564.20	-	12.36	12.37	13.00	13.00	-
287	Agricultural chemicals .....	421.10	416.91	434.43	444.47	-	10.05	9.95	10.57	10.71	-
289	Miscellaneous chemical products .....	380.95	379.89	396.32	412.58	-	9.36	9.38	9.69	9.90	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	572.49	555.59	572.46	591.41	\$588.74	12.61	12.57	13.16	13.25	\$13.35
291	Petroleum refining .....	617.36	598.97	622.61	647.15	-	13.48	13.46	14.28	14.51	-
295	Paving and roofing materials .....	446.03	425.72	430.86	435.91	-	9.76	9.61	9.77	9.84	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	308.05	304.18	330.84	338.55	338.58	7.78	7.74	8.03	8.08	8.10
301	Tires and inner tubes .....	481.39	467.23	540.94	558.03	-	11.77	11.71	12.58	12.54	-
302	Rubber and plastics footwear .....	169.07	198.66	193.13	193.13	-	5.11	5.16	5.15	5.15	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	323.60	320.38	344.03	350.65	-	8.01	8.07	8.31	8.27	-
306	Fabricated rubber products, nec .....	289.69	285.61	315.06	322.26	-	7.39	7.38	7.76	7.86	-
307	Miscellaneous plastics products .....	281.56	277.85	299.62	307.23	-	7.11	7.07	7.29	7.35	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	192.06	189.73	206.25	209.43	206.09	5.41	5.39	5.50	5.57	5.57
311	Leather tanning and finishing .....	277.03	281.69	296.46	302.94	-	7.14	7.26	7.43	7.48	-
314	Footwear, except rubber .....	183.05	180.43	195.15	196.10	-	5.23	5.17	5.26	5.30	-
3143	Men's footwear, except athletic .....	193.83	189.35	208.24	207.93	-	5.46	5.41	5.48	5.53	-
3144	Women's footwear, except athletic .....	176.47	172.53	190.11	191.51	-	5.13	5.03	5.18	5.19	-
316	Luggage .....	210.50	207.81	245.30	242.02	-	5.88	6.13	6.21	6.27	-
317	Handbags and personal leather goods .....	175.23	173.60	196.99	206.06	-	4.95	4.96	5.13	5.27	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	405.85	406.62	421.86	432.22	433.40	10.46	10.48	10.68	10.97	11.00
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads .....	465.92	478.40	560.72	-	-	11.59	11.64	12.89	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	246.29	247.57	284.89	258.32	-	7.33	7.26	7.67	7.62	-
411	Local and suburban transportation .....	305.36	311.65	317.63	313.24	-	7.77	7.85	8.25	8.20	-
413	Intercity highway transportation .....	443.48	431.27	451.65	446.11	-	12.15	11.47	11.98	11.96	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	397.58	394.11	403.65	407.16	-	10.30	10.29	10.35	10.44	-
421, 3	Trucking and trucking terminals .....	404.64	403.01	412.51	414.96	-	10.51	10.55	10.55	10.64	-
422	Public warehousing .....	290.77	275.58	286.03	290.61	-	7.38	7.03	7.41	7.49	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	567.24	556.98	570.96	588.64	-	13.04	13.23	13.96	14.15	-
48	<b>COMMUNICATION</b> .....	414.36	413.70	374.03	447.28	-	10.49	10.50	9.64	11.21	-
481	Telephone communication .....	440.50	440.59	447.02	486.41	-	11.04	11.07	11.12	12.01	-
4817	Switchboard operating employees .....	316.85	331.20	322.47	375.12	-	9.43	9.60	9.32	10.42	-
4818	Line construction employees .....	548.27	548.27	534.49	605.00	-	12.84	12.84	12.43	13.75	-
483	Radio and television broadcasting .....	332.61	326.37	334.06	335.48	-	8.73	8.68	8.98	8.97	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	450.58	455.95	476.10	481.90	-	10.91	11.04	11.50	11.64	-
491	Electric services .....	459.26	464.82	483.72	489.56	-	11.04	11.12	11.60	11.74	-
492	Gas production and distribution .....	398.52	408.41	421.61	429.62	-	9.84	10.01	10.41	10.53	-
493	Combination utility services .....	516.25	521.56	560.77	560.25	-	12.50	12.69	13.48	13.50	-
495	Sanitary services .....	364.46	367.98	368.46	372.67	-	8.74	8.91	8.90	8.96	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	200.30	199.39	209.63	208.63	209.26	6.24	6.27	6.47	6.54	6.56
50, 51	<b>WHOLESALE TRADE</b> .....	311.04	313.01	325.47	328.18	330.50	8.10	8.13	8.41	8.48	8.54
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	310.76	313.12	325.70	330.06	-	8.03	8.07	8.33	8.42	-
501	Motor vehicles and automotive equipment .....	278.76	279.55	295.66	299.52	-	7.26	7.28	7.62	7.58	-
502	Furniture and home furnishings .....	280.12	280.50	278.63	284.21	-	7.51	7.46	7.47	7.64	-
503	Lumber and construction materials .....	310.81	311.59	317.59	320.36	-	7.99	8.01	8.02	8.09	-
504	Sporting goods, toys, and hobby goods .....	324.42	324.42	336.27	341.76	-	8.56	8.56	8.78	8.97	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	40.0	41.0	41.1	41.6	-	3.1	3.0	3.3	3.6	-
2841	Soap and other detergents .....	43.2	43.4	43.6	44.2	-	4.6	4.7	5.0	5.5	-
2844	Toilet preparations .....	39.1	39.5	39.5	40.3	-	2.1	2.1	2.5	2.7	-
2842, 3	Polishing, sanitation, and finishing preparations .....	41.0	40.6	41.1	40.7	-	3.1	2.5	2.7	2.8	-
285	Paints and allied products .....	39.6	39.3	41.4	41.2	-	2.1	1.7	3.2	3.1	-
286	Industrial organic chemicals .....	42.5	41.5	42.2	43.0	-	3.3	2.8	3.6	3.8	-
2885	Cyclic crudes and intermediates .....	41.3	40.7	41.0	41.5	-	3.0	2.6	3.4	3.5	-
2881, 8	Gum, wood, and industrial organic chemicals, nec .....	42.9	41.7	42.6	43.4	-	3.4	2.9	3.6	3.9	-
287	Agricultural chemicals .....	41.9	41.9	41.1	41.5	-	3.7	3.3	3.6	4.0	-
289	Miscellaneous chemical products .....	40.7	40.5	40.9	42.1	-	2.8	2.5	3.0	3.6	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	45.4	44.2	43.5	44.3	44.1	4.5	4.1	3.9	4.3	-
291	Petroleum refining .....	45.8	44.5	42.6	44.6	-	3.8	3.5	3.2	3.6	-
295	Paving and roofing materials .....	45.7	44.3	44.1	44.3	-	8.0	7.0	7.1	7.4	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	39.0	39.3	41.2	41.9	41.8	2.8	2.4	3.7	4.2	-
301	Tires and inner tubes .....	40.9	39.9	43.0	44.5	-	2.9	2.0	5.2	5.6	-
302	Rubber and plastics footwear .....	37.0	38.5	37.5	37.5	-	1.1	1.5	1.8	1.8	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	40.4	39.7	41.4	42.4	-	2.6	1.7	4.0	4.3	-
308	Fabricated rubber products, nec .....	39.2	38.7	40.6	41.0	-	2.4	2.1	3.1	2.5	-
307	Miscellaneous plastics products .....	39.6	39.3	41.1	41.8	-	2.9	2.7	3.7	4.2	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	35.5	35.2	37.5	37.6	37.0	1.2	1.1	1.6	1.7	-
311	Leather tanning and finishing .....	38.8	38.8	39.9	40.5	-	1.9	2.2	3.4	3.6	-
314	Footwear, except rubber .....	35.0	34.9	37.1	37.0	-	1.1	.9	1.3	1.3	-
3143	Men's footwear, except athletic .....	35.5	35.0	38.0	37.6	-	.7	.4	1.2	1.2	-
3144	Women's footwear, except athletic .....	34.4	34.3	36.7	36.9	-	1.4	1.1	1.4	1.4	-
316	Luggage .....	35.8	33.9	39.5	38.6	-	1.6	1.5	2.7	2.4	-
317	Handbags and personal leather goods .....	35.4	35.0	38.4	39.1	-	1.0	1.2	1.7	2.3	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	38.6	38.8	39.5	39.4	39.4	-	-	-	-	-
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads <sup>2</sup> .....	40.2	41.1	43.5	-	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	33.6	34.1	36.2	33.9	-	-	-	-	-	-
411	Local and suburban transportation .....	39.3	39.7	38.5	38.2	-	-	-	-	-	-
413	Intercity highway transportation .....	36.5	37.6	37.7	37.3	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	38.0	38.3	39.0	39.0	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	38.5	38.2	39.1	39.0	-	-	-	-	-	-
422	Public warehousing .....	39.4	39.2	38.6	38.8	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	43.5	42.1	40.9	41.6	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	39.5	39.4	38.8	39.9	-	-	-	-	-	-
481	Telephone communication .....	39.9	39.8	40.2	40.5	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	33.0	34.5	34.6	36.0	-	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	42.7	42.7	43.0	44.0	-	-	-	-	-	-
483	Radio and television broadcasting .....	38.1	37.6	37.2	37.4	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.3	41.3	41.4	41.4	-	-	-	-	-	-
491	Electric services .....	41.6	41.8	41.7	41.7	-	-	-	-	-	-
492	Gas production and distribution .....	40.5	40.8	40.5	40.8	-	-	-	-	-	-
493	Combination utility services .....	41.3	41.1	41.6	41.5	-	-	-	-	-	-
495	Sanitary services .....	41.7	41.3	41.4	41.5	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	32.1	31.8	32.4	31.9	31.9	-	-	-	-	-
50, 51	<b>WHOLESALE TRADE</b> .....	38.4	38.5	38.7	38.7	38.7	-	-	-	-	-
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	38.7	38.8	39.1	39.2	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	38.4	38.4	38.8	39.0	-	-	-	-	-	-
502	Furniture and home furnishings .....	37.3	37.6	37.3	37.2	-	-	-	-	-	-
503	Lumber and construction materials .....	38.9	38.9	39.6	39.6	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	37.9	37.9	38.3	38.1	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	\$350.61	\$355.15	\$368.04	\$366.62	-	\$8.99	\$9.06	\$9.11	\$9.12	-
506	Electrical goods .....	335.71	337.43	345.82	351.14	-	8.63	8.63	8.89	9.05	-
507	Hardware, plumbing, and heating equipment .....	291.04	292.59	307.33	310.85	-	7.54	7.58	7.86	7.95	-
508	Machinery, equipment, and supplies .....	322.97	325.31	342.07	345.63	-	8.26	8.32	8.66	8.75	-
509	Miscellaneous durable goods .....	250.33	253.34	265.34	267.11	-	6.64	6.72	6.91	6.92	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	310.78	311.98	323.76	326.04	-	8.20	8.21	8.52	8.58	-
511	Paper and paper products .....	326.71	328.85	350.63	349.48	-	8.83	8.84	9.35	9.42	-
512	Drugs, proprietaries, and sundries .....	338.83	338.35	351.71	356.06	-	8.87	9.12	9.23	9.37	-
513	Apparel, piece goods, and notions .....	279.96	283.02	302.21	303.40	-	7.67	7.67	8.19	8.20	-
514	Groceries and related products .....	313.12	314.71	326.99	327.66	-	8.24	8.26	8.56	8.60	-
516	Chemicals and allied products .....	372.10	372.30	390.04	396.00	-	9.64	9.67	9.80	10.00	-
517	Petroleum and petroleum products .....	391.07	381.39	390.04	394.80	-	9.68	9.68	9.80	9.87	-
518	Beer, wine, and distilled beverages .....	349.93	357.08	370.26	369.96	-	9.64	9.81	10.20	10.22	-
519	Miscellaneous nondurable goods .....	253.26	255.94	255.44	258.75	-	6.70	6.70	6.83	6.90	-
52-59	<b>RETAIL TRADE</b> .....	165.55	164.79	174.16	171.95	\$171.95	5.50	5.53	5.71	5.77	\$5.77
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	218.99	217.77	227.24	226.71	-	6.10	6.10	6.26	6.28	-
521	Lumber and other building materials .....	232.36	232.58	240.41	241.70	-	6.28	6.32	6.48	6.55	-
525	Hardware stores .....	180.69	181.17	187.55	188.91	-	5.33	5.36	5.50	5.54	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	160.19	159.69	169.20	166.99	-	5.43	5.45	5.64	5.68	-
531	Department stores .....	166.11	165.56	174.63	172.87	-	5.65	5.67	5.86	5.90	-
533	Variety stores .....	124.86	124.15	133.67	130.94	-	4.19	4.18	4.34	4.35	-
539	Misc. general merchandise stores .....	130.96	132.41	141.65	137.10	-	4.38	4.27	4.54	4.51	-
54	<b>FOOD STORES</b> .....	225.95	222.10	235.06	232.71	-	7.36	7.33	7.51	7.58	-
541	Grocery stores .....	236.08	231.80	246.16	243.18	-	7.64	7.60	7.79	7.87	-
546	Retail bakeries .....	145.58	144.65	145.69	145.79	-	5.02	5.04	5.13	5.17	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	234.62	235.25	250.86	250.24	-	6.29	6.29	6.78	6.80	-
551, 2	New and used car dealers .....	277.07	275.94	306.99	306.99	-	7.33	7.30	8.10	8.10	-
553	Auto and home supply stores .....	236.14	237.77	243.36	244.14	-	5.88	5.90	6.24	6.26	-
554	Gasoline service stations .....	177.76	180.49	180.78	178.19	-	5.05	5.07	5.18	5.18	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	136.92	137.20	141.49	139.05	-	4.89	4.90	4.93	5.02	-
561	Men's and boys' clothing and furnishings .....	168.91	171.12	177.41	174.23	-	5.52	5.52	5.65	5.75	-
562	Women's ready-to-wear stores .....	122.66	121.30	129.36	128.18	-	4.56	4.56	4.67	4.73	-
565	Family clothing stores .....	137.05	136.80	140.63	138.88	-	4.86	4.80	4.90	5.05	-
566	Shoe stores .....	140.72	143.45	146.66	140.21	-	5.08	5.16	5.04	5.08	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	215.34	213.62	226.72	225.04	-	6.26	6.21	6.61	6.58	-
571	Furniture and home furnishings stores .....	215.17	213.47	224.32	224.67	-	6.31	6.26	6.54	6.55	-
572	Household appliance stores .....	233.95	230.51	243.57	239.72	-	6.59	6.53	7.00	7.03	-
573	Radio, television, and music stores .....	206.31	207.06	222.98	216.66	-	5.98	5.95	6.52	6.41	-
58	<b>EATING AND DRINKING PLACES<sup>5</sup></b> .....	110.29	107.94	116.30	113.26	-	4.10	4.12	4.26	4.29	-
59	<b>MISCELLANEOUS RETAIL</b> .....	158.33	168.41	177.41	175.87	-	5.43	5.45	5.65	5.71	-
591	Drug stores and proprietary stores .....	151.84	150.28	158.89	157.62	-	5.20	5.20	5.45	5.55	-
594	Miscellaneous shopping goods stores .....	148.90	148.40	157.90	154.44	-	4.98	4.98	5.11	5.20	-
596	Nonstore retailers .....	205.55	205.84	219.26	215.94	-	6.21	6.20	6.43	6.37	-
598	Fuel and ice dealers .....	268.53	277.81	283.48	287.98	-	7.18	7.33	7.60	7.70	-
599	Retail stores, nec .....	161.06	183.77	189.73	190.30	-	5.52	5.62	5.82	5.91	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>6</sup></b> .....	249.09	252.31	261.73	263.88	271.20	6.90	6.97	7.25	7.33	7.43
60	<b>BANKING</b> .....	215.49	217.91	225.68	225.99	-	5.92	5.97	6.20	6.26	-
602	Commercial and stock savings banks .....	209.51	212.65	221.31	222.02	-	5.74	5.81	6.00	6.15	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	220.83	223.99	235.79	234.61	-	6.05	6.12	6.39	6.41	-
612	Savings and loan associations .....	200.07	202.63	208.08	207.42	-	5.62	5.66	5.78	5.81	-
614	Personal credit institutions .....	224.96	229.40	242.90	241.70	-	6.08	6.20	6.46	6.48	-
63	<b>INSURANCE CARRIERS</b> .....	286.44	287.93	305.62	307.01	-	7.70	7.74	8.26	8.32	-
631	Life insurance .....	288.64	289.79	311.33	312.43	-	7.78	7.79	8.46	8.49	-
632	Medical service and health insurance .....	271.93	277.13	292.84	295.69	-	7.31	7.41	7.83	7.97	-
633	Fire, marine, and casualty insurance .....	287.93	288.23	304.51	304.43	-	7.74	7.79	8.23	8.25	-

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 payroll  
by industry—Continued**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	39.0	39.2	40.4	40.2	-	-	-	-	-	
506	Electrical goods .....	38.9	39.1	38.9	38.8	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment .....	38.6	38.6	39.1	39.1	-	-	-	-	-	
508	Machinery, equipment, and supplies .....	39.1	39.1	39.5	39.5	-	-	-	-	-	
509	Miscellaneous durable goods .....	37.7	37.7	38.4	38.6	-	-	-	-	-	
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	37.9	38.0	38.0	38.0	-	-	-	-	-	
511	Paper and paper products .....	37.0	37.2	37.5	37.1	-	-	-	-	-	
512	Drugs, proprietaries, and sundries .....	38.2	37.1	37.9	38.0	-	-	-	-	-	
513	Apparel, piece goods, and notions .....	36.5	36.9	36.9	37.0	-	-	-	-	-	
514	Groceries and related products .....	38.0	38.1	38.2	38.1	-	-	-	-	-	
518	Chemicals and allied products .....	38.6	38.5	39.2	39.6	-	-	-	-	-	
517	Petroleum and petroleum products .....	40.4	39.4	39.8	40.0	-	-	-	-	-	
518	Beer, wine, and distilled beverages .....	36.3	36.4	36.3	36.2	-	-	-	-	-	
519	Miscellaneous nondurable goods .....	37.8	38.2	37.4	37.5	-	-	-	-	-	
52-59	<b>RETAIL TRADE</b> .....	30.1	29.8	30.5	29.6	29.8	-	-	-	-	
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	35.9	35.7	36.3	36.1	-	-	-	-	-	
521	Lumber and other building materials .....	37.0	36.8	37.1	36.9	-	-	-	-	-	
525	Hardware stores .....	33.9	33.8	34.1	34.1	-	-	-	-	-	
53	<b>GENERAL MERCHANDISE STORES</b> .....	29.5	29.3	30.0	29.4	-	-	-	-	-	
531	Department stores .....	29.4	29.2	29.8	29.3	-	-	-	-	-	
533	Variety stores .....	29.8	29.7	30.8	30.1	-	-	-	-	-	
539	Misc. general merchandise stores .....	29.9	30.3	31.2	30.4	-	-	-	-	-	
54	<b>FOOD STORES</b> .....	30.7	30.3	31.3	30.7	-	-	-	-	-	
541	Grocery stores .....	30.9	30.5	31.6	30.9	-	-	-	-	-	
546	Retail bakeries .....	29.0	28.7	28.4	28.2	-	-	-	-	-	
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	37.3	37.4	37.0	36.8	-	-	-	-	-	
551.2	New and used car dealers .....	37.8	37.8	37.9	37.9	-	-	-	-	-	
553	Auto and home supply stores .....	40.5	40.3	39.0	39.0	-	-	-	-	-	
554	Gasoline service stations .....	35.2	35.6	34.9	34.4	-	-	-	-	-	
56	<b>APPAREL AND ACCESSORY STORES</b> .....	28.0	28.0	28.7	27.7	-	-	-	-	-	
561	Men's and boys' clothing and furnishings .....	30.0	31.0	31.4	30.3	-	-	-	-	-	
562	Women's ready-to-wear stores .....	26.9	26.6	27.7	27.1	-	-	-	-	-	
565	Family clothing stores .....	28.2	28.5	28.7	27.5	-	-	-	-	-	
566	Shoe stores .....	27.7	27.8	29.1	27.6	-	-	-	-	-	
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	34.4	34.4	34.3	34.2	-	-	-	-	-	
571	Furniture and home furnishings stores .....	34.1	34.1	34.3	34.3	-	-	-	-	-	
572	Household appliance stores .....	35.5	35.3	34.5	34.1	-	-	-	-	-	
573	Radio, television, and music stores .....	34.5	34.8	34.2	33.8	-	-	-	-	-	
58	<b>EATING AND DRINKING PLACES</b> .....	26.9	26.2	27.3	26.4	-	-	-	-	-	
59	<b>MISCELLANEOUS RETAIL</b> .....	31.0	30.9	31.4	30.6	-	-	-	-	-	
591	Drug stores and proprietary stores .....	29.2	28.9	29.1	28.4	-	-	-	-	-	
594	Miscellaneous shopping goods stores .....	29.9	29.8	30.9	29.7	-	-	-	-	-	
596	Nonstore retailers .....	33.1	33.2	34.1	33.9	-	-	-	-	-	
598	Fuel and ice dealers .....	37.4	37.9	37.3	37.4	-	-	-	-	-	
599	Retail stores, nec .....	32.6	32.7	32.6	32.2	-	-	-	-	-	
	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	30.1	36.2	36.1	36.0	36.5	-	-	-	-	
60	<b>BANKING</b> .....	30.4	36.5	36.4	36.1	-	-	-	-	-	
602	Commercial and stock savings banks .....	36.5	36.6	36.4	36.1	-	-	-	-	-	
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	36.5	36.6	36.9	36.6	-	-	-	-	-	
612	Savings and loan associations .....	33.6	35.8	36.0	35.7	-	-	-	-	-	
614	Personal credit institutions .....	37.0	37.0	37.6	37.3	-	-	-	-	-	
63	<b>INSURANCE CARRIERS</b> .....	37.2	37.2	37.0	36.9	-	-	-	-	-	
631	Life insurance .....	37.1	37.2	36.8	36.8	-	-	-	-	-	
632	Medical service and health insurance .....	37.2	37.4	37.4	37.1	-	-	-	-	-	
633	Fire, marine, and casualty insurance .....	37.2	37.0	37.0	36.9	-	-	-	-	-	

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
-	<b>SERVICES</b> .....	\$228.57	\$228.80	\$237.66	\$239.04	\$241.98	\$6.99	\$7.04	\$7.10	\$7.31	\$7.40
701	<b>HOTELS AND OTHER LODGING PLACES:</b> Hotels, motels, and tourist courts <sup>2</sup> .....	154.64	154.11	162.30	163.46	-	5.07	5.02	5.12	5.29	-
721	<b>PERSONAL SERVICES:</b> Laundry, cleaning, and garment services .....	172.64	175.24	182.45	184.21	-	5.20	5.20	5.43	5.45	-
723	Beauty shops <sup>3</sup> .....	154.33	149.76	153.10	155.93	-	5.34	5.20	5.41	5.34	-
73	<b>BUSINESS SERVICES</b> .....	230.81	232.17	246.56	244.94	-	7.08	7.10	7.36	7.40	-
731	Advertising .....	331.92	334.13	350.53	357.08	-	9.22	9.23	9.63	9.81	-
734	Services to buildings .....	157.45	157.49	168.60	165.09	-	5.81	5.79	6.00	5.70	-
737	Computer and data processing services .....	328.21	328.37	354.19	355.13	-	8.66	8.71	9.37	9.42	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	254.39	254.93	262.65	264.22	-	6.73	6.78	6.93	6.99	-
753	Automotive repair shops .....	261.64	283.58	292.08	295.60	-	7.24	7.29	7.47	7.36	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	312.48	315.09	320.05	319.61	-	8.18	8.27	8.27	8.26	-
78	<b>MOTION PICTURES</b> .....	238.75	245.06	284.38	305.20	-	8.81	9.11	9.84	10.90	-
781	Motion picture production and services .....	482.47	475.73	568.01	591.28	-	12.63	12.72	14.49	15.20	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	189.49	186.59	193.24	194.63	-	6.38	6.39	6.02	6.12	-
80	<b>HEALTH SERVICES</b> .....	235.10	232.17	241.08	242.63	-	7.06	7.10	7.35	7.42	-
801	Offices of physicians .....	221.68	218.67	225.48	226.50	-	6.80	6.92	7.23	7.30	-
802	Offices of dentists .....	193.01	193.45	196.82	199.99	-	6.82	6.86	7.08	7.22	-
805	Nursing and personal care facilities .....	155.67	153.86	160.72	162.69	-	4.88	4.90	5.07	5.10	-
806	Hospitals .....	267.11	262.73	279.67	281.47	-	7.72	7.75	8.13	8.23	-
81	<b>LEGAL SERVICES</b> .....	300.81	305.61	319.81	320.26	-	8.77	8.91	9.19	9.23	-
89	<b>MISCELLANEOUS SERVICES</b> .....	399.00	402.48	416.52	417.10	-	10.31	10.40	10.68	10.75	-
891	Engineering and architectural services .....	438.06	445.50	454.52	456.98	-	11.09	11.25	11.42	11.54	-
893	Accounting, auditing, and bookkeeping .....	328.10	327.08	348.53	347.85	-	8.68	8.63	9.10	9.13	-

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

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

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

<sup>4</sup> Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft persons; and laborers. In 1977, such employees made up 37 percent of the

total number of nonsupervisory employees in establishments reporting hours and earnings data.

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

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

- Data not available.

p = preliminary.

NOTE: Data from April 1982 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" under the Establishment Data section of the Explanatory Notes.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	<b>SERVICES</b> .....	32.7	32.5	33.1	32.7	32.7	-	-	-	-	-
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts <sup>5</sup> .....	30.5	30.7	31.7	30.9	-	-	-	-	-	
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	33.2	33.7	33.6	33.6	-	-	-	-	-	
723	Beauty shops <sup>5</sup> .....	28.9	28.8	28.3	29.2	-	-	-	-	-	
73	<b>BUSINESS SERVICES</b> .....	32.6	32.7	33.5	33.1	-	-	-	-	-	
731	Advertising .....	36.0	36.2	36.4	36.4	-	-	-	-	-	
734	Services to buildings .....	27.1	27.2	28.1	27.7	-	-	-	-	-	
737	Computer and data processing services .....	37.9	37.7	37.8	37.7	-	-	-	-	-	
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	37.8	37.6	37.9	37.6	-	-	-	-	-	
753	Automotive repair shops .....	36.9	36.9	39.1	39.1	-	-	-	-	-	
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	38.2	38.1	38.7	38.6	-	-	-	-	-	
78	<b>MOTION PICTURES</b> .....	27.1	26.9	28.9	28.0	-	-	-	-	-	
781	Motion picture production and services .....	36.2	37.4	39.2	38.9	-	-	-	-	-	
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	29.7	29.2	32.1	29.4	-	-	-	-	-	
80	<b>HEALTH SERVICES</b> .....	33.3	32.7	32.8	32.7	-	-	-	-	-	
801	Offices of physicians .....	32.6	31.6	31.1	30.9	-	-	-	-	-	
802	Offices of dentists .....	26.3	28.2	27.8	27.7	-	-	-	-	-	
805	Nursing and personal care facilities .....	31.9	31.4	31.7	31.9	-	-	-	-	-	
806	Hospitals .....	34.6	33.9	34.4	34.2	-	-	-	-	-	
81	<b>LEGAL SERVICES</b> .....	34.3	34.3	34.8	34.7	-	-	-	-	-	
89	<b>MISCELLANEOUS SERVICES</b> .....	38.7	38.7	39.0	38.8	-	-	-	-	-	
891	Engineering and architectural services .....	39.5	39.6	39.8	39.6	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping .....	37.8	37.9	38.3	38.1	-	-	-	-	-	

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-3. Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>MANUFACTURING</b> .....	\$8.33	\$8.31	\$8.46	\$8.53	\$8.55
<b>DURABLE GOODS</b> .....	8.92	8.90	9.00	9.09	9.09
Lumber and wood products .....	7.41	7.34	7.50	7.51	-
Furniture and fixtures .....	6.26	6.26	6.46	6.50	-
Stone, clay, and glass products .....	8.62	8.65	8.82	8.91	-
Primary metal industries .....	11.23	11.15	10.85	10.84	-
Fabricated metal products .....	8.68	8.64	8.77	8.83	-
Machinery, except electrical .....	9.19	9.14	9.29	9.35	-
Electric and electronic equipment .....	8.18	8.22	8.36	8.42	-
Transportation equipment .....	10.87	10.94	11.04	11.19	-
Instruments and related products .....	8.07	8.11	8.31	6.36	-
Miscellaneous manufacturing industries .....	6.35	6.35	6.65	6.05	-
<b>NONDURABLE GOODS</b> .....	7.56	7.55	7.73	7.76	7.79
Food and kindred products .....	7.51	7.52	7.72	7.70	-
Tobacco manufactures .....	9.33	9.28	10.06	9.70	-
Textile mill products .....	5.69	5.70	5.91	5.94	-
Apparel and other textile products .....	5.15	5.13	5.25	5.29	-
Paper and allied products .....	9.12	9.06	9.46	9.49	-
Printing and publishing .....	8.62	8.61	8.81	8.89	-
Chemicals and allied products .....	9.82	9.89	10.21	10.24	-
Petroleum and coal products .....	12.02	12.02	12.59	12.74	-
Rubber and misc. plastics products .....	7.51	7.51	7.69	7.70	-
Leather and leather products .....	5.32	5.31	5.39	5.45	-

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

## C-4. Gross average weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
<b>TOTAL PRIVATE:</b>					
Current dollars .....	\$270.05	\$270.31	\$281.08	\$286.28	\$287.70
Constant (1977) dollars .....	167.42	167.06	170.35	172.77	-
<b>MINING:</b>					
Current dollars .....	461.58	459.22	481.66	485.19	\$492.59
Constant (1977) dollars .....	286.16	283.62	291.92	295.23	-
<b>CONSTRUCTION:</b>					
Current dollars .....	433.21	440.75	449.92	454.80	\$447.52
Constant (1977) dollars .....	268.57	272.40	272.68	274.47	-
<b>MANUFACTURING:</b>					
Current dollars .....	334.15	333.84	353.36	363.12	\$362.64
Constant (1977) dollars .....	207.16	206.33	214.16	219.14	-
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>					
Current dollars .....	405.85	406.62	421.86	432.22	\$433.40
Constant (1977) dollars .....	251.61	251.31	255.67	260.84	-
<b>WHOLESALE AND RETAIL TRADE:</b>					
Current dollars .....	200.30	199.39	209.63	208.63	\$209.26
Constant (1977) dollars .....	124.18	123.23	127.05	125.91	-
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>					
Current dollars .....	249.09	252.31	261.73	263.83	\$271.20
Constant (1977) dollars .....	154.43	155.94	158.62	159.25	-
<b>SERVICES:</b>					
Current dollars .....	228.57	228.80	237.66	239.04	\$241.9P
Constant (1977) dollars .....	141.70	141.41	144.04	144.26	-

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

p = preliminary.

## ESTABLISHMENT DATA HOURS AND EARNINGS

### C-5. 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

(1977=100)

Industry division and group	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	Hours				
<b>TOTAL PRIVATE</b> .....	105.1	104.0	107.5	109.0	109.3
<b>GOODS-PRODUCING</b> .....	91.7	90.1	95.7	96.2	98.2
<b>MINING</b> .....	124.6	120.9	116.2	117.4	118.9
<b>CONSTRUCTION</b> .....	106.9	106.5	115.9	115.3	114.7
<b>MANUFACTURING</b> .....	87.2	85.4	90.9	94.0	94.0
<b>DURABLE GOODS</b> .....	83.0	81.0	87.0	91.0	91.6
Lumber and wood products .....	80.8	78.6	100.9	101.1	99.7
Furniture and fixtures .....	86.7	86.9	97.5	100.4	102.0
Stone, clay, and glass products .....	82.1	80.7	87.9	89.2	88.9
Primary metal industries .....	64.4	60.5	67.1	69.9	69.3
Fabricated metal products .....	80.9	79.3	84.6	82.0	83.7
Machinery, except electrical .....	85.9	82.0	82.9	86.9	87.7
Electric and electronic equipment .....	93.8	93.1	100.0	105.5	107.4
Transportation equipment .....	76.6	77.6	82.4	90.5	91.9
Instruments and related products .....	105.9	102.9	102.1	105.0	104.8
Miscellaneous manufacturing industries .....	84.4	84.6	84.9	86.5	85.6
<b>NONDURABLE GOODS</b> .....	93.5	92.0	96.6	98.5	97.4
Food and kindred products .....	105.1	101.2	104.2	106.3	100.1
Tobacco manufactures .....	102.8	100.0	87.4	94.5	94.8
Textile mill products .....	75.9	76.7	83.7	85.0	85.1
Apparel and other textile products .....	86.2	86.3	91.1	92.9	93.7
Paper and allied products .....	93.2	91.4	95.3	97.4	97.2
Printing and publishing .....	106.1	105.7	103.8	110.3	111.3
Chemicals and allied products .....	95.5	93.6	94.9	96.5	95.5
Petroleum and coal products .....	100.0	96.5	93.7	94.3	95.5
Rubber and misc. plastics products .....	93.6	91.0	103.8	107.4	108.0
Leather and leather products .....	61.5	80.1	86.4	86.6	85.2
<b>SERVICE-PRODUCING</b> .....	112.5	111.7	113.9	114.9	115.4
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	102.3	101.7	85.6	103.1	103.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	105.8	104.6	107.8	106.6	106.6
<b>WHOLESALE TRADE</b> .....	108.4	108.6	109.0	109.5	110.0
<b>RETAIL TRADE</b> .....	104.7	103.1	107.4	105.5	105.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	116.7	116.4	121.1	119.5	120.6
<b>SERVICES</b> .....	123.0	122.4	129.4	127.9	124.9

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

p = preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-5. 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

(1977=100)

Industry division and group	Sept. 1982	Oct. 1982	Aug. 1983	Sept. 1983P	Oct. 1983P
	Payrolls				
<b>TOTAL PRIVATE</b> .....	155.5	154.4	162.7	168.5	169.7
<b>GOODS-PRODUCING</b> .....	139.6	137.1	148.6	154.1	154.2
<b>MINING</b> .....	197.4	190.9	188.9	191.8	194.4
<b>CONSTRUCTION</b> .....	154.9	156.2	169.3	170.8	170.2
<b>MANUFACTURING</b> .....	132.1	128.8	140.6	147.4	147.5
<b>DURABLE GOODS</b> .....	125.5	122.1	134.1	142.3	143.4
Lumber and wood products .....	121.3	116.8	155.0	155.6	153.2
Furniture and fixtures .....	127.8	128.0	149.9	155.6	158.2
Stone, clay, and glass products .....	127.6	125.5	140.8	144.7	143.3
Primary metal industries .....	100.4	93.2	102.3	106.8	105.6
Fabricated metal products .....	121.9	118.7	130.6	137.3	138.1
Machinery, except electrical .....	129.3	122.7	127.4	134.9	136.8
Electric and electronic equipment .....	145.8	145.2	160.3	171.1	173.8
Transportation equipment .....	121.2	120.2	130.3	146.7	149.0
Instruments and related products .....	164.8	160.7	164.5	170.9	169.6
Miscellaneous manufacturing industries .....	125.7	126.2	132.4	135.8	141.1
<b>NONDURABLE GOODS</b> .....	143.5	140.5	152.2	156.2	154.7
Food and kindred products .....	154.6	148.3	157.4	150.9	151.9
Tobacco manufactures .....	177.2	171.3	161.6	168.1	167.5
Textile mill products .....	111.6	113.2	130.1	132.9	133.2
Apparel and other textile products .....	124.4	124.2	134.4	138.3	139.6
Paper and allied products .....	150.5	146.3	160.3	164.8	164.1
Printing and publishing .....	154.5	153.3	162.4	166.6	168.9
Chemicals and allied products .....	151.3	148.8	156.5	160.0	159.4
Petroleum and coal products .....	162.1	154.9	157.5	160.8	162.6
Rubber and misc. plastics products .....	140.7	136.2	161.2	167.8	163.2
Leather and leather products .....	122.2	119.6	131.9	133.9	131.6
<b>SERVICE-PRODUCING</b> .....	166.7	166.6	172.6	178.6	180.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	153.1	152.3	130.7	161.8	162.2
<b>WHOLESALE AND RETAIL TRADE</b> .....	154.3	153.5	163.1	162.9	163.5
<b>WHOLESALE TRADE</b> .....	162.9	163.7	170.0	172.2	174.2
<b>RETAIL TRADE</b> .....	149.7	148.0	159.4	158.0	157.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	177.1	178.5	193.1	192.8	197.3
<b>SERVICES</b> .....	184.9	185.4	199.8	201.1	203.1



## ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-6. Average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls  
by industry division and major manufacturing group, seasonally adjusted**

Industry	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>1</sup>	Oct. <sup>2</sup>
<b>TOTAL PRIVATE</b> .....	34.7	34.7	34.8	35.1	34.5	34.8	34.9	35.1	35.1	35.0	35.0	35.2	35.2
<b>MINING</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>CONSTRUCTION</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>MANUFACTURING</b> .....	38.9	39.0	39.0	39.7	39.2	39.5	40.1	40.0	40.1	40.2	40.3	40.8	40.6
<i>Overtime hours</i> .....	2.3	2.3	2.3	2.4	2.4	2.6	2.9	2.7	2.9	3.0	3.1	3.3	3.3
<b>DURABLE GOODS</b> .....	39.2	39.3	39.3	40.1	39.7	39.9	40.5	40.4	40.6	40.8	40.8	41.4	41.2
<i>Overtime hours</i> .....	2.1	2.1	2.2	2.2	2.3	2.5	2.8	2.6	2.8	3.0	3.1	3.4	3.4
Lumber and wood products .....	38.1	38.7	38.8	40.5	39.5	39.5	40.0	39.8	40.0	39.9	40.2	40.4	40.2
Furniture and fixtures .....	37.5	37.6	37.6	38.6	37.9	38.3	39.3	39.2	39.6	39.7	39.7	40.1	40.0
Stone, clay, and glass products .....	40.2	40.2	40.1	41.4	40.5	40.6	41.0	41.2	41.6	41.7	41.7	42.0	41.8
Primary metal industries .....	38.2	38.3	38.8	38.9	39.1	39.4	39.9	40.3	40.3	40.8	40.9	41.2	41.7
Fabricated metal products .....	39.0	39.2	39.2	39.9	39.6	39.7	40.5	40.4	40.5	40.7	40.9	41.6	41.3
Machinery, except electrical .....	39.3	39.3	39.3	39.6	39.4	39.7	40.2	40.0	40.4	40.7	40.7	41.2	41.2
Electric and electronic equipment .....	39.2	39.3	39.4	39.9	39.5	39.8	40.4	40.3	40.5	40.8	40.7	41.7	41.1
Transportation equipment .....	40.4	40.9	40.1	41.6	41.2	41.7	42.3	41.6	41.9	42.0	41.8	43.5	42.5
Instruments and related products .....	39.6	39.4	39.7	40.4	39.7	40.0	40.5	40.4	40.1	40.7	40.4	40.8	40.5
Miscellaneous manufacturing ind .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>NONDURABLE GOODS</b> .....	38.5	38.6	38.6	39.1	38.5	39.0	39.5	39.4	39.6	39.5	39.5	40.0	39.7
<i>Overtime hours</i> .....	2.6	2.5	2.5	2.6	2.6	2.7	3.0	2.9	3.0	3.0	3.1	3.1	3.1
Food and kindred products .....	39.5	39.4	39.1	39.3	39.0	39.2	39.6	39.4	39.8	39.4	39.6	40.0	39.8
Tobacco manufactures .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products .....	38.3	38.8	38.9	39.7	39.0	39.6	40.6	40.4	40.7	40.7	40.9	41.3	40.7
Apparel and other textile products .....	35.1	35.0	35.1	36.6	35.2	35.6	36.2	36.1	36.1	35.8	36.2	36.8	36.4
Paper and allied products .....	41.7	41.7	41.7	41.8	41.4	42.1	42.4	42.7	42.8	42.9	42.9	43.2	43.1
Printing and publishing .....	37.1	37.1	37.1	37.5	37.1	37.4	37.7	37.4	37.6	37.7	37.5	37.8	38.0
Chemicals and allied products .....	40.8	40.7	40.9	41.0	41.0	41.2	41.5	41.6	41.9	41.8	41.6	41.8	41.5
Petroleum and coal products .....	43.8	44.1	44.4	44.5	44.4	44.9	43.5	43.6	43.8	43.7	43.5	43.2	43.8
Rubber and misc. plastics products .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Leather and leather products .....	35.4	35.8	35.8	36.3	34.9	36.0	37.0	36.8	36.8	37.4	37.2	37.8	37.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	38.8	38.9	38.9	38.6	38.6	38.8	38.8	38.9	38.9	38.9	39.3	39.4	39.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	31.9	31.8	32.1	31.9	31.4	31.7	31.7	31.9	32.0	31.9	31.8	31.7	31.7
<b>WHOLESALE TRADE</b> .....	38.4	38.4	38.4	38.5	38.2	38.4	38.5	38.6	38.7	38.6	38.5	38.7	38.6
<b>RETAIL TRADE</b> .....	29.9	29.8	30.1	29.9	29.3	29.7	29.6	29.9	29.9	29.8	29.7	29.6	29.9
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
<b>SERVICES</b> .....	32.6	32.6	32.6	32.9	32.5	32.7	32.7	32.9	32.7	32.6	32.7	32.8	32.8

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

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

p = preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

(1977=100)

Industry division and group	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>P</sup>	Oct. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	102.9	102.5	102.6	104.1	102.2	103.1	104.0	105.0	105.7	106.1	105.3	107.5	108.1
<b>GOODS-PRODUCING</b> .....	87.4	86.8	86.5	89.8	87.2	87.8	89.6	90.5	91.8	93.0	93.5	95.2	95.6
<b>MINING</b> .....	119.0	117.5	116.5	118.4	111.6	110.7	109.5	110.3	112.5	114.0	115.0	116.8	118.4
<b>CONSTRUCTION</b> .....	97.0	97.2	96.5	106.2	94.7	94.3	96.3	99.6	102.0	103.5	104.5	106.1	104.5
<b>MANUFACTURING</b> .....	84.0	83.3	83.1	85.5	84.1	85.4	87.4	87.8	88.8	90.0	90.4	92.1	92.8
<b>DURABLE GOODS</b> .....	79.9	79.0	76.8	81.4	80.4	81.6	83.7	84.3	85.4	87.2	87.8	89.8	91.1
Lumber and wood products .....	76.1	76.1	76.6	84.9	83.1	85.1	88.0	89.2	92.2	93.5	95.6	96.8	97.6
Furniture and fixtures .....	84.3	84.5	85.2	88.0	84.7	87.9	92.0	93.1	94.8	97.2	97.0	98.5	99.3
Stone, clay, and glass products .....	78.2	76.7	75.8	78.9	76.6	78.1	80.0	81.3	82.5	83.4	84.5	85.5	85.9
Primary metal industries .....	60.9	59.6	60.0	61.2	61.0	62.2	63.7	65.1	65.2	67.0	67.6	69.7	70.9
Fabricated metal products .....	77.9	77.0	76.9	79.2	78.9	79.4	81.4	82.0	82.8	83.7	85.2	87.0	87.8
Machinery, except electrical .....	82.3	80.4	79.6	79.4	78.4	78.7	80.0	81.4	82.4	84.6	85.6	87.0	88.4
Electric and electronic equipment .....	92.3	91.8	91.2	94.3	93.2	95.2	97.6	98.0	99.6	101.6	101.1	104.5	107.1
Transportation equipment .....	75.2	74.6	75.0	79.4	80.1	81.0	83.7	82.9	84.2	86.8	86.9	90.1	90.6
Instruments and related products .....	103.0	101.2	100.9	102.7	99.1	100.6	101.9	101.7	100.4	101.9	102.2	104.8	105.1
Miscellaneous manufacturing ind .....	80.9	79.4	76.4	81.0	77.7	80.7	82.9	82.4	82.7	84.5	85.4	87.9	85.2
<b>NONDURABLE GOODS</b> .....	90.1	89.7	89.5	91.7	89.6	91.0	92.8	92.9	93.9	94.2	94.2	95.4	95.4
Food and kindred products .....	96.4	95.5	94.2	95.1	93.8	94.1	96.0	95.6	97.4	96.2	95.5	96.6	94.9
Tobacco manufactures .....	87.8	82.3	93.6	94.6	82.4	89.6	89.1	88.6	88.3	87.3	82.1	83.9	84.7
Textile mill products .....	75.5	75.2	74.6	78.2	75.4	77.6	80.1	80.1	81.8	81.8	83.1	83.9	83.5
Apparel and other textile products .....	84.4	83.9	83.6	90.0	85.0	85.5	87.6	87.7	88.1	89.0	89.6	91.2	91.4
Paper and allied products .....	91.2	91.2	90.8	91.2	90.4	92.1	93.1	94.4	94.6	95.4	95.0	96.3	97.0
Printing and publishing .....	105.6	105.6	105.6	107.0	105.6	106.5	108.1	107.5	108.7	109.0	108.9	109.8	111.3
Chemicals and allied products .....	93.9	93.5	93.9	93.8	93.6	93.7	94.7	94.7	95.5	95.8	95.1	95.9	95.9
Petroleum and coal products .....	93.4	93.9	94.2	95.4	96.2	97.6	94.6	93.3	92.9	92.7	91.5	90.1	92.9
Rubber and misc. plastics products .....	89.8	89.1	90.0	91.1	90.9	94.9	98.5	100.2	100.6	102.7	103.5	105.8	106.5
Leather and leather products .....	78.4	79.9	78.1	81.0	76.4	79.9	81.7	81.2	81.2	82.6	84.0	85.3	84.2
<b>SERVICE-PRODUCING</b> .....	111.5	111.3	111.5	112.0	110.5	111.6	111.9	113.0	113.3	113.4	111.8	114.3	115.1
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	100.6	100.7	100.5	99.0	98.6	99.1	99.6	99.9	99.9	99.7	85.0	101.9	102.2
<b>WHOLESALE AND RETAIL TRADE</b> .....	104.3	103.5	104.0	104.3	102.1	103.9	103.6	104.7	105.4	105.3	105.3	105.3	106.2
<b>WHOLESALE TRADE</b> .....	107.7	107.2	106.7	106.8	105.5	106.1	106.6	107.3	108.1	107.9	108.1	109.3	109.1
<b>RETAIL TRADE</b> .....	103.0	102.1	103.0	103.4	100.8	103.0	102.4	103.7	104.4	104.3	104.2	103.8	105.1
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	116.7	116.8	117.2	117.8	116.4	116.4	117.8	119.1	118.9	119.1	119.0	119.4	120.8
<b>SERVICES</b> .....	122.5	122.8	122.9	124.1	122.5	123.9	124.7	126.1	126.1	126.3	127.1	129.1	128.7

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

p = preliminary

## ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1982			1983									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. P	Oct. P
<b>Hourly Earnings Index<sup>2</sup> (1987=100)</b>													
TOTAL PRIVATE (In current dollars) . . . . .	150.7	151.1	151.9	152.7	153.4	153.4	154.0	154.6	154.8	155.2	155.0	155.9	156.8
MINING <sup>3</sup> . . . . .	162.1	162.9	163.0	164.7	165.1	164.0	165.7	165.0	166.4	167.6	167.3	168.1	168.4
CONSTRUCTION . . . . .	142.9	141.9	144.0	144.0	145.7	145.5	145.9	144.5	144.6	144.0	144.1	145.3	145.0
MANUFACTURING . . . . .	154.7	155.3	155.8	156.5	157.3	157.1	157.0	157.7	157.8	158.2	158.1	158.3	158.7
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	151.1	152.2	153.1	154.4	155.2	155.9	155.9	156.6	156.8	157.9	155.4	158.0	159.2
WHOLESALE AND RETAIL TRADE . . . . .	147.1	147.5	146.1	148.9	149.3	149.6	150.5	151.2	151.6	152.2	152.3	153.0	152.9
FINANCE, INSURANCE, AND REAL ESTATE <sup>3</sup> . . . . .	152.0	152.7	153.0	156.7	157.4	156.7	157.4	159.0	158.2	159.1	158.2	159.8	162.0
SERVICES . . . . .	150.6	150.7	152.0	152.2	152.4	152.6	154.0	154.9	155.5	155.6	155.9	157.1	158.6
TOTAL PRIVATE (In 1977 dollars) <sup>4</sup> . . . . .	93.1	93.4	94.1	94.7	95.3	95.0	94.8	94.7	94.8	94.7	94.0	94.2	-
<b>Average hourly earnings</b>													
TOTAL PRIVATE . . . . .	\$7.76	\$7.78	\$7.82	\$7.88	\$7.91	\$7.91	\$7.95	\$7.97	\$8.00	\$8.03	\$7.98	\$8.02	\$8.13
MINING . . . . .	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION . . . . .	11.77	11.71	11.88	11.86	12.00	12.00	12.02	11.86	11.95	11.82	11.83	11.92	11.91
MANUFACTURING . . . . .	8.58	8.61	8.63	8.68	8.76	8.75	8.78	8.79	8.82	8.85	8.84	8.87	8.93
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	10.45	10.51	10.58	10.66	10.70	10.77	10.76	10.82	10.83	10.88	10.64	10.89	10.97
WHOLESALE AND RETAIL TRADE . . . . .	6.29	6.32	6.33	6.35	6.39	6.40	6.43	6.45	6.49	6.51	6.52	6.54	6.58
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES . . . . .	7.03	7.04	7.09	7.11	7.14	7.15	7.19	7.24	7.26	7.26	7.26	7.32	7.39
<b>Average weekly earnings</b>													
TOTAL PRIVATE:													
Current dollars . . . . .	269.27	269.97	272.14	276.59	272.90	275.27	277.46	279.75	280.80	281.05	279.30	284.42	286.18
1977 dollars <sup>5</sup> . . . . .	166.32	166.96	168.61	171.48	169.61	170.45	170.85	171.42	171.85	171.37	169.48	171.85	-

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

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

<sup>3</sup> The unadjusted data are shown because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>4</sup> The deflator for this series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

<sup>5</sup> See footnote 2, table C-6.

p - preliminary.

**C-9. 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		
	August 1983	September 1983	October 1983	Oct. 1982 to Oct. 1983	Aug. 1983 to Sept. 1983	Sept. 1983 to Oct. 1983
<b>TOTAL</b> . . . . .	167,309	169,992	170,283	3.6	1.6	0.2
<b>PRIVATE SECTOR</b> . . . . .	136,458	138,831	139,418	4.4	1.7	0.4
MINING . . . . .	2,256	2,293	2,327	-0.6	1.7	1.5
CONSTRUCTION . . . . .	7,814	7,846	7,767	6.6	0.4	-1.0
MANUFACTURING . . . . .	39,153	39,639	39,707	6.8	1.2	0.2
DURABLE GOODS . . . . .	23,203	23,524	23,637	8.7	1.4	0.5
NONDURABLE GOODS . . . . .	15,949	16,115	16,070	4.1	1.0	-0.3
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	9,877	10,313	10,328	1.3	16.2	0.1
WHOLESALE AND RETAIL TRADE . . . . .	34,307	34,332	34,550	1.7	0.1	0.6
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	10,304	10,367	10,460	3.9	0.6	0.9
SERVICES . . . . .	33,748	34,041	34,280	5.4	0.9	0.7
<b>GOVERNMENT</b> . . . . .	30,851	31,161	30,864	0.4	1.0	-1.0

<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*, BLS Bulletin 2134-1—Chapter 13, Productivity Measures: Business 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-10. Indexes of output and compensation per hour, unit costs, and prices,  
business sector, seasonally adjusted**

(1977 = 100)

Item	Annual average		Quarterly indexes										
			1981				1982				1983		
	1981	1982	I	II	III	IV	I	II	III	IV	I	II	III
<b>BUSINESS SECTOR:</b>													
Output per hour of all persons	101.3	101.2	100.5	101.1	102.3	101.2	101.1	100.7	101.1	101.9	102.5	r103.8	p105.0
Output	109.8	106.7	109.2	109.8	111.2	108.9	107.2	106.9	106.6	106.0	107.1	r110.2	p112.9
Hours	108.4	105.4	108.6	108.6	108.7	107.7	106.0	106.2	105.4	104.0	104.5	106.2	p107.5
Compensation per hour	143.9	155.1	139.7	142.2	145.5	148.2	151.6	153.9	156.5	158.7	160.7	162.1	p164.3
Real compensation per hour	95.9	97.4	96.3	96.1	95.6	95.6	97.1	97.4	97.1	98.0	99.4	99.2	p99.4
Unit labor costs	142.1	153.3	139.0	140.7	142.3	146.4	149.9	152.9	154.7	155.6	156.9	r156.2	p156.5
Unit nonlabor payments	136.2	136.9	131.2	133.4	139.9	140.2	137.0	137.0	136.3	137.4	140.8	145.8	p148.2
Implicit price deflator	140.1	147.7	136.3	138.2	141.5	144.3	145.5	147.5	148.5	149.4	151.5	r152.7	p153.7
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons	100.3	100.2	100.1	100.1	101.1	99.9	100.0	99.9	100.4	100.8	101.7	r103.3	p104.6
Output	109.3	106.3	109.2	109.4	110.5	108.2	106.5	106.7	106.5	105.4	106.7	r110.0	p113.1
Hours	109.0	106.0	109.1	109.2	109.4	108.2	106.5	106.8	106.0	104.6	104.9	106.5	p108.1
Compensation per hour	143.5	154.7	139.3	141.8	145.1	147.7	151.3	153.5	156.1	158.3	161.0	162.7	p164.5
Real compensation per hour	95.6	97.1	96.0	95.8	95.3	95.4	96.9	97.1	96.9	97.8	99.5	99.6	p99.5
Unit labor costs	143.0	154.4	139.2	141.6	143.5	147.8	151.3	153.6	155.4	157.1	158.3	157.4	p157.3
Unit nonlabor payments	135.0	137.0	130.3	132.2	138.3	139.5	136.4	137.7	136.5	137.2	140.7	r145.9	p149.2
Implicit price deflator	140.4	148.6	136.2	138.4	141.8	145.0	146.4	148.3	149.1	150.5	152.4	153.6	p154.6
<b>MANUFACTURING:</b>													
Output per hour of all persons	105.3	106.5	105.1	105.4	106.1	104.4	105.1	105.3	107.8	108.1	110.2	r112.6	p115.8
Output	106.5	99.1	106.8	107.8	108.1	103.3	100.2	99.5	99.5	97.2	100.1	r105.0	p110.5
Hours	101.2	93.0	101.6	102.2	101.9	98.9	95.4	94.5	92.3	89.9	90.9	93.3	p95.4
Compensation per hour	145.8	158.2	141.6	144.3	147.0	150.5	155.1	157.1	159.6	161.4	165.5	166.4	p167.6
Real compensation per hour	97.2	99.3	97.6	97.5	96.5	97.1	99.4	99.4	99.1	99.7	102.3	101.8	p101.4
Unit labor costs	138.5	148.5	134.8	136.9	138.5	144.1	147.6	149.1	148.1	149.3	150.2	r147.8	p144.7
<b>DURABLE GOODS</b>													
Output per hour of all persons	104.5	105.4	104.3	104.8	105.2	103.7	103.7	104.2	106.8	107.2	109.4	112.1	p115.4
Output	107.0	97.3	107.3	108.8	108.9	103.3	99.3	98.3	97.6	94.0	97.4	102.8	p109.0
Hours	102.4	92.3	102.9	103.8	103.4	99.6	95.7	94.3	91.4	87.7	89.0	91.7	p94.5
Compensation per hour	145.9	157.9	141.7	144.4	146.9	150.6	154.7	156.7	159.5	161.0	165.4	166.1	p167.4
Real compensation per hour	97.2	99.1	97.7	97.5	96.5	97.2	99.1	99.1	99.0	99.5	102.3	r101.6	p101.2
Unit labor costs	139.6	149.8	135.8	137.8	139.6	145.3	149.1	150.4	149.4	150.3	151.1	r148.1	p145.1
<b>NONDURABLE GOODS</b>													
Output per hour of all persons	106.4	108.2	106.3	106.5	107.4	105.4	107.2	107.0	109.2	109.4	111.3	r113.2	p116.5
Output	105.6	101.8	106.0	106.3	107.0	103.2	101.7	101.3	102.3	101.9	104.1	r108.4	p112.7
Hours	99.3	94.1	99.8	99.8	99.6	97.9	94.8	94.7	93.7	93.2	93.6	95.7	p96.7
Compensation per hour	145.2	159.2	141.0	143.7	146.4	149.9	155.9	157.8	160.2	163.0	166.6	167.6	p168.5
Real compensation per hour	96.8	99.9	97.2	97.1	96.2	96.7	99.9	99.8	99.4	100.7	103.0	102.6	p101.9
Unit labor costs	136.5	147.1	132.7	135.0	136.3	142.1	145.4	147.5	146.7	149.0	149.8	r148.1	p144.6
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour	102.3	102.8	101.8	102.1	103.0	102.2	102.4	102.3	103.2	103.4	104.3	r105.9	N.A.
Output	111.5	107.8	111.0	111.7	112.9	110.4	108.6	108.1	108.0	106.4	107.6	r111.3	N.A.
Hours	109.0	104.8	109.1	109.3	109.6	108.1	106.0	105.7	104.6	102.9	103.2	105.1	N.A.
Compensation per hour	143.6	154.8	139.5	142.0	145.0	147.8	151.7	153.7	156.1	158.1	160.4	161.6	N.A.
Real compensation per hour	95.7	97.2	96.2	95.9	95.2	95.4	97.2	97.2	96.9	97.7	99.2	98.9	N.A.
Total unit costs	142.7	153.5	138.4	141.1	143.6	147.7	150.9	153.1	153.8	156.3	156.7	r155.3	N.A.
Unit labor costs	140.3	150.6	137.0	139.0	140.7	144.6	148.1	150.2	151.1	152.9	153.9	r152.5	N.A.
Unit nonlabor costs	149.4	161.8	142.3	147.0	151.9	156.6	158.9	161.2	161.3	165.9	164.7	r163.1	N.A.
Unit profits	104.1	88.9	103.0	100.3	108.6	104.2	90.8	90.3	91.2	83.0	96.1	r115.0	N.A.
Implicit price deflator	138.3	146.1	134.3	136.4	139.6	142.7	144.0	145.9	146.6	147.9	149.7	r150.7	N.A.

p=preliminary.  
r=revised.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

**C-11. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, business sector, seasonally adjusted at annual rate**

Item	Quarterly percent change						Annual percent change					
	1982 I to 1982 II	1982 II to 1982 III	1982 III to 1982 IV	1982 IV to 1983 I	1983 I to 1983 II	1983 II to 1983 III	1981 II to 1982 II	1981 III to 1982 III	1981 IV to 1982 IV	1982 I to 1983 I	1982 II to 1983 II	1982 III to 1983 III
	<b>BUSINESS SECTOR:</b>											
Output per hour of all persons	-1.6	1.7	3.3	2.0	r5.4	p4.8	-0.4	-1.1	0.7	1.3	r3.1	p3.9
Output	-1.0	-1.1	-2.3	4.2	r12.2	p10.0	-2.6	-4.1	-2.7	-0.1	r3.1	p5.9
Hours	0.6	-2.7	-5.4	2.1	6.5	p5.0	-2.2	-3.0	-3.4	-1.4	0.0	p1.9
Compensation per hour	6.4	6.7	5.7	5.4	3.5	p5.6	8.2	7.5	7.1	6.1	5.3	p5.0
Real compensation per hour	1.1	-1.0	3.7	5.8	-0.7	p0.8	1.3	1.6	2.5	2.4	1.9	p2.4
Unit labor costs	8.1	5.0	2.3	3.3	r-1.8	p0.8	8.7	8.7	6.3	4.7	r2.2	p1.1
Unit nonlabor payments	-0.1	-2.0	3.2	10.5	15.0	p6.7	2.7	-2.6	-2.0	2.8	6.5	p8.8
Implicit price deflator	5.5	2.7	2.6	5.5	r3.3	p2.7	6.7	4.9	3.5	4.1	3.5	p3.5
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	-0.4	2.3	1.3	3.7	r6.6	p5.0	-0.3	-0.6	0.8	1.7	r3.4	p4.1
Output	0.8	-0.6	-4.1	4.9	r13.2	p11.4	-2.5	-3.6	-2.6	0.2	r3.1	p6.1
Hours	1.2	-2.9	-5.3	1.2	6.2	p6.1	-2.2	-3.0	-3.4	-1.5	r-0.3	p1.9
Compensation per hour	5.8	7.2	5.8	6.8	4.3	p4.5	8.2	7.6	7.2	6.4	6.0	p5.3
Real compensation per hour	0.5	-0.6	3.7	7.2	0.1	p-0.3	1.3	1.7	2.6	2.7	2.6	p2.7
Unit labor costs	6.2	4.7	4.4	3.0	r-2.1	p-0.5	8.5	8.3	6.3	4.6	r2.5	p1.2
Unit nonlabor payments	3.7	-3.4	2.0	10.6	r15.7	p9.2	4.2	-1.3	-1.6	3.1	r6.0	p9.3
Implicit price deflator	5.4	2.2	3.7	5.3	r3.2	p2.5	7.1	5.2	3.7	4.1	3.6	p3.7
<b>MANUFACTURING:</b>												
Output per hour of all persons	0.8	9.6	1.2	8.0	r9.0	p12.1	-0.1	1.6	3.5	4.8	r6.9	p7.5
Output	-2.9	0.0	-9.0	12.7	r21.2	p22.5	-7.7	-8.0	-5.9	-0.1	r5.6	p11.1
Hours	-3.7	-8.7	-10.0	4.3	r11.1	p9.3	-7.6	-9.4	-9.1	-4.7	-1.2	p3.3
Compensation per hour	5.1	6.5	4.5	10.7	2.1	p3.1	8.8	8.6	7.3	6.7	5.9	p5.0
Real compensation per hour	-0.2	-1.2	2.5	11.1	-2.1	p-1.6	1.9	2.6	2.7	3.0	2.5	p2.4
Unit labor costs	4.3	-2.8	3.3	2.5	r-6.4	p-8.0	8.9	6.9	3.6	1.8	r-0.9	p-2.3
<b>DURABLE GOODS</b>												
Output per hour of all persons	1.8	10.4	1.4	8.7	r10.3	p12.0	-0.5	1.5	3.4	5.5	7.6	p8.0
Output	-4.0	-2.5	-14.2	15.5	r24.0	p26.5	-9.7	-10.3	-9.0	-1.9	4.6	p11.7
Hours	-5.7	-11.7	-15.4	6.3	12.4	p12.9	-9.2	-11.6	-12.0	-7.0	-2.8	p3.4
Compensation per hour	5.4	7.4	3.8	11.3	r1.6	p3.2	8.5	8.6	6.9	7.0	6.0	p4.9
Real compensation per hour	0.1	-0.4	1.8	11.8	r-2.5	p-1.5	1.6	2.6	2.3	3.2	r2.5	p2.2
Unit labor costs	3.5	-2.7	2.4	2.4	r-7.9	p-7.9	9.1	7.0	3.4	1.4	-1.5	p-2.9
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	-0.7	8.4	0.7	7.1	r7.3	p12.2	0.5	1.6	3.7	3.8	r5.8	p6.7
Output	-1.4	3.8	-1.2	8.8	r17.3	p17.1	-4.7	-4.4	-1.3	2.4	r7.0	p10.2
Hours	-0.6	-4.2	-1.9	1.7	r9.3	p4.4	-5.2	-6.0	-4.8	-1.3	1.1	p3.3
Compensation per hour	5.2	6.0	7.3	9.2	r2.5	p2.0	9.9	9.4	8.8	6.9	6.2	p5.2
Real compensation per hour	-0.1	-1.7	5.2	9.6	r-1.6	p-2.6	2.8	3.4	4.1	3.2	r2.8	p2.5
Unit labor costs	6.0	-2.2	6.6	2.0	r-4.5	p-9.1	9.3	7.6	4.9	3.0	r0.4	p-1.4
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	-0.5	3.8	0.6	3.4	r6.5	N.A.	0.1	0.2	1.2	1.8	r3.6	N.A.
Output	-1.8	-0.5	-6.0	4.6	r14.6	N.A.	-3.2	-4.3	-3.7	-1.0	r2.9	N.A.
Hours	-1.2	-4.1	-6.5	1.2	7.6	N.A.	-3.3	-4.5	-4.8	-2.7	-0.6	N.A.
Compensation per hour	5.4	6.4	5.4	6.0	2.9	N.A.	8.2	7.6	7.0	5.8	5.2	N.A.
Real compensation per hour	0.1	-1.3	3.4	6.4	r-1.2	N.A.	1.3	1.7	2.4	2.1	1.7	N.A.
Total unit costs	6.0	1.8	6.7	1.0	r-3.5	N.A.	8.5	7.1	5.8	3.8	r1.4	N.A.
Unit labor costs	6.0	2.4	4.8	2.5	r-3.4	N.A.	8.1	7.4	5.7	3.9	r1.5	N.A.
Unit nonlabor costs	6.0	0.1	11.9	-2.8	r-3.8	N.A.	9.7	6.2	6.0	3.7	r1.2	N.A.
Unit profits	-2.1	3.8	-31.4	79.9	r104.7	N.A.	-9.9	-16.1	-20.3	5.8	r27.3	N.A.
Implicit price deflator	5.4	1.9	3.6	5.1	r2.5	N.A.	7.0	5.0	3.6	4.0	r3.3	N.A.

p=preliminary.  
r=revised.

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

**C-12. 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		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>ALABAMA</b> .....	\$285.71	\$310.78	\$318.17	39.3	41.0	41.7	\$7.27	\$7.58	\$7.63
Birmingham .....	288.23	322.78	333.18	37.0	40.5	41.7	7.79	7.97	7.99
Mobile .....	388.27	406.80	419.00	41.0	40.0	41.2	9.47	10.17	10.17
<b>ALASKA</b> .....	389.77	436.60	(*)	33.2	41.9	(*)	11.74	10.42	(*)
<b>ARIZONA</b> .....	337.42	361.89	369.96	38.3	40.3	40.7	8.81	8.98	9.09
<b>ARKANSAS</b> .....	263.35	286.13	287.45	38.9	40.3	40.6	6.77	7.10	7.08
Fayetteville—Springdale .....	239.46	260.09	256.86	39.0	40.2	39.7	6.14	6.47	6.47
Fort Smith .....	263.41	279.42	296.38	37.9	39.3	40.6	6.95	7.11	7.30
Little Rock—North Little Rock .....	299.54	336.57	337.26	38.6	40.6	42.0	7.76	8.29	8.03
Pine Bluff .....	372.20	389.14	378.22	40.5	40.2	41.7	9.19	9.68	9.07
<b>CALIFORNIA</b> .....	366.21	383.51	386.88	39.0	40.2	40.3	9.39	9.54	9.60
<b>COLORADO</b> .....	340.56	363.01	366.93	39.1	40.2	40.5	8.71	9.03	9.06
Denver—Boulder .....	352.52	374.92	379.49	39.3	39.8	40.2	8.97	9.42	9.44
<b>CONNECTICUT</b> .....	334.43	364.79	371.18	40.1	41.5	41.8	8.34	8.79	8.88
Bridgeport .....	352.00	392.12	396.44	40.6	42.3	42.4	8.67	9.27	9.35
Hartford .....	359.48	385.81	397.28	40.3	41.0	41.6	8.92	9.41	9.55
New Britain .....	342.50	380.30	384.89	40.2	41.7	41.7	8.52	9.12	9.23
New Haven—West Haven .....	319.87	340.10	352.46	39.2	39.5	40.7	8.16	8.61	8.66
Stamford .....	315.99	346.73	344.60	40.1	39.9	39.7	7.88	8.69	8.68
Waterbury .....	283.11	326.31	329.94	40.1	43.8	43.7	7.06	7.45	7.55
<b>DELAWARE</b> .....	338.24	368.52	387.96	38.7	40.1	42.4	8.74	9.19	9.15
Wilmington .....	386.14	433.88	466.52	37.2	40.1	43.6	10.38	10.82	10.70
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	361.53	381.60	384.47	39.0	39.3	39.8	9.27	9.71	9.66
<b>FLORIDA</b> .....	289.81	294.52	297.08	39.7	40.4	40.2	7.30	7.29	7.39
Fort Lauderdale—Hollywood .....	268.88	285.91	285.65	39.6	41.8	41.1	6.79	6.84	6.95
Jacksonville .....	293.90	338.23	328.78	36.6	41.5	41.2	8.03	8.15	7.98
Lakeland—Winter Haven .....	309.32	306.27	301.84	40.7	41.0	40.9	7.60	7.47	7.38
Miami .....	231.07	230.51	232.94	38.9	37.3	38.0	5.94	6.18	6.13
Orlando .....	299.55	324.86	323.67	40.7	42.3	42.2	7.36	7.68	7.67
Pensacola .....	372.36	371.32	368.52	42.8	42.1	41.5	8.70	8.82	8.88
Tampa—St. Petersburg .....	294.94	300.35	298.49	41.6	41.2	40.5	7.09	7.29	7.37
West Palm Beach—Boca Raton .....	291.51	294.47	317.24	40.6	38.9	41.2	7.18	7.57	7.70
<b>GEORGIA</b> .....	266.74	287.16	295.36	39.4	41.2	41.6	6.77	6.97	7.10
Atlanta .....	299.47	333.88	339.83	36.7	39.7	39.7	8.16	8.41	8.56
Savannah .....	389.84	415.84	416.74	44.3	45.2	45.2	8.80	9.20	9.22
<b>HAWAII</b> .....	313.81	312.83	322.26	37.9	39.8	39.3	8.28	7.86	8.20
Honolulu .....	310.79	313.63	327.55	37.4	39.6	39.8	8.31	7.92	8.23
<b>IDAHO</b> .....	340.86	344.84	363.48	38.0	37.2	39.0	8.97	9.27	9.32
Boise City .....	323.00	312.98	315.26	38.0	37.8	38.4	8.50	8.28	8.21
<b>ILLINOIS</b> .....	371.62	398.45	408.62	39.2	40.7	41.4	9.48	9.79	9.87
Bloomington—Normal .....	343.93	359.68	364.99	38.6	39.7	40.6	8.91	9.06	8.99
Champaign—Urbana—Rantoul .....	339.57	346.70	346.88	38.5	37.4	37.5	8.82	9.27	9.25
Chicago SMSA .....	347.52	387.69	395.65	38.4	40.3	41.0	9.05	9.62	9.65
Davenport—Rock Island—Moline .....	374.92	491.09	509.94	31.8	39.7	40.6	11.79	12.37	12.56
Decatur .....	478.79	512.89	519.57	38.8	40.9	41.4	12.34	12.54	12.55
Kankakee .....	314.26	322.71	337.59	38.0	37.7	39.3	8.27	8.56	8.59
Peoria .....	482.69	484.79	471.08	38.4	39.9	38.9	12.57	12.15	12.11
Rockford .....	379.49	392.23	407.69	40.5	40.9	41.9	9.37	9.59	9.73
Springfield .....	438.87	448.14	448.63	40.3	40.3	40.6	10.89	11.12	11.05
<b>INDIANA</b> .....	384.16	412.05	423.26	39.2	41.0	41.7	9.80	10.05	10.15
Gary—Hammond—East Chicago .....	521.47	520.90	(*)	38.8	40.6	(*)	13.44	12.83	(*)
Indianapolis .....	390.02	412.41	(*)	40.5	41.2	(*)	9.63	10.01	(*)
<b>IOWA</b> .....	400.78	396.01	408.83	39.1	39.8	40.2	10.25	9.95	10.17
Cedar Rapids .....	401.00	413.08	415.75	39.9	40.3	40.8	10.05	10.25	10.19
Des Moines .....	461.03	465.60	473.21	40.3	38.8	39.5	11.44	12.00	11.98

See footnotes at end of table.

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

**C-12. 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		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>IOWA—Continued</b>									
Dubuque .....	\$429.90	\$457.07	\$414.53	38.8	42.4	38.1	\$11.08	\$10.78	\$10.88
Sloux City .....	382.62	352.60	372.30	42.0	41.0	42.5	9.11	8.60	8.76
Waterloo—Cedar Falls .....	499.29	350.55	467.53	37.4	34.3	35.1	13.35	10.22	13.32
<b>KANSAS</b>									
Topeka .....	356.11	359.99	366.96	39.7	39.3	39.5	8.97	9.16	9.29
Wichita .....	364.80	357.96	400.75	39.1	38.0	41.4	9.33	9.42	9.68
Wichita .....	379.93	414.92	406.02	39.7	41.0	40.2	9.57	10.12	10.10
<b>KENTUCKY</b>									
Lexington—Fayette .....	329.26	340.76	344.75	38.6	38.9	39.4	8.53	8.76	8.75
Lexington—Fayette .....	333.50	371.33	379.22	38.6	39.8	40.3	8.64	9.33	9.41
Louisville .....	385.34	400.57	416.34	39.2	39.7	40.5	9.83	10.09	10.28
<b>LOUISIANA</b>									
Baton Rouge .....	391.64	391.25	407.95	40.5	39.6	41.0	9.67	9.88	9.95
Baton Rouge .....	457.02	483.11	490.06	39.5	41.9	42.8	11.57	11.53	11.45
New Orleans .....	346.32	340.96	366.68	37.0	37.8	39.9	9.36	9.02	9.19
Shreveport .....	353.51	371.94	365.96	39.9	39.4	38.2	8.86	9.44	9.58
<b>MAINE</b>									
Lewiston—Auburn .....	298.75	302.00	310.64	40.1	40.0	40.5	7.45	7.55	7.67
Lewiston—Auburn .....	229.36	240.73	244.67	38.1	39.4	39.4	6.02	6.11	6.21
Portland .....	280.74	292.19	298.37	38.3	37.8	38.8	7.33	7.73	7.69
<b>MARYLAND</b>									
Baltimore .....	346.04	365.40	369.96	39.1	40.6	40.7	8.85	9.00	9.09
Baltimore .....	371.59	390.82	394.54	39.7	41.4	41.4	9.36	9.44	9.53
<b>MASSACHUSETTS</b>									
Boston .....	299.93	318.80	330.48	38.7	40.0	40.7	7.75	7.97	8.12
Boston .....	326.17	339.95	350.40	38.6	39.3	40.0	8.45	8.65	8.76
Brockton .....	239.15	260.63	260.29	37.9	38.9	39.2	6.31	6.70	6.64
Fall River .....	210.02	252.55	250.04	35.9	39.4	37.6	5.85	6.41	6.65
Lawrence—Haverhill .....	307.68	299.05	332.88	38.8	39.4	40.3	7.93	7.59	8.26
Lowell .....	259.91	304.84	304.21	36.3	40.7	40.4	7.16	7.49	7.53
New Bedford .....	259.82	279.94	288.29	37.6	38.4	39.6	6.91	7.29	7.28
Springfield—Chicopee—Holyoke .....	306.88	330.48	343.21	39.7	40.5	41.5	7.73	8.16	8.27
Worcester .....	300.67	330.30	338.92	38.4	39.7	40.3	7.83	8.32	8.41
<b>MICHIGAN</b>									
Ann Arbor .....	431.09	483.62	511.69	38.2	42.1	43.5	11.29	11.49	11.77
Ann Arbor .....	482.01	503.40	544.01	39.6	43.0	44.4	12.17	11.72	12.25
Battle Creek .....	441.28	510.32	506.70	37.5	41.2	41.7	11.78	12.40	12.15
Bay City .....	406.71	433.73	438.20	41.7	42.8	42.5	9.75	10.14	10.32
Detroit .....	472.46	515.21	543.56	39.8	42.4	43.7	11.88	12.16	12.43
Flint .....	464.93	572.96	618.63	35.3	43.3	46.1	13.16	13.22	13.41
Grand Rapids .....	352.25	408.97	426.06	37.3	41.3	42.2	9.43	9.91	10.10
Jackson .....	383.35	395.11	403.04	39.0	40.5	41.6	9.82	9.76	9.70
Kalamazoo—Portage .....	388.66	449.07	465.48	38.0	41.4	42.4	10.24	10.86	10.97
Lansing—East Lansing .....	426.16	518.86	635.10	34.4	41.1	46.7	12.38	12.63	13.61
Muskegon—Norton Shores—Muskegon Heights .....	377.41	428.96	411.14	38.6	40.4	39.5	9.78	10.61	10.40
Saginaw .....	472.47	571.18	598.71	36.1	41.9	43.2	13.10	13.64	13.86
<b>MINNESOTA</b>									
Duluth—Superior .....	352.17	379.45	384.06	38.7	39.9	40.3	9.10	9.51	9.53
Duluth—Superior .....	332.64	396.29	393.60	37.8	38.7	38.4	8.80	10.24	10.25
Minneapolis—St. Paul .....	377.33	406.13	410.80	38.9	39.7	40.0	9.70	10.23	10.27
St. Cloud .....	289.98	308.60	316.35	35.8	35.8	36.7	8.10	8.62	8.62
<b>MISSISSIPPI</b>									
Jackson .....	248.58	269.73	276.22	38.6	40.5	40.8	6.44	6.66	6.77
Jackson .....	268.27	299.55	313.59	38.6	40.1	41.1	6.95	7.47	7.63
<b>MISSOURI</b>									
Kansas City .....	328.79	352.48	365.57	38.5	40.1	40.8	8.54	8.79	8.96
Kansas City .....	372.66	391.82	411.64	38.9	39.9	41.0	9.58	9.82	10.04
St. Joseph .....	299.85	317.00	330.85	38.1	38.8	39.2	7.87	8.17	8.44
St. Louis .....	374.78	407.23	414.53	38.4	40.2	40.6	9.76	10.13	10.21
Springfield .....	297.89	327.98	332.09	39.3	39.9	40.4	7.58	8.22	8.22
<b>MONTANA</b>									
.....	408.40	422.75	426.26	40.0	40.3	40.1	10.21	10.49	10.63
<b>NEBRASKA</b>									
Lincoln .....	348.75	353.33	355.01	40.6	40.8	40.9	8.59	8.66	8.68
Lincoln .....	348.53	366.30	381.80	40.2	40.7	41.5	8.67	9.00	9.20
Omaha .....	355.54	364.31	368.34	39.2	40.3	40.7	9.07	9.04	9.05
<b>NEVADA</b>									
Las Vegas .....	329.49	346.50	355.27	37.4	38.5	39.3	8.81	9.00	9.04
Las Vegas .....	422.41	406.27	(*)	39.7	38.4	(*)	10.64	10.58	(*)

See footnotes at end of table.

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

**C-12. 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		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>NEW HAMPSHIRE</b> .....	\$274.48	\$303.06	\$302.54	39.1	40.3	40.5	\$7.02	\$7.52	\$7.47
Manchester .....	263.34	272.45	276.91	39.6	39.6	39.9	6.65	6.88	6.94
Nashua .....	313.97	354.24	364.08	39.1	40.3	41.0	8.03	8.79	8.88
<b>NEW JERSEY</b> .....	351.60	379.35	(*)	39.9	41.1	(*)	8.81	9.23	(*)
Atlantic City .....	268.30	311.12	(*)	39.5	42.1	(*)	6.79	7.39	(*)
Camden <sup>2</sup> .....	389.16	396.40	(*)	41.7	40.0	(*)	9.33	9.91	(*)
Hackensack <sup>2</sup> .....	309.95	328.85	(*)	39.7	40.8	(*)	7.81	8.06	(*)
Jersey City <sup>2</sup> .....	335.51	350.83	(*)	40.5	40.7	(*)	8.28	8.62	(*)
New Brunswick—Perth Amboy—Sayreville <sup>2</sup> .....	384.07	424.77	(*)	38.5	41.2	(*)	9.99	10.31	(*)
Newark <sup>2</sup> .....	363.00	383.35	(*)	40.3	41.0	(*)	9.00	9.35	(*)
Paterson—Clifton—Passaic <sup>2</sup> .....	334.15	366.74	(*)	39.8	41.3	(*)	8.40	8.88	(*)
Trenton .....	340.58	371.13	(*)	39.3	41.1	(*)	8.67	9.03	(*)
<b>NEW MEXICO</b> .....	288.28	303.34	312.84	38.8	39.6	39.5	7.43	7.66	7.92
Albuquerque .....	303.78	289.45	298.38	38.6	38.8	38.6	7.87	7.46	7.73
<b>NEW YORK</b> .....	324.24	344.86	353.33	38.6	39.1	39.7	8.40	8.82	8.90
Albany—Schenectady—Troy .....	347.90	367.83	377.92	39.4	40.2	40.9	8.83	9.15	9.24
Binghamton .....	297.60	321.18	321.59	40.0	40.4	40.3	7.44	7.95	7.98
Buffalo .....	415.06	453.91	466.38	38.9	40.6	41.2	10.67	11.18	11.32
Elmira .....	339.55	345.35	370.27	39.3	38.5	40.6	8.64	8.97	9.12
Monroe County <sup>2</sup> .....	442.13	485.72	495.13	40.6	41.8	42.5	10.89	11.62	11.65
Nassau—Suffolk <sup>2</sup> .....	325.51	346.73	353.28	39.6	39.9	40.1	8.22	8.69	8.81
New York—Northeastern New Jersey .....	312.15	332.98	(*)	38.3	38.9	(*)	8.15	8.56	(*)
New York and Nassau—Suffolk <sup>2</sup> .....	286.04	303.62	311.47	37.1	37.3	37.8	7.71	8.14	8.24
New York SMSA <sup>1</sup> .....	275.18	290.97	297.85	36.4	36.6	37.0	7.56	7.95	8.05
New York City <sup>2</sup> .....	270.05	286.04	291.40	36.2	36.3	36.7	7.46	7.88	7.94
Poughkeepsie .....	330.54	371.52	372.37	42.0	43.1	42.9	7.87	8.62	8.68
Rochester .....	413.70	448.11	456.65	40.4	41.3	42.4	10.24	10.85	10.77
Rockland County <sup>2</sup> .....	330.40	348.65	363.91	39.1	39.8	40.3	8.45	8.76	9.03
Syracuse .....	362.60	394.54	402.11	40.2	40.8	41.2	9.02	9.67	9.76
Utica—Rome .....	296.32	323.08	338.92	37.7	39.4	40.3	7.86	8.20	8.41
Westchester County <sup>2</sup> .....	300.44	314.91	337.08	37.0	37.4	38.7	8.12	8.42	8.71
<b>NORTH CAROLINA</b> .....	242.44	270.40	274.03	38.0	40.6	40.9	6.38	6.66	6.70
Asheville .....	242.35	260.69	267.55	38.9	39.8	40.6	6.23	6.55	6.59
Charlotte—Gastonia .....	246.40	283.92	281.30	38.5	42.0	42.3	6.40	6.76	6.65
Greensboro—Winston-Salem—High Point .....	267.07	284.53	289.98	37.3	39.3	39.4	7.16	7.24	7.36
Raleigh—Durham .....	295.14	327.89	328.30	39.3	41.4	41.4	7.51	7.92	7.93
<b>NORTH DAKOTA</b> .....	288.80	295.64	293.35	37.9	38.0	37.9	7.62	7.78	7.74
Fargo—Moorhead .....	309.60	300.14	302.95	38.7	37.1	38.3	8.00	8.09	7.91
<b>OHIO</b> .....	410.66	433.42	444.56	40.3	41.2	41.9	10.19	10.52	10.61
Akron .....	406.31	446.16	463.22	41.0	42.9	43.7	9.91	10.40	10.60
Canton .....	406.25	421.40	433.23	39.1	39.2	40.3	10.39	10.75	10.75
Cincinnati .....	392.04	415.34	413.88	40.5	40.8	41.1	9.68	10.18	10.07
Cleveland .....	406.30	427.22	438.05	39.6	41.0	41.6	10.26	10.42	10.53
Columbus .....	376.91	402.98	410.64	39.8	40.5	40.9	9.47	9.95	10.04
Dayton .....	401.18	445.42	462.24	39.8	42.1	42.8	10.08	10.58	10.80
Toledo .....	456.87	479.25	485.83	41.8	42.6	43.3	10.93	11.25	11.22
Youngstown—Warren .....	464.13	505.93	523.25	39.5	41.3	42.3	11.75	12.25	12.37
<b>OKLAHOMA</b> .....	345.63	364.57	378.51	39.5	39.8	40.7	8.75	9.16	9.30
Oklahoma City .....	355.71	375.09	396.47	39.7	39.4	41.0	8.96	9.52	9.67
Tulsa .....	382.39	400.77	419.15	39.3	40.4	41.5	9.73	9.92	10.10
<b>OREGON</b> .....	390.72	394.79	(*)	38.8	39.4	(*)	10.07	10.02	(*)
Eugene—Springfield .....	407.79	417.76	395.48	39.4	39.3	38.1	10.35	10.63	10.38
Medford .....	370.92	373.05	379.01	38.2	38.9	38.4	9.71	9.59	9.87
Portland .....	404.91	407.40	419.12	38.6	39.4	40.3	10.49	10.34	10.40
Salem .....	303.18	304.18	289.52	37.2	39.3	36.1	8.15	7.74	8.02
<b>PENNSYLVANIA</b> .....	328.10	354.32	361.20	37.8	39.5	40.0	8.68	8.97	9.03
Allentown—Bethlehem—Easton .....	322.15	349.00	356.32	37.2	38.1	38.9	8.66	9.16	9.16
Altoona .....	279.51	303.80	307.30	38.5	39.2	39.6	7.26	7.75	7.76
Delaware Valley <sup>2</sup> .....	345.42	367.30	372.33	38.0	39.2	39.4	9.09	9.37	9.45
Erie .....	365.60	391.88	408.37	40.0	40.4	42.1	9.14	9.70	9.70
Harrisburg .....	313.12	343.41	354.96	38.0	39.7	40.8	8.24	8.65	8.70
Johnstown .....	300.84	296.46	307.13	34.9	36.6	37.5	8.62	8.10	8.19

See footnotes at end of table.



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

**C-12. 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		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>PENNSYLVANIA—Continued</b>									
Lancaster .....	\$302.16	\$330.30	\$334.03	38.2	39.7	40.1	\$7.91	\$8.32	\$8.33
Northeast Pennsylvania .....	253.74	281.60	281.58	36.3	37.9	38.0	6.99	7.43	7.41
Philadelphia SMSA .....	347.24	370.21	(*)	38.2	39.3	(*)	9.09	9.42	(*)
Pittsburgh .....	391.99	426.31	436.69	36.6	39.4	40.1	10.71	10.82	10.89
Reading .....	307.10	348.00	358.16	37.0	40.0	40.7	8.30	8.70	8.80
Williamsport .....	311.22	314.40	312.83	39.0	40.0	39.8	7.98	7.86	7.86
York .....	318.38	333.74	341.55	40.2	41.0	41.5	7.92	8.14	8.23
<b>RHODE ISLAND</b>									
Providence—Warwick—Pawtucket .....	252.22	267.65	278.30	38.1	38.4	39.7	6.62	6.97	7.01
	251.94	263.50	274.22	38.7	38.3	39.8	6.51	6.88	6.89
<b>SOUTH CAROLINA</b>									
Charleston—North Charleston .....	260.35	288.05	291.70	38.4	40.8	41.2	6.78	7.06	7.08
Columbia .....	322.77	353.21	371.09	40.6	41.8	43.1	7.95	8.45	8.61
Greenville—Spartanburg .....	247.87	276.69	281.36	37.9	40.1	40.6	6.54	6.90	6.93
	249.62	274.18	277.69	38.7	40.8	41.2	6.45	6.72	6.74
<b>SOUTH DAKOTA</b>									
Sioux Falls .....	274.23	296.74	300.98	38.3	41.1	41.4	7.16	7.22	7.27
	318.45	(*)	(*)	36.9	(*)	(*)	8.63	(*)	(*)
<b>TENNESSEE</b>									
Chattanooga .....	281.69	306.41	313.18	38.8	40.8	41.1	7.26	7.51	7.62
Knoxville .....	285.05	304.56	311.10	39.7	42.3	42.5	7.18	7.20	7.32
Memphis .....	336.10	357.20	362.64	38.9	40.0	40.7	8.64	8.93	8.91
Nashville—Davidson .....	313.24	331.25	338.62	39.5	41.2	41.6	7.93	8.04	8.14
	314.01	337.43	334.92	39.3	41.0	40.4	7.99	8.23	8.29
<b>TEXAS</b>									
Dallas—Fort Worth .....	345.79	363.12	369.22	39.7	40.8	41.3	8.71	8.90	8.94
Houston .....	332.59	362.37	367.09	39.5	40.9	41.2	8.42	8.86	8.91
San Antonio .....	425.08	438.04	456.03	40.6	40.9	42.5	10.47	10.71	10.73
	250.49	275.67	280.57	39.2	40.9	41.2	6.39	6.74	6.81
<b>UTAH</b>									
Salt Lake City—Ogden .....	326.90	342.42	345.54	38.1	39.0	39.0	8.58	8.78	8.86
	325.47	347.53	346.39	38.7	39.9	40.8	8.41	8.71	8.49
<b>VERMONT</b>									
Burlington .....	294.71	311.89	317.38	39.4	40.4	40.9	7.48	7.72	7.76
Springfield .....	340.29	366.37	377.11	40.9	42.7	43.0	8.32	8.58	8.77
	297.59	307.67	322.00	38.3	38.7	40.2	7.77	7.95	8.01
<b>VIRGINIA</b>									
Bristol .....	287.90	309.54	315.06	38.8	40.2	40.6	7.42	7.70	7.76
Lynchburg .....	240.96	263.00	256.62	36.9	40.4	39.0	6.53	6.51	6.58
Norfolk—Virginia Beach—Portsmouth .....	266.92	296.61	294.11	37.7	40.3	40.4	7.08	7.36	7.28
Northern Virginia .....	318.42	324.34	343.48	41.3	40.9	42.3	7.71	7.93	8.12
Petersburg—Colonial Heights—Hopewell .....	331.68	345.87	351.70	40.4	40.5	40.8	8.21	8.54	8.62
Richmond .....	378.24	396.37	398.52	39.4	40.2	41.0	9.60	9.86	9.72
Roanoke .....	367.54	401.19	414.23	39.1	38.8	40.1	9.40	10.34	10.33
	264.37	278.00	282.49	39.4	40.0	41.0	6.71	6.95	6.89
<b>WASHINGTON</b>									
	439.60	443.12	(*)	38.8	38.7	(*)	11.33	11.45	(*)
<b>WEST VIRGINIA</b>									
Charleston .....	363.66	387.50	394.62	38.0	39.5	39.7	9.57	9.81	9.94
Huntington—Ashland .....	452.09	486.06	486.33	41.4	42.9	43.0	10.92	11.33	11.31
Parkersburg—Marietta .....	393.02	422.99	427.05	35.6	38.7	39.0	11.04	10.93	10.95
Wheeling .....	411.59	440.43	444.55	39.5	41.2	41.2	10.42	10.69	10.79
	389.18	429.71	457.47	37.1	39.1	39.1	10.49	10.99	11.70
<b>WISCONSIN</b>									
Appleton—Oshkosh .....	371.72	387.73	400.75	39.7	40.9	41.4	9.36	9.48	9.68
Eau Claire .....	363.93	392.40	404.37	41.0	41.7	42.7	8.88	9.41	9.47
Green Bay .....	362.85	381.48	383.11	40.1	40.8	40.8	9.06	9.35	9.39
Janesville—Beloit .....	412.95	429.42	426.38	42.8	42.1	42.3	9.66	10.20	10.08
Kenosha .....	384.38	395.28	500.57	38.9	40.5	42.1	9.87	9.76	11.89
La Crosse .....	466.94	485.75	515.03	40.8	41.2	42.6	11.45	11.79	12.09
Madison .....	334.12	352.72	342.42	39.0	39.9	39.0	8.57	8.84	8.78
Milwaukee .....	352.98	367.02	376.38	39.0	40.6	41.0	9.06	9.04	9.18
Racine .....	415.74	434.16	441.57	39.3	40.5	41.0	10.59	10.72	10.77
	399.48	397.20	420.04	39.4	39.8	41.1	10.14	9.98	10.22
<b>WYOMING</b>									
	311.45	339.34	334.02	36.3	38.3	37.7	8.58	8.86	8.86

See footnotes at end of table.

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

**C-12. 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		
	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P	SEP. 1982	AUG. 1983	SEP. 1983P
<b>VIRGIN ISLANDS</b> .....	430.43	425.80	432.01	43.0	41.1	41.7	10.01	10.36	10.36

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

<sup>8</sup> Subarea of 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.

NOTE: All State and area data have been adjusted to March 1982 benchmarks except Alaska and Wisconsin.

SOURCE: Cooperating State agencies listed on inside back cover.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P
<b>ALABAMA</b> .....	1,732.3	1,746.1	1,740.4	256.6	214.3	211.5	14.8	12.3	12.2
Birmingham .....	390.7	390.0	388.1	60.1	45.2	46.9	15.4	11.6	12.1
Huntsville .....	152.5	157.6	158.5	18.1	14.1	14.2	11.9	8.9	8.9
Mobile .....	196.2	201.6	197.0	29.2	29.5	28.2	14.9	14.7	14.3
Montgomery .....	126.3	125.7	125.6	14.7	12.9	13.1	11.6	10.3	10.4
Tuscaloosa .....	54.6	55.8	55.6	6.7	6.5	6.1	12.3	11.6	11.0
<b>ALASKA</b> .....	211.8	232.0	221.5	16.8	19.0	16.9	7.9	8.2	7.6
<b>ARIZONA</b> .....	1,333.5	1,327.5	1,351.4	147.0	125.0	106.4	11.0	9.4	7.9
Phoenix .....	809.5	811.6	829.2	70.9	57.8	51.4	8.8	7.1	6.2
Tucson .....	248.9	246.1	252.5	26.5	21.1	19.0	10.6	8.6	7.5
<b>ARKANSAS</b> .....	1,036.6	1,019.8	1,021.8	92.2	92.9	92.9	8.9	9.1	9.1
Fayetteville-Springdale .....	83.3	81.4	81.9	5.7	5.1	5.2	6.8	6.3	6.3
Fort Smith' .....	85.9	85.9	86.4	8.6	8.7	8.0	10.0	10.1	9.2
Little Rock—North Little Rock .....	199.3	196.3	194.4	14.6	15.3	15.5	7.3	7.8	8.0
Pine Bluff .....	39.3	37.4	37.9	4.1	3.7	3.7	10.5	9.9	9.8
<b>CALIFORNIA</b> <sup>1</sup> .....	12,268.7	12,493.2	12,358.0	1,184.5	1,187.6	1,025.8	9.7	9.5	8.3
Anaheim—Santa Ana—Garden Grove .....	1,196.4	1,224.4	1,198.7	93.5	78.2	66.4	7.8	6.4	5.5
Bakersfield .....	209.8	223.8	216.5	25.7	26.2	24.3	12.2	11.7	11.2
Fresno .....	334.2	320.8	340.1	34.5	34.8	30.0	10.3	10.8	8.8
Los Angeles—Long Beach <sup>2</sup> .....	3,807.0	3,806.0	3,779.0	358.0	397.0	356.0	9.4	10.4	9.4
Modesto .....	144.9	151.9	145.2	19.2	21.7	17.4	13.2	14.3	12.0
Oxnard—Simi Valley—Ventura .....	263.4	272.7	267.9	29.6	29.4	24.7	11.2	10.8	9.2
Riverside—San Bernardino—Ontario .....	631.6	638.9	640.7	82.0	73.3	61.7	13.0	11.5	9.6
Sacramento .....	516.6	531.2	525.6	53.2	50.6	42.4	10.3	9.5	8.1
Salinas—Seaside—Monterey .....	145.9	153.7	150.7	13.1	14.4	12.7	8.9	9.4	8.4
San Diego .....	839.0	861.9	851.7	82.0	69.7	59.6	9.8	8.1	7.0
San Francisco—Oakland .....	1,745.2	1,803.5	1,769.8	145.1	141.8	120.1	8.3	7.9	6.8
San Jose .....	822.2	852.5	836.0	59.2	59.0	51.1	7.2	6.9	6.1
Santa Barbara—Santa Maria—Lompoc .....	162.0	168.6	164.9	12.2	11.4	10.0	7.6	6.8	6.0
Santa Rosa .....	151.0	152.0	152.6	13.9	12.6	10.1	9.2	8.3	6.6
Stockton .....	188.8	187.5	189.8	22.4	25.7	20.0	11.9	13.7	10.5
Vallejo—Fairfield—Napa .....	141.5	146.3	144.7	14.4	14.7	12.3	10.2	10.0	8.5
<b>COLORADO</b> .....	1,591.5	1,667.6	1,662.3	126.3	107.8	98.4	7.9	6.5	5.9
Denver—Boulder .....	942.4	984.1	984.6	65.8	56.0	51.0	7.0	5.7	5.2
<b>CONNECTICUT</b> .....	1,612.8	1,622.7	1,627.3	105.5	86.5	79.1	6.5	5.3	4.9
Bridgeport .....	195.6	192.3	192.3	15.5	12.3	10.9	7.9	6.4	5.6
Hartford .....	389.0	392.0	395.6	24.0	19.5	18.2	6.2	5.0	4.6
New Britain .....	72.8	70.7	71.1	6.6	4.7	3.9	9.1	6.6	5.5
New Haven—West Haven .....	199.3	198.7	199.9	12.5	12.4	11.4	6.3	6.2	5.7
Stamford .....	128.1	132.4	131.5	5.3	4.6	4.4	4.1	3.5	3.4
Waterbury .....	106.5	104.3	105.0	9.0	5.9	5.9	8.4	5.7	5.7
<b>DELAWARE</b> .....	299.2	299.7	292.0	20.4	22.5	21.2	6.8	7.5	7.2
Wilmington <sup>1</sup> .....	261.7	261.1	257.1	19.5	21.2	19.8	7.5	8.1	7.7
<b>DISTRICT OF COLUMBIA</b> .....	315.1	339.3	324.4	33.2	38.6	35.9	10.5	11.4	11.1
Washington SMSA <sup>1</sup> .....	1,709.5	1,814.1	1,791.1	96.5	97.2	84.5	5.6	5.4	4.7
<b>FLORIDA</b> <sup>2</sup> .....	4,888.2	5,096.6	5,113.2	402.2	419.3	416.4	8.2	8.2	8.1
Daytona Beach .....	117.6	125.5	123.2	7.2	7.6	8.2	6.1	6.1	6.6
Fort Lauderdale—Hollywood .....	513.2	530.8	536.8	34.2	35.7	34.2	6.7	6.7	6.4
Fort Myers—Cape Coral .....	106.7	107.7	111.7	7.7	7.4	7.3	7.2	6.8	6.5
Gainesville .....	79.6	83.6	85.3	3.5	3.4	3.8	4.3	4.1	4.5
Jacksonville .....	370.9	388.7	392.3	25.3	27.9	29.8	6.8	7.2	7.6
Lakeland—Winter Haven .....	151.2	157.5	155.5	25.7	29.2	26.9	17.0	18.5	17.3
Melbourne—Titusville—Cocoa .....	132.0	143.7	142.4	9.8	10.4	10.8	7.4	7.3	7.6
Miami .....	874.2	903.7	896.6	84.3	83.1	81.2	9.6	9.2	9.1
Orlando .....	414.8	435.9	445.7	27.8	28.5	30.2	6.7	6.5	6.8
Pensacola .....	131.9	140.8	142.4	9.1	9.3	9.9	6.9	6.6	6.9
Sarasota .....	86.6	93.0	92.2	6.2	4.8	5.2	7.1	5.2	5.7
Tallahassee .....	91.2	94.1	92.7	3.9	4.4	4.3	4.3	4.7	4.6
Tampa—St. Petersburg .....	772.3	802.6	808.5	56.0	54.8	55.8	7.3	6.8	6.9
West Palm Beach—Boca Raton .....	287.6	305.8	304.2	25.2	31.1	28.2	8.7	10.2	9.3

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P
<b>GEORGIA</b>	2,686.2	2,703.2	2,690.4	204.3	190.5	188.3	7.6	7.0	7.0
Albany	53.0	53.0	52.6	4.9	5.3	5.3	9.3	9.9	10.1
Athens	64.6	66.2	65.0	4.3	4.5	3.9	6.6	6.8	6.0
Atlanta	1,107.9	1,113.2	1,106.3	70.6	67.2	67.0	6.4	6.0	6.1
Augusta	139.3	133.9	134.7	14.8	11.6	12.3	10.6	8.6	9.1
Columbus <sup>1</sup>	87.4	89.0	87.0	7.9	6.9	7.3	9.1	7.8	8.4
Macon	109.0	108.7	108.3	7.8	7.9	8.4	7.2	7.3	7.8
Savannah	98.6	98.4	96.6	7.8	8.2	8.2	7.9	8.4	8.5
<b>HAWAII</b>	450.0	469.0	454.2	30.0	30.7	28.3	6.7	6.5	6.2
Honolulu	342.0	358.1	346.5	20.5	21.1	19.9	6.0	5.9	5.7
<b>IDAHO</b>	448.7	458.7	452.2	37.5	42.0	32.9	8.4	9.2	7.3
Boise City	92.4	95.0	94.7	6.2	6.1	5.7	6.7	6.5	6.0
<b>ILLINOIS<sup>2</sup></b>	5,621.9	5,605.9	5,539.2	680.9	632.8	544.2	12.1	11.3	9.8
Bloomington—Normal	62.3	61.2	63.5	5.1	4.8	4.0	8.2	7.8	6.3
Champaign—Urbana—Rantoul	85.0	82.5	86.8	4.9	5.8	4.6	5.8	7.1	5.3
Chicago	3,518.4	3,501.0	3,444.9	401.2	364.0	314.2	11.4	10.4	9.1
Davenport—Rock Island—Moline <sup>3</sup>	194.4	186.9	187.6	30.4	24.9	22.7	15.7	13.3	12.1
Decatur	63.1	62.7	62.9	10.2	8.7	7.6	16.2	13.8	12.0
Kankakee	42.1	41.0	40.2	7.2	6.6	5.8	17.0	16.2	14.3
Peoria	174.8	171.8	170.2	27.7	27.2	24.4	15.9	15.8	14.3
Rockford	136.6	135.0	133.7	21.9	17.7	15.2	16.0	13.1	11.4
Springfield	101.1	108.5	101.1	7.9	8.8	6.9	7.8	8.1	6.8
<b>INDIANA</b>	2,596.6	2,543.6	2,548.6	290.9	232.6	226.5	11.2	9.1	8.9
Anderson	54.1	54.1	54.1	6.9	5.4	4.7	12.8	10.0	8.7
Elkhart	68.3	75.4	75.1	6.5	4.5	4.8	9.5	6.0	6.4
Evansville <sup>4</sup>	147.7	151.0	146.9	14.2	15.0	12.6	9.6	9.9	8.6
Fort Wayne	189.8	180.8	180.7	23.4	17.3	17.4	12.3	9.5	9.6
Gary—Hammond—East Chicago	287.2	276.0	271.6	44.9	35.7	35.1	15.6	12.9	12.9
Indianapolis	602.3	600.9	597.7	53.8	49.2	49.0	8.9	8.2	8.2
Lafayette—West Lafayette	64.6	59.6	64.1	4.7	3.8	3.7	7.2	6.4	5.8
Muncie	55.9	51.8	54.7	6.7	5.0	5.2	12.0	9.7	9.4
South Bend	140.1	136.6	137.8	13.5	10.1	10.1	9.6	7.4	7.3
Terre Haute	80.2	77.9	79.1	8.4	8.3	8.0	10.4	10.6	10.1
<b>IOWA</b>	1,424.5	1,395.1	1,390.4	107.5	103.6	82.0	7.5	7.4	5.9
Cedar Rapids	84.5	79.5	79.2	8.0	6.0	5.2	9.5	7.5	6.6
Des Moines	182.5	176.8	176.4	13.7	11.3	10.1	7.5	6.4	5.7
Dubuque	43.1	41.7	41.7	5.7	4.3	3.6	13.2	10.2	8.7
Sioux City <sup>5</sup>	55.6	52.9	53.2	4.2	3.6	3.4	7.5	6.7	6.4
Waterloo—Cedar Falls	66.8	63.5	62.5	6.6	13.5	6.2	9.9	21.3	9.9
<b>KANSAS</b>	1,191.6	1,186.5	1,183.0	80.4	65.7	55.7	6.7	5.5	4.7
Lawrence	34.0	32.9	34.3	1.5	1.7	1.3	4.5	5.2	3.8
Topeka	93.8	95.1	93.9	6.5	5.8	5.3	6.9	6.1	5.7
Wichita	225.1	224.0	222.2	22.9	16.2	13.8	10.2	7.2	6.2
<b>KENTUCKY</b>	1,693.0	1,648.0	1,651.0	170.3	175.2	165.0	10.1	10.6	10.0
Lexington—Fayette	182.6	173.9	175.6	10.0	9.1	8.6	5.5	5.2	4.9
Louisville <sup>6</sup>	428.5	418.5	413.2	45.5	40.3	38.3	10.6	9.6	9.3
Owensboro	44.2	42.8	42.4	4.0	3.7	3.4	8.9	8.5	8.1
<b>LOUISIANA</b>	1,886.6	1,909.4	1,919.4	210.6	233.1	221.7	11.2	12.2	11.6
Alexandria	75.7	76.6	78.1	9.0	8.9	8.4	11.9	11.7	10.8
Baton Rouge	231.9	237.0	239.6	23.3	24.8	22.9	10.0	10.5	9.6
Lafayette	100.9	101.8	101.3	6.0	8.8	8.5	5.9	8.7	8.4
Lake Charles	76.5	76.7	77.2	11.2	11.8	12.0	14.7	15.3	15.5
Monroe	58.6	58.5	58.4	6.9	6.6	6.5	11.7	11.3	11.1
New Orleans	514.0	523.0	518.6	52.3	57.4	54.6	10.2	11.0	10.5
Shreveport	166.8	167.4	169.8	17.3	19.2	18.8	10.4	11.5	11.0
<b>MAINE</b>	536.8	564.6	556.0	39.0	41.5	39.2	7.3	7.4	7.1
Lewiston—Auburn	38.1	39.8	39.9	3.2	3.2	3.1	8.3	8.0	7.7
Portland	94.1	100.9	99.3	5.4	6.0	5.4	5.7	6.0	5.5
<b>MARYLAND</b>	2,153.4	2,225.2	2,229.9	175.2	141.8	128.7	8.1	6.4	5.8
Baltimore	1,064.9	1,078.0	1,087.0	104.8	75.0	72.7	9.8	7.0	6.7

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P
<b>MASSACHUSETTS<sup>1</sup></b> .....	3,052.0	3,063.9	3,023.1	224.9	183.4	213.0	7.4	6.0	7.0
Boston .....	1,472.1	1,486.3	1,461.8	94.3	77.3	89.1	6.4	5.2	6.1
Brockton .....	82.2	82.0	81.9	7.2	6.1	6.9	8.8	7.5	8.4
Fall River <sup>1</sup> .....	78.3	74.3	74.5	8.0	6.3	7.5	10.2	8.4	10.0
Lawrence—Haverhill <sup>1</sup> .....	149.3	146.9	150.7	12.9	11.0	12.5	8.7	7.5	8.3
Lowell .....	134.6	137.7	134.6	9.3	7.0	8.3	6.9	5.1	6.1
New Bedford .....	85.8	87.5	87.6	9.6	6.8	9.7	11.1	7.8	11.0
Springfield—Chicopee—Holyoke .....	296.4	290.3	289.8	21.8	19.0	21.5	7.3	6.5	7.4
Worcester .....	204.7	199.7	197.5	18.0	13.0	14.5	8.8	6.5	7.3
<b>MICHIGAN<sup>2</sup></b> .....	4,281.3	4,370.0	4,294.3	620.7	585.9	526.7	14.5	13.4	12.3
Ann Arbor .....	142.0	142.7	147.4	13.3	15.2	12.0	9.3	10.6	8.1
Battle Creek .....	83.0	84.3	81.9	13.6	10.2	9.6	16.4	12.0	11.8
Bay City .....	52.1	54.6	53.2	7.5	8.1	7.4	14.5	14.8	14.0
Benton Harbor .....	70.2	71.1	69.1	11.2	9.8	9.2	16.0	13.8	13.4
Detroit .....	1,989.0	2,005.2	1,967.8	303.6	286.6	251.1	15.3	14.3	12.8
Flint .....	220.2	229.2	225.7	39.5	35.5	32.7	17.9	15.5	14.5
Grand Rapids .....	327.2	338.9	332.6	35.8	36.5	34.1	10.9	10.8	10.2
Jackson .....	65.9	65.5	64.1	10.4	9.6	9.2	15.7	14.7	14.4
Kalamazoo—Portage .....	138.2	138.1	138.0	14.8	14.2	13.7	10.7	10.3	9.9
Lansing—East Lansing .....	234.3	247.8	243.6	26.1	25.1	22.2	11.1	10.1	9.1
Muskegon—Norton Shores—Muskegon Heights .....	80.3	80.9	78.6	14.1	12.2	11.2	17.6	15.1	14.2
Saginaw .....	98.7	99.8	99.7	14.0	12.7	11.8	14.2	12.7	11.8
<b>MINNESOTA</b> .....	2,179.5	2,222.6	2,219.3	159.5	160.6	145.1	7.3	7.2	6.5
Duluth—Superior <sup>1</sup> .....	119.0	110.0	112.2	22.1	16.9	20.0	18.6	15.3	17.8
Minneapolis—St. Paul .....	1,163.9	1,189.5	1,191.4	75.1	75.8	66.5	6.5	6.4	5.6
Rochester .....	58.2	61.1	61.0	2.8	3.0	2.8	4.9	5.0	4.6
St. Cloud .....	77.3	79.8	79.7	5.9	6.7	5.9	7.7	8.4	7.4
<b>MISSISSIPPI</b> .....	1,072.6	1,060.2	1,067.7	115.8	131.7	120.8	10.8	12.4	11.3
Jackson .....	162.4	159.6	159.3	12.1	13.2	12.1	7.5	8.3	7.6
<b>MISSOURI</b> .....	2,336.8	2,360.5	2,332.6	209.7	214.3	191.2	9.0	9.1	8.2
Kansas City <sup>1</sup> .....	676.2	682.2	663.1	55.9	52.8	44.5	8.3	7.7	6.7
St. Joseph .....	46.3	47.2	45.7	4.5	4.6	4.1	9.7	9.7	9.0
St. Louis <sup>1</sup> .....	1,125.9	1,151.8	1,132.1	112.9	117.9	104.0	10.0	10.2	9.2
Springfield .....	110.6	115.5	114.2	8.3	8.2	7.3	7.5	7.1	6.4
<b>MONTANA</b> .....	399.1	393.2	385.4	28.9	30.6	25.4	7.2	7.8	6.6
<b>NEBRASKA</b> .....	788.9	790.0	775.1	44.8	39.3	35.0	5.7	5.0	4.5
Lincoln .....	110.9	107.4	109.8	5.4	4.2	3.9	4.9	3.9	3.5
Omaha <sup>1</sup> .....	284.8	287.5	286.1	20.1	16.7	14.5	7.0	5.8	5.1
<b>NEVADA</b> .....	493.0	497.4	496.9	48.8	43.3	41.8	9.9	8.7	8.4
Las Vegas .....	275.3	276.7	277.7	29.9	26.7	26.0	10.9	9.6	9.4
Reno .....	134.3	135.5	135.5	10.7	9.1	8.7	8.0	6.7	6.4
<b>NEW HAMPSHIRE</b> .....	492.8	510.1	506.0	31.8	21.1	18.0	6.5	4.1	3.6
Manchester .....	85.3	88.7	87.9	5.5	3.7	3.1	6.4	4.2	3.6
Nashua .....	85.0	89.9	89.8	5.0	3.2	2.7	5.9	3.5	3.0
<b>NEW JERSEY</b> .....	3,595.3	3,726.0	3,650.1	307.9	319.5	280.1	8.6	8.6	7.7
Atlantic City .....	120.0	132.0	125.2	10.6	11.4	10.7	8.8	8.7	8.5
Jersey City .....	239.2	248.1	244.0	31.7	33.0	29.6	13.2	13.3	12.1
Long Branch—Asbury Park .....	247.7	263.2	256.1	19.9	19.1	17.7	8.0	7.2	6.9
New Brunswick—Perth Amboy—Sayreville .....	330.8	340.6	336.8	27.0	28.0	23.7	8.1	8.2	7.0
Newark .....	968.3	994.8	980.5	82.7	82.8	73.3	8.5	8.3	7.5
Paterson—Clifton—Passaic .....	207.2	220.6	217.4	22.0	25.2	22.2	10.6	11.4	10.2
Trenton .....	156.4	158.6	157.3	12.9	12.3	10.9	8.2	7.8	6.9
Vineland—Millville—Bridgeton .....	57.9	59.6	57.2	8.7	9.1	7.6	15.0	15.3	13.2
<b>NEW MEXICO</b> .....	602.1	605.7	604.5	55.7	60.2	56.8	9.3	9.9	9.4
Albuquerque .....	221.9	225.0	225.9	17.5	19.6	18.5	7.9	8.7	8.2
Las Cruces .....	37.5	39.3	40.6	3.6	3.7	3.9	9.6	9.4	9.5

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P
<b>NEW YORK<sup>2</sup></b> .....	7,909.6	8,422.9	8,145.8	667.3	694.7	672.5	8.4	8.2	8.3
Albany—Schenectady—Troy .....	365.9	395.2	377.7	25.1	24.7	25.3	6.8	6.3	6.7
Binghamton <sup>1</sup> .....	138.2	146.3	142.3	10.6	9.6	9.8	7.7	6.6	6.9
Buffalo .....	536.3	558.9	539.0	67.3	58.2	57.0	12.5	10.4	10.6
Elmira .....	37.3	39.0	37.4	4.6	3.2	3.1	12.4	8.1	8.3
Nassau-Suffolk .....	1,312.7	1,460.2	1,383.6	89.5	89.7	84.6	6.8	6.1	6.1
New York .....	3,647.8	3,791.4	3,722.2	316.3	364.1	348.1	8.7	9.6	9.4
New York City <sup>2</sup> .....	3,044.0	3,128.0	3,096.0	280.0	330.0	315.0	9.2	10.6	10.1
Poughkeepsie .....	111.5	122.4	115.8	6.7	6.8	6.6	6.0	5.6	5.7
Rochester .....	463.7	495.1	477.0	33.6	36.1	36.4	7.3	7.3	7.6
Syracuse .....	295.3	318.2	307.2	23.5	20.5	20.1	7.9	6.4	6.5
Utica—Rome .....	131.4	141.2	135.3	11.3	9.8	10.0	8.6	7.0	7.4
<b>NORTH CAROLINA</b> .....	2,959.8	2,948.4	2,971.4	254.6	233.8	219.6	8.6	7.9	7.4
Asheville .....	92.5	93.6	93.8	7.1	6.1	5.7	7.7	6.6	6.1
Charlotte—Gastonia .....	383.4	385.7	390.8	27.0	25.2	24.1	7.0	6.5	6.2
Greensboro—Winston-Salem—High Point .....	454.0	456.0	465.6	36.2	31.3	29.7	8.0	6.9	6.4
Raleigh—Durham .....	321.2	327.2	334.2	15.1	14.4	13.2	4.7	4.4	4.0
<b>NORTH DAKOTA</b> .....	327.3	335.7	316.1	14.8	14.1	11.7	4.5	4.2	3.7
Fargo—Moorehead <sup>1</sup> .....	72.3	72.5	71.3	3.2	4.2	2.4	4.5	5.8	3.3
<b>OHIO<sup>2</sup></b> .....	5,135.8	5,244.1	5,123.0	631.0	564.7	568.3	12.3	10.8	11.1
Akron .....	308.5	315.2	311.2	36.3	32.3	33.9	11.8	10.2	10.9
Canton .....	193.0	196.2	192.2	26.6	24.1	24.4	13.8	12.3	12.7
Cincinnati <sup>1</sup> .....	684.5	693.0	683.0	67.3	63.2	66.6	9.8	9.1	9.7
Cleveland .....	934.4	959.1	933.0	100.9	98.3	99.8	10.8	10.3	10.7
Columbus .....	568.2	593.7	578.9	49.4	47.4	49.2	8.7	8.0	8.5
Dayton .....	391.7	396.3	390.1	42.1	37.2	35.9	10.7	9.4	9.2
Toledo <sup>1</sup> .....	371.8	381.5	376.1	44.8	44.2	42.9	12.1	11.6	11.4
Youngstown—Warren .....	238.0	237.4	232.2	45.7	36.5	33.7	19.2	15.4	14.5
<b>OKLAHOMA</b> .....	1,477.1	1,521.8	1,522.6	96.2	126.6	114.9	6.5	8.3	7.5
Enid .....	31.1	32.1	32.1	2.1	2.2	2.1	6.6	6.9	6.5
Lawton .....	34.4	35.4	35.8	1.9	2.2	2.1	5.4	6.2	5.8
Oklahoma City .....	461.3	481.1	483.2	23.7	30.0	27.5	5.1	6.2	5.7
Tulsa .....	353.0	360.0	357.6	26.2	32.9	30.2	7.4	9.2	8.4
<b>OREGON</b> .....	1,318.3	1,345.8	1,333.8	135.3	123.1	115.0	10.3	9.1	8.6
Eugene—Springfield .....	128.9	129.5	130.5	14.4	12.0	12.3	11.2	9.3	9.4
Medford .....	64.2	65.4	66.7	7.8	6.1	5.3	12.1	9.4	7.9
Portland <sup>1</sup> .....	656.2	662.0	653.5	64.3	60.4	57.7	9.8	9.1	8.8
Salem .....	130.0	134.5	131.5	10.7	10.1	9.1	8.2	7.5	7.0
<b>PENNSYLVANIA<sup>2</sup></b> .....	5,486.1	5,644.8	5,512.5	600.6	609.7	548.9	10.9	10.8	10.0
Allentown—Bethlehem—Easton <sup>1</sup> .....	307.8	317.8	306.3	32.9	34.6	28.6	10.7	10.9	9.3
Altoona .....	56.0	59.4	57.1	6.0	9.4	6.7	10.8	15.9	11.8
Erie .....	126.3	130.8	126.8	15.1	17.2	15.3	12.0	13.1	12.0
Harrisburg .....	235.6	247.9	241.3	15.3	15.0	12.5	6.5	6.0	5.2
Johnstown .....	105.0	109.1	104.7	17.4	19.8	16.5	16.6	18.1	15.8
Lancaster .....	183.2	190.0	184.7	12.0	10.7	8.5	6.5	5.6	4.6
Northeast Pennsylvania .....	286.3	300.5	290.6	31.2	32.6	29.6	10.9	10.9	10.2
Philadelphia <sup>1</sup> .....	2,196.4	2,254.4	2,216.6	184.9	189.1	170.9	8.4	8.4	7.7
Pittsburgh .....	1,041.4	1,055.2	1,026.9	145.2	141.5	132.2	13.9	13.4	12.9
Reading .....	157.5	162.9	161.4	14.3	12.4	11.5	9.1	7.6	7.1
Sharon .....	54.8	54.1	52.2	9.2	9.0	7.8	16.8	16.6	15.0
State College .....	49.9	51.8	52.1	4.7	4.9	4.5	9.4	9.5	8.7
Williamsport .....	151.6	153.3	152.5	5.9	7.4	6.8	11.5	13.9	13.0
York .....	181.8	185.9	184.1	19.2	18.2	15.8	10.5	9.8	8.6
<b>RHODE ISLAND</b> .....	483.4	483.0	481.8	46.0	37.5	32.1	9.5	7.8	6.7
Providence—Warwick—Pawtucket <sup>1</sup> .....	478.9	473.2	472.0	47.2	38.1	33.4	9.8	8.1	7.1
<b>SOUTH CAROLINA</b> .....	1,487.9	1,444.6	1,435.1	157.4	131.1	122.8	10.6	9.1	8.6
Charleston—North Charleston .....	177.6	175.3	176.1	15.1	14.7	13.8	8.5	8.4	7.9
Columbia .....	198.2	193.5	193.8	14.2	12.0	11.7	7.2	6.2	6.0
Greenville—Spartanburg .....	293.2	278.4	277.1	30.4	22.5	21.5	10.4	8.1	7.7
<b>SOUTH DAKOTA</b> .....	336.8	337.9	330.5	16.4	14.7	14.0	4.9	4.4	4.2
Sioux Falls .....	63.6	63.8	63.1	2.8	2.1	2.3	4.3	3.3	3.6
<b>TENNESSEE</b> .....	2,140.6	2,169.0	2,179.8	242.1	217.3	202.4	11.3	10.0	9.3
Chattanooga <sup>1</sup> .....	196.3	196.7	198.2	18.5	17.3	16.9	9.4	8.8	8.5
Knoxville .....	233.9	235.6	234.6	20.1	22.0	20.4	8.6	9.3	8.7
Memphis <sup>1</sup> .....	406.9	405.6	406.5	39.7	35.3	34.6	9.8	8.7	8.5
Nashville—Davidson .....	444.0	442.7	444.6	36.9	31.5	30.6	8.3	7.1	6.9

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

## D-1. Labor force and unemployment by State and selected metropolitan area—Continued

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P	Sept. 1982	Aug. 1983	Sept. 1983P
<b>TEXAS<sup>2</sup></b>	7,353.0	7,659.2	7,724.3	590.8	580.7	662.7	8.0	7.6	8.6
Abilene	75.8	80.2	80.4	4.4	4.3	4.7	5.8	5.4	5.8
Amarillo	92.6	99.4	100.6	4.8	4.9	5.6	5.2	4.9	5.6
Austin	293.8	303.4	310.8	13.8	11.6	13.8	4.7	3.8	4.4
Beaumont—Port Arthur—Orange	180.9	182.3	185.8	23.6	24.3	28.0	13.1	13.3	15.1
Brownsville—Harlingen—San Benito	84.4	87.5	89.1	13.0	13.1	15.5	15.4	15.0	17.4
Bryan—College Station	50.8	50.2	52.9	2.3	1.8	2.2	4.5	3.6	4.2
Corpus Christi	162.6	175.8	175.6	13.4	19.3	21.8	8.3	11.0	12.4
Dallas—Fort Worth	1,701.1	1,792.6	1,802.0	108.2	87.6	100.5	6.4	4.9	5.6
El Paso	190.2	196.1	197.7	24.0	21.1	24.9	12.6	10.8	12.6
Galveston—Texas City	89.5	90.8	92.8	10.9	10.9	12.3	12.2	12.0	13.2
Houston	1,748.0	1,802.5	1,812.2	141.8	162.3	181.8	8.1	9.0	10.0
Killeen—Temple	69.2	74.4	74.4	4.4	3.8	4.7	6.4	5.2	6.3
Laredo	40.4	39.8	40.5	8.5	9.5	10.7	21.0	24.0	26.5
Longview—Marshall	79.3	81.2	82.1	9.5	8.9	10.2	12.0	11.0	12.5
Lubbock	105.4	109.4	111.3	6.1	6.8	7.5	5.8	6.2	6.7
McAllen—Pharr—Edinburg	106.7	111.7	118.1	21.2	23.7	29.7	19.9	21.2	25.2
Midland	63.1	67.1	68.1	3.1	3.8	4.4	4.9	5.7	6.5
Odessa	74.0	73.9	74.8	5.1	6.5	7.2	6.9	8.8	9.7
San Angelo	47.4	47.7	47.7	3.2	2.4	2.6	6.7	5.0	5.4
San Antonio	467.2	498.6	502.2	32.7	28.5	33.2	7.0	5.7	6.6
Sherman—Denison	39.6	39.8	39.7	3.4	2.7	3.1	8.7	6.8	7.9
Texarkana	50.7	51.7	52.3	5.4	4.6	5.2	10.6	8.8	10.0
Tyler	71.4	74.5	75.6	5.5	4.5	5.1	7.7	6.1	6.7
Waco	83.3	86.6	87.6	5.4	4.3	4.8	6.5	5.0	5.5
Wichita Falls	65.8	67.7	68.3	4.6	3.9	4.5	7.0	5.8	6.6
<b>UTAH</b>	681.7	672.9	681.6	52.1	55.1	50.9	7.6	8.2	7.5
Salt Lake City—Ogden	441.8	440.2	442.4	33.9	34.3	32.0	7.7	7.8	7.2
<b>VERMONT</b>	266.4	268.5	268.6	15.8	15.3	13.5	5.9	5.7	5.0
Burlington	70.1	69.4	70.4	3.3	3.2	2.9	4.6	4.6	4.2
<b>VIRGINIA</b>	2,670.2	2,746.8	2,721.7	196.7	145.5	137.5	7.4	5.3	5.1
Lynchburg	77.8	76.6	76.2	7.4	3.9	3.9	9.5	5.1	5.2
Newport News—Hampton	171.8	182.5	178.2	10.9	7.8	7.7	6.4	4.3	4.3
Norfolk—Virginia Beach—Portsmouth	345.0	362.8	358.5	24.5	19.2	18.6	7.1	5.3	5.2
Petersburg—Colonial Heights—Hopewell	58.7	58.2	56.9	5.5	4.5	4.4	9.4	7.7	7.7
Richmond	341.1	349.6	348.1	20.1	15.6	14.3	5.9	4.5	4.1
Roanoke	112.5	118.2	117.8	7.8	6.1	6.2	7.0	5.1	5.2
<b>WASHINGTON</b>	2,028.8	2,033.8	2,056.5	230.2	203.8	194.9	11.3	10.0	9.5
<b>WEST VIRGINIA</b>	766.5	772.0	751.4	107.6	129.0	113.8	14.0	16.7	15.1
Charleston	122.3	122.5	117.6	12.2	16.7	13.3	10.0	13.6	11.3
Huntington—Ashland <sup>1</sup>	122.9	123.5	120.8	17.2	20.9	19.9	14.0	16.9	16.5
Parkersburg—Marietta <sup>1</sup>	74.5	75.1	73.5	9.0	10.5	9.5	12.1	13.9	13.0
Wheeling <sup>1</sup>	83.1	82.0	80.3	11.7	12.7	12.4	14.0	15.5	15.5
<b>WISCONSIN</b>	2,469.8	2,437.5	2,417.9	244.8	227.1	198.0	9.9	9.3	8.2
Appleton—Oshkosh	152.8	152.7	151.7	14.6	13.1	12.0	9.6	8.6	7.9
Eau Claire	60.6	59.8	60.9	5.1	5.0	4.7	8.4	8.4	7.7
Green Bay	96.0	96.2	97.5	8.0	7.8	7.4	8.3	8.1	7.6
Janesville—Beloit	72.1	73.2	72.4	8.5	12.3	6.8	11.9	16.8	9.4
Kenosha	63.1	60.7	61.1	6.5	5.4	4.9	10.3	8.9	8.1
La Crosse	51.2	50.7	50.5	3.9	3.9	3.6	7.7	7.7	7.2
Madison	191.6	193.8	193.6	11.0	12.4	11.1	5.7	6.4	5.7
Milwaukee	738.7	715.4	707.8	83.0	70.9	62.2	11.2	9.9	8.8
Racine	86.4	83.2	82.2	11.7	9.6	7.9	13.5	11.6	9.6
<b>WYOMING</b>	260.8	264.8	263.4	14.9	20.1	18.1	5.7	7.6	6.9

<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.)

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

NOTE: Estimates for 1982 have been benchmarked to 1982 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1983 are provisional and will be revised when new benchmark information

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 Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The report "Employment and Unemployment in States and Local Areas" is published monthly through GPO and is available on microfiche only on a subscription basis.

# Explanatory Notes

## Introduction

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

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 629 areas in 1,148 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are 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 day of the month.

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of differences in definitions and coverage,

sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

### Employment

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

*Multiple jobholding.* The household 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 reports, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

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

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



## Hours of work

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

## Earnings

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

## COMPARABILITY OF 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, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

sometimes eligible for unemployment compensation but are classified as employed rather than unemployed in the household survey.

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

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Economics and Statistics Service series and the treatment of dual jobholders, who are counted more than once if they work on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of 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 Census from its censuses or annual sample survey of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

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

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

# Household Data (A tables)

## COLLECTION AND COVERAGE

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

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 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 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 the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 or 5 percent. In addition to the 60,000 occupied units, there are 11,000 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.

## CONCEPTS AND DEFINITIONS

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

*Employed persons* are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or

who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family; and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

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

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

*Unemployed persons* are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and (a) had made specific efforts to find employment sometime during the prior 4 weeks, or (b) were waiting to be recalled to a job from which they had been laid off, or (c) were waiting to report to a new 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.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work, and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Reentrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) New entrants are persons who never worked at a full-time job lasting 2 weeks or

longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

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

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

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

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

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

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

*Not in the labor force* includes all persons who are not classified as employed or unemployed. These persons are further classified as engaged in own home housework, in school, unable to work because of long-

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

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

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

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

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

The distribution of employment by hours worked relates to persons at work during the survey week. At-work data differ from data on total employment because the latter include persons in the zero-hours-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 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 a 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 to 34 hours for noneconomic reasons and usually work full time.

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 that: (1) Unemployed persons looking for full-time work lost an average of 37.5 hours, (2) those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

*White, black, and other* are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-4 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

*Hispanic origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin may be of any race; thus they are included in both the white and black population groups.

*Major activity: Going to school* and *Major activity: Other* are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. These statistics are published in table A-6 for 16- to 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. Data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

The *poverty areas* classification consists of all census geographic divisions in which 20 percent or more of the residents were poor according to the 1970 decennial census. Persons were classified as poor or not poor 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.

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

*Single, never married; married, spouse present; and other marital status* are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even

though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

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

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

*Family* refers to a group of two or more persons residing together who are related by blood, marriage, or adoption; all such persons are considered as members of one family even though they may include a subfamily, that is, a married couple or a parent-child group related by blood or marriage to the householder and sharing the living quarters. The count of families used in this publication includes primary families only, that is, all persons in the household who are related to the householder. Excluded are secondary families which include lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

## HISTORICAL COMPARABILITY

### Change in lower age limit

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

### Noncomparability of labor force levels

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

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

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

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

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

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

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

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for

results obtained from the 1980 census. The new procedure is described in the Estimating Methods section. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There are only slight differences between the old and new procedures in estimates of level for the various labor force characteristics and virtually no differences in estimates of participation rates.

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

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

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

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

The industrial classification used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had much less of an adverse effect on historical comparability than did the new occupational

system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation", and some interchange between "professional and related services" and "public administration."

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

### Changes in the sample design

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

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

in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction units that previously had no chance for selection in the CPS sample. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

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

### ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The estimation procedure involves weighting the data from each sample person. 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 and 1980 expansions, almost all sample persons within the 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

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

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954 .....	68	21,000	500—1,000	3,000—3,500
Feb. 1954 to Apr. 1956 .....	230	21,000	500—1,000	3,000—3,500
May 1956 to Dec. 1959 .....	<sup>1</sup> 330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	<sup>2</sup> 333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966 .....	357	33,500	1,500	6,000
Jan. 1967 to July 1971 .....	449	48,000	2,000	8,500
Aug. 1971 to July 1972 .....	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977 .....	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979 .....	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981 .....	629	62,200	2,800	12,000
May 1981 to present .....	629	57,800	2,500	11,000

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

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

respondents 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 residential categories. For sample areas which are Standard Metropolitan Statistical Areas, (SMSA's), these residence categories are the central cities, 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 4 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 survey estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* In the CPS, a portion of the 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. Effective with January 1983 data, the procedure corrects for the differences that existed at the time of the 1980 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by race only. Prior to January 1983, the State adjustment was also done by urban-rural status. At both the regional and the State levels, the race-residence categories were changed from white/nonwhite to black/nonblack. The residence categories at the State level of the estimation procedure were dropped because definitional differences between the 1970 census and the 1980 census made it impossible to continue using the same categories.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current

estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment which is performed to further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in two 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 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 adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1982. The nature and effect of these changes are discussed in detail in "Revisions in the Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population from the April 1, 1980, 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, use Report 640 of that series. A description 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.

Beginning with the January 1982 estimates, the independent national controls used for the age-sex-race groups in the final step of the second-stage ratio adjustment are prepared by carrying forward the April 1, 1980, total population by age, race, and sex, taking account of the subsequent aging of the population, fertility, mortality, and net immigration, and then subtracting the estimate for the institutional population and Armed Forces. The April 1, 1980, total population was computed by adding together the resident population, consistent with that published for the 1980 census in *Advance Reports*, Series PHC80-V, and the Armed Forces overseas, as compiled from Department of Defense reports.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of



Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

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. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. Differences, however, are insignificant.

### **Reliability of the estimates**

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

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

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

sent all sample households and all persons within sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program, January 1961 through December 1966*. Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.

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

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for men than for women, and larger for black, and other races combined 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 1980 census.

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

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

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.
3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors 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 B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the 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 2 consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956-66 period, they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates

**Table B. Standard errors for major employment status categories**

(In thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force .....	255	195
Employed .....	276	209
Unemployed .....	152	149
Men, 20 years and over:		
Civilian labor force .....	155	135
Employed .....	173	152
Unemployed .....	110	106
Women, 20 years and over:		
Civilian labor force .....	190	144
Employed .....	190	148
Unemployed .....	90	92
Both sexes, 16 to 19 years:		
Civilian labor force .....	83	89
Employed .....	86	97
Unemployed .....	64	69
Black, 16 years and over:		
Civilian labor force .....	87	66
Employed .....	96	72
Unemployed .....	73	74
Men, 20 years and over:		
Civilian labor force .....	51	45
Employed .....	59	53
Unemployed .....	52	54
Women, 20 years and over:		
Civilian labor force .....	67	47
Employed .....	66	50
Unemployed .....	46	50
Both sexes, 16 to 19 years:		
Civilian labor force .....	33	37
Employed .....	28	32
Unemployed .....	32	32

**Table C. Standard errors for unemployment rates by major characteristics**

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	0.13	0.13	<b>Occupation—Continued</b>		
Men, 20 years and over . . . . .	.18	.18	Precision production, craft, and repair . . . . .	0.42	0.48
Women, 20 years and over . . . . .	.20	.20	Machine operators, assemblers and inspectors . . . . .	.58	.68
Both sexes, 16 to 19 years . . . . .	.69	.81	Transportation and material moving . . . . .	.74	.89
White workers . . . . .	.14	.14	Handlers, equipment cleaners, helpers and laborers . . . . .	.83	.99
Black workers . . . . .	.60	.64	Farming, forestry, and fishing . . . . .	.71	.88
Married men, spouse present . . . . .	.19	.21	<b>Industry</b>		
Married women, spouse present . . . . .	.23	.25	Nonagricultural private wage and salary workers . . . . .	.16	.17
Full-time workers . . . . .	.15	.15	Mining . . . . .	1.82	2.16
Part-time workers . . . . .	.34	.43	Construction . . . . .	.84	1.04
Unemployed 15 weeks and over . . . . .	.09	.11	Manufacturing . . . . .	.33	.38
<b>Occupation</b>			Durable goods . . . . .	.45	.52
Executive, administrative, and managerial . . . . .	.27	.31	Nondurable goods . . . . .	.49	.57
Professional specialty . . . . .	.22	.24	Transportation, communications, and public utilities . . . . .	.53	.61
Technicians and related support . . . . .	.53	.62	Wholesale and retail trade . . . . .	.31	.36
Sales . . . . .	.34	.38	Finance and services . . . . .	.23	.26
Administrative support, including clerical . . . . .	.27	.31	Government workers . . . . .	.26	.29
Private household . . . . .	1.17	1.30	Agricultural wage and salary workers . . . . .	1.33	1.65
Protective service . . . . .	.92	1.05			
Service, except private household and protective . . . . .	.43	.50			

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

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

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

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

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

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

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

*Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages.* The approximate standard errors of levels, rates, and percentages involving year-to-year change of

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

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.9 percent, based on a total of 95,676,000 in the civilian labor force, and that a year prior to this the unemployment rate was 6.1 percent, based on a total of 94,254,000 in the civilian labor force for the month. First the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from tables F (0.12 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by  $0.12 \times 1.40 = 0.17$  percentage point. The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to

CPS earnings data for persons and families may be obtained by using table K in conjunction with the following formula:

$$\text{Standard error of year-to-year change} = \sqrt{\left(\frac{\text{Standard error}}{X}\right)^2 + \left(\frac{\text{Standard error}}{Y}\right)^2 - 2(P)\left(\frac{\text{Standard error}}{X}\right)\left(\frac{\text{Standard error}}{Y}\right)}$$

Where  $x$  is the estimate for one quarter and  $Y$  is the estimate for another quarter. The coefficient,  $P$ , is a measure of the correlation between the estimates  $X$  and  $Y$  resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of  $P$  are .30 for persons (total, white, and black) and .35 for families (total, white, and black). The respective values for estimates of Hispanics are .45 and .55.

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

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

or about 259,000.

**Table D. Standard errors for estimates of monthly level**

(In thousands)

Estimated monthly level	Characteristic <sup>1</sup>								
	Agricultural employment	Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only	Total or white	Black
50 .....	14	11	11	11	11	10	10	10	11
100 .....	19	15	15	15	15	14	14	15	16
500 .....	43	34	34	33	29	32	31	33	35
1,000 .....	61	48	47	46	33	45	42	47	49
2,000 .....	85	68	64	63	-	63	55	66	67
4,000 .....	120	95	84	80	-	87	66	93	88
6,000 .....	146	116	94	86	-	105	58	113	99
8,000 .....	-	133	97	83	-	120	23	129	-
10,000 .....	-	147	94	70	-	132	-	143	-
15,000 .....	-	177	50	-	-	155	-	172	-
20,000 .....	-	201	-	-	-	170	-	195	-
30,000 .....	-	236	-	-	-	188	-	-	-
40,000 .....	-	261	-	-	-	189	-	-	-
50,000 .....	-	278	-	-	-	175	-	-	-
60,000 .....	-	288	-	-	-	141	-	-	-
70,000 .....	-	293	-	-	-	61	-	-	-
80,000 .....	-	293	-	-	-	-	-	-	-
100,000 .....	-	273	-	-	-	-	-	-	-
120,000 .....	-	231	-	-	-	-	-	-	-

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

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

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

(In thousands)

Estimated monthly level	Characteristic <sup>1</sup>							
	Labor force data other than unemployment and agricultural employment data				Unemployment			
	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white	Both sexes 16 to 19 years, or part-time labor force <sup>2</sup>	Black	Black, 16 to 19 years
50 .....	8	8	13	13	12	13	12	12
100 .....	11	11	18	18	16	18	17	18
500 .....	25	25	39	34	37	40	38	35
1,000 .....	36	35	54	36	51	54	52	37
2,000 .....	50	47	72	-	72	70	69	-
4,000 .....	70	62	88	-	99	78	85	-
6,000 .....	86	70	88	-	118	60	87	-
8,000 .....	98	73	71	-	132	-	-	-
10,000 .....	109	71	-	-	143	-	-	-
15,000 .....	131	42	-	-	160	-	-	-
20,000 .....	148	-	-	-	165	-	-	-
30,000 .....	174	-	-	-	-	-	-	-
40,000 .....	191	-	-	-	-	-	-	-
50,000 .....	203	-	-	-	-	-	-	-
60,000 .....	210	-	-	-	-	-	-	-
70,000 .....	212	-	-	-	-	-	-	-
80,000 .....	211	-	-	-	-	-	-	-
100,000 .....	193	-	-	-	-	-	-	-
120,000 .....	153	-	-	-	-	-	-	-

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

<sup>2</sup> Part-time labor force for unemployment also includes persons

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

**Table F. Standard errors for unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 .....	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.05	9.87	10.21
100 .....	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 .....	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 .....	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 .....	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 .....	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 .....	.19	.27	.42	.57	.68	.76	.82	.87	.90	.93
10,000 .....	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 .....	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 .....	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 .....	.05	.07	.10	.14	.17	.19	.20	.21	.22	.22

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

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 .....	2.32	3.28	5.14	7.18	8.69	9.90	10.93	11.81	12.58	14.48
100 .....	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 .....	.73	1.04	1.63	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 .....	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 .....	.37	.52	.81	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 .....	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 .....	.21	.30	.47	.65	.78	.89	.98	1.05	1.11	-
10,000 .....	.16	.23	.36	.50	.60	.68	.75	.80	-	-
20,000 .....	.12	.16	.25	.35	.42	.47	.51	.54	-	-
60,000 .....	.07	.09	.14	.19	.22	.23	.24	-	-	-
100,000 .....	.05	.07	.11	.14	.15	.15	-	-	-	-

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

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

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

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

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

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

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

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

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men				Women	
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10 .....	5	5	5	5	5	5	5	5	5
50 .....	11	12	12	11	12	12	12	11	11
75 .....	13	15	15	13	15	15	15	13	13
100 .....	15	17	17	15	17	17	17	15	15
150 .....	19	21	21	19	21	21	21	19	19
200 .....	22	24	24	22	24	24	24	22	21
250 .....	24	27	27	24	27	27	27	24	24
300 .....	26	30	30	26	30	30	29	26	26
500 .....	34	38	38	34	38	38	37	34	33
750 .....	42	47	46	42	47	47	45	42	41
1,000 .....	48	54	53	48	54	54	50	48	46
1,500 .....	59	66	63	59	66	66	59	59	56
2,000 .....	68	76	72	68	76	76	65	68	63
2,500 .....	76	85	79	75	84	84	69	75	69
3,000 .....	83	93	85	82	92	92	71	82	74
5,000 .....	107	119	100	105	117	116	64	105	85
7,500 .....	130	145	107	127	140	138	-	127	-
10,000 .....	149	165	102	144	157	155	-	145	-
15,000 .....	180	198	-	187	183	179	-	173	-
20,000 .....	205	224	-	192	199	193	-	195	-
25,000 .....	226	244	-	207	209	199	-	211	-
30,000 .....	224	261	-	219	212	198	-	224	-
40,000 .....	273	286	-	236	201	174	-	242	-
50,000 .....	296	301	-	-	-	-	-	-	-
75,000 .....	331	304	-	-	-	-	-	-	-
100,000 .....	343	255	-	-	-	-	-	-	-



# Establishment Data (B and C tables)

## COLLECTION

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

### Federal-State cooperation

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

### Shuttle schedules

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

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

## CONCEPTS

### Industrial classification

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

All data on employment, hours, and earnings for the Nation and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. The

BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

### Industry employment

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

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

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

### Industry hours and earnings

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

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

*Construction workers* include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices,

helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

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

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

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

*Gross average hourly and weekly earnings.* Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. They also reflect

shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

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

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

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

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

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

Since overtime hours are premium hours by definition, 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.

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

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

*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. 537-40). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustments 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 average of the 12 monthly figures for 1977. For basic industries, 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 level of industry aggregation, hour and payroll aggregates are the sum of the component aggregates.

*Indexes of diffusion of changes in number of employees on nonagricultural payrolls.* These indexes measure the percent of industries which posted increases in employ-

ment over the specified time span. The indexes are calculated from 186 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*.

## ESTIMATING METHODS

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

### The “link relative” technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a “link relative.” The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these “link relatives.” In addition, 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 L.

### Size and regional stratification

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

### Benchmark adjustments

Employment estimates are compared periodically with 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 1982 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by States agencies from reports of establishments covered

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

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-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. <sup>1</sup>	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees .....	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. <sup>2</sup>	Sum of production- or nonsupervisory-worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours .....	Production- or nonsupervisory-worker hours divided by number of production or nonsupervisory workers. <sup>2</sup>	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours .....	Production-worker overtime hours divided by number of production workers. <sup>2</sup>	Average, weighted by production-worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings .....	Total production- or nonsupervisory-worker payroll divided by total production- or nonsupervisory-worker hours. <sup>2</sup>	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings .....	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
<b>Annual average data</b>		
All employees, women employees, and production or nonsupervisory workers .....	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours .....	Annual total of aggregate hours (production- or nonsupervisory-worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours .....	Annual total of aggregate overtime hours (production-worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers
Gross average hourly earnings .....	Annual total of aggregate payrolls (product of production- or nonsupervisory-worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total by 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.

<sup>1</sup> The estimates result from multiplying the product shown by bias adjustment factors to compensate for the underrepresentation of newly formed enterprises in the sample and other bias sources.

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

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

under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1982 benchmark adjustment is shown in table M.

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

## THE SAMPLE

### Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percent of total employment is included in the sample. Consequently,

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1982**

Industry division	Benchmark, March 1982	Estimate, March 1982	Percent difference
Total .....	89,566,000	89,679,000	0.1
Mining .....	1,205,000	1,178,000	2.2
Construction .....	3,638,000	3,631,000	.2
Manufacturing .....	19,213,000	19,207,000	( <sup>1</sup> )
Transportation and public utilities .....	5,070,000	5,049,000	.4
Wholesale and retail trade .....	20,062,000	20,306,000	-1.2
Finance, insurance, and real estate .....	5,294,000	5,304,000	-.2
Services .....	18,888,000	18,828,000	.3
Government .....	16,196,000	16,176,000	.1

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

the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

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

### Coverage

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

### Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and

**Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1982<sup>1</sup>**

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total .....	189,000	36,371,200	41
Mining .....	2,600	434,500	36
Construction .....	18,600	721,800	20
Manufacturing .....	47,700	10,612,300	55
Transportation and public utilities:			
Railroad transportation (ICC) .....	37	401,800	92
Other transportation and public utilities .....	8,500	2,840,800	61
Wholesale and retail trade .....	45,900	3,511,300	18
Finance, insurance, and real estate .....	13,100	1,967,100	37
Services .....	31,600	4,150,600	22
Government:			
Federal <sup>2</sup> .....	5,000	2,725,000	100
State and local .....	16,000	9,006,000	67

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

<sup>2</sup> National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 63 percent of employment in Federal establishments.

response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as 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 O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-

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

(In percent)

Industry division	Average benchmark revision in estimates of employment <sup>1</sup>	Relative errors <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment .....	0.4	-	-
Total private .....	.4	0.1	0.2
Mining .....	1.4	1.0	1.3
Construction .....	1.9	.2	.5
Manufacturing .....	.3	.1	.2
Durable goods .....	.3	.1	.3
Nondurable goods .....	.4	.1	.2
Transportation and public utilities .....	.4	.7	.6
Trade .....	.8	.1	.3
Wholesale .....	.4	.2	.4
Retail .....	1.0	.2	.4
Finance, insurance, and real estate .....	.4	.2	.4
Services .....	.6	.4	.6
Government <sup>3</sup> .....	.5	-	-

<sup>1</sup> The average percent revision in employment for the following benchmarks: 1978, 1979, 1980, 1981, and 1982.

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

<sup>3</sup> Estimates for government are based on a total count for Federal Government and, prior to the March 1979 revision, samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates:

$$RMSE = \sqrt{(\text{Standard Deviation})^2 + (\text{Bias})^2}$$

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

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

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

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

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

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

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

## STATISTICS FOR STATES AND AREAS

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

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

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
<b>INDUSTRY DIVISIONS</b>		
Total nonagricultural employment .....	101,000	88,000
Goods producing .....	42,000	36,000
Mining .....	5,000	5,000
Construction .....	22,000	18,000
Manufacturing .....	33,000	29,000
Durable two-digit industries .....	6,300	5,900
Nondurable two-digit industries .....	4,500	4,500
Service-producing .....	77,000	72,000
Transportation and public utilities .....	14,000	15,000
Wholesale and retail trade .....	31,000	28,000
Finance, insurance, and real estate .....	8,000	7,000
Services .....	30,000	24,000
Government .....	61,000	53,000

NOTE: Division level data are based on differences from January 1977 through December 1982. Two-digit industry data are based on differences from January 1982 through December 1982.

each cooperating State agency are presented in a summary volume published annual by the BLS.

## PRODUCTIVITY DATA

Tables C-9, C-10, and C-11 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.

## Definitions

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

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

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

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

*Unit labor costs* measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* includes profits, depreciation, interest, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits. *Unit profits* include corporate profits and inventory valuation adjustments per unit of output.

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

## Notes on the data

For the business sector and the nonfarm business sector, these indexes relate to the gross domestic product less household and institutions, owner-occupied hous-

ing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly

measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

## State and Area Unemployment Data (D table)

### FEDERAL-STATE COOPERATIVE PROGRAM

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

Monthly labor force and unemployment estimates in the remaining 40 States, District of Columbia, and 239 labor market areas are prepared in several stages. Labor force is the sum of the employment and unemployment levels, which are estimated in accordance with the BLS *Manual for Developing Local Area Unemployment Statistics*.

1. *Preliminary estimate—employment:* The total employment estimate is based on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residences as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the several categories of employment on the basis of employment relationships which existed at the time of the 1970 Decennial Census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not covered by UI.

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 unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the labor force for the first time or reentering after a period of separation. This is referred to below as the UI-based estimate.

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

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

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of experienced unemployed; (c) the level of 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 of 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 6-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 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 of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the 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 the 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 and the District of Columbia 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 the State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

The benchmarked estimates are produced in three stages. First, the monthly UI-based estimates are adjusted by the ratio of the CPS to the UI-based annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the third 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 CPS annual averages.

## Seasonal Adjustment

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

The seasonal adjustment program used for these series is an adaptation of the standard ratio-to-moving average method. It provides for "moving" adjustment

factors to take account of changing seasonal patterns. A detailed description of the method is given in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

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

The second change is that seasonal factors are now calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a

set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

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

Revised seasonally adjusted data for selected labor force series based on the experience through December 1982, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1983, and a description of the current seasonal adjustment methodology are published in the January 1983 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the 1978-82 revision period for a broad range of labor force series appear in the February 1983 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from BLS upon request.

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current estimates are based on data through March 1983. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series, introduced with June 1981 data.

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for

most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours.

Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

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

Prior to June 1983, seasonal factors for Federal Government employment were derived from unadjusted data which excluded Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers were substantial, and at times varied greatly from year to year, based on administrative decisions of the Postal Service. Hence, it was considered desirable to exclude this group from the unadjusted data upon which the seasonal factors were based. In the past several years, the number of these workers have decreased to the point where their presence has no impact on seasonal adjustment. Beginning with the release of revised seasonal factors in June 1983, Christmas temporary Postal workers are not excluded from the calculation of seasonal factors for Federal Government employees. This change affects the seasonally adjusted Federal Government series from January 1978 forward. Temporary census takers for the 1980 decennial census will continue to be removed prior to the calculation of seasonal factors for Federal Government employment. The revised seasonally adjusted series for the establishment data reflect experience through March 1983. Seasonal factors to be used for current adjustment appear in the June 1983 issue of *Employment and Earnings*.

# U.S. Department of Labor Bureau of Labor Statistics

REGION I - BOSTON John Fitzgerald Kennedy Federal Bldg Government Center - Room 1603-A Boston, Mass. 02203	REGION II - NEW YORK Suite 3400 1515 Broadway New York, N.Y. 10036	REGION III - PHILADELPHIA P.O. Box 13309 Philadelphia, Pa. 19101	REGION IV - ATLANTA Suite 540 1371 Peachtree Street, NE Atlanta, Ga. 30367
REGION V - CHICAGO 9th Floor 230 S. Dearborn Street Chicago, Ill. 60604	REGION VI - DALLAS 2nd Floor 555 Griffin Square Dallas, Tex. 75202	REGIONS VII & VIII - KANSAS CITY 15th Floor 911 Walnut Street Kansas City, Mo. 64106	REGION IX - SAN FRANCISCO Box 36017 450 Golden Gate Avenue San Francisco, Calif. 94102

## COOPERATING STATE AGENCIES

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

BLS Region	
IV ALABAMA	-Research and Statistics Div., Depart. of Industrial Relations, Industrial Relations Building, Room 427, 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, Employment Security Building, Little Rock 72203
IX CALIFORNIA	-Employment Data and Research Div., Employment Development Depart., P.O. Box 1679, Sacramento 95808 (CES)
VIII COLORADO	-Division of Employment and Training, 1278 Lincoln 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.	-Division of Labor Market Information, Research and Analysis, Department of Employment Services, 500 C Street N.W., Room 411, Washington, 20001
IV FLORIDA	-Bureau of Research and Analysis, Depart. of Labor and Employment Security, Caldwell Building, Tallahassee 32301
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
V ILLINOIS	Bureau of Employment Security, 910 South Michigan Street, 15th Floor, Chicago 60605
X INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	Department of Job Service, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Division of Employment, Department of Human Resources, 401 Topeka Avenue, Topeka 66603
IV KENTUCKY	Department for Human Resources, 275 E. Main Street, 2nd Floor West, Frankfort 40621
VI LOUISIANA	-Department of Labor, P.O. Box 44094, Capitol Station, Baton Rouge 70804
I MAINE	-Division of Economic Research and Analysis, Department of Labor, 20 Union Street, Augusta 04330
III MARYLAND	-Research and Analysis Division, Department of Human Resources, 1100 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	Division of Employment Security, Charles F. Hurley Building, Government Center, Boston 02114
V MICHIGAN	-Research and Statistics Division, Employment Security Commission, 7310 Woodward Avenue, Detroit 48202
V MINNESOTA	-Department of Economic Security, 390 North Robert Street, Room 517, St. Paul 55101
IV MISSISSIPPI	-Employment Security Commission, P.O. Box 1699, Jackson 39205
VII MISSOURI	-Div. of Employment Security, Depart. of Labor and Industrial Relations, P.O. Box 59, Jefferson City 65101
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, Lincoln 68509
IX NEVADA	-Employment Security Department, 500 East Third Street, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Division of Planning and Research, Department of Labor, John Fitch Plaza, Room 202, Trenton 08625
VI NEW MEXICO	Employment Services Department, Department of Human Services, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Research and Statistics, Department of Labor, State Campus-Building 12, Albany 12240
IV NORTH CAROLINA	Labor Market Information Division, Employment Security Commission, P.O. Box 25903, Raleigh 27611
VIII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
X OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
VI OKLAHOMA	-Research and Planning Division, Employment Security Commission, 310 Will Rogers Memorial Office Building, Oklahoma City 73105
X OREGON	-Employment Division, Department of Human Resources, 875 Union Street, N.E., Salem 97311
III PENNSYLVANIA	-Research and Statistics Division, Department of Labor and Industry, Seventh and Forster Streets, Harrisburg 17121
II PUERTO RICO	-Department of Labor, 505 Munoz Rivera Avenue, Hato Rey 00918
I RHODE ISLAND	Department of Employment Security, 24 Mason Street, Providence 02903
IV SOUTH CAROLINA	-Employment Security Commission, P.O. Box 995, Columbia 29202
VIII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, 436 6th Avenue, North, Room 519, Nashville 37219
VI TEXAS	-Employment Commission, 1117 Trinity Street, Austin 78701
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
I VERMONT	-Department of Employment and Training, P.O. Box 488, Montpelier 05602
III VIRGINIA	-Division of Research and Statistics, Department of Labor and Industry, P.O. Box 12064, Richmond 23241 (CES), Employment Commission, P.O. Box 1358, Richmond 23211 (LAUS)
II VIRGIN ISLANDS	-Division of Employment Security, P.O. Box 1092, St. Thomas 00801 (CES)
X WASHINGTON	-Employment Security Department, 212 Maple Park, Olympia 98504
III WEST VIRGINIA	-Div. of Labor and Economic Statistics, Depart. of Employment Security, 112 California Avenue, Charleston 25305
V WISCONSIN	-Bureau of Research and Statistics, Depart. of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VIII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82601